Appendix U - Attachment 1

# Appendix U1  Power Model Documentation

This Attachment describes the power model assumptions, methods, and models used for the Re-initiation of Consultation on long-term operations of the Central Valley Project (CVP) and State Water Project (SWP) (ROC on LTO). This Attachment also provides model results processing and interpretation methods used for the impacts analysis and descriptions.

## U1.1  Power Modeling Methodology & Assumptions

Energy generation can be quantified by estimating hydropower generation, at a monthly level, over a sequence of years representing varying hydrologic conditions. This kind of analysis is based on input hydrology and reservoir operations information. Energy generation capability will be based on the reservoir storage and flow through the turbines. Energy consumption will be based on pumping requirements to meet the operating criteria. These inputs are fed into two spreadsheet-based models, Long-Term Generation (LTGen) and SWP Power, which compute energy generation at each CVP and SWP pumping facility through a series of computations.

### U1.1.1  Power Models

LTGEN and SWP Power are two commonly used, publicly available models developed by Reclamation and DWR. These models calculate a facility's long-term power generation capacity and pumping energy consumption for CVP and SWP facilities (Bureau of Reclamation 2015). To calculate long-term power generation, the models use reservoir storage and release data from the CalSim II model along with user-specified generation characteristics, such as the number of units and transmission loss, to calculate a monthly average energy generation at all CVP and SWP reservoirs with power plants.

The models compute energy generation requirements using flow and storage data from CalSim II and user- specified characteristics, such as percentage of on-peak and off-peak pumping and transmission losses to calculate the monthly average energy consumption of all CVP and SWP pumping plants under the assumed CalSim II scenarios. Flows and storages from the entire CalSim II simulation period (October 1921 to September 2003) are used as inputs to the models. Climate change and sea level rise are inherently represented through CalSim II outputs.

Metrics for quantifying hydropower generation are displayed in terms of energy units generated (such as megawatts). Calculating energy generation annually, monthly, and by water year type can help in evaluating the overall hydropower performance under a variety of energy demand and hydrologic conditions.

For this analysis, the energy capacity, energy generation, energy use, and net energy generation of CVP and SWP facilities for No Action Alternative and four proposed action alternatives are compared against each other using exceedance tables, exceedance charts, and monthly pattern

charts. Using LTGen and SWP Power, the following parameters have been computed for each CVP and SWP facility:

- Facility Capacity (megawatts; MW)
- Energy Generation (gigawatt hours; GWh)
- Energy Use (GWh)
- Net Energy Generation (GWh)

### U1.1.2    Energy Generation Calculations

Energy generation is computed using empirical energy factors provided by the Western Area Power Authority (WAPA) for CVP facilities and by the DWR Operations Control Office (OCO) for SWP facilities. Energy generation can be calculated using Equation 1.

$$\text{Energy\_Generation } (MWh) = Energy\_Factor_G * Q\frac{ft^3}{s}$$ 

Eq. 1

### U1.1.3    Average Monthly Power Capacity Calculations

Energy generation is limited on a monthly basis by an average power capacity at each facility. Power capacity fluctuates with varying reservoir levels and scheduled water releases. Generally, power production is higher during summer months when reservoir levels are higher and water is released to satisfy delivery requirements.

For CVP facilities, average monthly power capacity is estimated using empirical equations provided by WAPA. For SWP facilities, average monthly power capacity is computed using Equation 2, where the peak capacity is assumed to be a function of total head and average power plant flow.

$$\text{Power\_Capacity } (MW) = 0.7457\frac{kW}{hp} * 62.4\frac{lbs}{ft^3} * \frac{1MW}{1,000kW} * \frac{1hp}{550\frac{lb*ft}{s}} * \frac{1}{\eta} * head(ft) *$$
$$Avg.powerplant\_flot\_rate\left(\frac{ft^3}{s}\right)$$

Eq. 2

### U1.1.4    Energy Use Calculations

Energy use is computed using empirical energy factors provided by WAPA for CVP facilities and by the OCO for SWP facilities. Energy use can be calculated using Equation 3.

$$\text{Energy\_Use } (MWh) = Energy\_Factor_U * Q\frac{ft^3}{s}$$ 

Eq. 3

In addition, the power models determine whether user-specified off-peak energy use targets can be satisfied under given power and flow capacity limits. Moreover, the tools determine the feasibility of requiring a certain percentage of pumping energy use to occur during off-peak hours for a particular month.

## U1.1.5 Transmission Losses

Transmission losses are estimated to determine energy use and generation at load centers, as percentages of energy use or generation.

## U1.1.6 Assumption Tables

Figures U-1.1 and U-1.2 show the assumptions used to estimate energy use and transmission losses at CVP and SWP pumping facilities. Figures U-1.3 and U-1.4 show the assumptions used to estimate energy generation, power capacity, and transmission losses at CVP and SWP generation facilities.

### Tracy Pumping Plant - OK

|  | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Factor (kWh/af) | 237.5 | 237.5 | 237.5 | 237.5 | 237.5 | 237.5 | 237.5 | 237.5 | 237.5 | 237.5 | 237.5 | 237.5 |
| # Units | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| Capacity/Unit (MW) | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 |
| Transmission Loss (%) | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% |
| Percent Eng Off Peak (%) | 42.9% | 42.9% | 42.9% | 42.9% | 42.9% | 42.9% | 42.9% | 42.9% | 42.9% | 42.9% | 42.9% | 42.9% |
| On Peak Cap Adj Factor | 1.05 | 1.05 | 1.05 | 1.50 | 1.20 | 2.20 | 1.60 | 2.30 | 1.50 | 1.05 | 1.05 | 1.05 |
| Off Peak Cap Adj Factor | 1.05 | 1.05 | 1.05 | 1.50 | 1.20 | 2.20 | 1.60 | 2.30 | 1.50 | 1.05 | 1.05 | 1.05 |

### CVP Banks Pumping Plant - OK

|  | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Factor (kWh/af) | 297 | 297 | 297 | 297 | 297 | 297 | 297 | 297 | 297 | 297 | 297 | 297 |
| # Units | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Capacity/Unit (MW) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Transmission Loss (%) | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% |
| Percent Eng Off Peak (%) | 53.7% | 53.7% | 53.7% | 0.1% | 0.1% | 0.1% | 0.1% | 0.1% | 0.1% | 53.7% | 53.7% | 53.7% |
| On Peak Cap Adj Factor | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 |
| Off Peak Cap Adj Factor | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 |

### Contra Costa Pumping Plant - OK

|  | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Factor (kWh/af) | 164.8 | 164.8 | 164.8 | 164.8 | 164.8 | 164.8 | 164.8 | 164.8 | 164.8 | 164.8 | 164.8 | 164.8 |
| # Units | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| Capacity/Unit (MW) | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| Transmission Loss (%) | 2.0% | 2.0% | 2.0% | 2.0% | 2.0% | 2.0% | 2.0% | 2.0% | 2.0% | 2.0% | 2.0% | 2.0% |
| Percent Eng Off Peak (%) | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| On Peak Cap Adj Factor | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 1.20 | 1.20 | 1.20 | 1.20 | 2.00 | 2.00 |
| Off Peak Cap Adj Factor | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 1.20 | 1.20 | 1.20 | 1.20 | 2.00 | 2.00 |

### O'Neill Pumping Plant - OK

|  | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Factor (kWh/af) | 59.2 | 59.2 | 59.2 | 59.2 | 59.2 | 59.2 | 59.2 | 59.2 | 59.2 | 59.2 | 59.2 | 59.2 |
| # Units | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| Capacity/Unit (MW) | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| Transmission Loss (%) | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% |
| Percent Eng Off Peak (%) | 48.5% | 48.5% | 48.5% | 48.5% | 48.5% | 48.5% | 48.5% | 48.5% | 48.5% | 48.5% | 48.5% | 48.5% |
| On Peak Cap Adj Factor | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 |
| Off Peak Cap Adj Factor | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 |

### CVP San Luis Pumping Plant - OK

|  | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Factor (kWh/af) | function | function | function | function | function | function | function | function | function | function | function | function |
| # Units | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Capacity/Unit (MW) | function | function | function | function | function | function | function | function | function | function | function | function |
| Transmission Loss (%) | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% |
| Percent Eng Off Peak (%) | 89.7% | 89.7% | 89.7% | 89.7% | 89.7% | 89.7% | 89.7% | 89.7% | 89.7% | 89.7% | 89.7% | 89.7% |
| On Peak Cap Adj Factor | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 |
| Off Peak Cap Adj Factor | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 |

### San Felipe Pumping Plant (Pacheco) - OK

|  | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Factor (kWh/af) | function | function | function | function | function | function | function | function | function | function | function | function |
| # Units | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| Capacity/Unit (MW) | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| Transmission Loss (%) | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% |
| Percent Eng Off Peak (%) | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| On Peak Cap Adj Factor | 2.00 | 2.00 | 2.00 | 1.50 | 1.50 | 1.50 | 1.50 | 1.20 | 1.20 | 1.20 | 1.20 | 1.20 |
| Off Peak Cap Adj Factor | 2.00 | 2.00 | 2.00 | 1.50 | 1.50 | 1.50 | 1.50 | 1.20 | 1.20 | 1.20 | 1.20 | 1.20 |

### CVP Dos Amigos Pumping Plant - OK

|  | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Factor (kWh/af) | 137.9 | 137.9 | 137.9 | 137.9 | 137.9 | 137.9 | 137.9 | 137.9 | 137.9 | 137.9 | 137.9 | 137.9 |
| # Units | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| Capacity/Unit (MW) | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 |
| Transmission Loss (%) | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% |
| Percent Eng Off Peak (%) | 76.6% | 76.6% | 76.6% | 76.6% | 76.6% | 76.6% | 76.6% | 76.6% | 56.6% | 56.6% | 56.6% | 76.6% |
| On Peak Cap Adj Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Off Peak Cap Adj Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |

### Folsom Pumping Plant - OK

|  | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Factor (kWh/af) | function | function | function | function | function | function | function | function | function | function | function | function |
| # Units | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| Capacity/Unit (MW) | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Transmission Loss (%) | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% |
| Percent Eng Off Peak (%) | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| On Peak Cap Adj Factor | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 |
| Off Peak Cap Adj Factor | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 |

**Corning Pumping Plant - OK**

| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Factor (kWh/af) | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 |
| # Units | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Capacity/Unit (MW) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Transmission Loss (%) | 8.0% | 8.0% | 8.0% | 8.0% | 8.0% | 8.0% | 8.0% | 8.0% | 8.0% | 8.0% | 8.0% | 8.0% |
| Percent Eng Off Peak (%) | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| On Peak Cap Adj Factor | 3.00 | 4.00 | 4.00 | 4.00 | 4.00 | 3.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 |
| Off Peak Cap Adj Factor | 3.00 | 4.00 | 4.00 | 4.00 | 4.00 | 3.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 |

**Red Bluff Pumping Plant - OK**

| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Factor (kWh/af) | 12 | 12 | 12 | 12 | 12 | 12 | 0 | 0 | 0 | 0 | 0 | 12 |
| # Units | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Capacity/Unit (MW) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Transmission Loss (%) | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% |
| Percent Eng Off Peak (%) | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| On Peak Adj Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Off Peak Adj Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |

**San Luis Other - OK**

| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Factor (kWh/af) | 93.5 | 93.5 | 93.5 | 93.5 | 93.5 | 93.5 | 93.5 | 93.5 | 93.5 | 93.5 | 93.5 | 93.5 |
| # Units | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Capacity/Unit (MW) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Transmission Loss (%) | 8.0% | 8.0% | 8.0% | 8.0% | 8.0% | 8.0% | 8.0% | 8.0% | 8.0% | 8.0% | 8.0% | 8.0% |
| Percent Eng Off Peak (%) | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| On Peak Cap Adj Factor | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 2.00 |
| Off Peak Cap Adj Factor | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 2.00 |

**DMC Other - OK**

| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Factor (kWh/af) | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| # Units | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Capacity/Unit (MW) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Transmission Loss (%) | 8.0% | 8.0% | 8.0% | 8.0% | 8.0% | 8.0% | 8.0% | 8.0% | 8.0% | 8.0% | 8.0% | 8.0% |
| Percent Eng Off Peak (%) | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| On Peak Cap Adj Factor | 3.00 | 3.00 | 3.00 | 3.00 | 2.50 | 2.00 | 2.00 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 |
| Off Peak Cap Adj Factor | 3.00 | 3.00 | 3.00 | 3.00 | 2.50 | 2.00 | 2.00 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 |

**Tehama Other - OK**

| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Factor (kWh/af) | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 |
| # Units | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Capacity/Unit (MW) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Transmission Loss (%) | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% |
| Percent Eng Off Peak (%) | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| On Peak Cap Adj Factor | 2.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 |
| Off Peak Cap Adj Factor | 2.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 |

**Alternate Miscellaneous Project Use - OK**

| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW | 7 | 5 | 6 | 6 | 9 | 11 | 4 | 5 | 15 | 23 | 33 | 9 |
| Transmission Loss (%) | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| Percentage of Main Pumps | 15.8% | 9.2% | 5.9% | 8.0% | 12.5% | 13.1% | 39.9% | 81.1% | 35.5% | 43.2% | 38.6% | 17.9% |
| Percent Eng Off Peak (%) | 59.1% | 61.6% | 67.3% | 64.3% | 62.0% | 59.0% | 52.2% | 52.9% | 49.1% | 50.3% | 49.8% | 61.3% |

**DMC Intertie - OK**

| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Factor (kWh/af) | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 |
| # Units | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Capacity/Unit (MW) | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| Transmission Loss (%) | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% |
| Percent Eng Off Peak (%) | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| On Peak Cap Adj Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Off Peak Cap Adj Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |

Figure U-1.1. Central Valley Project Pumping Plant Characteristics

**Banks Pumping Plant**

| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Factor (kWh/af) | 297 | 297 | 297 | 297 | 297 | 297 | 297 | 297 | 297 | 297 | 297 | 297 |
| # Units | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Capacity/Unit (MW) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Transmission Loss (%) | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% |
| Percent Eng Off Peak (%) | 53.7% | 53.7% | 53.7% | 0.1% | 0.1% | 0.1% | 0.1% | 0.1% | 0.1% | 53.7% | 53.7% | 53.7% |

**SWP San Luis Pumping Plant (Gianelli Pumping Plant)**

| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Factor (kWh/af) | function | function | function | function | function | function | function | function | function | function | function | function |
| # Units | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Capacity/Unit (MW) | function | function | function | function | function | function | function | function | function | function | function | function |
| Transmission Loss (%) | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% |
| Percent Eng Off Peak (%) | 89.7% | 89.7% | 89.7% | 89.7% | 89.7% | 89.7% | 89.7% | 89.7% | 89.7% | 89.7% | 89.7% | 89.7% |

**Dos Amigos Pumping Plant**

| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Factor (kWh/af) | 137.9 | 137.9 | 137.9 | 137.9 | 137.9 | 137.9 | 137.9 | 137.9 | 137.9 | 137.9 | 137.9 | 137.9 |
| # Units | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| Capacity/Unit (MW) | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 | 27.6 |
| Transmission Loss (%) | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% |
| Percent Eng Off Peak (%) | 76.6% | 76.6% | 76.6% | 76.6% | 76.6% | 76.6% | 76.6% | 76.6% | 56.6% | 56.6% | 56.6% | 76.6% |

**Buena Vista Pumping Plant**

| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Factor (kWh/af) | 242 | 242 | 242 | 242 | 242 | 242 | 242 | 242 | 242 | 242 | 242 | 242 |
| Plant Power Rating (MW) | 107.797 | 107.797 | 107.797 | 107.797 | 107.797 | 107.797 | 107.797 | 107.797 | 107.797 | 107.797 | 107.797 | 107.797 |
| Transmission Loss (%) | 1.51% | 1.51% | 1.51% | 1.51% | 1.51% | 1.51% | 1.51% | 1.51% | 1.51% | 1.51% | 1.51% | 1.51% |
| Percent Eng Off Peak (%) | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |

**Teerink (Wheeler Ridge) Pumping Plant**

| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Factor (kWh/af) | 295 | 295 | 295 | 295 | 295 | 295 | 295 | 295 | 295 | 295 | 295 | 295 |
| Plant Power Rating (MW) | 111.9 | 111.9 | 111.9 | 111.9 | 111.9 | 111.9 | 111.9 | 111.9 | 111.9 | 111.9 | 111.9 | 111.9 |
| Transmission Loss (%) | 1.51% | 1.51% | 1.51% | 1.51% | 1.51% | 1.51% | 1.51% | 1.51% | 1.51% | 1.51% | 1.51% | 1.51% |
| Percent Eng Off Peak (%) | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |

**Chrisman (Wind Gap) Pumping Plant**

| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Factor (kWh/af) | 639 | 639 | 639 | 639 | 639 | 639 | 639 | 639 | 639 | 639 | 639 | 639 |
| Plant Power Rating (MW) | 246.18 | 246.18 | 246.18 | 246.18 | 246.18 | 246.18 | 246.18 | 246.18 | 246.18 | 246.18 | 246.18 | 246.18 |
| Transmission Loss (%) | 1.51% | 1.51% | 1.51% | 1.51% | 1.51% | 1.51% | 1.51% | 1.51% | 1.51% | 1.51% | 1.51% | 1.51% |
| Percent Eng Off Peak (%) | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |

**Edmonson Pumping Plant**

| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Factor (kWh/af) | 2,236 | 2,236 | 2,236 | 2,236 | 2,236 | 2,236 | 2,236 | 2,236 | 2,236 | 2,236 | 2,236 | 2,236 |
| Plant Power Rating (MW) | 775.84 | 775.84 | 775.84 | 775.84 | 775.84 | 775.84 | 775.84 | 775.84 | 775.84 | 775.84 | 775.84 | 775.84 |
| Transmission Loss (%) | 1.64% | 1.64% | 1.64% | 1.64% | 1.64% | 1.64% | 1.64% | 1.64% | 1.64% | 1.64% | 1.64% | 1.64% |
| Percent Eng Off Peak (%) | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |

**Pearblossom Pumping Plant**

| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Factor (kWh/af) | 703 | 703 | 703 | 703 | 703 | 703 | 703 | 703 | 703 | 703 | 703 | 703 |
| Plant Power Rating (MW) | 151.588 | 151.588 | 151.588 | 151.588 | 151.588 | 151.588 | 151.588 | 151.588 | 151.588 | 151.588 | 151.588 | 151.588 |
| Transmission Loss (%) | 0.30% | 0.30% | 0.30% | 0.30% | 0.30% | 0.30% | 0.30% | 0.30% | 0.30% | 0.30% | 0.30% | 0.30% |
| Percent Eng Off Peak (%) | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |

**Oso Pumping Plant**

| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Factor (kWh/af) | 280 | 280 | 280 | 280 | 280 | 280 | 280 | 280 | 280 | 280 | 280 | 280 |
| Plant Power Rating (MW) | 69.975 | 69.975 | 69.975 | 69.975 | 69.975 | 69.975 | 69.975 | 69.975 | 69.975 | 69.975 | 69.975 | 69.975 |
| Transmission Loss (%) | 2.34% | 2.34% | 2.34% | 2.34% | 2.34% | 2.34% | 2.34% | 2.34% | 2.34% | 2.34% | 2.34% | 2.34% |
| Percent Eng Off Peak (%) | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |

**South Bay Pumping Plant**

| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Factor (kWh/af) | 797 | 797 | 797 | 797 | 797 | 797 | 797 | 797 | 797 | 797 | 797 | 797 |
| Plant Power Rating (MW) | 38 | 38 | 38 | 38 | 38 | 38 | 38 | 38 | 38 | 38 | 38 | 38 |
| Transmission Loss (%) | 2.3% | 2.3% | 2.3% | 2.3% | 2.3% | 2.3% | 2.3% | 2.3% | 2.3% | 2.3% | 2.3% | 2.3% |
| Percent Eng Off Peak (%) | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |

**Del Valle Pumping Plant**

| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Factor (kWh/af) | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 |
| Plant Power Rating (MW) | 0.746 | 0.746 | 0.746 | 0.746 | 0.746 | 0.746 | 0.746 | 0.746 | 0.746 | 0.746 | 0.746 | 0.746 |
| Transmission Loss (%) | 1.8% | 1.8% | 1.8% | 1.8% | 1.8% | 1.8% | 1.8% | 1.8% | 1.8% | 1.8% | 1.8% | 1.8% |
| Percent Eng Off Peak (%) | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |

| Las Perillas Pumping Plant | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Energy Factor (kWh/af) | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 |
| Plant Power Rating (MW) | 3.021 | 3.021 | 3.021 | 3.021 | 3.021 | 3.021 | 3.021 | 3.021 | 3.021 | 3.021 | 3.021 | 3.021 |
| Transmission Loss (%) | 1.32% | 1.32% | 1.32% | 1.32% | 1.32% | 1.32% | 1.32% | 1.32% | 1.32% | 1.32% | 1.32% | 1.32% |
| Percent Eng Off Peak (%) | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |

| Badger Hill Pumping Plant | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Energy Factor (kWh/af) | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 |
| Plant Power Rating (MW) | 8.766 | 8.766 | 8.766 | 8.766 | 8.766 | 8.766 | 8.766 | 8.766 | 8.766 | 8.766 | 8.766 | 8.766 |
| Transmission Loss (%) | 1.32% | 1.32% | 1.32% | 1.32% | 1.32% | 1.32% | 1.32% | 1.32% | 1.32% | 1.32% | 1.32% | 1.32% |
| Percent Eng Off Peak (%) | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |

Figure U-1.2. State Water Project Pumping Plant Characteristics

| Trinity Powerplant - Peaking Operation | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Energy Factor (kWh/af) | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function |
| # Units | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Capacity/Unit (MW) | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function |
| Transmission Loss (%) | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% |

| Lewiston Powerplant - Baseload Operation | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Energy Factor (kWh/af) | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function |
| # Units | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Capacity/Unit (MW) | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function |
| Transmission Loss (%) | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% |

| Carr Powerplant - Peaking Operation | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Energy Factor (kWh/af) | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function |
| # Units | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Capacity/Unit (MW) | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function |
| Transmission Loss (%) | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% |

| Spring Creek Powerplant - Peaking Operation | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Energy Factor (kWh/af) | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function |
| # Units | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Capacity/Unit (MW) | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function |
| Transmission Loss (%) | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% |

| Shasta Powerplant - Peaking Operation | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Energy Factor (kWh/af) | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function |
| # Units | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Capacity/Unit (MW) | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function |
| Transmission Loss (%) | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% |

| Keswick Powerplant - Baseload Operation | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Energy Factor (kWh/af) | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function |
| # Units | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Capacity/Unit (MW) | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function |
| Transmission Loss (%) | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% |

| Folsom Powerplant - Peaking Operation | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Energy Factor (kWh/af) | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function |
| # Units | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Capacity/Unit (MW) | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function |
| Transmission Loss (%) | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% |

| Nimbus Powerplant - Baseload Operation | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Energy Factor (kWh/af) | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function |
| # Units | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Capacity/Unit (MW) | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function |
| Transmission Loss (%) | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% |

| New Melones Powerplant - Peaking Operation | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Energy Factor (kWh/af) | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function |
| # Units | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Capacity/Unit (MW) | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function |
| Transmission Loss (%) | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% |

| CVP San Luis Powerplant - Peaking Operation | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Energy Factor (kWh/af) | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function |
| # Units | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Capacity/Unit (MW) | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function |
| Transmission Loss (%) | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% |
| Share of Total Cap (%) | 47.1% | 47.1% | 47.1% | 47.1% | 47.1% | 47.1% | 47.1% | 47.1% | 47.1% | 47.1% | 47.1% | 47.1% |

| O'Neill Powerplant - Baseload Operation, flow computation | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Energy Factor (kWh/af) | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function |
| # Units | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| Capacity/Unit (MW) | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Transmission Loss (%) | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% |

Figure U-1.3. Central Valley Project Powerplant Characteristics

## Hyatt (Lake Oroville) Power Plant

| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Factor (kWh/af) | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function |
| Maximum Flow Capacity (cfs) | 16,950 | 16,950 | 16,950 | 16,950 | 16,950 | 16,950 | 16,950 | 16,950 | 16,950 | 16,950 | 16,950 | 16,950 |
| Plant Power Rating (MW) | 819 | 819 | 819 | 819 | 819 | 819 | 819 | 819 | 819 | 819 | 819 | 819 |
| Plant Efficiency | 87.3% | 87.3% | 87.3% | 87.3% | 87.3% | 87.3% | 87.3% | 87.3% | 87.3% | 87.3% | 87.3% | 87.3% |
| Transmission Loss (%) | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% |

## Thermalito Power Plant

| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Factor (kWh/af) | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function |
| Maximum Flow Capacity (cfs) | 17,400 | 17,400 | 17,400 | 17,400 | 17,400 | 17,400 | 17,400 | 17,400 | 17,400 | 17,400 | 17,400 | 17,400 |
| Plant Power Rating (MW) | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 |
| Plant Efficiency | 87.3% | 87.3% | 87.3% | 87.3% | 87.3% | 87.3% | 87.3% | 87.3% | 87.3% | 87.3% | 87.3% | 87.3% |
| Transmission Loss (%) | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% | 4.5% |

## SWP San Luis (Gianelli Power Plant)

| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Factor (kWh/af) | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function |
| Capacity/Unit (MW) | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function |
| # Units | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Share of Total Cap (%) | 52.9% | 52.9% | 52.9% | 52.9% | 52.9% | 52.9% | 52.9% | 52.9% | 52.9% | 52.9% | 52.9% | 52.9% |
| Transmission Loss (%) | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% |

## Alamo Power Plant

| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Factor (kWh/af) | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 |
| Maximum Flow Capacity (cfs) | 1,740 | 1,740 | 1,740 | 1,740 | 1,740 | 1,740 | 1,740 | 1,740 | 1,740 | 1,740 | 1,740 | 1,740 |
| Plant Power Rating (MW) | 19.6 | 19.6 | 19.6 | 19.6 | 19.6 | 19.6 | 19.6 | 19.6 | 19.6 | 19.6 | 19.6 | 19.6 |
| Plant Efficiency | 80.1% | 80.1% | 80.1% | 80.1% | 80.1% | 80.1% | 80.1% | 80.1% | 80.1% | 80.1% | 80.1% | 80.1% |
| Transmission Loss (%) | 1.4% | 1.4% | 1.4% | 1.4% | 1.4% | 1.4% | 1.4% | 1.4% | 1.4% | 1.4% | 1.4% | 1.4% |

## Mojave Power Plant

| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Factor (kWh/af) | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 |
| Maximum Flow Capacity (cfs) | 2,880 | 2,880 | 2,880 | 2,880 | 2,880 | 2,880 | 2,880 | 2,880 | 2,880 | 2,880 | 2,880 | 2,880 |
| Plant Power Rating (MW) | 32.90 | 32.90 | 32.90 | 32.90 | 32.90 | 32.90 | 32.90 | 32.90 | 32.90 | 32.90 | 32.90 | 32.90 |
| Plant Efficiency | 84.00% | 84.00% | 84.00% | 84.00% | 84.00% | 84.00% | 84.00% | 84.00% | 84.00% | 84.00% | 84.00% | 84.00% |
| Transmission Loss (%) | 5.93% | 5.93% | 5.93% | 5.93% | 5.93% | 5.93% | 5.93% | 5.93% | 5.93% | 5.93% | 5.93% | 5.93% |

## Devil's Canyon Power Plant

| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Factor (kWh/af) | 1,113 | 1,113 | 1,113 | 1,113 | 1,113 | 1,113 | 1,113 | 1,113 | 1,113 | 1,113 | 1,113 | 1,113 |
| Maximum Flow Capacity (cfs) | 2,940 | 2,940 | 2,940 | 2,940 | 2,940 | 2,940 | 2,940 | 2,940 | 2,940 | 2,940 | 2,940 | 2,940 |
| Plant Power Rating (MW) | 357.90 | 357.90 | 357.90 | 357.90 | 357.90 | 357.90 | 357.90 | 357.90 | 357.90 | 357.90 | 357.90 | 357.90 |
| Plant Efficiency | 82.03% | 82.03% | 82.03% | 82.03% | 82.03% | 82.03% | 82.03% | 82.03% | 82.03% | 82.03% | 82.03% | 82.03% |
| Transmission Loss (%) | 2.23% | 2.23% | 2.23% | 2.23% | 2.23% | 2.23% | 2.23% | 2.23% | 2.23% | 2.23% | 2.23% | 2.23% |

## W. E. Warne Power Plant

| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Factor (kWh/af) | 573 | 573 | 573 | 573 | 573 | 573 | 573 | 573 | 573 | 573 | 573 | 573 |
| Maximum Flow Capacity (cfs) | 1,564 | 1,564 | 1,564 | 1,564 | 1,564 | 1,564 | 1,564 | 1,564 | 1,564 | 1,564 | 1,564 | 1,564 |
| Plant Power Rating (MW) | 78.2 | 78.2 | 78.2 | 78.2 | 78.2 | 78.2 | 78.2 | 78.2 | 78.2 | 78.2 | 78.2 | 78.2 |
| Plant Efficiency | 81.4% | 81.4% | 81.4% | 81.4% | 81.4% | 81.4% | 81.4% | 81.4% | 81.4% | 81.4% | 81.4% | 81.4% |
| Transmission Loss (%) | 1.4% | 1.4% | 1.4% | 1.4% | 1.4% | 1.4% | 1.4% | 1.4% | 1.4% | 1.4% | 1.4% | 1.4% |

## Castaic Power Plant

| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Factor (kWh/af) | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function | Function |
| Maximum Flow Capacity (cfs) | 17,840 | 17,840 | 17,840 | 17,840 | 17,840 | 17,840 | 17,840 | 17,840 | 17,840 | 17,840 | 17,840 | 17,840 |
| Plant Power Rating (MW) | 1,260 | 1,260 | 1,260 | 1,260 | 1,260 | 1,260 | 1,260 | 1,260 | 1,260 | 1,260 | 1,260 | 1,260 |
| Plant Efficiency | 88.4% | 88.4% | 88.4% | 88.4% | 88.4% | 88.4% | 88.4% | 88.4% | 88.4% | 88.4% | 88.4% | 88.4% |
| Transmission Loss (%) | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% |

Figure U-1.4. State Water Project Powerplant Characteristics

## U1.2  Report Formats

- Exceedance tables comparing power modeling results of two scenarios
- Monthly pattern charts including all scenarios
- Monthly exceedance charts including all scenarios

## U1.3  Results

The following results of the LTGen and SWP Power models are included for energy capacity, energy generation, and energy use at key project locations for the following alternatives:

- No Action Alternative 011319
- Alternative 1 011519
- Alternative 2 021719
- Alternative 3 021719
- Alternative 4 043019

Table U-1.1. Model Parameters, Table Numbers and Figure Numbers

| Title | Model Parameter | Table Numbers | Figure Numbers |
|-------|-----------------|---------------|----------------|
| CVP Total Capacity | CVP_TOTAL | 1-1 to 1-4 | 1-1 to 1-18 |
| CVP Total Generation | CVP_TOTAL | 2-1 to 2-4 | 2-1 to 2-18 |
| CVP Total Energy Use | CVP_TOTAL | 3-1 to 3-4 | 3-1 to 3-18 |
| CVP Net Generation | CVP_TOTAL | 4-1 to 4-4 | 4-1 to 4-18 |
| SWP Total Capacity | SWP_TOTAL | 5-1 to 5-4 | 5-1 to 5-18 |
| SWP Total Generation | SWP_TOTAL | 6-1 to 6-4 | 6-1 to 6-18 |
| SWP Total Energy Use | SWP_TOTAL | 7-1 to 7-4 | 7-1 to 7-18 |
| SWP Net Generation | SWP_TOTAL | 8-1 to 8-4 | 8-1 to 8-18 |
| CVP and SWP Net Generation | CVP_SWP_TOTAL | 9-1 to 9-4 | 9-1 to 9-18 |

## U1.4  References

U.S. Department of the Interior, Bureau of Reclamation. 2015. Final Environmental Impact Statement for the Coordinated Long-term Operation of the Central Valley Project and the State Water Project, Appendix 8A: Power Model Documentation.

# Appendix U2 – Power Model Documentation

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# Contents

# Tables

# Figures

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Table 1-1. CVP Total Capacity, Monthly Capacity

**NAA**

| Statistic | Monthly Capacity (MW) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 1,735 | 1,731 | 1,766 | 1,815 | 1,851 | 1,880 | 1,914 | 1,935 | 1,928 | 1,906 | 1,817 | 1,779 |
| 20% | 1,696 | 1,696 | 1,729 | 1,772 | 1,815 | 1,858 | 1,901 | 1,921 | 1,902 | 1,855 | 1,766 | 1,730 |
| 30% | 1,640 | 1,659 | 1,681 | 1,745 | 1,789 | 1,843 | 1,881 | 1,896 | 1,857 | 1,817 | 1,712 | 1,675 |
| 40% | 1,605 | 1,612 | 1,636 | 1,712 | 1,761 | 1,811 | 1,851 | 1,861 | 1,827 | 1,787 | 1,687 | 1,638 |
| 50% | 1,554 | 1,542 | 1,611 | 1,679 | 1,730 | 1,781 | 1,823 | 1,831 | 1,803 | 1,752 | 1,647 | 1,574 |
| 60% | 1,514 | 1,514 | 1,567 | 1,632 | 1,693 | 1,758 | 1,803 | 1,794 | 1,770 | 1,716 | 1,611 | 1,551 |
| 70% | 1,481 | 1,478 | 1,506 | 1,563 | 1,651 | 1,721 | 1,767 | 1,764 | 1,722 | 1,684 | 1,589 | 1,515 |
| 80% | 1,432 | 1,428 | 1,447 | 1,504 | 1,592 | 1,650 | 1,702 | 1,708 | 1,666 | 1,614 | 1,502 | 1,437 |
| 90% | 1,278 | 1,277 | 1,310 | 1,393 | 1,449 | 1,526 | 1,586 | 1,596 | 1,583 | 1,509 | 1,402 | 1,310 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 1,519 | 1,517 | 1,565 | 1,630 | 1,690 | 1,747 | 1,789 | 1,798 | 1,770 | 1,721 | 1,622 | 1,559 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 1,560 | 1,572 | 1,653 | 1,736 | 1,802 | 1,854 | 1,897 | 1,917 | 1,899 | 1,860 | 1,767 | 1,724 |
| Above Normal (12%) | 1,546 | 1,544 | 1,571 | 1,671 | 1,739 | 1,807 | 1,848 | 1,866 | 1,836 | 1,800 | 1,704 | 1,656 |
| Below Normal (24%) | 1,541 | 1,535 | 1,578 | 1,633 | 1,694 | 1,746 | 1,797 | 1,803 | 1,770 | 1,715 | 1,618 | 1,556 |
| Dry (17%) | 1,553 | 1,546 | 1,557 | 1,593 | 1,645 | 1,718 | 1,756 | 1,753 | 1,720 | 1,672 | 1,574 | 1,502 |
| Critical (15%) | 1,333 | 1,319 | 1,358 | 1,407 | 1,456 | 1,504 | 1,533 | 1,533 | 1,501 | 1,426 | 1,307 | 1,199 |

**Alt1**

| Statistic | Monthly Capacity (MW) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 1,770 | 1,759 | 1,802 | 1,841 | 1,865 | 1,900 | 1,930 | 1,955 | 1,952 | 1,929 | 1,846 | 1,794 |
| 20% | 1,712 | 1,712 | 1,761 | 1,805 | 1,852 | 1,885 | 1,918 | 1,946 | 1,933 | 1,873 | 1,763 | 1,732 |
| 30% | 1,672 | 1,672 | 1,711 | 1,779 | 1,824 | 1,870 | 1,915 | 1,927 | 1,905 | 1,833 | 1,731 | 1,683 |
| 40% | 1,617 | 1,622 | 1,658 | 1,741 | 1,801 | 1,855 | 1,896 | 1,911 | 1,876 | 1,791 | 1,685 | 1,622 |
| 50% | 1,559 | 1,559 | 1,629 | 1,707 | 1,774 | 1,827 | 1,876 | 1,889 | 1,847 | 1,772 | 1,652 | 1,582 |
| 60% | 1,521 | 1,517 | 1,584 | 1,654 | 1,741 | 1,796 | 1,851 | 1,845 | 1,811 | 1,726 | 1,621 | 1,556 |
| 70% | 1,478 | 1,481 | 1,519 | 1,588 | 1,692 | 1,756 | 1,798 | 1,809 | 1,767 | 1,680 | 1,594 | 1,508 |

| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Monthly Capacity (MW) | | | | | | | |
| 80% | 1,442 | 1,426 | 1,468 | 1,519 | 1,618 | 1,711 | 1,741 | 1,747 | 1,705 | 1,636 | 1,535 | 1,456 |
| 90% | 1,306 | 1,298 | 1,313 | 1,397 | 1,495 | 1,589 | 1,627 | 1,616 | 1,610 | 1,523 | 1,397 | 1,303 |
| **Long Term** | | | | | | | | | | | | |
| Full Simulation Period | 1,531 | 1,524 | 1,581 | 1,655 | 1,724 | 1,781 | 1,825 | 1,834 | 1,804 | 1,734 | 1,628 | 1,557 |
| **Water Year Types** | | | | | | | | | | | | |
| Wet (32%) | 1,570 | 1,581 | 1,673 | 1,762 | 1,829 | 1,878 | 1,919 | 1,943 | 1,930 | 1,881 | 1,784 | 1,734 |
| Above Normal (12%) | 1,566 | 1,555 | 1,604 | 1,700 | 1,776 | 1,844 | 1,891 | 1,918 | 1,884 | 1,819 | 1,710 | 1,652 |
| Below Normal (24%) | 1,541 | 1,541 | 1,589 | 1,660 | 1,731 | 1,786 | 1,842 | 1,852 | 1,810 | 1,727 | 1,626 | 1,557 |
| Dry (17%) | 1,566 | 1,550 | 1,570 | 1,617 | 1,694 | 1,759 | 1,801 | 1,796 | 1,761 | 1,683 | 1,581 | 1,506 |
| Critical (15%) | 1,362 | 1,321 | 1,369 | 1,429 | 1,485 | 1,538 | 1,571 | 1,552 | 1,513 | 1,421 | 1,287 | 1,157 |

**Alt1 minus NAA**

| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Monthly Capacity (MW) | | | | | | | |
| **Probability of Exceedance** | | | | | | | | | | | | |
| 10% | 35 | 29 | 36 | 26 | 14 | 20 | 17 | 19 | 24 | 24 | 29 | 15 |
| 20% | 16 | 16 | 32 | 33 | 37 | 27 | 17 | 26 | 32 | 18 | -3 | 2 |
| 30% | 32 | 14 | 30 | 34 | 35 | 27 | 34 | 31 | 48 | 16 | 19 | 8 |
| 40% | 12 | 10 | 22 | 30 | 39 | 44 | 45 | 50 | 49 | 4 | -2 | -16 |
| 50% | 6 | 17 | 18 | 28 | 44 | 46 | 52 | 59 | 44 | 20 | 6 | 7 |
| 60% | 7 | 3 | 16 | 22 | 49 | 39 | 48 | 51 | 41 | 10 | 10 | 5 |
| 70% | -3 | 3 | 13 | 25 | 41 | 35 | 31 | 45 | 45 | -3 | 6 | -7 |
| 80% | 10 | -3 | 21 | 15 | 26 | 61 | 39 | 39 | 39 | 22 | 33 | 19 |
| 90% | 28 | 21 | 3 | 4 | 45 | 63 | 41 | 20 | 26 | 14 | -5 | -7 |
| **Long Term** | | | | | | | | | | | | |
| Full Simulation Period | 12 | 7 | 17 | 26 | 34 | 34 | 36 | 37 | 34 | 13 | 6 | -2 |
| **Water Year Types** | | | | | | | | | | | | |
| Wet (32%) | 10 | 9 | 20 | 26 | 27 | 24 | 22 | 26 | 32 | 21 | 16 | 11 |
| Above Normal (12%) | 20 | 11 | 33 | 29 | 37 | 38 | 43 | 52 | 49 | 19 | 6 | -4 |
| Below Normal (24%) | 0 | 6 | 11 | 26 | 37 | 39 | 44 | 49 | 40 | 12 | 8 | 1 |
| Dry (17%) | 13 | 5 | 13 | 24 | 49 | 42 | 44 | 43 | 41 | 11 | 7 | 4 |
| Critical (15%) | 28 | 2 | 11 | 23 | 28 | 34 | 38 | 19 | 12 | -5 | -19 | -42 |

Table 1-2. CVP Total Capacity, Monthly Capacity

**NAA**

| Statistic | Monthly Capacity (MW) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 1,735 | 1,731 | 1,766 | 1,815 | 1,851 | 1,880 | 1,914 | 1,935 | 1,928 | 1,906 | 1,817 | 1,779 |
| 20% | 1,696 | 1,696 | 1,729 | 1,772 | 1,815 | 1,858 | 1,901 | 1,921 | 1,902 | 1,855 | 1,766 | 1,730 |
| 30% | 1,640 | 1,659 | 1,681 | 1,745 | 1,789 | 1,843 | 1,881 | 1,896 | 1,857 | 1,817 | 1,712 | 1,675 |
| 40% | 1,605 | 1,612 | 1,636 | 1,712 | 1,761 | 1,811 | 1,851 | 1,861 | 1,827 | 1,787 | 1,687 | 1,638 |
| 50% | 1,554 | 1,542 | 1,611 | 1,679 | 1,730 | 1,781 | 1,823 | 1,831 | 1,803 | 1,752 | 1,647 | 1,574 |
| 60% | 1,514 | 1,514 | 1,567 | 1,632 | 1,693 | 1,758 | 1,803 | 1,794 | 1,770 | 1,716 | 1,611 | 1,551 |
| 70% | 1,481 | 1,478 | 1,506 | 1,563 | 1,651 | 1,721 | 1,767 | 1,764 | 1,722 | 1,684 | 1,589 | 1,515 |
| 80% | 1,432 | 1,428 | 1,447 | 1,504 | 1,592 | 1,650 | 1,702 | 1,708 | 1,666 | 1,614 | 1,502 | 1,437 |
| 90% | 1,278 | 1,277 | 1,310 | 1,393 | 1,449 | 1,526 | 1,586 | 1,596 | 1,583 | 1,509 | 1,402 | 1,310 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 1,519 | 1,517 | 1,565 | 1,630 | 1,690 | 1,747 | 1,789 | 1,798 | 1,770 | 1,721 | 1,622 | 1,559 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 1,560 | 1,572 | 1,653 | 1,736 | 1,802 | 1,854 | 1,897 | 1,917 | 1,899 | 1,860 | 1,767 | 1,724 |
| Above Normal (12%) | 1,546 | 1,544 | 1,571 | 1,671 | 1,739 | 1,807 | 1,848 | 1,866 | 1,836 | 1,800 | 1,704 | 1,656 |
| Below Normal (24%) | 1,541 | 1,535 | 1,578 | 1,633 | 1,694 | 1,746 | 1,797 | 1,803 | 1,770 | 1,715 | 1,618 | 1,556 |
| Dry (17%) | 1,553 | 1,546 | 1,557 | 1,593 | 1,645 | 1,718 | 1,756 | 1,753 | 1,720 | 1,672 | 1,574 | 1,502 |
| Critical (15%) | 1,333 | 1,319 | 1,358 | 1,407 | 1,456 | 1,504 | 1,533 | 1,533 | 1,501 | 1,426 | 1,307 | 1,199 |

**Alt2v1 wo TUCP**

| Statistic | Monthly Capacity (MW) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 1,752 | 1,739 | 1,776 | 1,827 | 1,855 | 1,886 | 1,924 | 1,947 | 1,943 | 1,920 | 1,838 | 1,788 |
| 20% | 1,712 | 1,712 | 1,744 | 1,772 | 1,816 | 1,861 | 1,912 | 1,937 | 1,923 | 1,873 | 1,780 | 1,730 |
| 30% | 1,649 | 1,668 | 1,678 | 1,754 | 1,787 | 1,839 | 1,887 | 1,901 | 1,877 | 1,822 | 1,727 | 1,684 |
| 40% | 1,612 | 1,626 | 1,646 | 1,719 | 1,770 | 1,810 | 1,857 | 1,879 | 1,848 | 1,789 | 1,696 | 1,644 |
| 50% | 1,570 | 1,569 | 1,614 | 1,678 | 1,733 | 1,789 | 1,833 | 1,843 | 1,814 | 1,758 | 1,666 | 1,594 |
| 60% | 1,538 | 1,540 | 1,575 | 1,614 | 1,693 | 1,758 | 1,800 | 1,806 | 1,779 | 1,728 | 1,634 | 1,566 |
| 70% | 1,502 | 1,516 | 1,525 | 1,572 | 1,649 | 1,715 | 1,769 | 1,773 | 1,737 | 1,692 | 1,603 | 1,533 |

| Statistic | Monthly Capacity (MW) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| 80% | 1,445 | 1,435 | 1,463 | 1,523 | 1,593 | 1,659 | 1,721 | 1,712 | 1,688 | 1,639 | 1,532 | 1,456 |
| 90% | 1,289 | 1,284 | 1,311 | 1,401 | 1,477 | 1,535 | 1,579 | 1,580 | 1,570 | 1,525 | 1,402 | 1,326 |
| **Long Term** | | | | | | | | | | | | |
| Full Simulation Period | 1,539 | 1,539 | 1,575 | 1,634 | 1,694 | 1,749 | 1,793 | 1,805 | 1,781 | 1,729 | 1,636 | 1,571 |
| **Water Year Types** | | | | | | | | | | | | |
| Wet (32%) | 1,583 | 1,594 | 1,662 | 1,741 | 1,803 | 1,856 | 1,903 | 1,928 | 1,915 | 1,876 | 1,783 | 1,734 |
| Above Normal (12%) | 1,544 | 1,541 | 1,563 | 1,670 | 1,736 | 1,804 | 1,855 | 1,883 | 1,856 | 1,811 | 1,717 | 1,666 |
| Below Normal (24%) | 1,544 | 1,550 | 1,587 | 1,635 | 1,698 | 1,746 | 1,800 | 1,811 | 1,778 | 1,721 | 1,630 | 1,564 |
| Dry (17%) | 1,569 | 1,562 | 1,569 | 1,598 | 1,650 | 1,718 | 1,758 | 1,757 | 1,734 | 1,677 | 1,593 | 1,520 |
| Critical (15%) | 1,402 | 1,376 | 1,384 | 1,415 | 1,469 | 1,514 | 1,539 | 1,528 | 1,492 | 1,421 | 1,316 | 1,219 |

**Alt2v1 wo TUCP minus NAA**

| Statistic | Monthly Capacity (MW) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| **Probability of Exceedance** | | | | | | | | | | | | |
| 10% | 17 | 8 | 10 | 12 | 4 | 6 | 10 | 12 | 15 | 15 | 21 | 9 |
| 20% | 16 | 16 | 15 | 1 | 1 | 2 | 11 | 17 | 21 | 19 | 14 | 0 |
| 30% | 10 | 10 | -2 | 9 | -1 | -4 | 6 | 5 | 20 | 5 | 15 | 9 |
| 40% | 7 | 14 | 10 | 7 | 8 | -1 | 6 | 18 | 21 | 3 | 9 | 6 |
| 50% | 16 | 27 | 3 | -1 | 2 | 8 | 10 | 13 | 11 | 7 | 19 | 19 |
| 60% | 25 | 26 | 7 | -18 | 0 | 1 | -3 | 11 | 9 | 12 | 23 | 15 |
| 70% | 21 | 38 | 19 | 8 | -1 | -6 | 2 | 10 | 15 | 9 | 14 | 18 |
| 80% | 14 | 7 | 17 | 19 | 1 | 9 | 19 | 4 | 22 | 25 | 29 | 19 |
| 90% | 10 | 7 | 1 | 8 | 28 | 10 | -7 | -16 | -13 | 16 | 0 | 16 |
| **Long Term** | | | | | | | | | | | | |
| Full Simulation Period | 21 | 22 | 10 | 4 | 4 | 2 | 4 | 8 | 11 | 9 | 14 | 12 |
| **Water Year Types** | | | | | | | | | | | | |
| Wet (32%) | 23 | 22 | 9 | 5 | 1 | 2 | 6 | 12 | 16 | 16 | 16 | 10 |
| Above Normal (12%) | -2 | -3 | -7 | -1 | -4 | -2 | 7 | 18 | 21 | 12 | 14 | 9 |
| Below Normal (24%) | 3 | 15 | 9 | 1 | 4 | 0 | 3 | 8 | 8 | 6 | 12 | 9 |
| Dry (17%) | 16 | 17 | 13 | 5 | 5 | 0 | 2 | 4 | 14 | 6 | 19 | 18 |
| Critical (15%) | 68 | 58 | 26 | 8 | 12 | 11 | 6 | -5 | -9 | -5 | 9 | 20 |

Table 1-3. CVP Total Capacity, Monthly Capacity

**NAA**

| Statistic | Monthly Capacity (MW) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 1,735 | 1,731 | 1,766 | 1,815 | 1,851 | 1,880 | 1,914 | 1,935 | 1,928 | 1,906 | 1,817 | 1,779 |
| 20% | 1,696 | 1,696 | 1,729 | 1,772 | 1,815 | 1,858 | 1,901 | 1,921 | 1,902 | 1,855 | 1,766 | 1,730 |
| 30% | 1,640 | 1,659 | 1,681 | 1,745 | 1,789 | 1,843 | 1,881 | 1,896 | 1,857 | 1,817 | 1,712 | 1,675 |
| 40% | 1,605 | 1,612 | 1,636 | 1,712 | 1,761 | 1,811 | 1,851 | 1,861 | 1,827 | 1,787 | 1,687 | 1,638 |
| 50% | 1,554 | 1,542 | 1,611 | 1,679 | 1,730 | 1,781 | 1,823 | 1,831 | 1,803 | 1,752 | 1,647 | 1,574 |
| 60% | 1,514 | 1,514 | 1,567 | 1,632 | 1,693 | 1,758 | 1,803 | 1,794 | 1,770 | 1,716 | 1,611 | 1,551 |
| 70% | 1,481 | 1,478 | 1,506 | 1,563 | 1,651 | 1,721 | 1,767 | 1,764 | 1,722 | 1,684 | 1,589 | 1,515 |
| 80% | 1,432 | 1,428 | 1,447 | 1,504 | 1,592 | 1,650 | 1,702 | 1,708 | 1,666 | 1,614 | 1,502 | 1,437 |
| 90% | 1,278 | 1,277 | 1,310 | 1,393 | 1,449 | 1,526 | 1,586 | 1,596 | 1,583 | 1,509 | 1,402 | 1,310 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 1,519 | 1,517 | 1,565 | 1,630 | 1,690 | 1,747 | 1,789 | 1,798 | 1,770 | 1,721 | 1,622 | 1,559 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 1,560 | 1,572 | 1,653 | 1,736 | 1,802 | 1,854 | 1,897 | 1,917 | 1,899 | 1,860 | 1,767 | 1,724 |
| Above Normal (12%) | 1,546 | 1,544 | 1,571 | 1,671 | 1,739 | 1,807 | 1,848 | 1,866 | 1,836 | 1,800 | 1,704 | 1,656 |
| Below Normal (24%) | 1,541 | 1,535 | 1,578 | 1,633 | 1,694 | 1,746 | 1,797 | 1,803 | 1,770 | 1,715 | 1,618 | 1,556 |
| Dry (17%) | 1,553 | 1,546 | 1,557 | 1,593 | 1,645 | 1,718 | 1,756 | 1,753 | 1,720 | 1,672 | 1,574 | 1,502 |
| Critical (15%) | 1,333 | 1,319 | 1,358 | 1,407 | 1,456 | 1,504 | 1,533 | 1,533 | 1,501 | 1,426 | 1,307 | 1,199 |

**Alt2v1 w TUCP**

| Statistic | Monthly Capacity (MW) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 1,752 | 1,738 | 1,777 | 1,827 | 1,855 | 1,886 | 1,924 | 1,947 | 1,943 | 1,920 | 1,838 | 1,788 |
| 20% | 1,705 | 1,712 | 1,742 | 1,773 | 1,822 | 1,862 | 1,912 | 1,937 | 1,923 | 1,874 | 1,780 | 1,730 |
| 30% | 1,650 | 1,669 | 1,681 | 1,755 | 1,787 | 1,838 | 1,887 | 1,900 | 1,878 | 1,822 | 1,727 | 1,681 |
| 40% | 1,615 | 1,626 | 1,647 | 1,719 | 1,770 | 1,810 | 1,858 | 1,882 | 1,848 | 1,789 | 1,695 | 1,648 |
| 50% | 1,574 | 1,570 | 1,617 | 1,672 | 1,737 | 1,790 | 1,836 | 1,849 | 1,822 | 1,763 | 1,666 | 1,596 |
| 60% | 1,539 | 1,542 | 1,580 | 1,613 | 1,693 | 1,760 | 1,806 | 1,806 | 1,780 | 1,728 | 1,636 | 1,566 |
| 70% | 1,505 | 1,516 | 1,526 | 1,577 | 1,658 | 1,726 | 1,772 | 1,778 | 1,743 | 1,693 | 1,608 | 1,536 |

| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Monthly Capacity (MW) | | | | | | | |
| 80% | 1,454 | 1,445 | 1,478 | 1,528 | 1,613 | 1,660 | 1,723 | 1,726 | 1,690 | 1,647 | 1,547 | 1,470 |
| 90% | 1,341 | 1,357 | 1,369 | 1,438 | 1,502 | 1,576 | 1,617 | 1,613 | 1,575 | 1,541 | 1,428 | 1,351 |
| **Long Term** | | | | | | | | | | | | |
| Full Simulation Period | 1,557 | 1,556 | 1,589 | 1,645 | 1,704 | 1,757 | 1,801 | 1,815 | 1,790 | 1,741 | 1,649 | 1,585 |
| **Water Year Types** | | | | | | | | | | | | |
| Wet (32%) | 1,585 | 1,597 | 1,667 | 1,741 | 1,803 | 1,856 | 1,903 | 1,928 | 1,914 | 1,876 | 1,783 | 1,732 |
| Above Normal (12%) | 1,564 | 1,560 | 1,582 | 1,685 | 1,749 | 1,815 | 1,861 | 1,889 | 1,861 | 1,814 | 1,719 | 1,667 |
| Below Normal (24%) | 1,580 | 1,575 | 1,598 | 1,648 | 1,707 | 1,754 | 1,806 | 1,816 | 1,784 | 1,727 | 1,633 | 1,570 |
| Dry (17%) | 1,576 | 1,570 | 1,579 | 1,601 | 1,658 | 1,724 | 1,764 | 1,762 | 1,737 | 1,682 | 1,598 | 1,524 |
| Critical (15%) | 1,432 | 1,416 | 1,425 | 1,454 | 1,500 | 1,539 | 1,570 | 1,570 | 1,540 | 1,482 | 1,394 | 1,302 |

**Alt2v1 w TUCP minus NAA**

| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Monthly Capacity (MW) | | | | | | | |
| **Probability of Exceedance** | | | | | | | | | | | | |
| 10% | 17 | 7 | 11 | 13 | 3 | 6 | 10 | 12 | 15 | 15 | 21 | 9 |
| 20% | 9 | 16 | 14 | 1 | 8 | 4 | 11 | 16 | 21 | 19 | 14 | 0 |
| 30% | 10 | 10 | 0 | 10 | -1 | -5 | 7 | 4 | 20 | 5 | 15 | 6 |
| 40% | 10 | 14 | 11 | 7 | 9 | -1 | 7 | 20 | 21 | 3 | 8 | 9 |
| 50% | 21 | 28 | 6 | -7 | 7 | 9 | 13 | 18 | 19 | 12 | 19 | 21 |
| 60% | 25 | 28 | 12 | -19 | 0 | 3 | 2 | 11 | 9 | 13 | 24 | 15 |
| 70% | 24 | 38 | 20 | 14 | 7 | 5 | 5 | 14 | 21 | 9 | 19 | 21 |
| 80% | 22 | 17 | 31 | 24 | 21 | 10 | 21 | 18 | 24 | 33 | 45 | 34 |
| 90% | 62 | 80 | 59 | 45 | 52 | 51 | 31 | 17 | -8 | 32 | 26 | 41 |
| **Long Term** | | | | | | | | | | | | |
| Full Simulation Period | 38 | 38 | 24 | 15 | 14 | 10 | 12 | 17 | 20 | 20 | 28 | 27 |
| **Water Year Types** | | | | | | | | | | | | |
| Wet (32%) | 25 | 25 | 14 | 5 | 2 | 2 | 5 | 11 | 16 | 16 | 16 | 9 |
| Above Normal (12%) | 18 | 16 | 11 | 14 | 10 | 9 | 12 | 23 | 25 | 15 | 15 | 10 |
| Below Normal (24%) | 39 | 40 | 20 | 15 | 13 | 7 | 9 | 13 | 13 | 12 | 16 | 14 |
| Dry (17%) | 23 | 24 | 22 | 8 | 14 | 6 | 8 | 9 | 17 | 10 | 24 | 22 |
| Critical (15%) | 98 | 98 | 67 | 48 | 44 | 36 | 37 | 37 | 39 | 56 | 87 | 103 |

Table 1-4. CVP Total Capacity, Monthly Capacity

**NAA**

| | Monthly Capacity (MW) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| **Probability of Exceedance** | | | | | | | | | | | | |
| 10% | 1,735 | 1,731 | 1,766 | 1,815 | 1,851 | 1,880 | 1,914 | 1,935 | 1,928 | 1,906 | 1,817 | 1,779 |
| 20% | 1,696 | 1,696 | 1,729 | 1,772 | 1,815 | 1,858 | 1,901 | 1,921 | 1,902 | 1,855 | 1,766 | 1,730 |
| 30% | 1,640 | 1,659 | 1,681 | 1,745 | 1,789 | 1,843 | 1,881 | 1,896 | 1,857 | 1,817 | 1,712 | 1,675 |
| 40% | 1,605 | 1,612 | 1,636 | 1,712 | 1,761 | 1,811 | 1,851 | 1,861 | 1,827 | 1,787 | 1,687 | 1,638 |
| 50% | 1,554 | 1,542 | 1,611 | 1,679 | 1,730 | 1,781 | 1,823 | 1,831 | 1,803 | 1,752 | 1,647 | 1,574 |
| 60% | 1,514 | 1,514 | 1,567 | 1,632 | 1,693 | 1,758 | 1,803 | 1,794 | 1,770 | 1,716 | 1,611 | 1,551 |
| 70% | 1,481 | 1,478 | 1,506 | 1,563 | 1,651 | 1,721 | 1,767 | 1,764 | 1,722 | 1,684 | 1,589 | 1,515 |
| 80% | 1,432 | 1,428 | 1,447 | 1,504 | 1,592 | 1,650 | 1,702 | 1,708 | 1,666 | 1,614 | 1,502 | 1,437 |
| 90% | 1,278 | 1,277 | 1,310 | 1,393 | 1,449 | 1,526 | 1,586 | 1,596 | 1,583 | 1,509 | 1,402 | 1,310 |
| **Long Term** | | | | | | | | | | | | |
| Full Simulation Period | 1,519 | 1,517 | 1,565 | 1,630 | 1,690 | 1,747 | 1,789 | 1,798 | 1,770 | 1,721 | 1,622 | 1,559 |
| **Water Year Types** | | | | | | | | | | | | |
| Wet (32%) | 1,560 | 1,572 | 1,653 | 1,736 | 1,802 | 1,854 | 1,897 | 1,917 | 1,899 | 1,860 | 1,767 | 1,724 |
| Above Normal (12%) | 1,546 | 1,544 | 1,571 | 1,671 | 1,739 | 1,807 | 1,848 | 1,866 | 1,836 | 1,800 | 1,704 | 1,656 |
| Below Normal (24%) | 1,541 | 1,535 | 1,578 | 1,633 | 1,694 | 1,746 | 1,797 | 1,803 | 1,770 | 1,715 | 1,618 | 1,556 |
| Dry (17%) | 1,553 | 1,546 | 1,557 | 1,593 | 1,645 | 1,718 | 1,756 | 1,753 | 1,720 | 1,672 | 1,574 | 1,502 |
| Critical (15%) | 1,333 | 1,319 | 1,358 | 1,407 | 1,456 | 1,504 | 1,533 | 1,533 | 1,501 | 1,426 | 1,307 | 1,199 |

**Alt2v2 no TUCP**

| | Monthly Capacity (MW) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| **Probability of Exceedance** | | | | | | | | | | | | |
| 10% | 1,752 | 1,742 | 1,784 | 1,824 | 1,859 | 1,883 | 1,923 | 1,947 | 1,942 | 1,919 | 1,838 | 1,790 |
| 20% | 1,710 | 1,702 | 1,744 | 1,778 | 1,819 | 1,865 | 1,912 | 1,932 | 1,921 | 1,876 | 1,783 | 1,728 |
| 30% | 1,645 | 1,671 | 1,685 | 1,752 | 1,789 | 1,841 | 1,881 | 1,897 | 1,869 | 1,813 | 1,732 | 1,678 |
| 40% | 1,609 | 1,622 | 1,647 | 1,724 | 1,772 | 1,807 | 1,849 | 1,878 | 1,836 | 1,792 | 1,690 | 1,639 |
| 50% | 1,574 | 1,572 | 1,615 | 1,674 | 1,740 | 1,792 | 1,828 | 1,845 | 1,812 | 1,764 | 1,663 | 1,596 |
| 60% | 1,539 | 1,534 | 1,578 | 1,628 | 1,702 | 1,751 | 1,797 | 1,797 | 1,778 | 1,732 | 1,633 | 1,574 |
| 70% | 1,502 | 1,511 | 1,539 | 1,571 | 1,641 | 1,723 | 1,770 | 1,770 | 1,734 | 1,701 | 1,608 | 1,546 |

| Statistic | Monthly Capacity (MW) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| 80% | 1,468 | 1,449 | 1,487 | 1,530 | 1,599 | 1,653 | 1,712 | 1,708 | 1,685 | 1,641 | 1,543 | 1,478 |
| 90% | 1,313 | 1,299 | 1,317 | 1,415 | 1,491 | 1,536 | 1,596 | 1,578 | 1,585 | 1,498 | 1,403 | 1,323 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 1,542 | 1,543 | 1,580 | 1,637 | 1,695 | 1,751 | 1,792 | 1,804 | 1,780 | 1,730 | 1,636 | 1,571 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 1,585 | 1,595 | 1,667 | 1,743 | 1,806 | 1,858 | 1,903 | 1,927 | 1,914 | 1,875 | 1,784 | 1,731 |
| Above Normal (12%) | 1,549 | 1,545 | 1,567 | 1,671 | 1,742 | 1,806 | 1,850 | 1,876 | 1,848 | 1,807 | 1,713 | 1,660 |
| Below Normal (24%) | 1,544 | 1,552 | 1,590 | 1,635 | 1,698 | 1,746 | 1,795 | 1,810 | 1,777 | 1,724 | 1,633 | 1,569 |
| Dry (17%) | 1,574 | 1,566 | 1,573 | 1,605 | 1,650 | 1,719 | 1,757 | 1,755 | 1,732 | 1,681 | 1,596 | 1,530 |
| Critical (15%) | 1,409 | 1,387 | 1,395 | 1,420 | 1,470 | 1,520 | 1,544 | 1,532 | 1,501 | 1,427 | 1,308 | 1,210 |

**Alt2v2 no TUCP minus NAA**

| Statistic | Monthly Capacity (MW) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 17 | 11 | 17 | 9 | 8 | 3 | 10 | 12 | 14 | 13 | 21 | 11 |
| 20% | 14 | 5 | 15 | 6 | 4 | 7 | 11 | 11 | 19 | 21 | 17 | -1 |
| 30% | 6 | 13 | 4 | 7 | 0 | -2 | 0 | 1 | 12 | -4 | 20 | 3 |
| 40% | 4 | 10 | 11 | 12 | 11 | -4 | -2 | 17 | 9 | 5 | 3 | 1 |
| 50% | 21 | 30 | 4 | -5 | 10 | 11 | 5 | 15 | 9 | 13 | 16 | 22 |
| 60% | 25 | 21 | 10 | -4 | 10 | -7 | -6 | 3 | 8 | 17 | 21 | 22 |
| 70% | 21 | 34 | 33 | 8 | -10 | 2 | 3 | 6 | 12 | 18 | 20 | 31 |
| 80% | 36 | 21 | 41 | 26 | 7 | 3 | 10 | 0 | 20 | 27 | 41 | 41 |
| 90% | 35 | 23 | 7 | 22 | 41 | 10 | 10 | -18 | 2 | -11 | 0 | 14 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 24 | 25 | 15 | 7 | 5 | 4 | 3 | 7 | 10 | 10 | 14 | 12 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 25 | 23 | 14 | 7 | 4 | 3 | 5 | 10 | 15 | 15 | 16 | 7 |
| Above Normal (12%) | 3 | 1 | -4 | 0 | 3 | -1 | 1 | 10 | 12 | 7 | 10 | 3 |
| Below Normal (24%) | 3 | 17 | 12 | 2 | 4 | 0 | -2 | 7 | 6 | 9 | 15 | 13 |
| Dry (17%) | 21 | 20 | 17 | 11 | 5 | 1 | 1 | 2 | 12 | 9 | 22 | 27 |
| Critical (15%) | 75 | 68 | 37 | 13 | 13 | 17 | 11 | 0 | -1 | 2 | 1 | 11 |

Table 1-5. CVP Total Capacity, Monthly Capacity

**NAA**

| Statistic | Monthly Capacity (MW) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 1,735 | 1,731 | 1,766 | 1,815 | 1,851 | 1,880 | 1,914 | 1,935 | 1,928 | 1,906 | 1,817 | 1,779 |
| 20% | 1,696 | 1,696 | 1,729 | 1,772 | 1,815 | 1,858 | 1,901 | 1,921 | 1,902 | 1,855 | 1,766 | 1,730 |
| 30% | 1,640 | 1,659 | 1,681 | 1,745 | 1,789 | 1,843 | 1,881 | 1,896 | 1,857 | 1,817 | 1,712 | 1,675 |
| 40% | 1,605 | 1,612 | 1,636 | 1,712 | 1,761 | 1,811 | 1,851 | 1,861 | 1,827 | 1,787 | 1,687 | 1,638 |
| 50% | 1,554 | 1,542 | 1,611 | 1,679 | 1,730 | 1,781 | 1,823 | 1,831 | 1,803 | 1,752 | 1,647 | 1,574 |
| 60% | 1,514 | 1,514 | 1,567 | 1,632 | 1,693 | 1,758 | 1,803 | 1,794 | 1,770 | 1,716 | 1,611 | 1,551 |
| 70% | 1,481 | 1,478 | 1,506 | 1,563 | 1,651 | 1,721 | 1,767 | 1,764 | 1,722 | 1,684 | 1,589 | 1,515 |
| 80% | 1,432 | 1,428 | 1,447 | 1,504 | 1,592 | 1,650 | 1,702 | 1,708 | 1,666 | 1,614 | 1,502 | 1,437 |
| 90% | 1,278 | 1,277 | 1,310 | 1,393 | 1,449 | 1,526 | 1,586 | 1,596 | 1,583 | 1,509 | 1,402 | 1,310 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 1,519 | 1,517 | 1,565 | 1,630 | 1,690 | 1,747 | 1,789 | 1,798 | 1,770 | 1,721 | 1,622 | 1,559 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 1,560 | 1,572 | 1,653 | 1,736 | 1,802 | 1,854 | 1,897 | 1,917 | 1,899 | 1,860 | 1,767 | 1,724 |
| Above Normal (12%) | 1,546 | 1,544 | 1,571 | 1,671 | 1,739 | 1,807 | 1,848 | 1,866 | 1,836 | 1,800 | 1,704 | 1,656 |
| Below Normal (24%) | 1,541 | 1,535 | 1,578 | 1,633 | 1,694 | 1,746 | 1,797 | 1,803 | 1,770 | 1,715 | 1,618 | 1,556 |
| Dry (17%) | 1,553 | 1,546 | 1,557 | 1,593 | 1,645 | 1,718 | 1,756 | 1,753 | 1,720 | 1,672 | 1,574 | 1,502 |
| Critical (15%) | 1,333 | 1,319 | 1,358 | 1,407 | 1,456 | 1,504 | 1,533 | 1,533 | 1,501 | 1,426 | 1,307 | 1,199 |

**Alt2v3 no TUCP**

| Statistic | Monthly Capacity (MW) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 1,751 | 1,743 | 1,785 | 1,824 | 1,858 | 1,884 | 1,924 | 1,947 | 1,942 | 1,918 | 1,838 | 1,792 |
| 20% | 1,709 | 1,700 | 1,745 | 1,777 | 1,821 | 1,868 | 1,913 | 1,933 | 1,921 | 1,873 | 1,780 | 1,727 |
| 30% | 1,649 | 1,671 | 1,684 | 1,751 | 1,794 | 1,842 | 1,880 | 1,898 | 1,867 | 1,822 | 1,735 | 1,677 |
| 40% | 1,618 | 1,624 | 1,648 | 1,728 | 1,773 | 1,807 | 1,851 | 1,879 | 1,837 | 1,791 | 1,702 | 1,645 |
| 50% | 1,582 | 1,581 | 1,617 | 1,678 | 1,744 | 1,792 | 1,832 | 1,844 | 1,807 | 1,764 | 1,667 | 1,598 |
| 60% | 1,540 | 1,543 | 1,581 | 1,619 | 1,711 | 1,752 | 1,798 | 1,789 | 1,771 | 1,733 | 1,636 | 1,574 |
| 70% | 1,509 | 1,510 | 1,543 | 1,584 | 1,650 | 1,722 | 1,770 | 1,770 | 1,736 | 1,707 | 1,615 | 1,554 |

| Statistic | Monthly Capacity (MW) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| 80% | 1,473 | 1,459 | 1,488 | 1,534 | 1,613 | 1,664 | 1,714 | 1,708 | 1,686 | 1,647 | 1,551 | 1,487 |
| 90% | 1,317 | 1,304 | 1,316 | 1,418 | 1,495 | 1,542 | 1,599 | 1,580 | 1,574 | 1,495 | 1,404 | 1,332 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 1,546 | 1,547 | 1,581 | 1,638 | 1,698 | 1,753 | 1,795 | 1,805 | 1,778 | 1,732 | 1,641 | 1,574 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 1,590 | 1,601 | 1,667 | 1,746 | 1,807 | 1,859 | 1,904 | 1,927 | 1,913 | 1,875 | 1,785 | 1,731 |
| Above Normal (12%) | 1,551 | 1,548 | 1,566 | 1,674 | 1,744 | 1,808 | 1,854 | 1,873 | 1,843 | 1,806 | 1,713 | 1,659 |
| Below Normal (24%) | 1,550 | 1,555 | 1,591 | 1,637 | 1,703 | 1,749 | 1,799 | 1,811 | 1,772 | 1,727 | 1,638 | 1,575 |
| Dry (17%) | 1,577 | 1,572 | 1,576 | 1,599 | 1,654 | 1,720 | 1,758 | 1,756 | 1,733 | 1,687 | 1,603 | 1,539 |
| Critical (15%) | 1,408 | 1,389 | 1,397 | 1,425 | 1,473 | 1,524 | 1,549 | 1,537 | 1,499 | 1,429 | 1,327 | 1,212 |

**Alt2v3 no TUCP minus NAA**

| Statistic | Monthly Capacity (MW) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 17 | 12 | 19 | 9 | 7 | 5 | 10 | 12 | 14 | 12 | 21 | 13 |
| 20% | 14 | 4 | 16 | 5 | 6 | 9 | 12 | 13 | 19 | 18 | 14 | -3 |
| 30% | 9 | 13 | 3 | 6 | 5 | -1 | 0 | 2 | 10 | 5 | 24 | 2 |
| 40% | 13 | 12 | 12 | 16 | 12 | -4 | 0 | 18 | 10 | 4 | 15 | 7 |
| 50% | 29 | 38 | 6 | -2 | 14 | 11 | 8 | 14 | 4 | 12 | 20 | 24 |
| 60% | 26 | 30 | 13 | -13 | 18 | -6 | -5 | -6 | 1 | 17 | 25 | 23 |
| 70% | 28 | 32 | 37 | 21 | -1 | 1 | 3 | 7 | 14 | 23 | 26 | 38 |
| 80% | 41 | 31 | 41 | 30 | 21 | 15 | 12 | -1 | 20 | 33 | 48 | 50 |
| 90% | 39 | 27 | 6 | 25 | 46 | 17 | 13 | -16 | -9 | -14 | 1 | 22 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 28 | 29 | 16 | 8 | 8 | 6 | 6 | 7 | 8 | 11 | 19 | 15 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 30 | 29 | 14 | 10 | 6 | 4 | 6 | 11 | 15 | 15 | 18 | 8 |
| Above Normal (12%) | 5 | 4 | -4 | 3 | 4 | 1 | 5 | 7 | 8 | 6 | 9 | 2 |
| Below Normal (24%) | 9 | 20 | 13 | 4 | 8 | 2 | 1 | 8 | 2 | 12 | 20 | 20 |
| Dry (17%) | 24 | 26 | 20 | 6 | 9 | 3 | 2 | 3 | 13 | 15 | 29 | 36 |
| Critical (15%) | 74 | 70 | 39 | 18 | 17 | 21 | 16 | 4 | -2 | 3 | 20 | 13 |

## Table 1-6. CVP Total Capacity, Monthly Capacity

**NAA**

| Statistic | Monthly Capacity (MW) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 1,735 | 1,731 | 1,766 | 1,815 | 1,851 | 1,880 | 1,914 | 1,935 | 1,928 | 1,906 | 1,817 | 1,779 |
| 20% | 1,696 | 1,696 | 1,729 | 1,772 | 1,815 | 1,858 | 1,901 | 1,921 | 1,902 | 1,855 | 1,766 | 1,730 |
| 30% | 1,640 | 1,659 | 1,681 | 1,745 | 1,789 | 1,843 | 1,881 | 1,896 | 1,857 | 1,817 | 1,712 | 1,675 |
| 40% | 1,605 | 1,612 | 1,636 | 1,712 | 1,761 | 1,811 | 1,851 | 1,861 | 1,827 | 1,787 | 1,687 | 1,638 |
| 50% | 1,554 | 1,542 | 1,611 | 1,679 | 1,730 | 1,781 | 1,823 | 1,831 | 1,803 | 1,752 | 1,647 | 1,574 |
| 60% | 1,514 | 1,514 | 1,567 | 1,632 | 1,693 | 1,758 | 1,803 | 1,794 | 1,770 | 1,716 | 1,611 | 1,551 |
| 70% | 1,481 | 1,478 | 1,506 | 1,563 | 1,651 | 1,721 | 1,767 | 1,764 | 1,722 | 1,684 | 1,589 | 1,515 |
| 80% | 1,432 | 1,428 | 1,447 | 1,504 | 1,592 | 1,650 | 1,702 | 1,708 | 1,666 | 1,614 | 1,502 | 1,437 |
| 90% | 1,278 | 1,277 | 1,310 | 1,393 | 1,449 | 1,526 | 1,586 | 1,596 | 1,583 | 1,509 | 1,402 | 1,310 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 1,519 | 1,517 | 1,565 | 1,630 | 1,690 | 1,747 | 1,789 | 1,798 | 1,770 | 1,721 | 1,622 | 1,559 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 1,560 | 1,572 | 1,653 | 1,736 | 1,802 | 1,854 | 1,897 | 1,917 | 1,899 | 1,860 | 1,767 | 1,724 |
| Above Normal (12%) | 1,546 | 1,544 | 1,571 | 1,671 | 1,739 | 1,807 | 1,848 | 1,866 | 1,836 | 1,800 | 1,704 | 1,656 |
| Below Normal (24%) | 1,541 | 1,535 | 1,578 | 1,633 | 1,694 | 1,746 | 1,797 | 1,803 | 1,770 | 1,715 | 1,618 | 1,556 |
| Dry (17%) | 1,553 | 1,546 | 1,557 | 1,593 | 1,645 | 1,718 | 1,756 | 1,753 | 1,720 | 1,672 | 1,574 | 1,502 |
| Critical (15%) | 1,333 | 1,319 | 1,358 | 1,407 | 1,456 | 1,504 | 1,533 | 1,533 | 1,501 | 1,426 | 1,307 | 1,199 |

**Alt3**

| Statistic | Monthly Capacity (MW) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 1,739 | 1,724 | 1,778 | 1,818 | 1,855 | 1,879 | 1,913 | 1,938 | 1,901 | 1,898 | 1,803 | 1,758 |
| 20% | 1,667 | 1,685 | 1,708 | 1,771 | 1,809 | 1,852 | 1,893 | 1,917 | 1,866 | 1,829 | 1,751 | 1,684 |
| 30% | 1,612 | 1,642 | 1,672 | 1,719 | 1,781 | 1,822 | 1,879 | 1,891 | 1,837 | 1,799 | 1,699 | 1,625 |
| 40% | 1,594 | 1,591 | 1,638 | 1,695 | 1,724 | 1,799 | 1,834 | 1,857 | 1,816 | 1,774 | 1,673 | 1,587 |
| 50% | 1,542 | 1,559 | 1,591 | 1,650 | 1,701 | 1,762 | 1,804 | 1,810 | 1,780 | 1,749 | 1,642 | 1,552 |
| 60% | 1,501 | 1,519 | 1,569 | 1,604 | 1,676 | 1,731 | 1,769 | 1,776 | 1,759 | 1,698 | 1,593 | 1,519 |
| 70% | 1,480 | 1,495 | 1,516 | 1,559 | 1,640 | 1,706 | 1,739 | 1,748 | 1,714 | 1,649 | 1,560 | 1,496 |

| Statistic | Monthly Capacity (MW) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| 80% | 1,444 | 1,438 | 1,466 | 1,507 | 1,583 | 1,652 | 1,707 | 1,699 | 1,674 | 1,614 | 1,519 | 1,451 |
| 90% | 1,356 | 1,353 | 1,345 | 1,451 | 1,512 | 1,555 | 1,593 | 1,616 | 1,583 | 1,510 | 1,431 | 1,367 |
| **Long Term** | | | | | | | | | | | | |
| Full Simulation Period | 1,537 | 1,544 | 1,579 | 1,633 | 1,689 | 1,742 | 1,782 | 1,794 | 1,762 | 1,717 | 1,624 | 1,552 |
| **Water Year Types** | | | | | | | | | | | | |
| Wet (32%) | 1,576 | 1,599 | 1,670 | 1,745 | 1,801 | 1,855 | 1,895 | 1,914 | 1,873 | 1,848 | 1,758 | 1,689 |
| Above Normal (12%) | 1,540 | 1,543 | 1,574 | 1,648 | 1,714 | 1,787 | 1,827 | 1,852 | 1,818 | 1,784 | 1,684 | 1,613 |
| Below Normal (24%) | 1,549 | 1,555 | 1,579 | 1,622 | 1,683 | 1,735 | 1,784 | 1,796 | 1,763 | 1,716 | 1,620 | 1,550 |
| Dry (17%) | 1,547 | 1,544 | 1,554 | 1,578 | 1,639 | 1,694 | 1,729 | 1,731 | 1,716 | 1,648 | 1,550 | 1,475 |
| Critical (15%) | 1,423 | 1,412 | 1,417 | 1,462 | 1,497 | 1,532 | 1,558 | 1,559 | 1,530 | 1,463 | 1,377 | 1,299 |

**Alt3 minus NAA**

| Statistic | Monthly Capacity (MW) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| **Probability of Exceedance** | | | | | | | | | | | | |
| 10% | 5 | -7 | 12 | 3 | 3 | -1 | -1 | 2 | -27 | -8 | -14 | -21 |
| 20% | -29 | -11 | -21 | -1 | -6 | -6 | -8 | -4 | -35 | -26 | -15 | -46 |
| 30% | -28 | -16 | -9 | -26 | -8 | -21 | -2 | -5 | -20 | -18 | -13 | -50 |
| 40% | -11 | -21 | 2 | -16 | -37 | -12 | -17 | -4 | -11 | -13 | -14 | -51 |
| 50% | -12 | 17 | -20 | -29 | -29 | -19 | -19 | -21 | -23 | -3 | -5 | -23 |
| 60% | -13 | 5 | 1 | -28 | -17 | -26 | -34 | -19 | -11 | -18 | -18 | -32 |
| 70% | -1 | 17 | 11 | -4 | -11 | -15 | -28 | -16 | -8 | -35 | -28 | -20 |
| 80% | 12 | 10 | 19 | 3 | -9 | 2 | 4 | -9 | 9 | 0 | 17 | 15 |
| 90% | 77 | 76 | 35 | 58 | 63 | 30 | 7 | 19 | 0 | 0 | 29 | 57 |
| **Long Term** | | | | | | | | | | | | |
| Full Simulation Period | 19 | 27 | 14 | 3 | -1 | -4 | -7 | -4 | -8 | -4 | 2 | -7 |
| **Water Year Types** | | | | | | | | | | | | |
| Wet (32%) | 17 | 27 | 17 | 8 | -1 | 1 | -2 | -3 | -26 | -12 | -9 | -34 |
| Above Normal (12%) | -6 | -1 | 3 | -23 | -25 | -19 | -21 | -14 | -17 | -16 | -20 | -44 |
| Below Normal (24%) | 8 | 20 | 1 | -11 | -11 | -11 | -13 | -7 | -8 | 1 | 2 | -6 |
| Dry (17%) | -6 | -2 | -3 | -16 | -6 | -24 | -27 | -22 | -4 | -23 | -24 | -27 |
| Critical (15%) | 89 | 94 | 59 | 56 | 41 | 28 | 25 | 27 | 29 | 38 | 70 | 100 |

Table 1-7. CVP Total Capacity, Monthly Capacity

**NAA**

| Statistic | Monthly Capacity (MW) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 1,735 | 1,731 | 1,766 | 1,815 | 1,851 | 1,880 | 1,914 | 1,935 | 1,928 | 1,906 | 1,817 | 1,779 |
| 20% | 1,696 | 1,696 | 1,729 | 1,772 | 1,815 | 1,858 | 1,901 | 1,921 | 1,902 | 1,855 | 1,766 | 1,730 |
| 30% | 1,640 | 1,659 | 1,681 | 1,745 | 1,789 | 1,843 | 1,881 | 1,896 | 1,857 | 1,817 | 1,712 | 1,675 |
| 40% | 1,605 | 1,612 | 1,636 | 1,712 | 1,761 | 1,811 | 1,851 | 1,861 | 1,827 | 1,787 | 1,687 | 1,638 |
| 50% | 1,554 | 1,542 | 1,611 | 1,679 | 1,730 | 1,781 | 1,823 | 1,831 | 1,803 | 1,752 | 1,647 | 1,574 |
| 60% | 1,514 | 1,514 | 1,567 | 1,632 | 1,693 | 1,758 | 1,803 | 1,794 | 1,770 | 1,716 | 1,611 | 1,551 |
| 70% | 1,481 | 1,478 | 1,506 | 1,563 | 1,651 | 1,721 | 1,767 | 1,764 | 1,722 | 1,684 | 1,589 | 1,515 |
| 80% | 1,432 | 1,428 | 1,447 | 1,504 | 1,592 | 1,650 | 1,702 | 1,708 | 1,666 | 1,614 | 1,502 | 1,437 |
| 90% | 1,278 | 1,277 | 1,310 | 1,393 | 1,449 | 1,526 | 1,586 | 1,596 | 1,583 | 1,509 | 1,402 | 1,310 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 1,519 | 1,517 | 1,565 | 1,630 | 1,690 | 1,747 | 1,789 | 1,798 | 1,770 | 1,721 | 1,622 | 1,559 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 1,560 | 1,572 | 1,653 | 1,736 | 1,802 | 1,854 | 1,897 | 1,917 | 1,899 | 1,860 | 1,767 | 1,724 |
| Above Normal (12%) | 1,546 | 1,544 | 1,571 | 1,671 | 1,739 | 1,807 | 1,848 | 1,866 | 1,836 | 1,800 | 1,704 | 1,656 |
| Below Normal (24%) | 1,541 | 1,535 | 1,578 | 1,633 | 1,694 | 1,746 | 1,797 | 1,803 | 1,770 | 1,715 | 1,618 | 1,556 |
| Dry (17%) | 1,553 | 1,546 | 1,557 | 1,593 | 1,645 | 1,718 | 1,756 | 1,753 | 1,720 | 1,672 | 1,574 | 1,502 |
| Critical (15%) | 1,333 | 1,319 | 1,358 | 1,407 | 1,456 | 1,504 | 1,533 | 1,533 | 1,501 | 1,426 | 1,307 | 1,199 |

**Alt4**

| Statistic | Monthly Capacity (MW) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 1,750 | 1,738 | 1,772 | 1,823 | 1,855 | 1,884 | 1,923 | 1,947 | 1,942 | 1,917 | 1,838 | 1,785 |
| 20% | 1,708 | 1,713 | 1,737 | 1,775 | 1,817 | 1,863 | 1,909 | 1,937 | 1,923 | 1,875 | 1,779 | 1,728 |
| 30% | 1,651 | 1,661 | 1,674 | 1,749 | 1,787 | 1,842 | 1,883 | 1,904 | 1,877 | 1,827 | 1,726 | 1,680 |
| 40% | 1,615 | 1,624 | 1,648 | 1,717 | 1,766 | 1,810 | 1,856 | 1,879 | 1,844 | 1,792 | 1,697 | 1,649 |
| 50% | 1,572 | 1,566 | 1,614 | 1,677 | 1,731 | 1,794 | 1,833 | 1,843 | 1,808 | 1,765 | 1,667 | 1,592 |
| 60% | 1,532 | 1,537 | 1,577 | 1,613 | 1,698 | 1,763 | 1,810 | 1,805 | 1,792 | 1,727 | 1,629 | 1,569 |
| 70% | 1,504 | 1,498 | 1,525 | 1,564 | 1,656 | 1,730 | 1,770 | 1,783 | 1,748 | 1,686 | 1,604 | 1,533 |

| Statistic | Monthly Capacity (MW) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| 80% | 1,458 | 1,443 | 1,472 | 1,513 | 1,601 | 1,667 | 1,718 | 1,733 | 1,697 | 1,641 | 1,536 | 1,470 |
| 90% | 1,319 | 1,290 | 1,324 | 1,426 | 1,499 | 1,555 | 1,616 | 1,604 | 1,589 | 1,530 | 1,415 | 1,343 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 1,552 | 1,548 | 1,581 | 1,638 | 1,699 | 1,757 | 1,801 | 1,815 | 1,789 | 1,738 | 1,644 | 1,580 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 1,580 | 1,590 | 1,659 | 1,738 | 1,802 | 1,857 | 1,904 | 1,929 | 1,915 | 1,877 | 1,783 | 1,730 |
| Above Normal (12%) | 1,560 | 1,555 | 1,575 | 1,676 | 1,742 | 1,812 | 1,857 | 1,882 | 1,853 | 1,814 | 1,716 | 1,665 |
| Below Normal (24%) | 1,579 | 1,574 | 1,596 | 1,643 | 1,705 | 1,753 | 1,805 | 1,817 | 1,783 | 1,727 | 1,631 | 1,568 |
| Dry (17%) | 1,572 | 1,561 | 1,575 | 1,597 | 1,658 | 1,729 | 1,769 | 1,766 | 1,739 | 1,680 | 1,596 | 1,522 |
| Critical (15%) | 1,416 | 1,393 | 1,402 | 1,436 | 1,486 | 1,536 | 1,567 | 1,568 | 1,533 | 1,465 | 1,368 | 1,279 |

**Alt4 minus NAA**

| Statistic | Monthly Capacity (MW) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 15 | 7 | 6 | 8 | 4 | 5 | 10 | 12 | 14 | 11 | 21 | 7 |
| 20% | 12 | 17 | 8 | 3 | 3 | 5 | 8 | 16 | 21 | 20 | 13 | -2 |
| 30% | 11 | 2 | -7 | 4 | -1 | -1 | 2 | 8 | 20 | 10 | 14 | 5 |
| 40% | 10 | 12 | 12 | 5 | 4 | -1 | 5 | 18 | 17 | 5 | 10 | 10 |
| 50% | 18 | 24 | 3 | -3 | 1 | 13 | 9 | 12 | 5 | 13 | 20 | 18 |
| 60% | 18 | 24 | 10 | -19 | 5 | 6 | 6 | 10 | 22 | 11 | 18 | 18 |
| 70% | 22 | 20 | 20 | 1 | 5 | 10 | 3 | 19 | 26 | 2 | 15 | 18 |
| 80% | 26 | 14 | 25 | 9 | 9 | 17 | 16 | 25 | 32 | 27 | 34 | 34 |
| 90% | 41 | 13 | 15 | 33 | 50 | 30 | 30 | 8 | 6 | 20 | 13 | 33 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 33 | 30 | 16 | 9 | 9 | 10 | 12 | 17 | 19 | 17 | 23 | 21 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 20 | 18 | 6 | 1 | 0 | 3 | 7 | 12 | 17 | 17 | 15 | 7 |
| Above Normal (12%) | 14 | 11 | 4 | 5 | 3 | 5 | 9 | 16 | 17 | 15 | 12 | 9 |
| Below Normal (24%) | 39 | 39 | 18 | 10 | 11 | 7 | 8 | 14 | 13 | 12 | 13 | 12 |
| Dry (17%) | 19 | 16 | 18 | 4 | 13 | 11 | 12 | 13 | 19 | 9 | 22 | 20 |
| Critical (15%) | 82 | 74 | 43 | 30 | 29 | 32 | 34 | 35 | 32 | 40 | 61 | 80 |

Figure 1-1. CVP Total Capacity, Long-Term Average Capacity
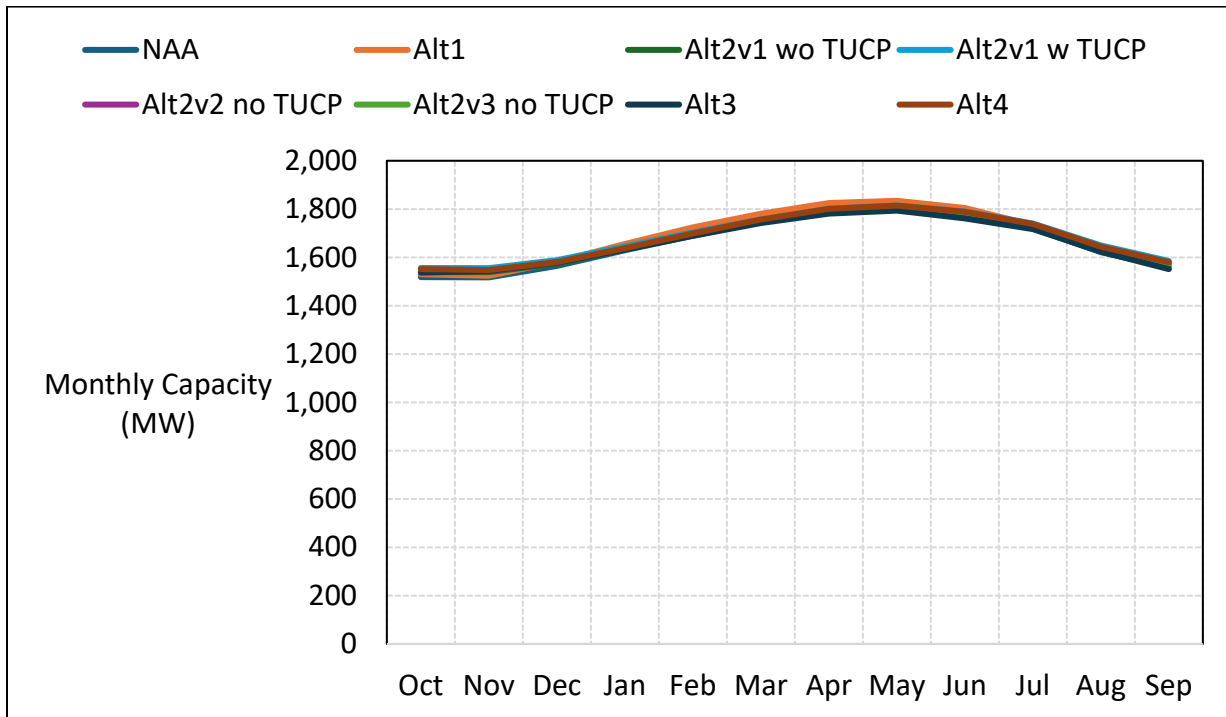


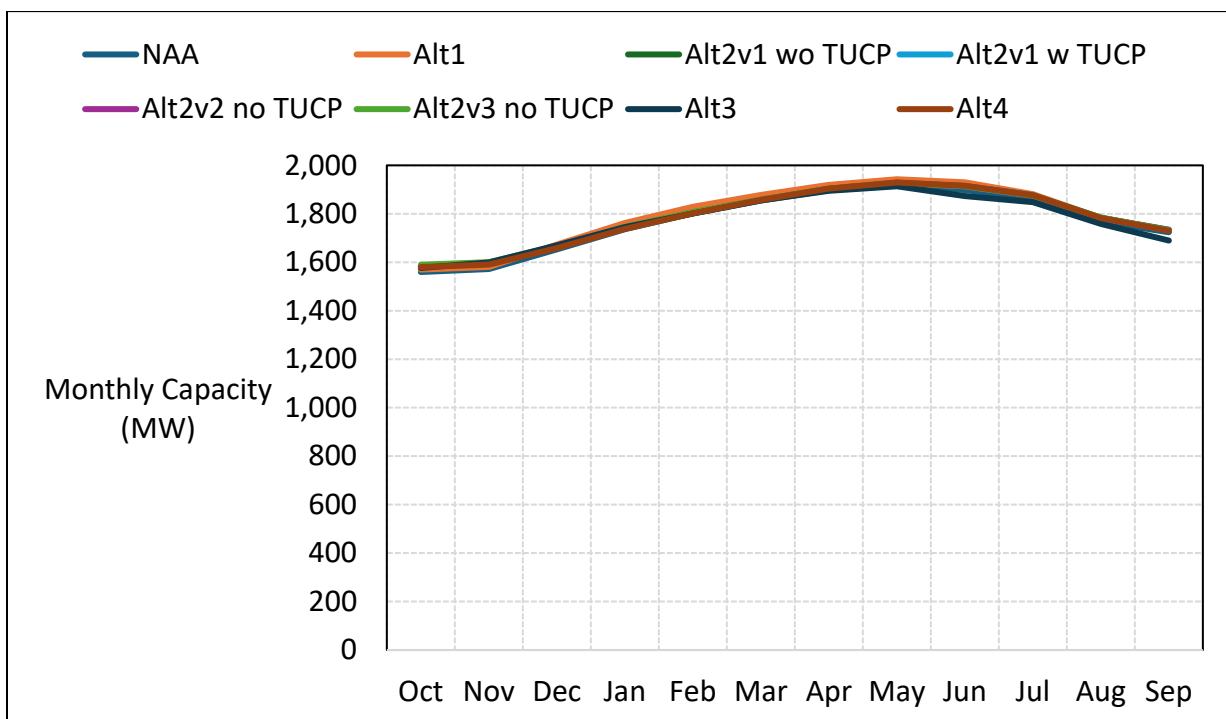Figure 1-2. CVP Total Capacity, Wet Year Average Capacity

Figure 1-3. CVP Total Capacity, Above Normal Year Average Capacity
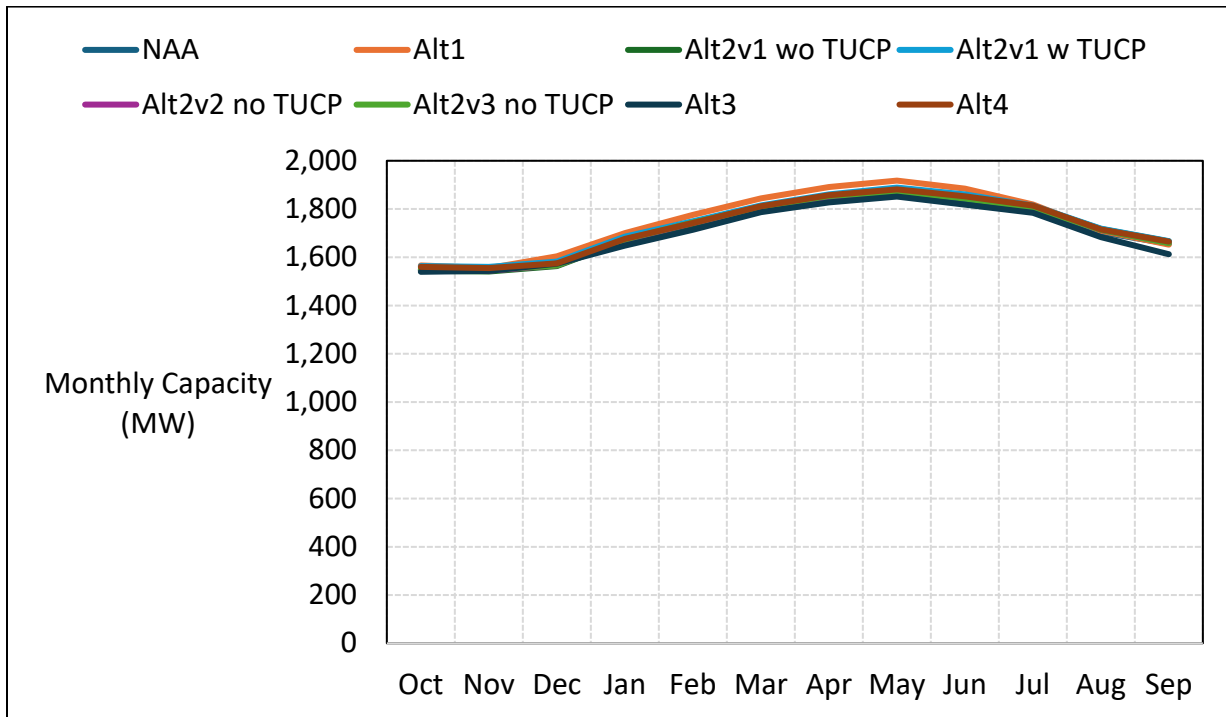


Figure 1-4. CVP Total Capacity, Below Normal Year Average Capacity
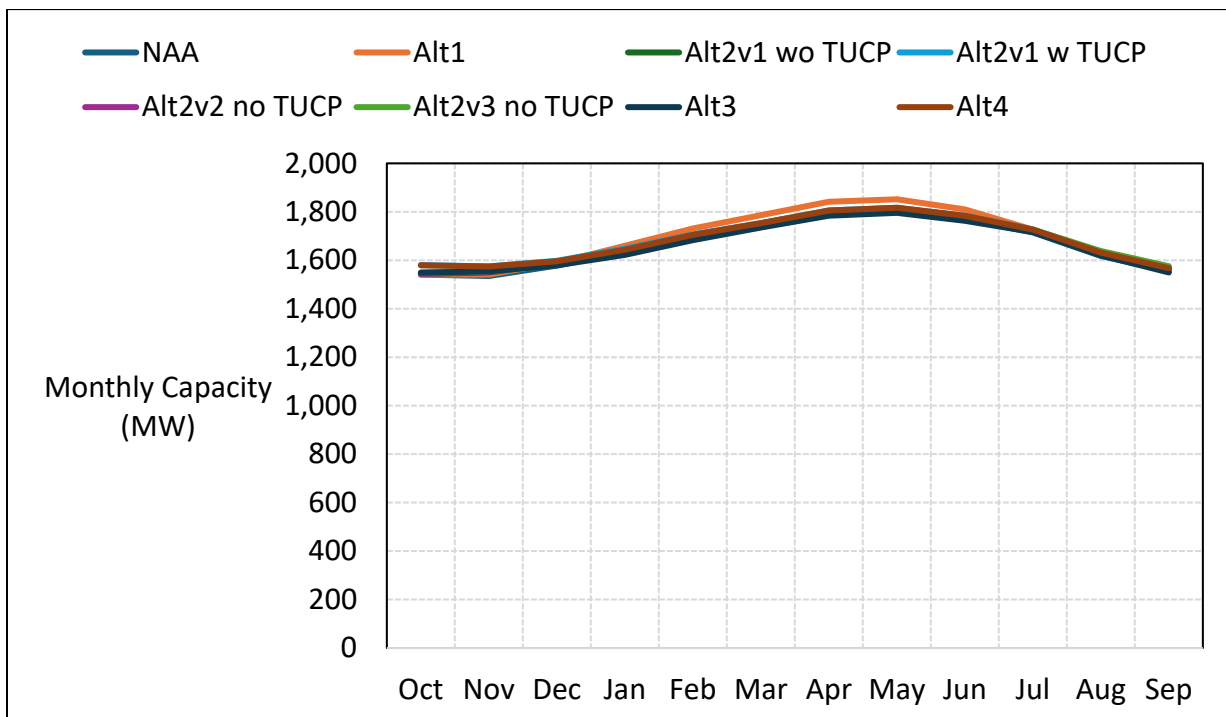
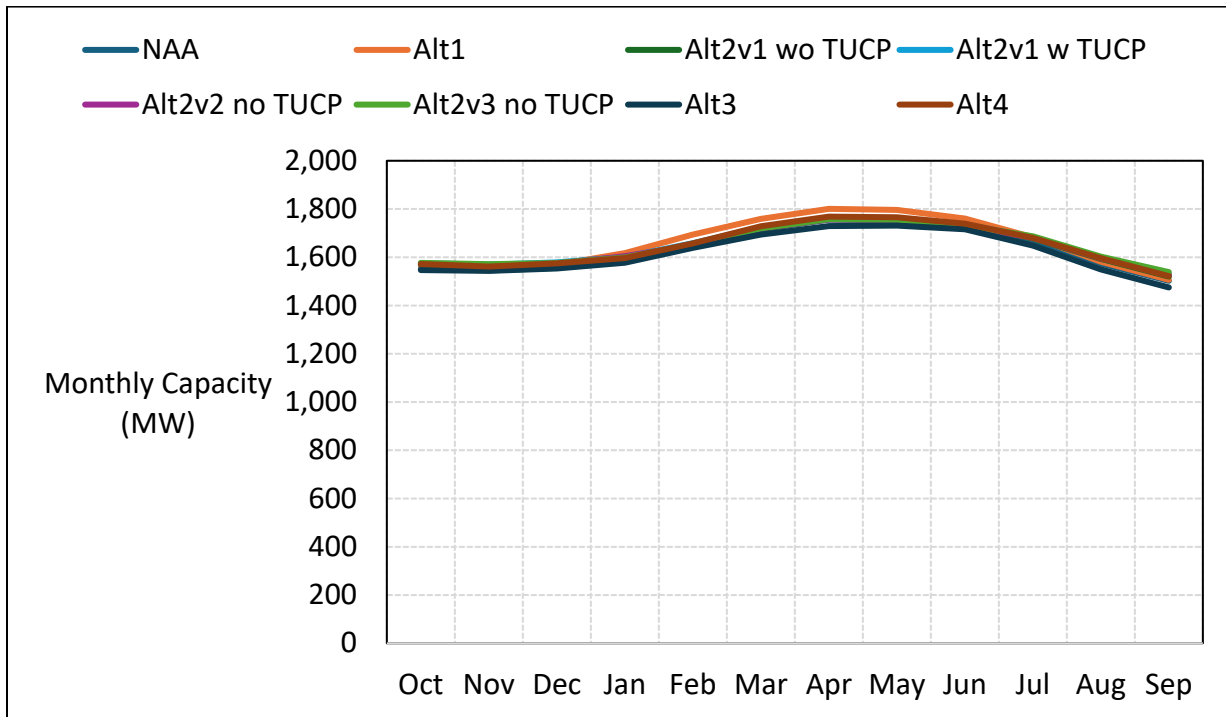Figure 1-5. CVP Total Capacity, Dry Year Average Capacity



Figure 1-6. CVP Total Capacity, Critical Year Average Capacity
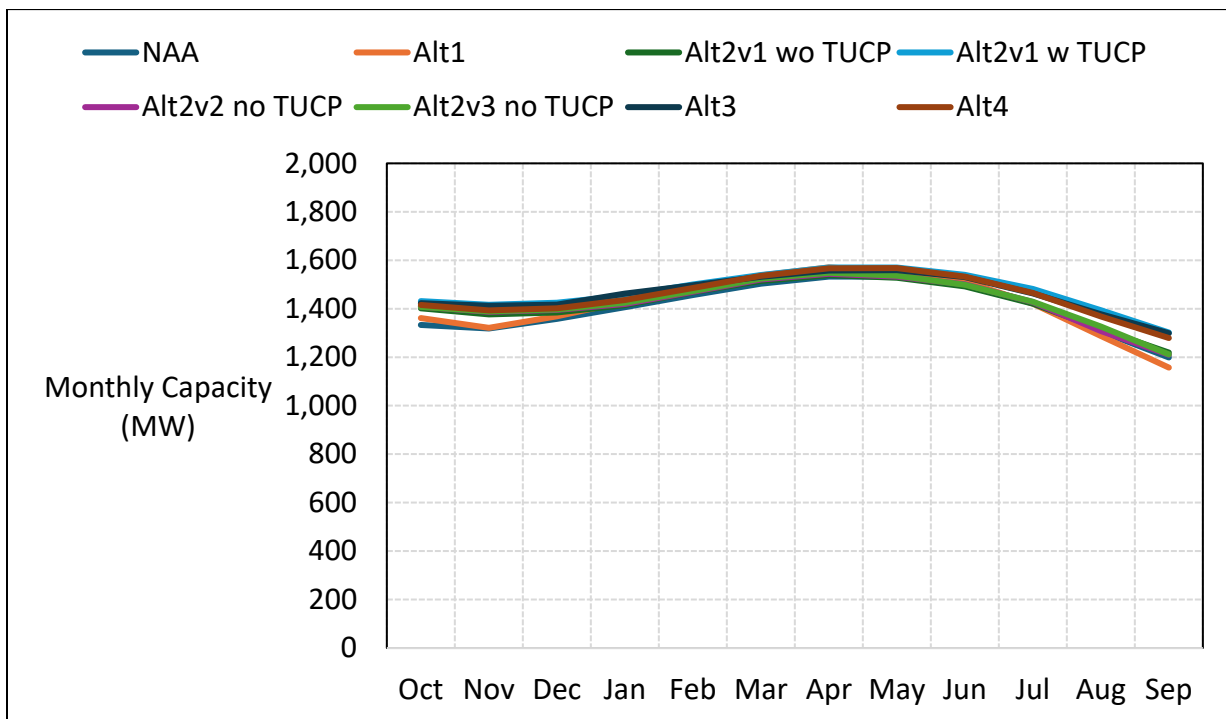
## Figure 1-7. CVP Total Capacity, October



## Figure 1-8. CVP Total Capacity, November

Figure 1-9. CVP Total Capacity, December



Figure 1-10. CVP Total Capacity, January

Figure 1-11. CVP Total Capacity, February



Figure 1-12. CVP Total Capacity, March

Figure 1-13. CVP Total Capacity, April



Figure 1-14. CVP Total Capacity, May

Figure 1-15. CVP Total Capacity, June
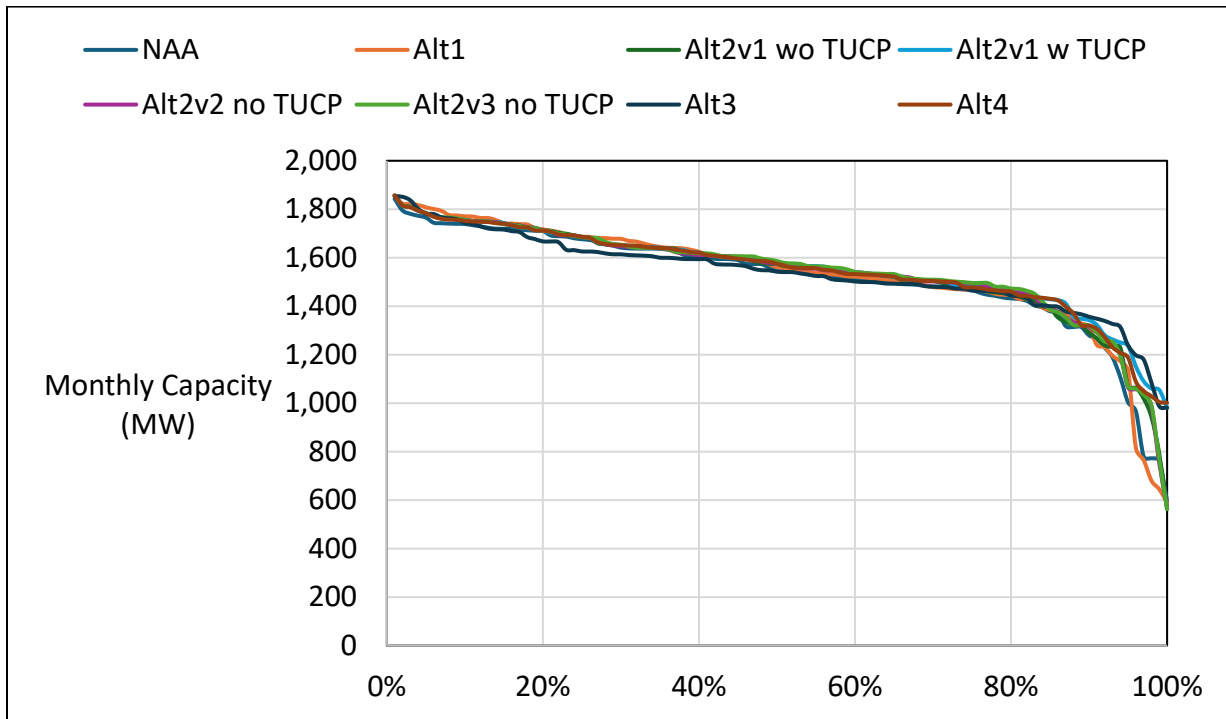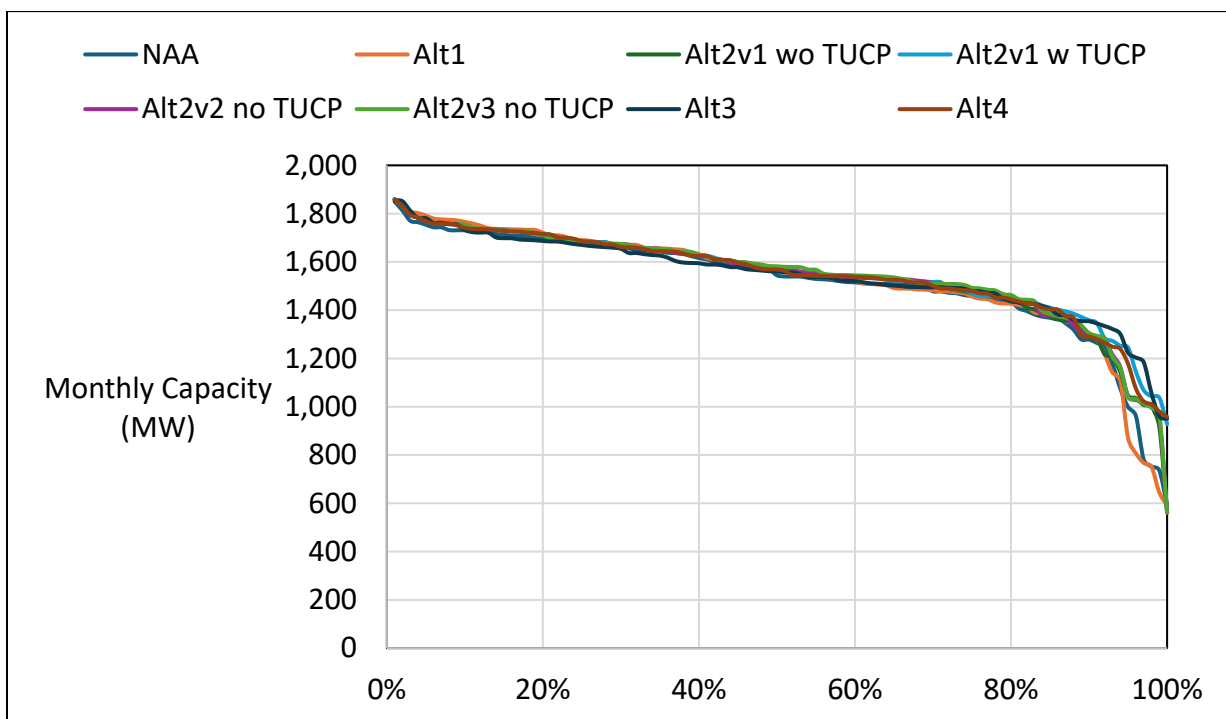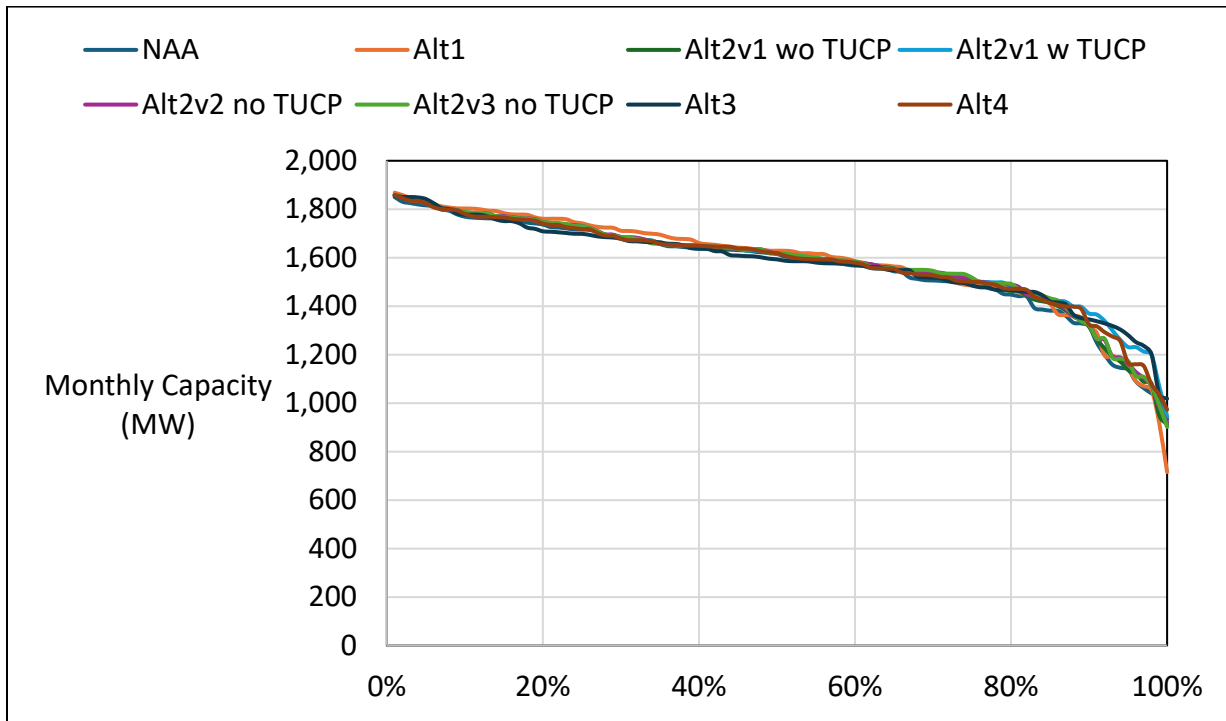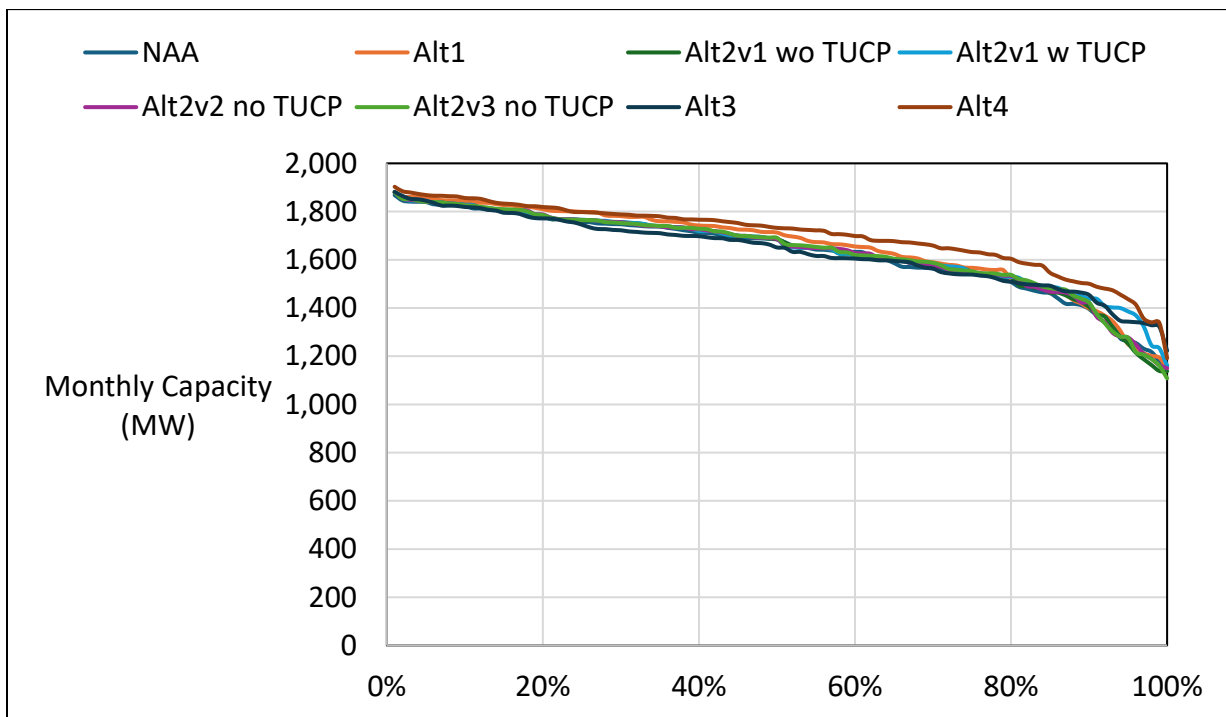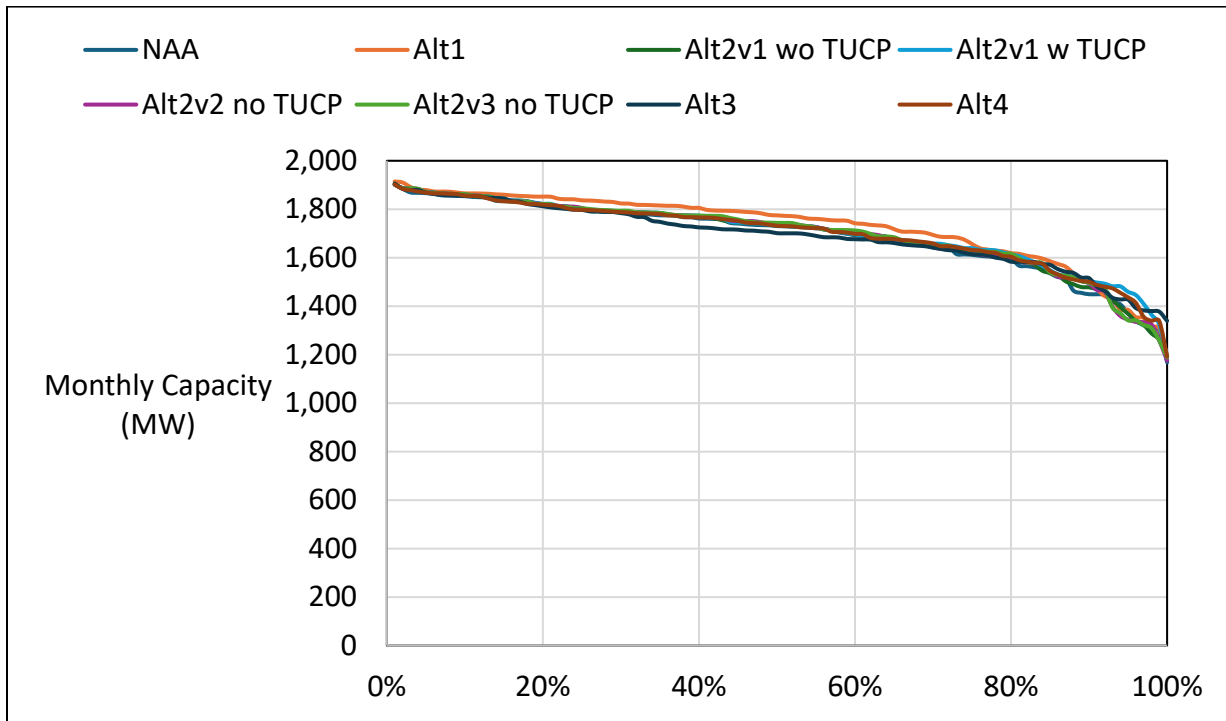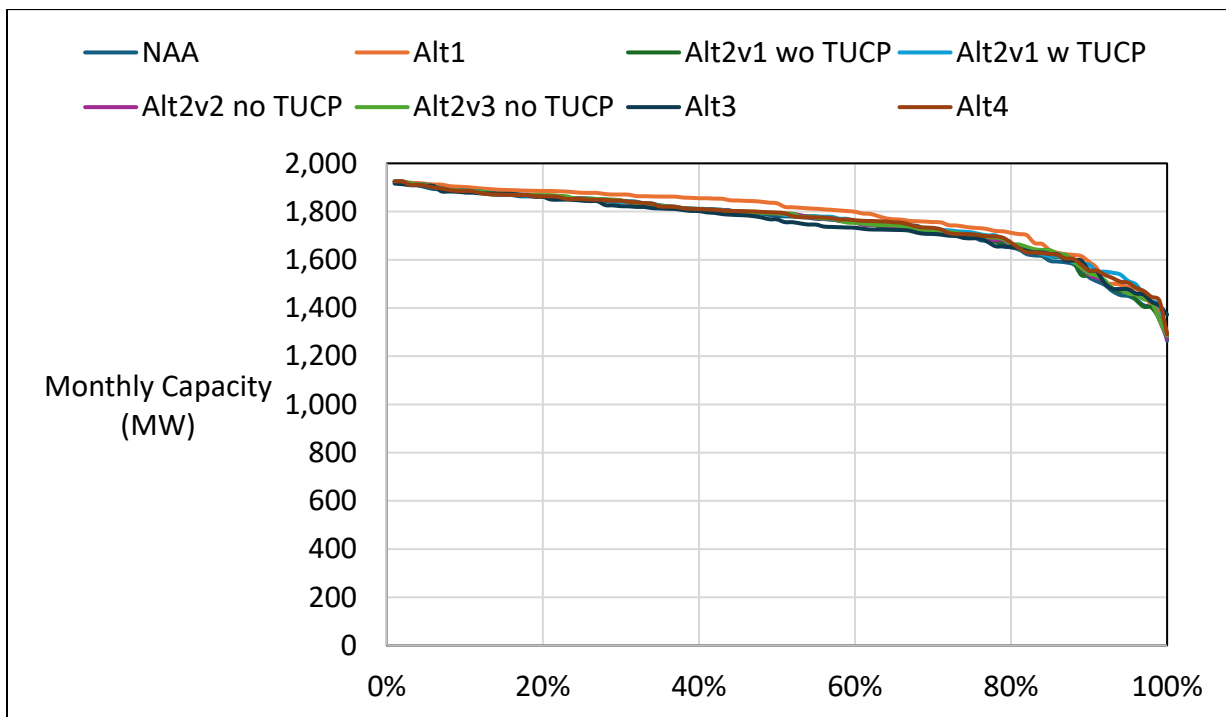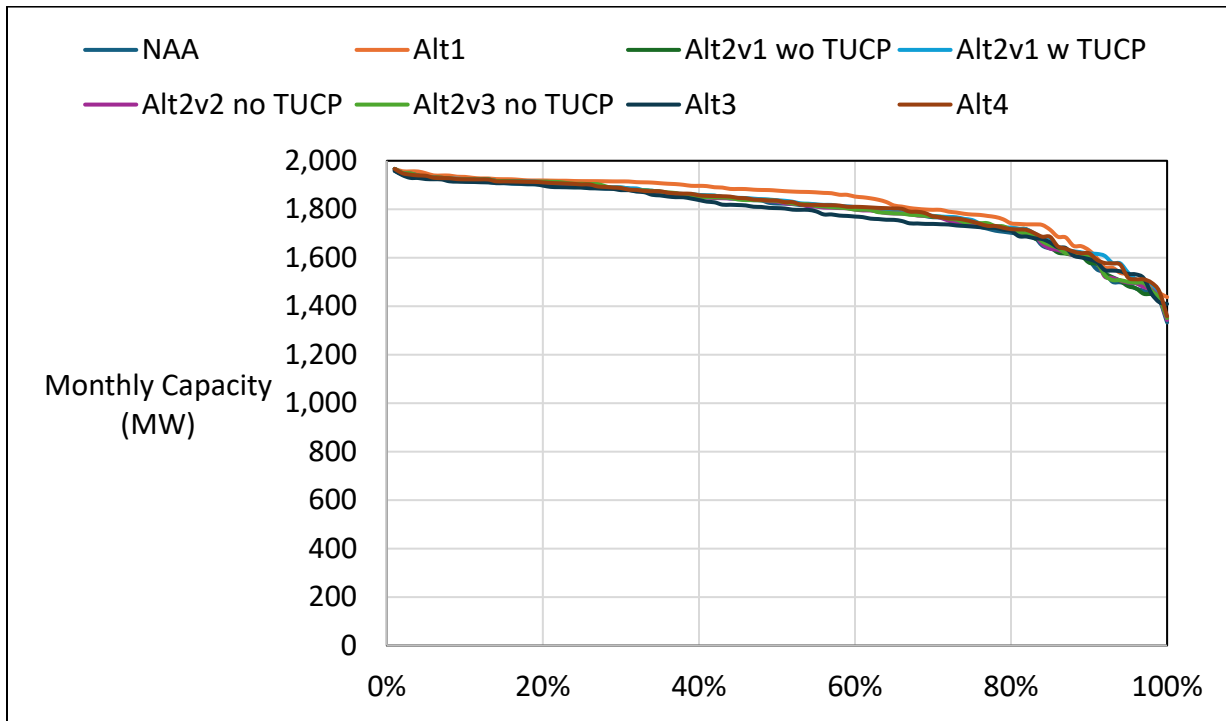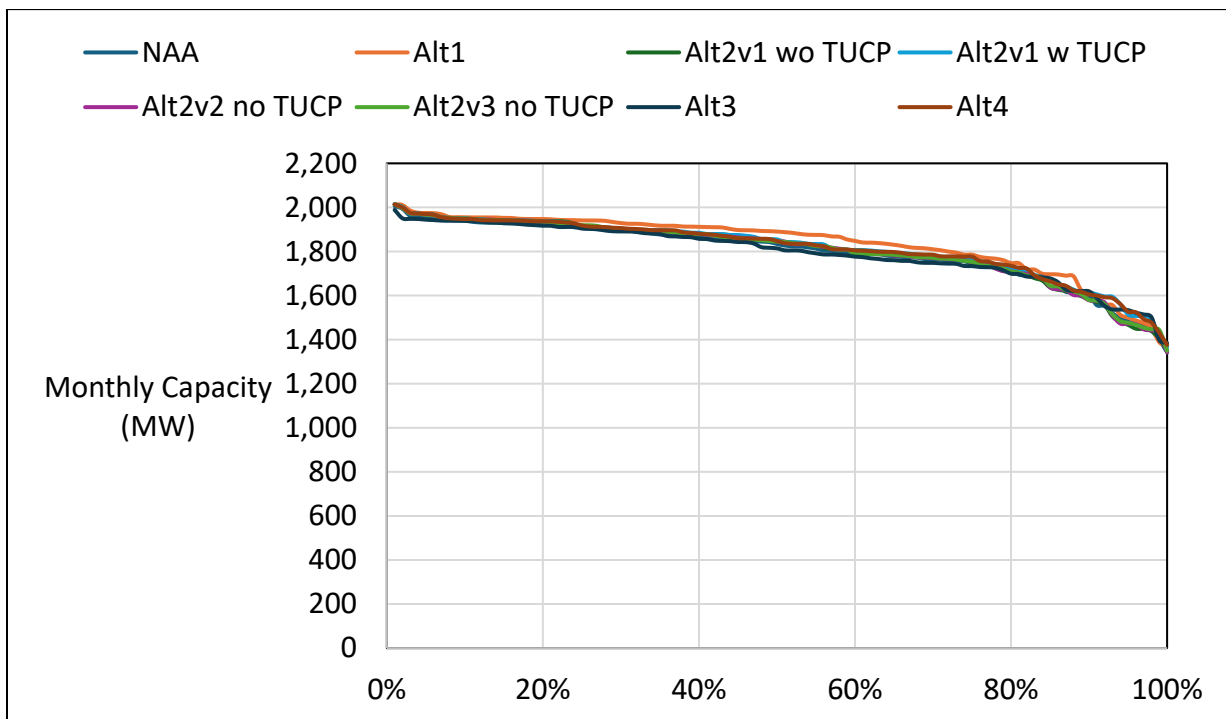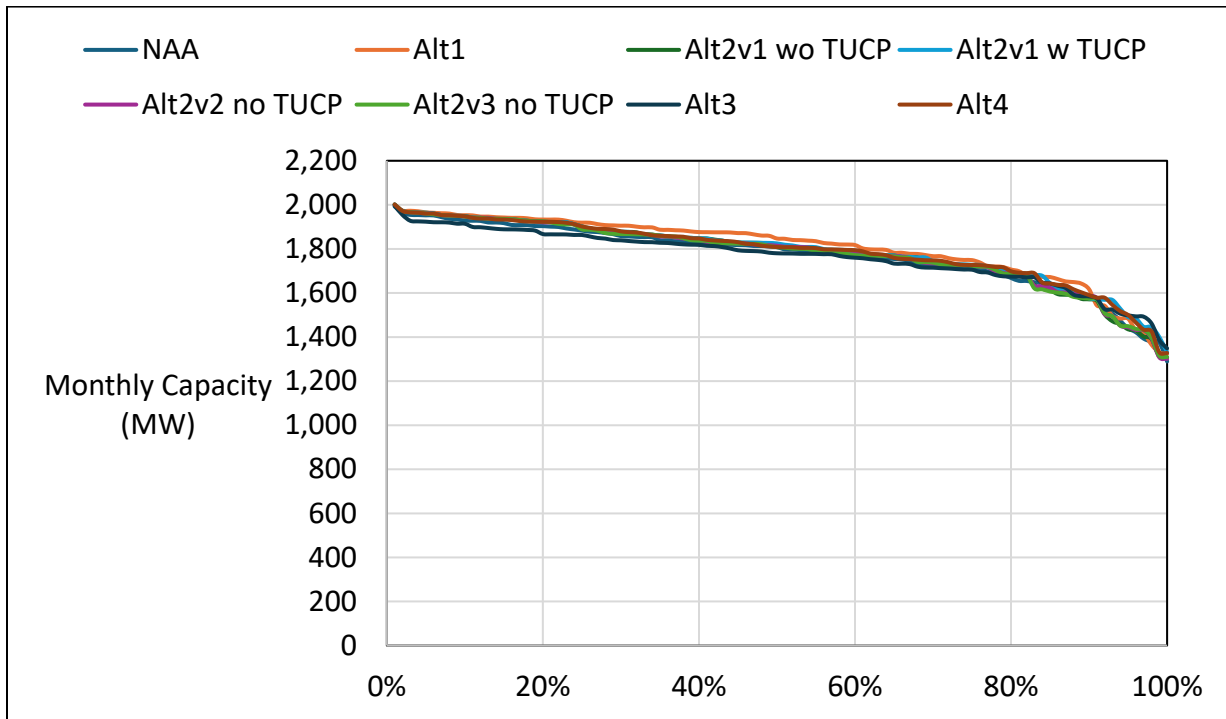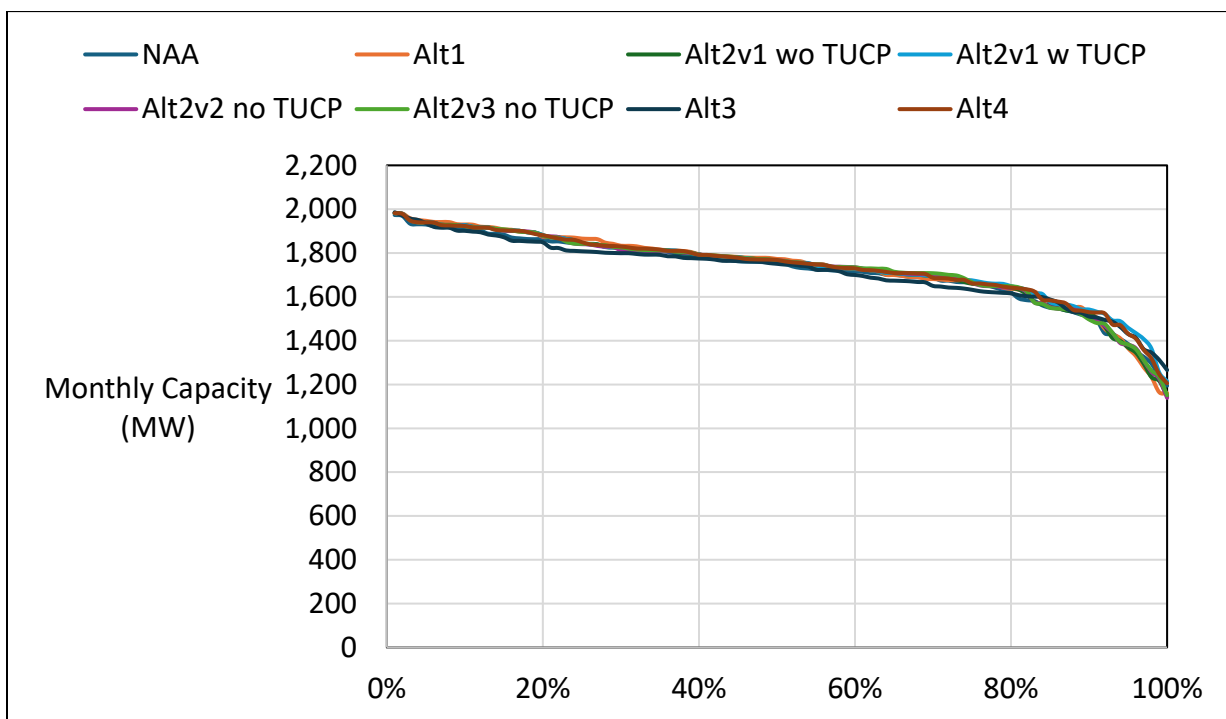


Figure 1-16. CVP Total Capacity, July
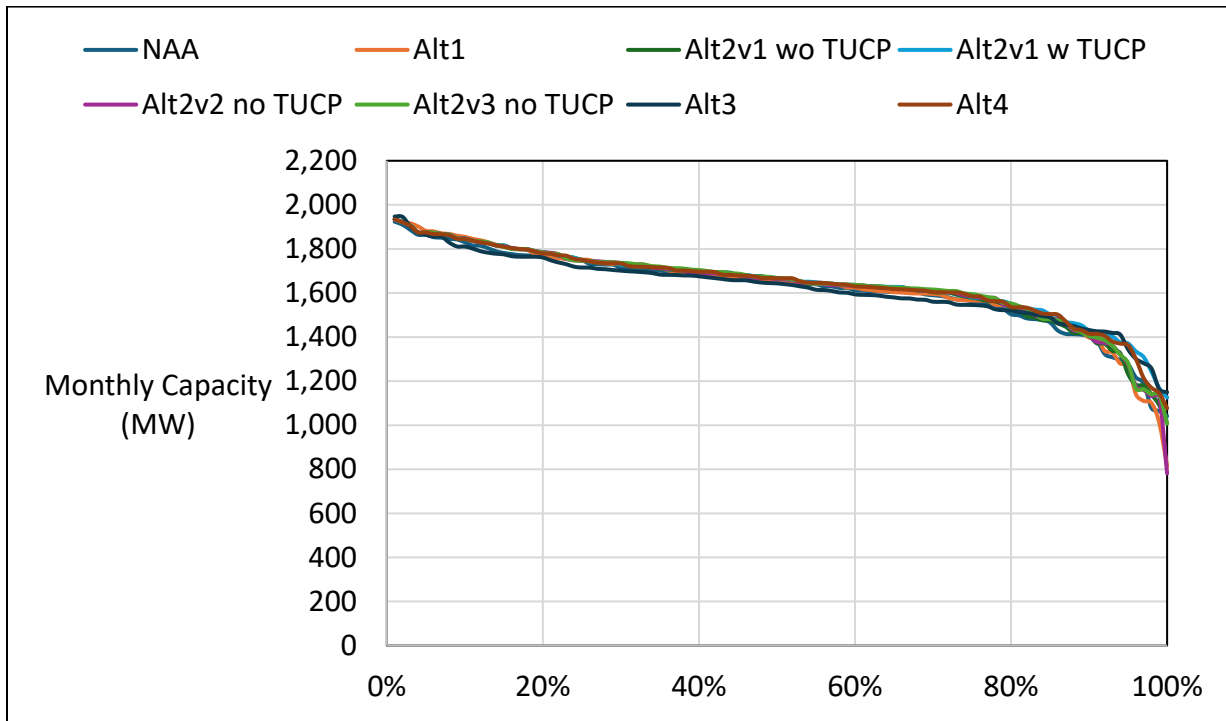
Figure 1-17. CVP Total Capacity, August



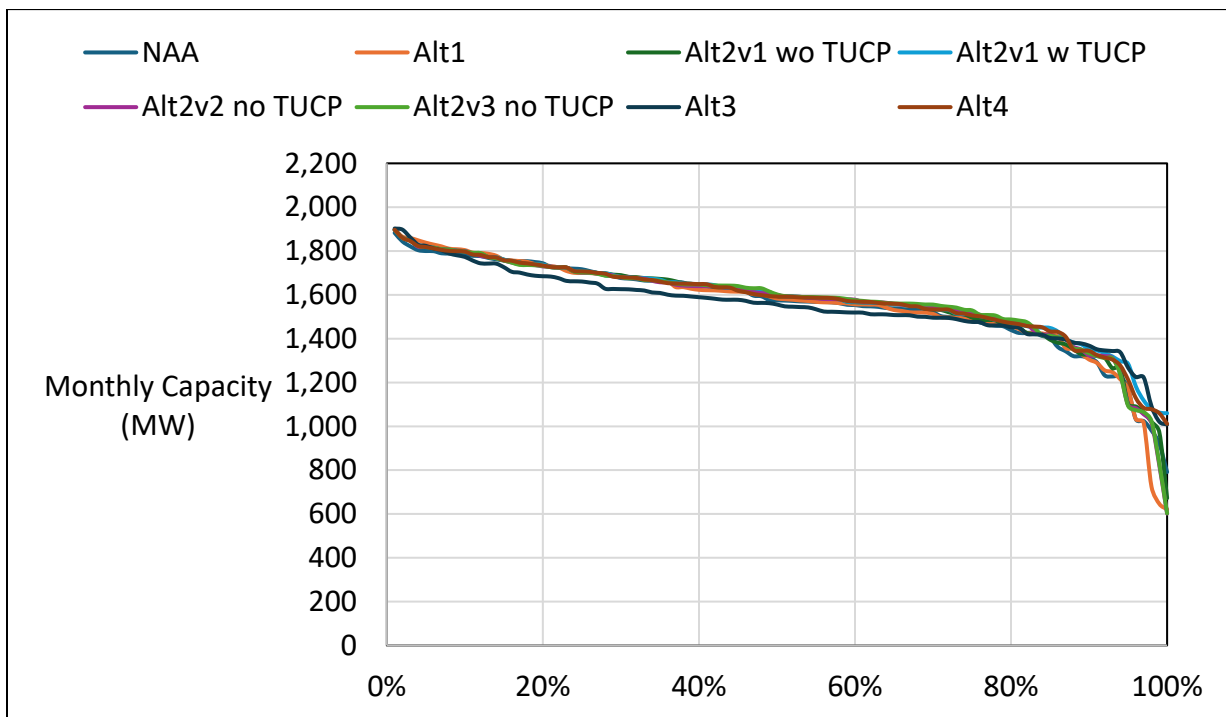Figure 1-18. CVP Total Capacity, September

Table 2-1. CVP Total Generation, Monthly Generation

**NAA**

| Statistic | Monthly Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 412 | 351 | 692 | 752 | 726 | 727 | 500 | 569 | 583 | 788 | 621 | 479 |
| 20% | 349 | 280 | 353 | 546 | 663 | 551 | 366 | 513 | 560 | 738 | 575 | 436 |
| 30% | 312 | 263 | 253 | 359 | 419 | 363 | 340 | 496 | 536 | 709 | 553 | 406 |
| 40% | 283 | 214 | 209 | 227 | 266 | 278 | 309 | 483 | 506 | 679 | 527 | 376 |
| 50% | 254 | 188 | 168 | 196 | 210 | 230 | 288 | 469 | 483 | 664 | 507 | 319 |
| 60% | 231 | 168 | 143 | 166 | 181 | 180 | 262 | 446 | 465 | 618 | 481 | 285 |
| 70% | 209 | 154 | 139 | 149 | 157 | 166 | 245 | 429 | 445 | 579 | 437 | 264 |
| 80% | 189 | 131 | 124 | 131 | 136 | 154 | 220 | 388 | 420 | 543 | 404 | 238 |
| 90% | 160 | 106 | 108 | 111 | 115 | 132 | 197 | 332 | 373 | 367 | 313 | 185 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 265 | 215 | 268 | 322 | 338 | 333 | 319 | 465 | 485 | 626 | 491 | 335 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 282 | 255 | 458 | 565 | 582 | 568 | 427 | 538 | 503 | 683 | 560 | 453 |
| Above Normal (12%) | 281 | 213 | 201 | 388 | 371 | 351 | 306 | 530 | 498 | 699 | 535 | 413 |
| Below Normal (24%) | 279 | 200 | 216 | 195 | 240 | 226 | 278 | 468 | 501 | 668 | 518 | 292 |
| Dry (17%) | 268 | 213 | 161 | 157 | 153 | 200 | 287 | 418 | 533 | 634 | 458 | 267 |
| Critical (15%) | 190 | 160 | 121 | 144 | 154 | 139 | 201 | 304 | 355 | 370 | 302 | 168 |

**Alt1**

| Statistic | Monthly Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 432 | 362 | 693 | 758 | 736 | 732 | 502 | 596 | 666 | 775 | 597 | 454 |
| 20% | 361 | 292 | 414 | 558 | 653 | 574 | 376 | 543 | 620 | 739 | 560 | 385 |
| 30% | 302 | 242 | 293 | 410 | 428 | 367 | 338 | 519 | 579 | 706 | 543 | 362 |
| 40% | 274 | 225 | 216 | 240 | 274 | 282 | 309 | 499 | 544 | 679 | 521 | 337 |
| 50% | 241 | 180 | 170 | 207 | 220 | 227 | 294 | 485 | 512 | 653 | 500 | 315 |
| 60% | 222 | 144 | 155 | 181 | 198 | 189 | 277 | 456 | 501 | 611 | 465 | 290 |
| 70% | 202 | 137 | 143 | 158 | 176 | 163 | 257 | 437 | 473 | 587 | 448 | 265 |

| Statistic | Monthly Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| 80% | 184 | 121 | 124 | 135 | 139 | 149 | 235 | 394 | 441 | 548 | 400 | 241 |
| 90% | 156 | 105 | 107 | 113 | 123 | 127 | 213 | 343 | 380 | 480 | 319 | 184 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 261 | 210 | 282 | 334 | 349 | 335 | 328 | 481 | 522 | 634 | 482 | 319 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 282 | 250 | 489 | 575 | 595 | 568 | 418 | 552 | 544 | 683 | 545 | 419 |
| Above Normal (12%) | 282 | 206 | 229 | 408 | 384 | 346 | 312 | 554 | 545 | 696 | 505 | 346 |
| Below Normal (24%) | 269 | 204 | 217 | 213 | 263 | 234 | 293 | 482 | 550 | 663 | 507 | 303 |
| Dry (17%) | 256 | 201 | 157 | 159 | 166 | 196 | 302 | 432 | 561 | 636 | 473 | 265 |
| Critical (15%) | 192 | 150 | 129 | 150 | 141 | 150 | 236 | 322 | 370 | 430 | 298 | 167 |

**Alt1 minus NAA**

| Statistic | Monthly Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 20 | 10 | 1 | 6 | 10 | 5 | 2 | 27 | 83 | -13 | -24 | -24 |
| 20% | 13 | 12 | 61 | 12 | -10 | 23 | 10 | 29 | 59 | 2 | -15 | -50 |
| 30% | -10 | -21 | 40 | 51 | 8 | 4 | -2 | 24 | 42 | -2 | -9 | -44 |
| 40% | -9 | 11 | 7 | 13 | 8 | 4 | 0 | 16 | 37 | -1 | -6 | -39 |
| 50% | -13 | -8 | 2 | 11 | 10 | -3 | 6 | 16 | 29 | -11 | -6 | -4 |
| 60% | -8 | -24 | 12 | 15 | 17 | 9 | 14 | 10 | 35 | -8 | -17 | 5 |
| 70% | -7 | -17 | 4 | 9 | 19 | -2 | 11 | 8 | 28 | 9 | 10 | 0 |
| 80% | -6 | -10 | 0 | 4 | 3 | -5 | 15 | 6 | 21 | 6 | -4 | 3 |
| 90% | -4 | -1 | -1 | 2 | 8 | -5 | 17 | 12 | 7 | 113 | 6 | -1 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | -4 | -5 | 14 | 11 | 11 | 2 | 10 | 16 | 38 | 8 | -9 | -17 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 0 | -5 | 31 | 11 | 12 | -1 | -9 | 14 | 41 | 0 | -15 | -34 |
| Above Normal (12%) | 0 | -7 | 28 | 20 | 14 | -6 | 6 | 24 | 47 | -3 | -30 | -67 |
| Below Normal (24%) | -10 | 4 | 1 | 18 | 23 | 8 | 15 | 14 | 49 | -5 | -11 | 11 |
| Dry (17%) | -12 | -12 | -4 | 3 | 13 | -4 | 15 | 14 | 28 | 3 | 14 | -2 |
| Critical (15%) | 2 | -10 | 8 | 6 | -12 | 11 | 36 | 18 | 16 | 60 | -4 | -1 |

Table 2-2. CVP Total Generation, Monthly Generation

**NAA**

| Statistic | Monthly Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 412 | 351 | 692 | 752 | 726 | 727 | 500 | 569 | 583 | 788 | 621 | 479 |
| 20% | 349 | 280 | 353 | 546 | 663 | 551 | 366 | 513 | 560 | 738 | 575 | 436 |
| 30% | 312 | 263 | 253 | 359 | 419 | 363 | 340 | 496 | 536 | 709 | 553 | 406 |
| 40% | 283 | 214 | 209 | 227 | 266 | 278 | 309 | 483 | 506 | 679 | 527 | 376 |
| 50% | 254 | 188 | 168 | 196 | 210 | 230 | 288 | 469 | 483 | 664 | 507 | 319 |
| 60% | 231 | 168 | 143 | 166 | 181 | 180 | 262 | 446 | 465 | 618 | 481 | 285 |
| 70% | 209 | 154 | 139 | 149 | 157 | 166 | 245 | 429 | 445 | 579 | 437 | 264 |
| 80% | 189 | 131 | 124 | 131 | 136 | 154 | 220 | 388 | 420 | 543 | 404 | 238 |
| 90% | 160 | 106 | 108 | 111 | 115 | 132 | 197 | 332 | 373 | 367 | 313 | 185 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 265 | 215 | 268 | 322 | 338 | 333 | 319 | 465 | 485 | 626 | 491 | 335 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 282 | 255 | 458 | 565 | 582 | 568 | 427 | 538 | 503 | 683 | 560 | 453 |
| Above Normal (12%) | 281 | 213 | 201 | 388 | 371 | 351 | 306 | 530 | 498 | 699 | 535 | 413 |
| Below Normal (24%) | 279 | 200 | 216 | 195 | 240 | 226 | 278 | 468 | 501 | 668 | 518 | 292 |
| Dry (17%) | 268 | 213 | 161 | 157 | 153 | 200 | 287 | 418 | 533 | 634 | 458 | 267 |
| Critical (15%) | 190 | 160 | 121 | 144 | 154 | 139 | 201 | 304 | 355 | 370 | 302 | 168 |

**Alt2v1 wo TUCP**

| Statistic | Monthly Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 413 | 353 | 689 | 720 | 731 | 724 | 485 | 598 | 598 | 785 | 626 | 460 |
| 20% | 362 | 290 | 363 | 543 | 643 | 519 | 359 | 538 | 568 | 749 | 579 | 427 |
| 30% | 317 | 258 | 253 | 373 | 404 | 360 | 336 | 509 | 539 | 709 | 551 | 397 |
| 40% | 281 | 227 | 210 | 233 | 278 | 277 | 301 | 485 | 514 | 682 | 523 | 362 |
| 50% | 253 | 192 | 172 | 200 | 212 | 229 | 288 | 469 | 494 | 644 | 504 | 311 |
| 60% | 229 | 173 | 149 | 177 | 196 | 185 | 262 | 450 | 472 | 616 | 474 | 284 |
| 70% | 202 | 157 | 141 | 148 | 156 | 173 | 248 | 425 | 444 | 587 | 435 | 260 |

| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Monthly Generation (GWh) | | | | | | | | | | | |
| 80% | 183 | 138 | 125 | 131 | 135 | 161 | 232 | 393 | 429 | 541 | 394 | 215 |
| 90% | 152 | 115 | 113 | 112 | 120 | 145 | 212 | 307 | 362 | 381 | 281 | 163 |
| **Long Term** | | | | | | | | | | | | |
| Full Simulation Period | 268 | 223 | 272 | 323 | 341 | 332 | 320 | 468 | 490 | 632 | 485 | 327 |
| **Water Year Types** | | | | | | | | | | | | |
| Wet (32%) | 284 | 263 | 464 | 570 | 583 | 562 | 422 | 541 | 509 | 690 | 566 | 443 |
| Above Normal (12%) | 277 | 220 | 200 | 371 | 373 | 328 | 301 | 528 | 506 | 699 | 537 | 406 |
| Below Normal (24%) | 280 | 207 | 217 | 200 | 253 | 227 | 277 | 479 | 504 | 672 | 507 | 290 |
| Dry (17%) | 273 | 213 | 165 | 154 | 153 | 199 | 286 | 431 | 537 | 631 | 451 | 261 |
| Critical (15%) | 199 | 176 | 128 | 146 | 154 | 164 | 224 | 290 | 359 | 390 | 271 | 152 |

**Alt2v1 wo TUCP minus NAA**

| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Monthly Generation (GWh) | | | | | | | | | | | |
| **Probability of Exceedance** | | | | | | | | | | | | |
| 10% | 1 | 1 | -4 | -32 | 5 | -2 | -16 | 30 | 15 | -3 | 5 | -19 |
| 20% | 13 | 10 | 10 | -3 | -20 | -32 | -7 | 25 | 7 | 11 | 4 | -8 |
| 30% | 5 | -4 | 0 | 14 | -15 | -3 | -4 | 14 | 3 | 1 | -1 | -10 |
| 40% | -2 | 13 | 1 | 6 | 12 | -1 | -8 | 1 | 8 | 3 | -4 | -14 |
| 50% | -1 | 4 | 4 | 4 | 1 | -1 | 0 | 0 | 11 | -19 | -2 | -7 |
| 60% | -2 | 5 | 6 | 12 | 15 | 5 | 0 | 4 | 7 | -2 | -7 | -1 |
| 70% | -7 | 3 | 2 | -1 | -1 | 7 | 3 | -4 | -2 | 8 | -2 | -5 |
| 80% | -6 | 7 | 1 | 0 | -1 | 7 | 12 | 5 | 9 | -2 | -11 | -23 |
| 90% | -8 | 9 | 4 | 1 | 5 | 12 | 16 | -25 | -11 | 14 | -32 | -23 |
| **Long Term** | | | | | | | | | | | | |
| Full Simulation Period | 2 | 8 | 4 | 1 | 4 | -1 | 1 | 3 | 5 | 6 | -6 | -8 |
| **Water Year Types** | | | | | | | | | | | | |
| Wet (32%) | 2 | 9 | 6 | 6 | 0 | -6 | -5 | 2 | 6 | 7 | 6 | -10 |
| Above Normal (12%) | -4 | 7 | -1 | -17 | 2 | -23 | -5 | -2 | 8 | -1 | 2 | -8 |
| Below Normal (24%) | 1 | 7 | 0 | 5 | 13 | 1 | 0 | 12 | 2 | 5 | -11 | -2 |
| Dry (17%) | 4 | 0 | 4 | -3 | 0 | -2 | -1 | 13 | 5 | -2 | -8 | -6 |
| Critical (15%) | 9 | 16 | 7 | 2 | 0 | 25 | 23 | -15 | 4 | 20 | -31 | -16 |

Table 2-3. CVP Total Generation, Monthly Generation

**NAA**

| Statistic | Monthly Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 412 | 351 | 692 | 752 | 726 | 727 | 500 | 569 | 583 | 788 | 621 | 479 |
| 20% | 349 | 280 | 353 | 546 | 663 | 551 | 366 | 513 | 560 | 738 | 575 | 436 |
| 30% | 312 | 263 | 253 | 359 | 419 | 363 | 340 | 496 | 536 | 709 | 553 | 406 |
| 40% | 283 | 214 | 209 | 227 | 266 | 278 | 309 | 483 | 506 | 679 | 527 | 376 |
| 50% | 254 | 188 | 168 | 196 | 210 | 230 | 288 | 469 | 483 | 664 | 507 | 319 |
| 60% | 231 | 168 | 143 | 166 | 181 | 180 | 262 | 446 | 465 | 618 | 481 | 285 |
| 70% | 209 | 154 | 139 | 149 | 157 | 166 | 245 | 429 | 445 | 579 | 437 | 264 |
| 80% | 189 | 131 | 124 | 131 | 136 | 154 | 220 | 388 | 420 | 543 | 404 | 238 |
| 90% | 160 | 106 | 108 | 111 | 115 | 132 | 197 | 332 | 373 | 367 | 313 | 185 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 265 | 215 | 268 | 322 | 338 | 333 | 319 | 465 | 485 | 626 | 491 | 335 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 282 | 255 | 458 | 565 | 582 | 568 | 427 | 538 | 503 | 683 | 560 | 453 |
| Above Normal (12%) | 281 | 213 | 201 | 388 | 371 | 351 | 306 | 530 | 498 | 699 | 535 | 413 |
| Below Normal (24%) | 279 | 200 | 216 | 195 | 240 | 226 | 278 | 468 | 501 | 668 | 518 | 292 |
| Dry (17%) | 268 | 213 | 161 | 157 | 153 | 200 | 287 | 418 | 533 | 634 | 458 | 267 |
| Critical (15%) | 190 | 160 | 121 | 144 | 154 | 139 | 201 | 304 | 355 | 370 | 302 | 168 |

**Alt2v1 w TUCP**

| Statistic | Monthly Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 413 | 353 | 689 | 720 | 731 | 724 | 486 | 598 | 595 | 785 | 626 | 460 |
| 20% | 362 | 290 | 364 | 543 | 657 | 538 | 359 | 544 | 568 | 749 | 581 | 426 |
| 30% | 317 | 258 | 253 | 373 | 405 | 358 | 336 | 510 | 539 | 709 | 554 | 397 |
| 40% | 282 | 223 | 210 | 261 | 278 | 277 | 299 | 485 | 514 | 682 | 524 | 362 |
| 50% | 260 | 191 | 173 | 205 | 214 | 228 | 287 | 471 | 494 | 645 | 506 | 315 |
| 60% | 229 | 174 | 150 | 178 | 195 | 181 | 262 | 446 | 472 | 619 | 488 | 290 |
| 70% | 204 | 165 | 141 | 156 | 156 | 163 | 245 | 425 | 446 | 595 | 442 | 267 |

| Statistic | Monthly Generation (GWh) | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| 80% | 188 | 138 | 130 | 132 | 133 | 153 | 219 | 399 | 429 | 549 | 403 | 222 |
| 90% | 155 | 117 | 116 | 116 | 116 | 133 | 199 | 310 | 352 | 379 | 285 | 184 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 271 | 225 | 274 | 327 | 341 | 331 | 315 | 469 | 489 | 632 | 489 | 331 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 285 | 263 | 465 | 576 | 584 | 564 | 422 | 541 | 509 | 690 | 567 | 443 |
| Above Normal (12%) | 282 | 220 | 202 | 374 | 373 | 348 | 301 | 533 | 509 | 704 | 543 | 411 |
| Below Normal (24%) | 289 | 212 | 218 | 201 | 255 | 227 | 277 | 482 | 505 | 676 | 517 | 293 |
| Dry (17%) | 272 | 213 | 166 | 153 | 157 | 198 | 287 | 433 | 537 | 631 | 453 | 262 |
| Critical (15%) | 204 | 179 | 133 | 160 | 147 | 139 | 189 | 286 | 348 | 380 | 278 | 169 |

**Alt2v1 w TUCP minus NAA**

| Statistic | Monthly Generation (GWh) | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 1 | 1 | -3 | -32 | 5 | -2 | -14 | 30 | 12 | -4 | 5 | -19 |
| 20% | 13 | 10 | 11 | -3 | -6 | -12 | -7 | 31 | 7 | 11 | 6 | -9 |
| 30% | 5 | -4 | 0 | 14 | -14 | -5 | -4 | 14 | 2 | 1 | 1 | -9 |
| 40% | -1 | 10 | 1 | 34 | 12 | -1 | -10 | 1 | 8 | 3 | -3 | -14 |
| 50% | 6 | 2 | 4 | 8 | 4 | -2 | -1 | 2 | 11 | -19 | 0 | -4 |
| 60% | -2 | 6 | 7 | 12 | 14 | 1 | 0 | 0 | 6 | 1 | 6 | 5 |
| 70% | -4 | 11 | 2 | 7 | -1 | -3 | -1 | -4 | 1 | 16 | 5 | 3 |
| 80% | -2 | 7 | 6 | 1 | -3 | -1 | -1 | 11 | 9 | 6 | -1 | -16 |
| 90% | -5 | 11 | 7 | 5 | 2 | 1 | 3 | -21 | -21 | 12 | -29 | -1 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 6 | 9 | 5 | 5 | 4 | -2 | -4 | 4 | 4 | 6 | -2 | -4 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 3 | 8 | 7 | 11 | 1 | -5 | -4 | 2 | 6 | 7 | 6 | -11 |
| Above Normal (12%) | 1 | 7 | 1 | -14 | 2 | -3 | -4 | 2 | 11 | 4 | 8 | -2 |
| Below Normal (24%) | 10 | 13 | 2 | 6 | 14 | 1 | -1 | 14 | 3 | 8 | -1 | 1 |
| Dry (17%) | 4 | 0 | 5 | -3 | 4 | -2 | 0 | 15 | 5 | -2 | -5 | -5 |
| Critical (15%) | 14 | 19 | 13 | 16 | -7 | 0 | -12 | -19 | -7 | 10 | -23 | 1 |

Table 2-4. CVP Total Generation, Monthly Generation

**NAA**

| Statistic | Monthly Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 412 | 351 | 692 | 752 | 726 | 727 | 500 | 569 | 583 | 788 | 621 | 479 |
| 20% | 349 | 280 | 353 | 546 | 663 | 551 | 366 | 513 | 560 | 738 | 575 | 436 |
| 30% | 312 | 263 | 253 | 359 | 419 | 363 | 340 | 496 | 536 | 709 | 553 | 406 |
| 40% | 283 | 214 | 209 | 227 | 266 | 278 | 309 | 483 | 506 | 679 | 527 | 376 |
| 50% | 254 | 188 | 168 | 196 | 210 | 230 | 288 | 469 | 483 | 664 | 507 | 319 |
| 60% | 231 | 168 | 143 | 166 | 181 | 180 | 262 | 446 | 465 | 618 | 481 | 285 |
| 70% | 209 | 154 | 139 | 149 | 157 | 166 | 245 | 429 | 445 | 579 | 437 | 264 |
| 80% | 189 | 131 | 124 | 131 | 136 | 154 | 220 | 388 | 420 | 543 | 404 | 238 |
| 90% | 160 | 106 | 108 | 111 | 115 | 132 | 197 | 332 | 373 | 367 | 313 | 185 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 265 | 215 | 268 | 322 | 338 | 333 | 319 | 465 | 485 | 626 | 491 | 335 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 282 | 255 | 458 | 565 | 582 | 568 | 427 | 538 | 503 | 683 | 560 | 453 |
| Above Normal (12%) | 281 | 213 | 201 | 388 | 371 | 351 | 306 | 530 | 498 | 699 | 535 | 413 |
| Below Normal (24%) | 279 | 200 | 216 | 195 | 240 | 226 | 278 | 468 | 501 | 668 | 518 | 292 |
| Dry (17%) | 268 | 213 | 161 | 157 | 153 | 200 | 287 | 418 | 533 | 634 | 458 | 267 |
| Critical (15%) | 190 | 160 | 121 | 144 | 154 | 139 | 201 | 304 | 355 | 370 | 302 | 168 |

**Alt2v2 no TUCP**

| Statistic | Monthly Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 414 | 352 | 692 | 721 | 731 | 724 | 481 | 599 | 592 | 788 | 643 | 458 |
| 20% | 363 | 304 | 380 | 542 | 643 | 536 | 356 | 533 | 569 | 746 | 577 | 431 |
| 30% | 312 | 261 | 259 | 371 | 409 | 352 | 336 | 504 | 538 | 707 | 562 | 399 |
| 40% | 281 | 225 | 197 | 245 | 278 | 277 | 298 | 486 | 511 | 685 | 524 | 367 |
| 50% | 260 | 191 | 175 | 193 | 213 | 228 | 280 | 470 | 492 | 651 | 508 | 314 |
| 60% | 234 | 175 | 149 | 168 | 191 | 183 | 262 | 447 | 473 | 618 | 479 | 283 |
| 70% | 203 | 160 | 138 | 148 | 157 | 176 | 242 | 422 | 448 | 587 | 436 | 257 |

| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Monthly Generation (GWh)** | | | | | | | | | | | | |
| 80% | 183 | 140 | 124 | 126 | 135 | 164 | 235 | 389 | 428 | 544 | 395 | 219 |
| 90% | 154 | 109 | 111 | 113 | 116 | 142 | 214 | 308 | 358 | 401 | 287 | 169 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 269 | 223 | 272 | 322 | 340 | 334 | 317 | 467 | 489 | 634 | 485 | 326 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 286 | 262 | 464 | 571 | 583 | 561 | 423 | 540 | 508 | 690 | 566 | 444 |
| Above Normal (12%) | 278 | 220 | 198 | 369 | 372 | 341 | 302 | 528 | 501 | 698 | 543 | 407 |
| Below Normal (24%) | 279 | 209 | 220 | 196 | 252 | 230 | 270 | 477 | 503 | 672 | 508 | 289 |
| Dry (17%) | 272 | 219 | 163 | 156 | 155 | 198 | 278 | 427 | 539 | 636 | 448 | 258 |
| Critical (15%) | 202 | 172 | 127 | 145 | 148 | 164 | 223 | 291 | 360 | 400 | 270 | 149 |

**Alt2v2 no TUCP minus NAA**

| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Monthly Generation (GWh)** | | | | | | | | | | | | |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 2 | 0 | 0 | -31 | 5 | -2 | -19 | 30 | 10 | 0 | 21 | -20 |
| 20% | 14 | 24 | 27 | -4 | -20 | -15 | -10 | 19 | 8 | 8 | 3 | -5 |
| 30% | 1 | -2 | 6 | 12 | -10 | -12 | -5 | 9 | 2 | -1 | 10 | -8 |
| 40% | -2 | 12 | -12 | 18 | 12 | -1 | -11 | 3 | 5 | 5 | -3 | -9 |
| 50% | 6 | 3 | 7 | -4 | 3 | -2 | -8 | 1 | 9 | -13 | 1 | -4 |
| 60% | 3 | 7 | 6 | 2 | 10 | 4 | -1 | 1 | 7 | -1 | -2 | -2 |
| 70% | -6 | 6 | -1 | -1 | 0 | 10 | -4 | -8 | 3 | 8 | -1 | -7 |
| 80% | -6 | 9 | 0 | -5 | -2 | 9 | 15 | 1 | 8 | 1 | -9 | -19 |
| 90% | -7 | 3 | 3 | 2 | 2 | 10 | 17 | -23 | -15 | 34 | -27 | -17 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 3 | 8 | 3 | 0 | 3 | 1 | -2 | 2 | 4 | 8 | -6 | -9 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 4 | 7 | 5 | 6 | 1 | -7 | -3 | 1 | 5 | 7 | 6 | -10 |
| Above Normal (12%) | -3 | 7 | -3 | -19 | 2 | -10 | -4 | -2 | 3 | -1 | 8 | -7 |
| Below Normal (24%) | 0 | 10 | 4 | 1 | 11 | 4 | -8 | 9 | 1 | 4 | -10 | -3 |
| Dry (17%) | 4 | 6 | 1 | 0 | 2 | -3 | -9 | 9 | 6 | 3 | -10 | -9 |
| Critical (15%) | 12 | 11 | 6 | 1 | -6 | 25 | 22 | -13 | 5 | 30 | -32 | -19 |

Table 2-5. CVP Total Generation, Monthly Generation

**NAA**

| Statistic | Monthly Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 412 | 351 | 692 | 752 | 726 | 727 | 500 | 569 | 583 | 788 | 621 | 479 |
| 20% | 349 | 280 | 353 | 546 | 663 | 551 | 366 | 513 | 560 | 738 | 575 | 436 |
| 30% | 312 | 263 | 253 | 359 | 419 | 363 | 340 | 496 | 536 | 709 | 553 | 406 |
| 40% | 283 | 214 | 209 | 227 | 266 | 278 | 309 | 483 | 506 | 679 | 527 | 376 |
| 50% | 254 | 188 | 168 | 196 | 210 | 230 | 288 | 469 | 483 | 664 | 507 | 319 |
| 60% | 231 | 168 | 143 | 166 | 181 | 180 | 262 | 446 | 465 | 618 | 481 | 285 |
| 70% | 209 | 154 | 139 | 149 | 157 | 166 | 245 | 429 | 445 | 579 | 437 | 264 |
| 80% | 189 | 131 | 124 | 131 | 136 | 154 | 220 | 388 | 420 | 543 | 404 | 238 |
| 90% | 160 | 106 | 108 | 111 | 115 | 132 | 197 | 332 | 373 | 367 | 313 | 185 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 265 | 215 | 268 | 322 | 338 | 333 | 319 | 465 | 485 | 626 | 491 | 335 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 282 | 255 | 458 | 565 | 582 | 568 | 427 | 538 | 503 | 683 | 560 | 453 |
| Above Normal (12%) | 281 | 213 | 201 | 388 | 371 | 351 | 306 | 530 | 498 | 699 | 535 | 413 |
| Below Normal (24%) | 279 | 200 | 216 | 195 | 240 | 226 | 278 | 468 | 501 | 668 | 518 | 292 |
| Dry (17%) | 268 | 213 | 161 | 157 | 153 | 200 | 287 | 418 | 533 | 634 | 458 | 267 |
| Critical (15%) | 190 | 160 | 121 | 144 | 154 | 139 | 201 | 304 | 355 | 370 | 302 | 168 |

**Alt2v3 no TUCP**

| Statistic | Monthly Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 413 | 348 | 699 | 723 | 731 | 724 | 490 | 600 | 577 | 781 | 635 | 458 |
| 20% | 363 | 303 | 387 | 542 | 645 | 538 | 371 | 529 | 551 | 744 | 576 | 428 |
| 30% | 327 | 264 | 257 | 370 | 410 | 358 | 333 | 507 | 520 | 702 | 554 | 400 |
| 40% | 284 | 235 | 201 | 233 | 278 | 277 | 320 | 488 | 502 | 676 | 526 | 359 |
| 50% | 257 | 192 | 175 | 194 | 216 | 231 | 299 | 472 | 484 | 647 | 504 | 326 |
| 60% | 235 | 177 | 149 | 164 | 193 | 186 | 268 | 451 | 464 | 603 | 473 | 284 |
| 70% | 201 | 157 | 139 | 145 | 160 | 176 | 258 | 421 | 439 | 585 | 432 | 262 |

| Statistic | Monthly Generation (GWh) | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| 80% | 181 | 139 | 124 | 128 | 137 | 164 | 243 | 384 | 414 | 541 | 387 | 218 |
| 90% | 154 | 110 | 112 | 112 | 116 | 144 | 212 | 319 | 367 | 402 | 292 | 169 |
| **Long Term** | | | | | | | | | | | | |
| Full Simulation Period | 269 | 226 | 272 | 322 | 342 | 335 | 326 | 468 | 479 | 629 | 482 | 327 |
| **Water Year Types** | | | | | | | | | | | | |
| Wet (32%) | 287 | 265 | 465 | 572 | 584 | 562 | 427 | 542 | 504 | 690 | 565 | 444 |
| Above Normal (12%) | 275 | 223 | 199 | 372 | 374 | 344 | 327 | 539 | 485 | 689 | 533 | 403 |
| Below Normal (24%) | 279 | 211 | 221 | 196 | 258 | 232 | 284 | 481 | 488 | 663 | 505 | 293 |
| Dry (17%) | 274 | 219 | 163 | 155 | 157 | 200 | 279 | 414 | 521 | 622 | 441 | 260 |
| Critical (15%) | 201 | 176 | 126 | 142 | 147 | 165 | 234 | 298 | 360 | 401 | 277 | 150 |

**Alt2v3 no TUCP minus NAA**

| Statistic | Monthly Generation (GWh) | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| **Probability of Exceedance** | | | | | | | | | | | | |
| 10% | 1 | -3 | 7 | -29 | 5 | -2 | -10 | 31 | -6 | -8 | 14 | -21 |
| 20% | 14 | 23 | 34 | -4 | -18 | -13 | 5 | 16 | -10 | 6 | 1 | -7 |
| 30% | 15 | 1 | 4 | 11 | -10 | -6 | -7 | 12 | -16 | -7 | 1 | -6 |
| 40% | 2 | 21 | -8 | 6 | 12 | -2 | 11 | 5 | -4 | -3 | -1 | -17 |
| 50% | 3 | 4 | 7 | -2 | 6 | 1 | 11 | 3 | 0 | -17 | -2 | 7 |
| 60% | 4 | 9 | 6 | -2 | 12 | 7 | 6 | 5 | -2 | -16 | -9 | -1 |
| 70% | -8 | 3 | 0 | -4 | 2 | 11 | 13 | -8 | -7 | 6 | -6 | -3 |
| 80% | -9 | 8 | -1 | -3 | 1 | 10 | 23 | -5 | -6 | -2 | -17 | -19 |
| 90% | -6 | 5 | 4 | 1 | 1 | 11 | 15 | -13 | -6 | 35 | -21 | -16 |
| **Long Term** | | | | | | | | | | | | |
| Full Simulation Period | 4 | 10 | 4 | 0 | 5 | 2 | 8 | 3 | -6 | 3 | -9 | -8 |
| **Water Year Types** | | | | | | | | | | | | |
| Wet (32%) | 5 | 10 | 7 | 7 | 1 | -7 | 0 | 3 | 1 | 7 | 5 | -10 |
| Above Normal (12%) | -7 | 11 | -2 | -16 | 3 | -7 | 21 | 9 | -13 | -11 | -2 | -10 |
| Below Normal (24%) | 0 | 11 | 5 | 1 | 18 | 6 | 6 | 13 | -14 | -4 | -14 | 1 |
| Dry (17%) | 6 | 5 | 1 | -2 | 4 | 0 | -8 | -4 | -11 | -11 | -18 | -7 |
| Critical (15%) | 11 | 16 | 5 | -2 | -6 | 27 | 33 | -7 | 5 | 31 | -25 | -18 |

Table 2-6. CVP Total Generation, Monthly Generation

**NAA**

| Statistic | Monthly Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 412 | 351 | 692 | 752 | 726 | 727 | 500 | 569 | 583 | 788 | 621 | 479 |
| 20% | 349 | 280 | 353 | 546 | 663 | 551 | 366 | 513 | 560 | 738 | 575 | 436 |
| 30% | 312 | 263 | 253 | 359 | 419 | 363 | 340 | 496 | 536 | 709 | 553 | 406 |
| 40% | 283 | 214 | 209 | 227 | 266 | 278 | 309 | 483 | 506 | 679 | 527 | 376 |
| 50% | 254 | 188 | 168 | 196 | 210 | 230 | 288 | 469 | 483 | 664 | 507 | 319 |
| 60% | 231 | 168 | 143 | 166 | 181 | 180 | 262 | 446 | 465 | 618 | 481 | 285 |
| 70% | 209 | 154 | 139 | 149 | 157 | 166 | 245 | 429 | 445 | 579 | 437 | 264 |
| 80% | 189 | 131 | 124 | 131 | 136 | 154 | 220 | 388 | 420 | 543 | 404 | 238 |
| 90% | 160 | 106 | 108 | 111 | 115 | 132 | 197 | 332 | 373 | 367 | 313 | 185 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 265 | 215 | 268 | 322 | 338 | 333 | 319 | 465 | 485 | 626 | 491 | 335 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 282 | 255 | 458 | 565 | 582 | 568 | 427 | 538 | 503 | 683 | 560 | 453 |
| Above Normal (12%) | 281 | 213 | 201 | 388 | 371 | 351 | 306 | 530 | 498 | 699 | 535 | 413 |
| Below Normal (24%) | 279 | 200 | 216 | 195 | 240 | 226 | 278 | 468 | 501 | 668 | 518 | 292 |
| Dry (17%) | 268 | 213 | 161 | 157 | 153 | 200 | 287 | 418 | 533 | 634 | 458 | 267 |
| Critical (15%) | 190 | 160 | 121 | 144 | 154 | 139 | 201 | 304 | 355 | 370 | 302 | 168 |

**Alt3**

| Statistic | Monthly Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 413 | 345 | 695 | 744 | 750 | 744 | 538 | 714 | 511 | 707 | 621 | 491 |
| 20% | 354 | 274 | 454 | 568 | 670 | 578 | 420 | 628 | 490 | 677 | 606 | 412 |
| 30% | 318 | 229 | 296 | 370 | 407 | 410 | 343 | 550 | 477 | 657 | 564 | 381 |
| 40% | 269 | 201 | 208 | 272 | 280 | 300 | 318 | 514 | 460 | 634 | 541 | 351 |
| 50% | 255 | 177 | 180 | 200 | 232 | 233 | 300 | 456 | 440 | 609 | 513 | 319 |
| 60% | 235 | 162 | 151 | 182 | 206 | 198 | 269 | 432 | 422 | 580 | 485 | 284 |
| 70% | 203 | 149 | 141 | 148 | 169 | 177 | 261 | 402 | 410 | 535 | 464 | 254 |

| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Monthly Generation (GWh) | | | | | | |
| 80% | 192 | 142 | 133 | 135 | 139 | 167 | 248 | 379 | 374 | 488 | 431 | 232 |
| 90% | 176 | 117 | 126 | 122 | 121 | 145 | 203 | 300 | 344 | 399 | 323 | 186 |
| **Long Term** | | | | | | | | | | | | |
| Full Simulation Period | 272 | 214 | 286 | 333 | 351 | 346 | 337 | 496 | 435 | 583 | 500 | 330 |
| **Water Year Types** | | | | | | | | | | | | |
| Wet (32%) | 296 | 259 | 485 | 582 | 599 | 585 | 472 | 650 | 456 | 641 | 539 | 438 |
| Above Normal (12%) | 288 | 208 | 237 | 387 | 387 | 375 | 351 | 582 | 424 | 614 | 531 | 400 |
| Below Normal (24%) | 280 | 200 | 224 | 207 | 252 | 238 | 288 | 449 | 434 | 598 | 543 | 288 |
| Dry (17%) | 259 | 196 | 165 | 153 | 167 | 202 | 269 | 400 | 484 | 611 | 523 | 269 |
| Critical (15%) | 207 | 169 | 137 | 164 | 157 | 148 | 198 | 280 | 345 | 377 | 298 | 180 |

**Alt3 minus NAA**

| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Monthly Generation (GWh) | | | | | | |
| **Probability of Exceedance** | | | | | | | | | | | | |
| 10% | 1 | -6 | 3 | -9 | 24 | 17 | 38 | 145 | -72 | -81 | -1 | 12 |
| 20% | 5 | -6 | 101 | 22 | 7 | 27 | 54 | 115 | -71 | -61 | 32 | -23 |
| 30% | 6 | -34 | 43 | 11 | -12 | 47 | 3 | 55 | -59 | -52 | 12 | -25 |
| 40% | -14 | -12 | -2 | 45 | 14 | 22 | 9 | 30 | -47 | -45 | 14 | -25 |
| 50% | 1 | -11 | 12 | 4 | 22 | 3 | 12 | -13 | -43 | -55 | 7 | 1 |
| 60% | 4 | -6 | 8 | 16 | 24 | 18 | 7 | -13 | -44 | -38 | 4 | -1 |
| 70% | -5 | -5 | 2 | -1 | 12 | 11 | 16 | -27 | -36 | -44 | 27 | -10 |
| 80% | 3 | 11 | 9 | 3 | 3 | 13 | 27 | -10 | -46 | -54 | 27 | -6 |
| 90% | 16 | 11 | 18 | 11 | 7 | 13 | 6 | -31 | -29 | 32 | 9 | 1 |
| **Long Term** | | | | | | | | | | | | |
| Full Simulation Period | 7 | -1 | 18 | 10 | 13 | 13 | 19 | 31 | -50 | -43 | 9 | -5 |
| **Water Year Types** | | | | | | | | | | | | |
| Wet (32%) | 14 | 4 | 27 | 17 | 16 | 16 | 45 | 111 | -47 | -42 | -21 | -16 |
| Above Normal (12%) | 7 | -5 | 36 | -1 | 16 | 23 | 45 | 52 | -74 | -86 | -4 | -14 |
| Below Normal (24%) | 1 | 0 | 8 | 12 | 12 | 12 | 11 | -19 | -67 | -70 | 25 | -4 |
| Dry (17%) | -9 | -18 | 4 | -4 | 15 | 2 | -18 | -18 | -48 | -23 | 65 | 2 |
| Critical (15%) | 17 | 9 | 17 | 20 | 4 | 10 | -3 | -24 | -10 | 7 | -3 | 12 |

## Table 2-7. CVP Total Generation, Monthly Generation

**NAA**

| Statistic | Monthly Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| **Probability of Exceedance** | | | | | | | | | | | | |
| 10% | 412 | 351 | 692 | 752 | 726 | 727 | 500 | 569 | 583 | 788 | 621 | 479 |
| 20% | 349 | 280 | 353 | 546 | 663 | 551 | 366 | 513 | 560 | 738 | 575 | 436 |
| 30% | 312 | 263 | 253 | 359 | 419 | 363 | 340 | 496 | 536 | 709 | 553 | 406 |
| 40% | 283 | 214 | 209 | 227 | 266 | 278 | 309 | 483 | 506 | 679 | 527 | 376 |
| 50% | 254 | 188 | 168 | 196 | 210 | 230 | 288 | 469 | 483 | 664 | 507 | 319 |
| 60% | 231 | 168 | 143 | 166 | 181 | 180 | 262 | 446 | 465 | 618 | 481 | 285 |
| 70% | 209 | 154 | 139 | 149 | 157 | 166 | 245 | 429 | 445 | 579 | 437 | 264 |
| 80% | 189 | 131 | 124 | 131 | 136 | 154 | 220 | 388 | 420 | 543 | 404 | 238 |
| 90% | 160 | 106 | 108 | 111 | 115 | 132 | 197 | 332 | 373 | 367 | 313 | 185 |
| **Long Term** | | | | | | | | | | | | |
| Full Simulation Period | 265 | 215 | 268 | 322 | 338 | 333 | 319 | 465 | 485 | 626 | 491 | 335 |
| **Water Year Types** | | | | | | | | | | | | |
| Wet (32%) | 282 | 255 | 458 | 565 | 582 | 568 | 427 | 538 | 503 | 683 | 560 | 453 |
| Above Normal (12%) | 281 | 213 | 201 | 388 | 371 | 351 | 306 | 530 | 498 | 699 | 535 | 413 |
| Below Normal (24%) | 279 | 200 | 216 | 195 | 240 | 226 | 278 | 468 | 501 | 668 | 518 | 292 |
| Dry (17%) | 268 | 213 | 161 | 157 | 153 | 200 | 287 | 418 | 533 | 634 | 458 | 267 |
| Critical (15%) | 190 | 160 | 121 | 144 | 154 | 139 | 201 | 304 | 355 | 370 | 302 | 168 |

**Alt4**

| Statistic | Monthly Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| **Probability of Exceedance** | | | | | | | | | | | | |
| 10% | 413 | 353 | 687 | 723 | 730 | 724 | 485 | 598 | 598 | 789 | 636 | 461 |
| 20% | 364 | 284 | 373 | 543 | 654 | 538 | 366 | 549 | 569 | 750 | 581 | 426 |
| 30% | 316 | 259 | 248 | 385 | 416 | 357 | 336 | 510 | 540 | 709 | 552 | 397 |
| 40% | 284 | 225 | 198 | 240 | 280 | 276 | 301 | 486 | 514 | 689 | 525 | 364 |
| 50% | 256 | 192 | 171 | 196 | 214 | 229 | 289 | 470 | 493 | 659 | 505 | 317 |
| 60% | 230 | 173 | 151 | 161 | 197 | 182 | 261 | 445 | 475 | 624 | 481 | 286 |
| 70% | 208 | 163 | 143 | 145 | 161 | 162 | 246 | 424 | 454 | 591 | 436 | 268 |

| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Monthly Generation (GWh) | | | | | | |
| 80% | 185 | 140 | 129 | 132 | 134 | 150 | 219 | 391 | 432 | 549 | 396 | 221 |
| 90% | 152 | 111 | 115 | 117 | 114 | 130 | 184 | 326 | 359 | 388 | 283 | 183 |
| **Long Term** | | | | | | | | | | | | |
| Full Simulation Period | 271 | 224 | 271 | 323 | 342 | 331 | 316 | 471 | 491 | 636 | 487 | 330 |
| **Water Year Types** | | | | | | | | | | | | |
| Wet (32%) | 285 | 261 | 464 | 571 | 584 | 563 | 422 | 541 | 509 | 690 | 567 | 442 |
| Above Normal (12%) | 284 | 218 | 198 | 377 | 373 | 351 | 301 | 531 | 506 | 704 | 539 | 410 |
| Below Normal (24%) | 289 | 214 | 214 | 200 | 255 | 227 | 275 | 480 | 510 | 682 | 507 | 292 |
| Dry (17%) | 272 | 214 | 160 | 147 | 158 | 199 | 288 | 436 | 540 | 642 | 455 | 260 |
| Critical (15%) | 204 | 178 | 138 | 151 | 149 | 136 | 196 | 299 | 355 | 390 | 277 | 168 |

**Alt4 minus NAA**

| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Monthly Generation (GWh) | | | | | | |
| **Probability of Exceedance** | | | | | | | | | | | | |
| 10% | 1 | 2 | -5 | -30 | 4 | -2 | -15 | 30 | 15 | 1 | 15 | -17 |
| 20% | 15 | 4 | 19 | -3 | -8 | -12 | 0 | 35 | 9 | 12 | 6 | -10 |
| 30% | 4 | -4 | -5 | 26 | -3 | -7 | -4 | 14 | 4 | 0 | -1 | -9 |
| 40% | 1 | 11 | -11 | 14 | 14 | -3 | -8 | 2 | 7 | 9 | -2 | -12 |
| 50% | 2 | 4 | 3 | -1 | 4 | -1 | 1 | 0 | 10 | -5 | -2 | -2 |
| 60% | -1 | 5 | 8 | -5 | 15 | 2 | -1 | 0 | 10 | 6 | -1 | 1 |
| 70% | 0 | 9 | 4 | -4 | 4 | -3 | 1 | -6 | 8 | 12 | -2 | 4 |
| 80% | -4 | 9 | 4 | 1 | -3 | -5 | -2 | 3 | 12 | 6 | -8 | -16 |
| 90% | -8 | 5 | 7 | 6 | 0 | -2 | -13 | -6 | -14 | 22 | -30 | -2 |
| **Long Term** | | | | | | | | | | | | |
| Full Simulation Period | 6 | 9 | 3 | 1 | 4 | -2 | -3 | 6 | 6 | 11 | -4 | -5 |
| **Water Year Types** | | | | | | | | | | | | |
| Wet (32%) | 3 | 6 | 5 | 6 | 1 | -5 | -5 | 2 | 6 | 7 | 6 | -12 |
| Above Normal (12%) | 3 | 5 | -3 | -11 | 2 | -1 | -4 | 1 | 8 | 4 | 4 | -3 |
| Below Normal (24%) | 10 | 14 | -3 | 5 | 15 | 1 | -2 | 12 | 8 | 14 | -11 | 0 |
| Dry (17%) | 4 | 1 | -2 | -10 | 5 | -2 | 1 | 19 | 7 | 8 | -3 | -7 |
| Critical (15%) | 14 | 17 | 17 | 6 | -5 | -2 | -5 | -5 | 0 | 20 | -25 | 0 |

Figure 2-1. CVP Total Generation, Long-Term Average Generation
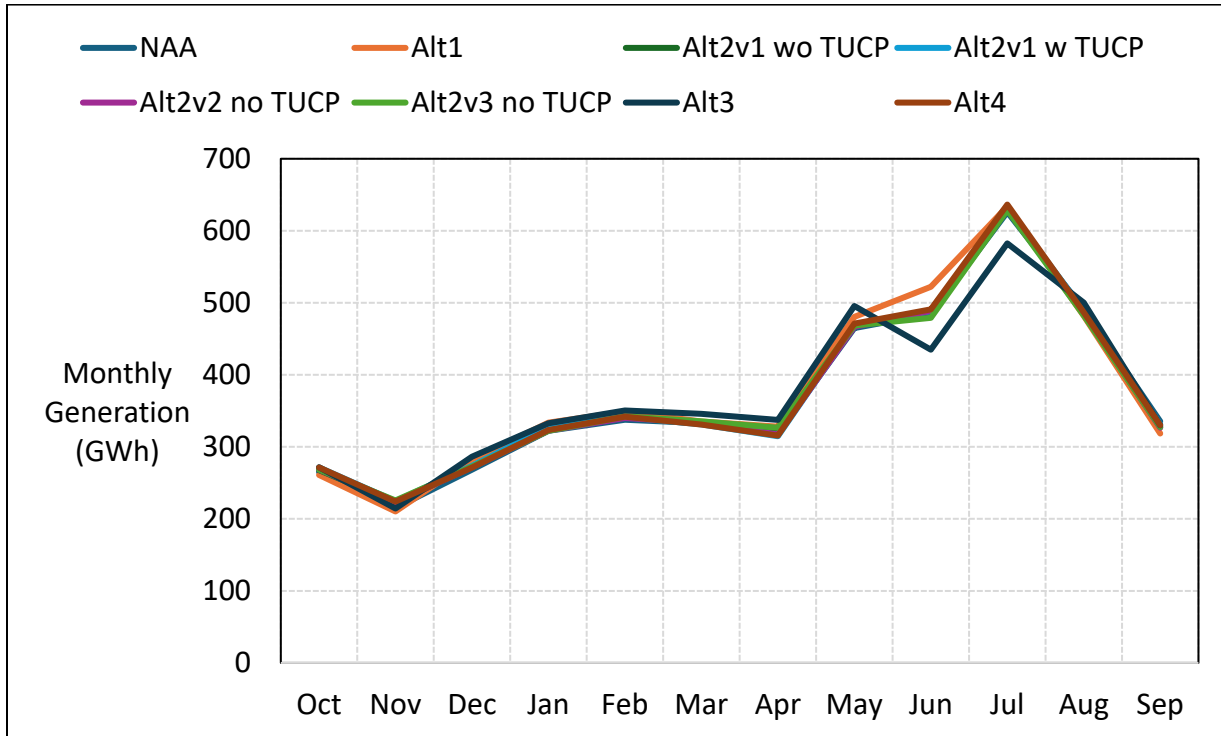


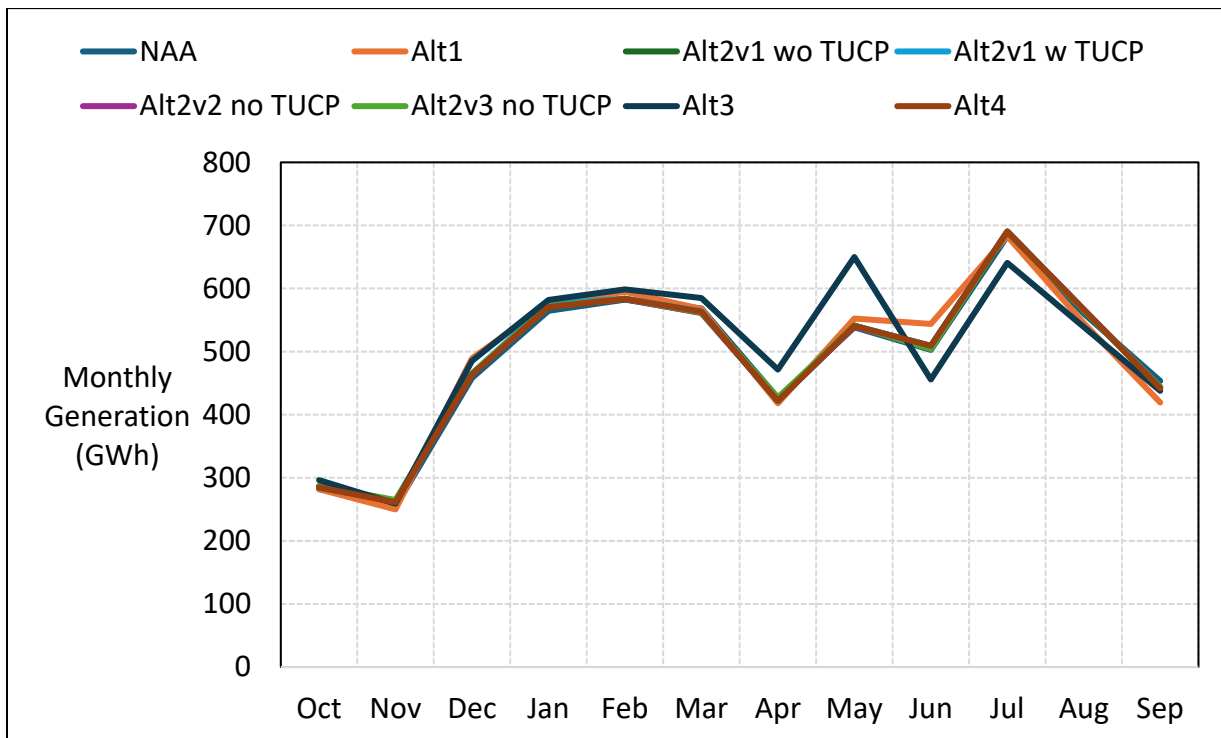Figure 2-2. CVP Total Generation, Wet Year Average Generation

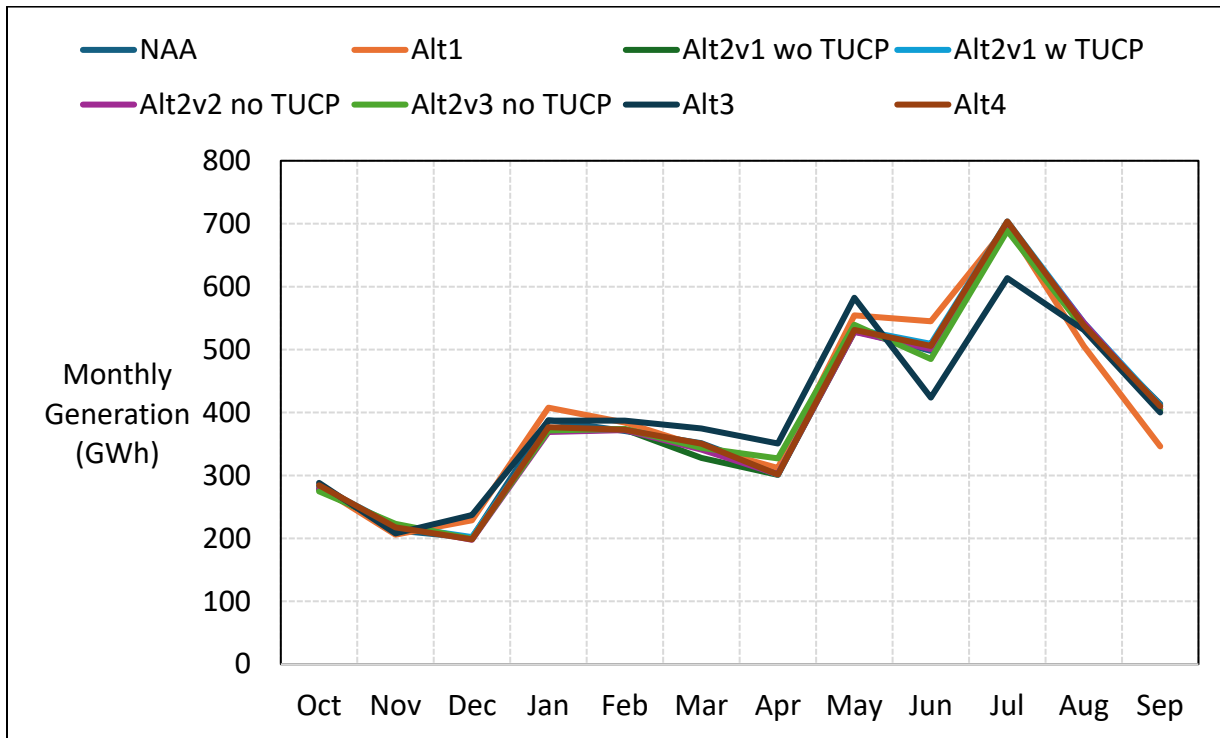Figure 2-3. CVP Total Generation, Above Normal Year Average Generation



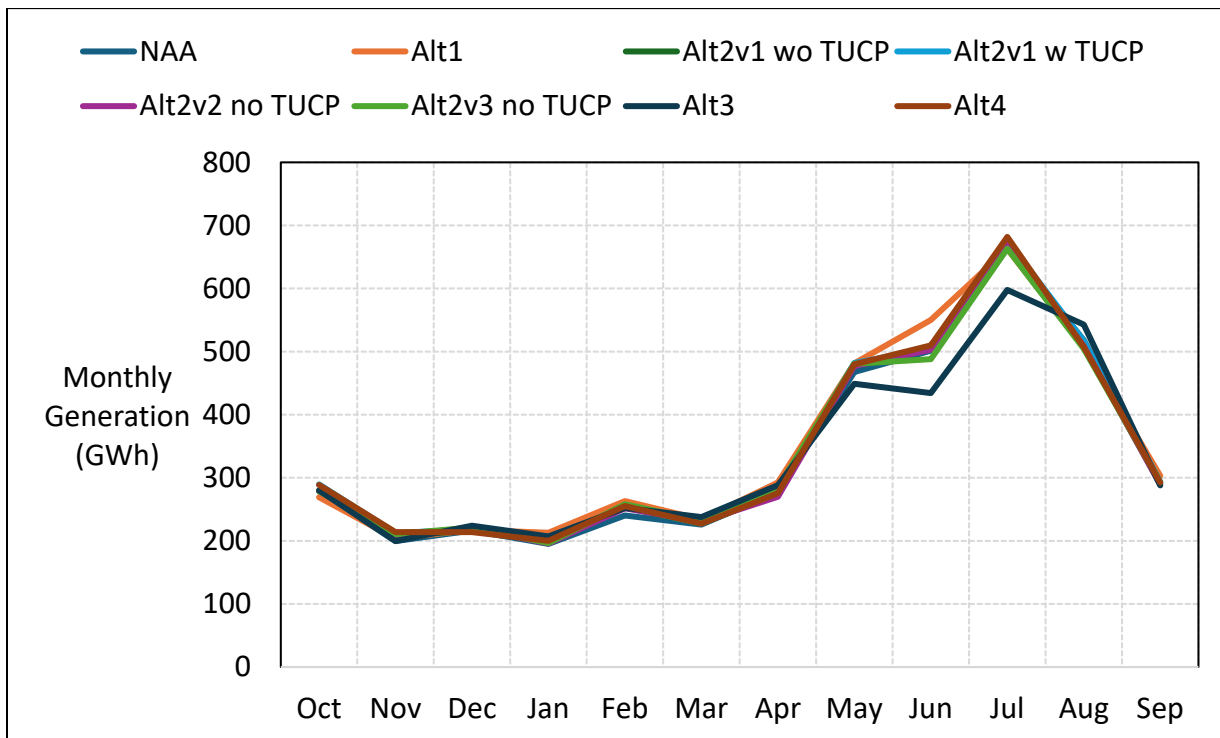Figure 2-4. CVP Total Generation, Below Normal Year Average Generation

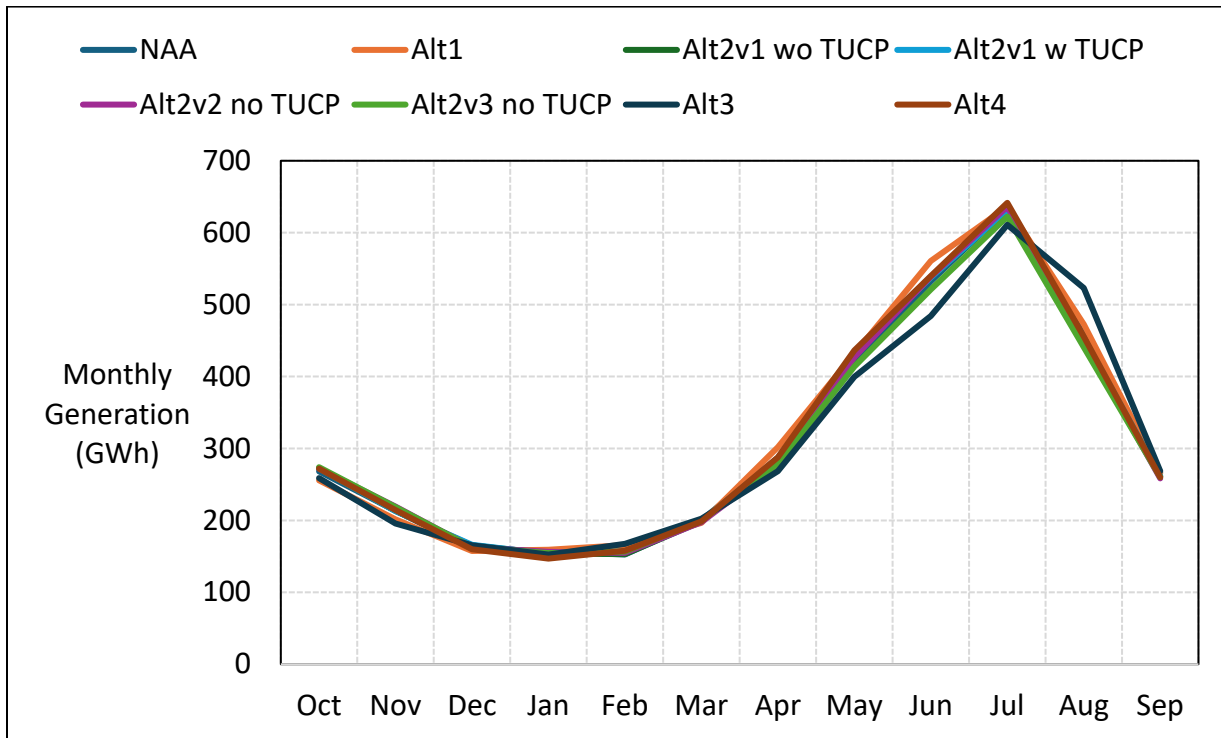Figure 2-5. CVP Total Generation, Dry Year Average Generation



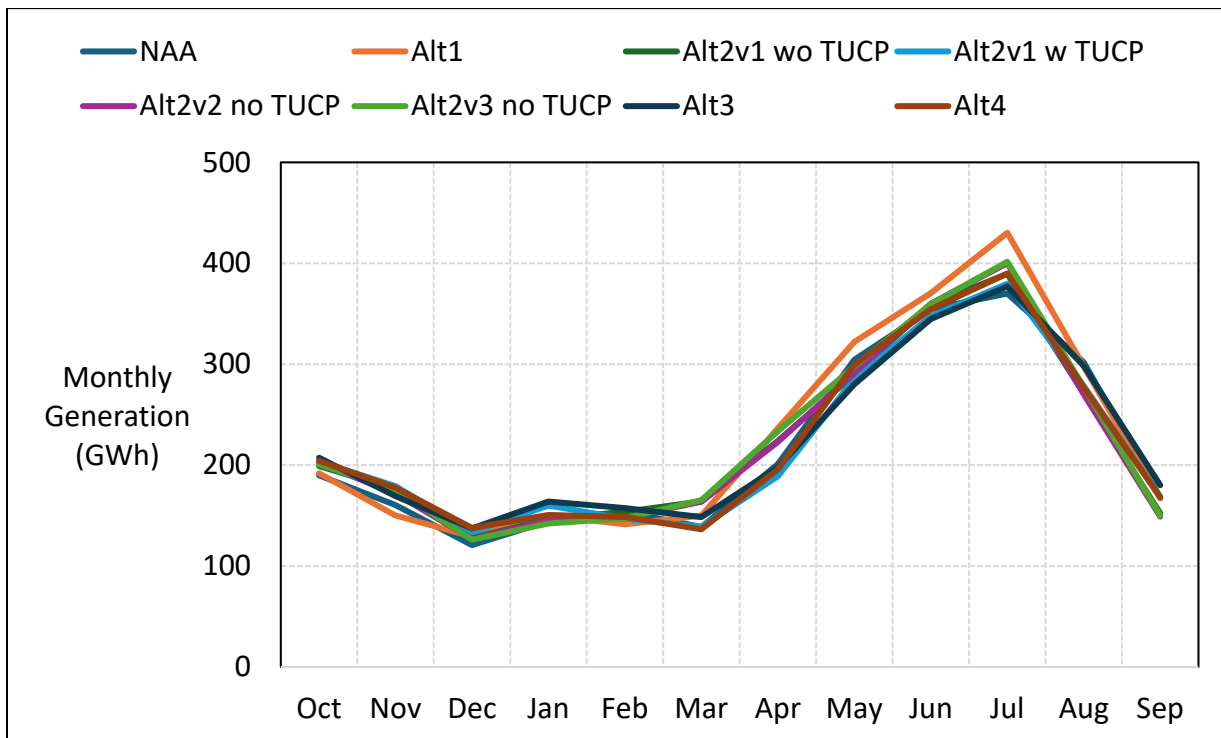Figure 2-6. CVP Total Generation, Critical Year Average Generation

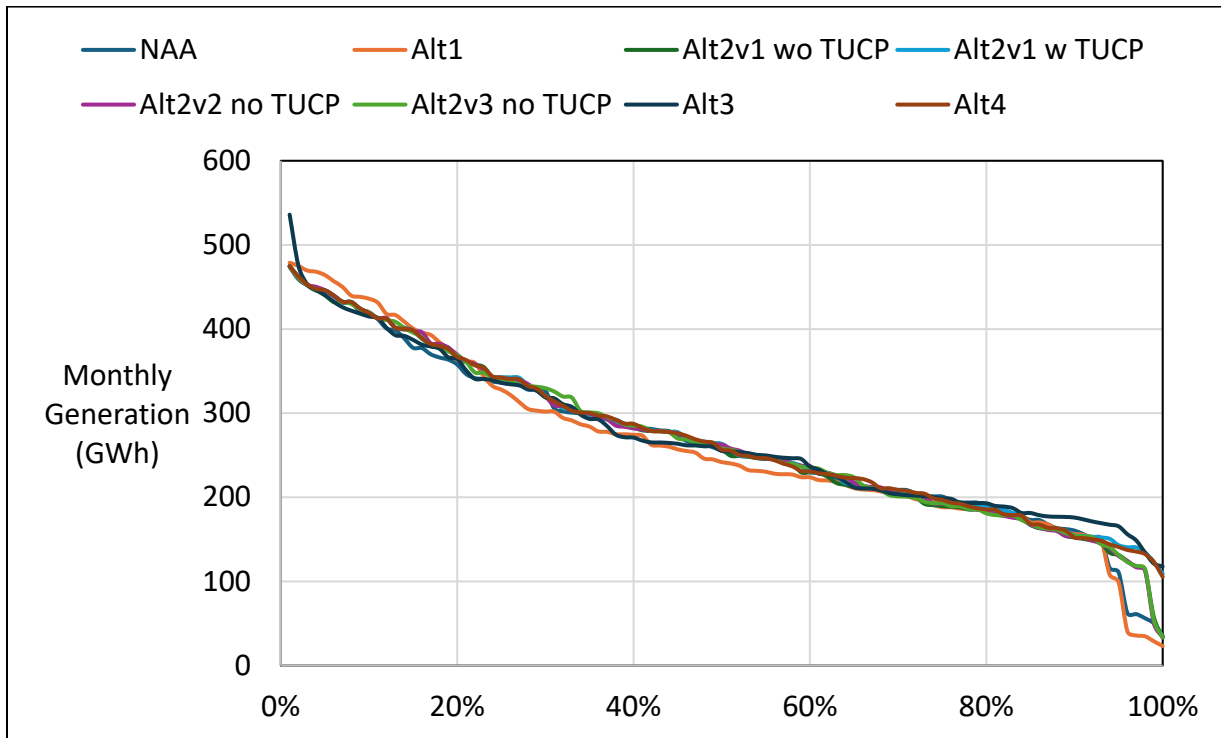Figure 2-7. CVP Total Generation, October
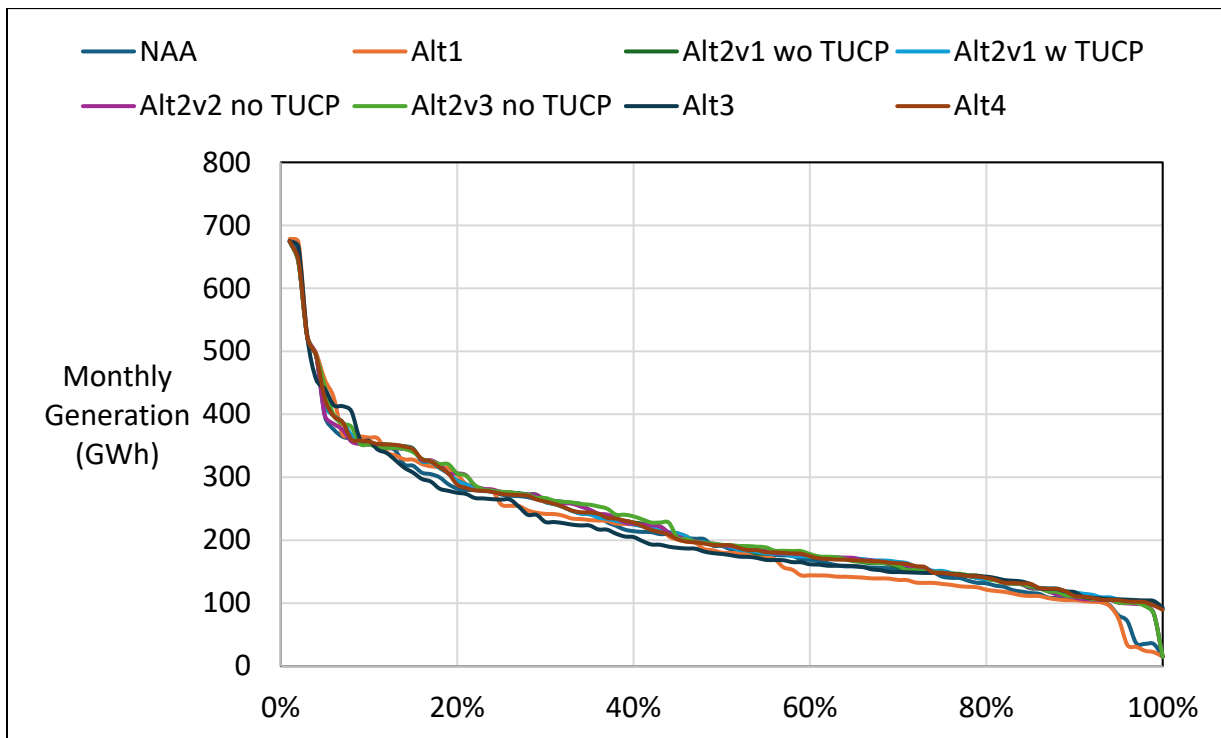


Figure 2-8. CVP Total Generation, November

Figure 2-9. CVP Total Generation, December
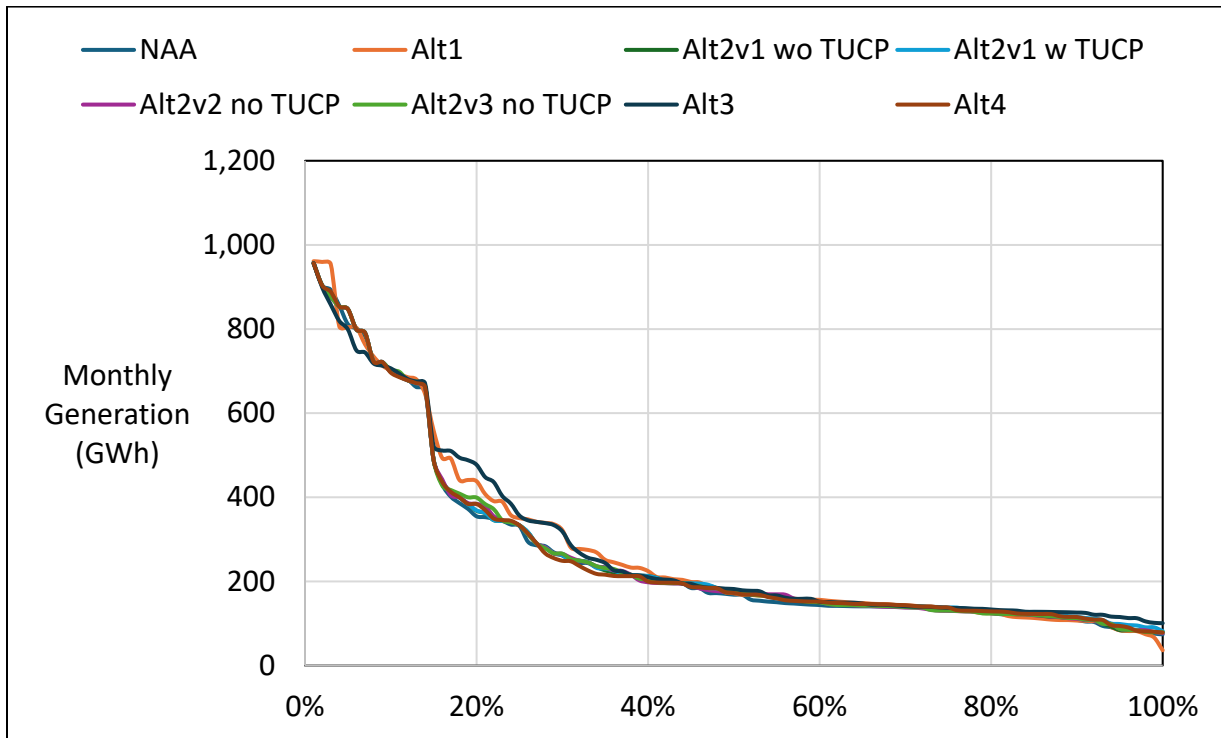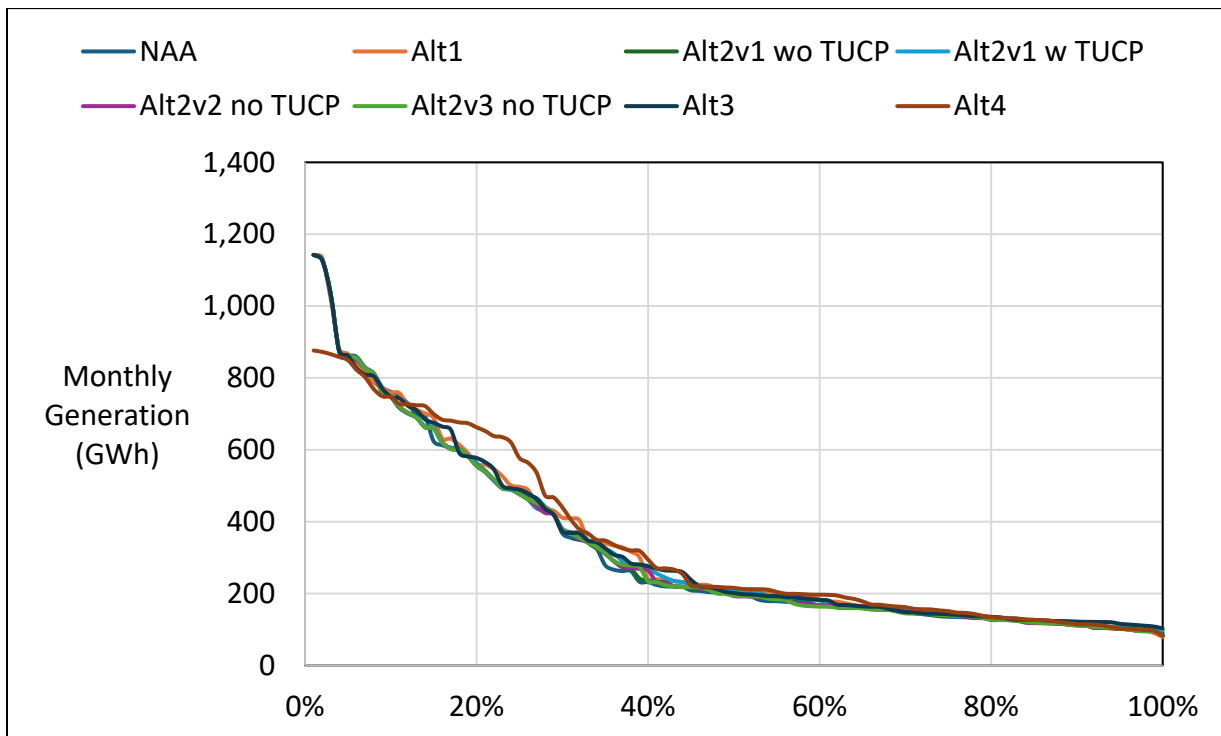


Figure 2-10. CVP Total Generation, January

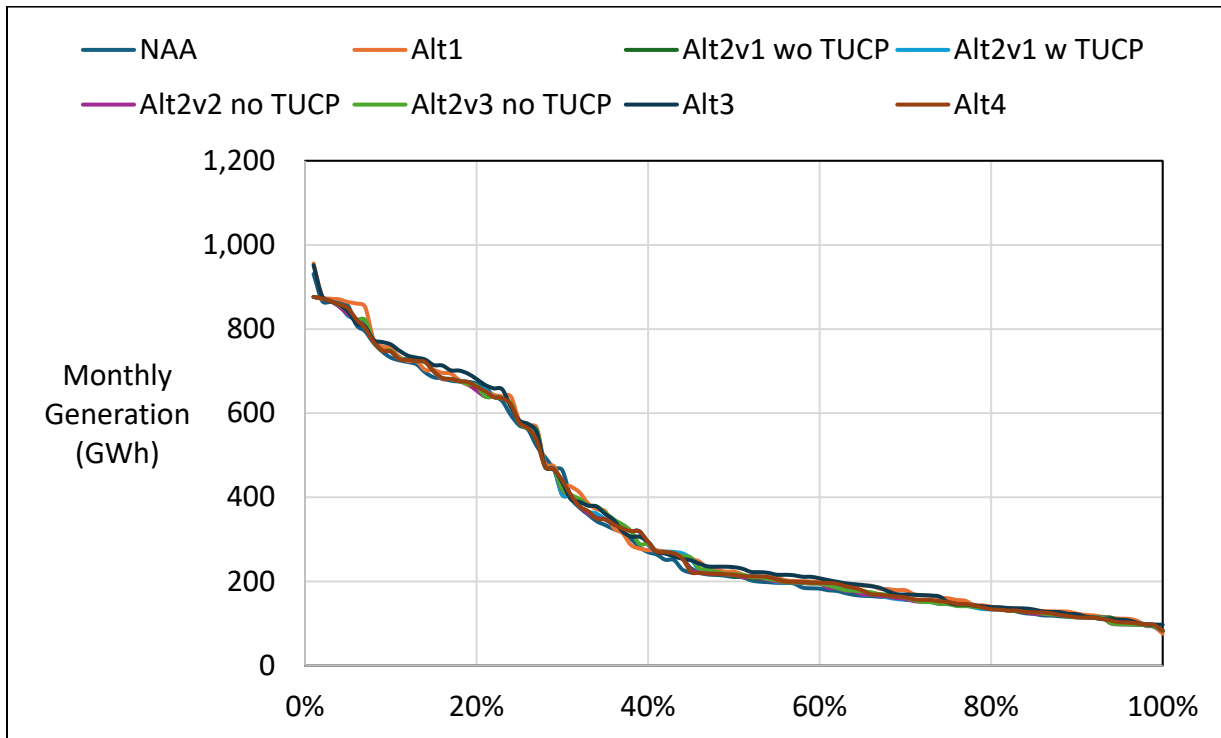Figure 2-11. CVP Total Generation, February
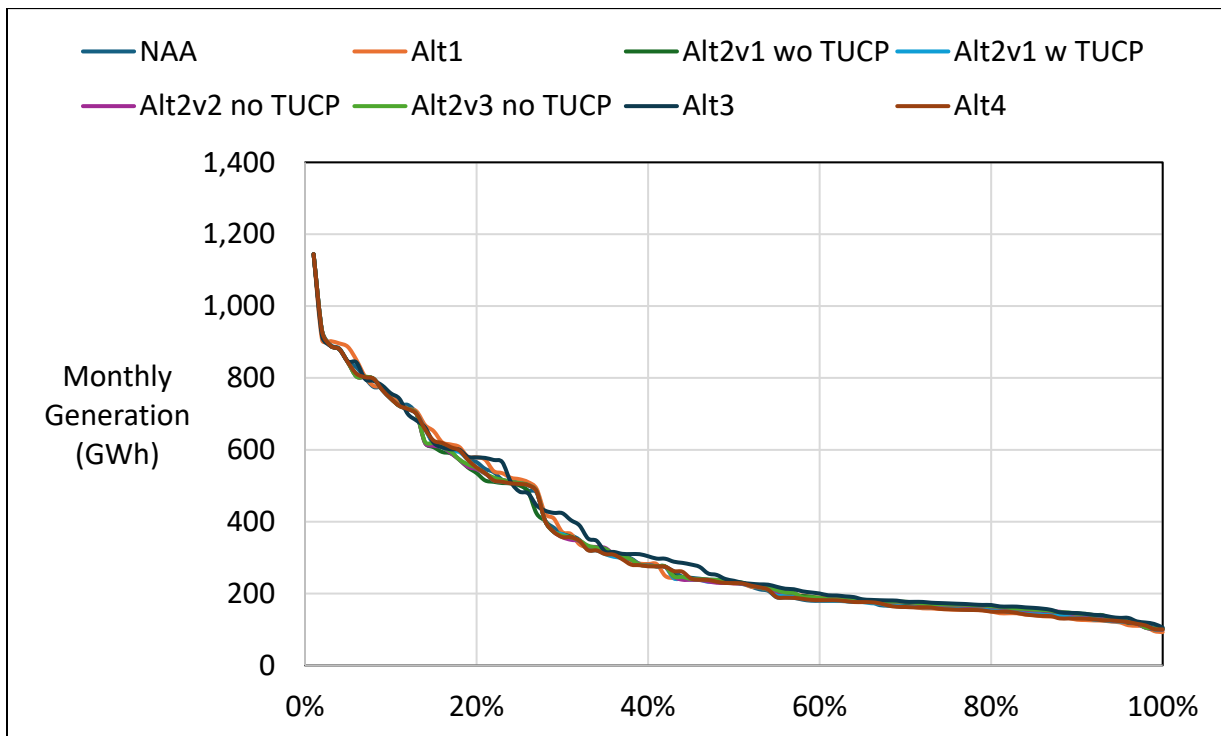


Figure 2-12. CVP Total Generation, March

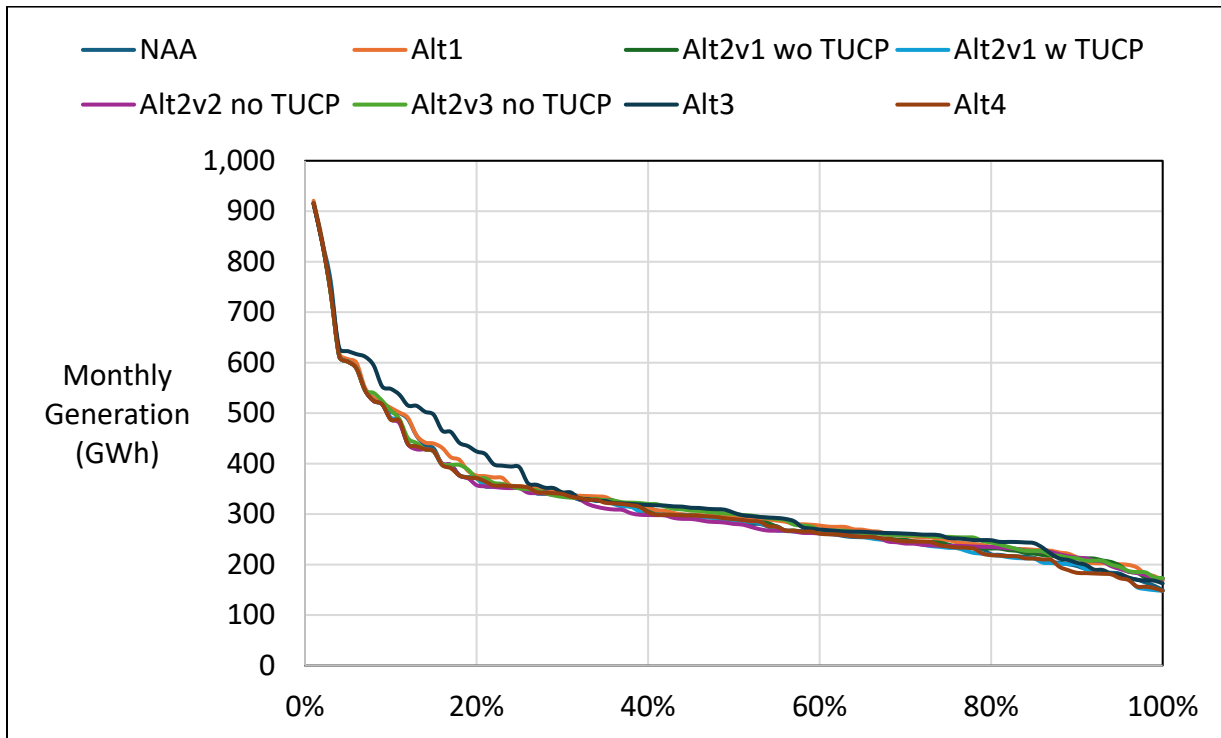Figure 2-13. CVP Total Generation, April
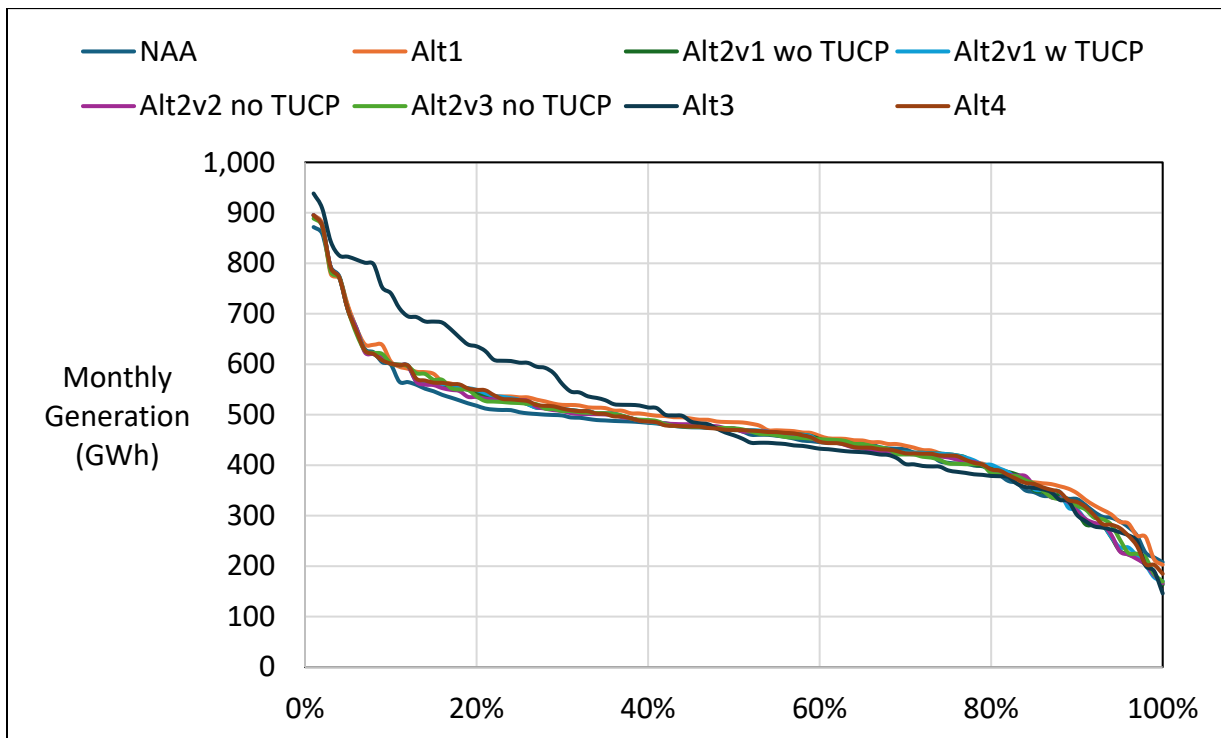


Figure 2-14. CVP Total Generation, May

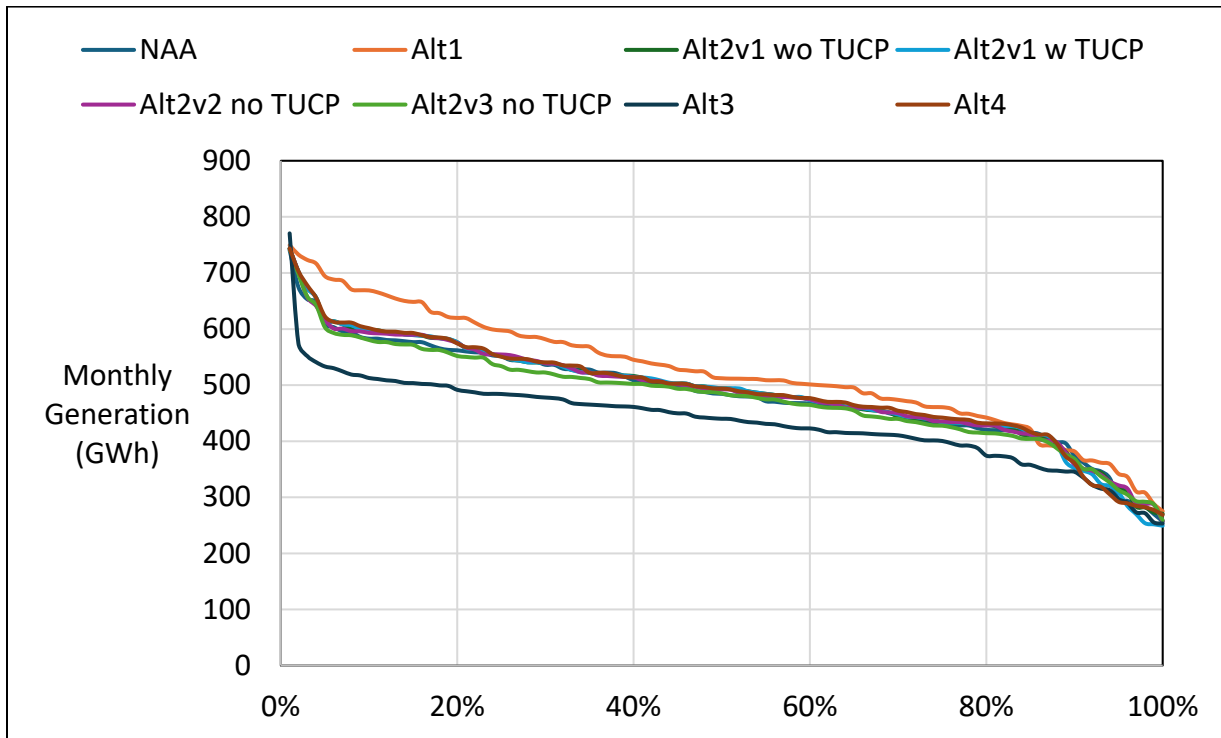Figure 2-15. CVP Total Generation, June



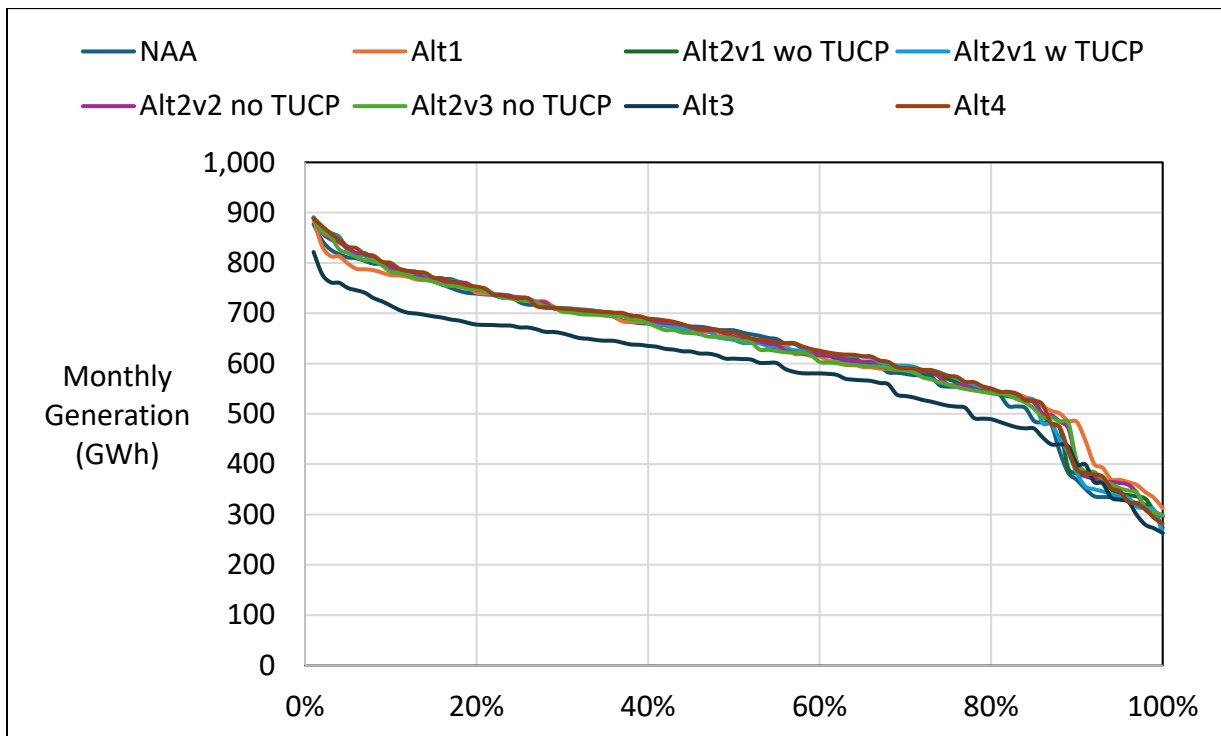Figure 2-16. CVP Total Generation, July
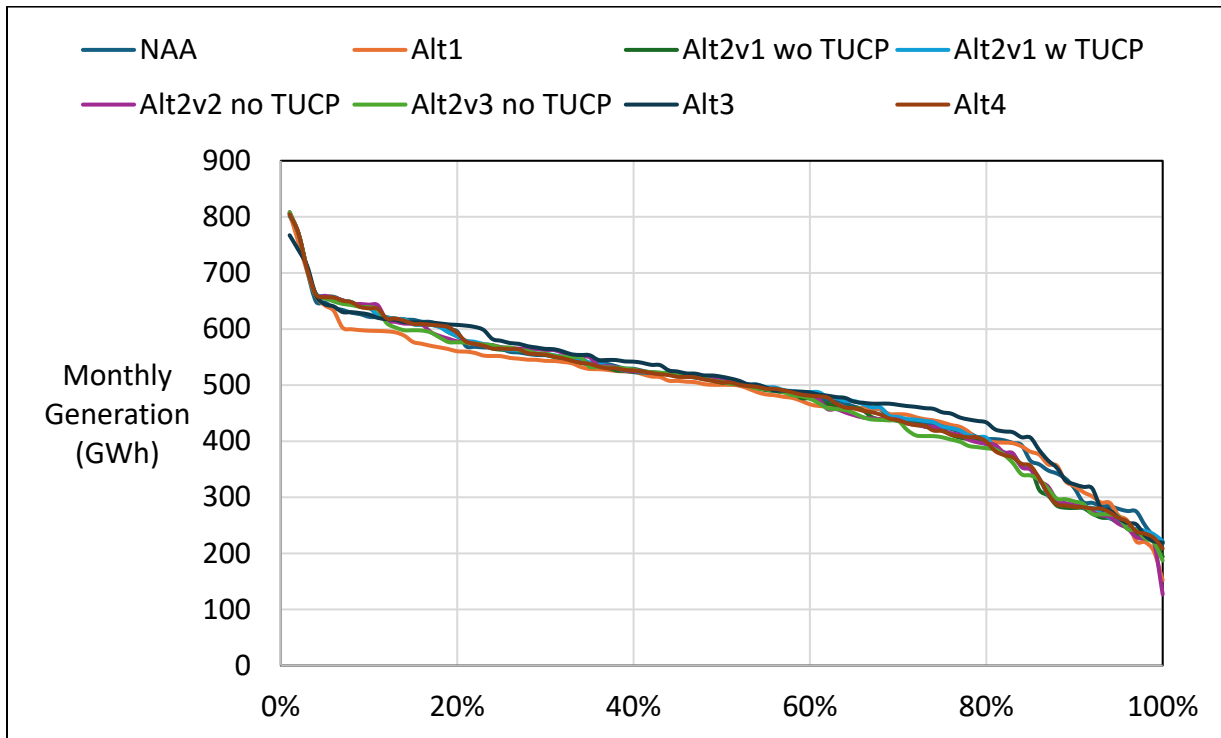
Figure 2-17. CVP Total Generation, August



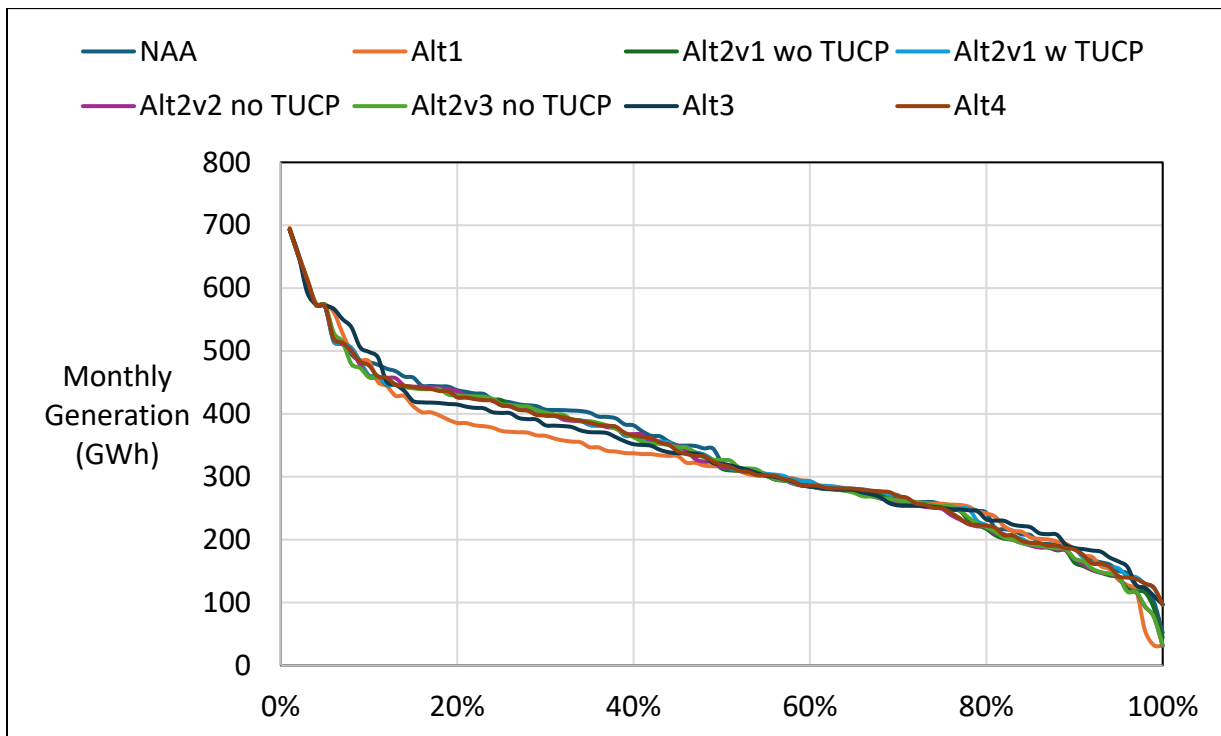Figure 2-18. CVP Total Generation, September

Table 3-1. CVP Total Energy Use, Monthly Energy Use

**NAA**

| Statistic | Monthly Energy Use (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 169 | 214 | 190 | 175 | 177 | 178 | 159 | 218 | 230 | 194 | 210 | 179 |
| 20% | 154 | 196 | 183 | 162 | 168 | 164 | 146 | 172 | 169 | 184 | 201 | 155 |
| 30% | 127 | 183 | 169 | 152 | 158 | 146 | 129 | 135 | 156 | 175 | 187 | 147 |
| 40% | 109 | 159 | 159 | 138 | 151 | 132 | 112 | 122 | 141 | 167 | 173 | 141 |
| 50% | 97 | 150 | 152 | 124 | 145 | 125 | 88 | 99 | 122 | 159 | 161 | 131 |
| 60% | 86 | 129 | 143 | 117 | 136 | 114 | 75 | 87 | 116 | 149 | 145 | 121 |
| 70% | 67 | 92 | 90 | 114 | 123 | 107 | 64 | 77 | 101 | 142 | 121 | 113 |
| 80% | 49 | 60 | 55 | 102 | 111 | 101 | 57 | 66 | 91 | 125 | 99 | 104 |
| 90% | 41 | 42 | 38 | 63 | 92 | 83 | 35 | 44 | 51 | 52 | 66 | 66 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 101 | 135 | 130 | 127 | 137 | 129 | 97 | 116 | 131 | 149 | 150 | 128 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 111 | 145 | 155 | 164 | 158 | 159 | 148 | 181 | 191 | 186 | 193 | 158 |
| Above Normal (12%) | 98 | 164 | 146 | 138 | 153 | 136 | 116 | 132 | 148 | 160 | 171 | 132 |
| Below Normal (24%) | 110 | 142 | 131 | 117 | 135 | 122 | 84 | 100 | 120 | 160 | 168 | 140 |
| Dry (17%) | 99 | 140 | 116 | 110 | 123 | 118 | 62 | 68 | 96 | 138 | 108 | 110 |
| Critical (15%) | 70 | 77 | 75 | 78 | 98 | 82 | 36 | 45 | 48 | 54 | 62 | 60 |

**Alt1**

| Statistic | Monthly Energy Use (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 224 | 187 | 196 | 221 | 216 | 225 | 169 | 235 | 230 | 210 | 211 | 221 |
| 20% | 180 | 172 | 187 | 187 | 193 | 199 | 156 | 186 | 182 | 198 | 199 | 197 |
| 30% | 168 | 165 | 182 | 174 | 183 | 179 | 140 | 148 | 174 | 189 | 188 | 183 |
| 40% | 160 | 153 | 175 | 166 | 172 | 167 | 116 | 134 | 167 | 185 | 181 | 178 |
| 50% | 132 | 128 | 166 | 159 | 167 | 158 | 98 | 122 | 152 | 175 | 166 | 164 |
| 60% | 108 | 107 | 151 | 151 | 156 | 141 | 85 | 105 | 127 | 167 | 145 | 145 |
| 70% | 85 | 83 | 116 | 145 | 147 | 124 | 76 | 88 | 118 | 155 | 128 | 107 |

| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Monthly Energy Use (GWh) | | | | | | | |
| 80% | 64 | 62 | 93 | 118 | 135 | 103 | 67 | 74 | 97 | 132 | 114 | 95 |
| 90% | 49 | 40 | 64 | 79 | 116 | 61 | 44 | 48 | 56 | 78 | 74 | 70 |
| **Long Term** | | | | | | | | | | | | |
| Full Simulation Period | 130 | 123 | 146 | 155 | 162 | 151 | 108 | 128 | 146 | 164 | 156 | 150 |
| **Water Year Types** | | | | | | | | | | | | |
| Wet (32%) | 137 | 134 | 173 | 190 | 187 | 182 | 154 | 191 | 199 | 193 | 201 | 191 |
| Above Normal (12%) | 168 | 132 | 168 | 181 | 176 | 177 | 133 | 154 | 176 | 182 | 193 | 194 |
| Below Normal (24%) | 135 | 138 | 138 | 155 | 159 | 155 | 98 | 113 | 141 | 178 | 157 | 159 |
| Dry (17%) | 131 | 116 | 129 | 122 | 149 | 135 | 75 | 81 | 109 | 155 | 121 | 100 |
| Critical (15%) | 77 | 77 | 101 | 98 | 119 | 73 | 43 | 51 | 57 | 75 | 70 | 70 |

**Alt1 minus NAA**

| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Monthly Energy Use (GWh) | | | | | | | |
| **Probability of Exceedance** | | | | | | | | | | | | |
| 10% | 56 | -27 | 6 | 46 | 39 | 47 | 9 | 17 | 0 | 16 | 1 | 42 |
| 20% | 26 | -24 | 4 | 25 | 25 | 35 | 10 | 14 | 12 | 14 | -1 | 42 |
| 30% | 42 | -18 | 13 | 23 | 25 | 33 | 11 | 12 | 18 | 14 | 2 | 36 |
| 40% | 51 | -7 | 16 | 29 | 21 | 35 | 4 | 13 | 26 | 18 | 8 | 37 |
| 50% | 35 | -22 | 14 | 35 | 22 | 32 | 11 | 23 | 29 | 16 | 5 | 33 |
| 60% | 22 | -22 | 9 | 33 | 21 | 28 | 10 | 17 | 11 | 18 | 1 | 24 |
| 70% | 18 | -9 | 27 | 31 | 24 | 17 | 12 | 11 | 17 | 13 | 7 | -6 |
| 80% | 15 | 2 | 37 | 16 | 24 | 2 | 9 | 8 | 6 | 7 | 15 | -8 |
| 90% | 8 | -2 | 26 | 16 | 24 | -23 | 9 | 3 | 5 | 26 | 7 | 4 |
| **Long Term** | | | | | | | | | | | | |
| Full Simulation Period | 29 | -12 | 16 | 28 | 25 | 22 | 10 | 12 | 15 | 16 | 6 | 22 |
| **Water Year Types** | | | | | | | | | | | | |
| Wet (32%) | 26 | -11 | 18 | 26 | 29 | 22 | 6 | 11 | 9 | 8 | 8 | 33 |
| Above Normal (12%) | 70 | -32 | 23 | 44 | 23 | 40 | 17 | 22 | 28 | 22 | 22 | 62 |
| Below Normal (24%) | 25 | -4 | 7 | 37 | 23 | 34 | 14 | 13 | 20 | 18 | -11 | 20 |
| Dry (17%) | 32 | -24 | 14 | 13 | 26 | 17 | 13 | 13 | 13 | 17 | 13 | -10 |
| Critical (15%) | 7 | 0 | 26 | 20 | 20 | -9 | 7 | 6 | 9 | 21 | 8 | 9 |

Table 3-2. CVP Total Energy Use, Monthly Energy Use

**NAA**

| Statistic | Monthly Energy Use (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 169 | 214 | 190 | 175 | 177 | 178 | 159 | 218 | 230 | 194 | 210 | 179 |
| 20% | 154 | 196 | 183 | 162 | 168 | 164 | 146 | 172 | 169 | 184 | 201 | 155 |
| 30% | 127 | 183 | 169 | 152 | 158 | 146 | 129 | 135 | 156 | 175 | 187 | 147 |
| 40% | 109 | 159 | 159 | 138 | 151 | 132 | 112 | 122 | 141 | 167 | 173 | 141 |
| 50% | 97 | 150 | 152 | 124 | 145 | 125 | 88 | 99 | 122 | 159 | 161 | 131 |
| 60% | 86 | 129 | 143 | 117 | 136 | 114 | 75 | 87 | 116 | 149 | 145 | 121 |
| 70% | 67 | 92 | 90 | 114 | 123 | 107 | 64 | 77 | 101 | 142 | 121 | 113 |
| 80% | 49 | 60 | 55 | 102 | 111 | 101 | 57 | 66 | 91 | 125 | 99 | 104 |
| 90% | 41 | 42 | 38 | 63 | 92 | 83 | 35 | 44 | 51 | 52 | 66 | 66 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 101 | 135 | 130 | 127 | 137 | 129 | 97 | 116 | 131 | 149 | 150 | 128 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 111 | 145 | 155 | 164 | 158 | 159 | 148 | 181 | 191 | 186 | 193 | 158 |
| Above Normal (12%) | 98 | 164 | 146 | 138 | 153 | 136 | 116 | 132 | 148 | 160 | 171 | 132 |
| Below Normal (24%) | 110 | 142 | 131 | 117 | 135 | 122 | 84 | 100 | 120 | 160 | 168 | 140 |
| Dry (17%) | 99 | 140 | 116 | 110 | 123 | 118 | 62 | 68 | 96 | 138 | 108 | 110 |
| Critical (15%) | 70 | 77 | 75 | 78 | 98 | 82 | 36 | 45 | 48 | 54 | 62 | 60 |

**Alt2v1 wo TUCP**

| Statistic | Monthly Energy Use (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 171 | 224 | 192 | 179 | 179 | 189 | 181 | 226 | 234 | 198 | 210 | 180 |
| 20% | 143 | 194 | 184 | 165 | 167 | 171 | 159 | 175 | 166 | 186 | 195 | 158 |
| 30% | 121 | 189 | 169 | 153 | 156 | 154 | 131 | 138 | 153 | 177 | 185 | 150 |
| 40% | 107 | 164 | 160 | 138 | 149 | 134 | 110 | 123 | 134 | 167 | 175 | 142 |
| 50% | 97 | 157 | 155 | 120 | 143 | 125 | 82 | 103 | 119 | 153 | 163 | 131 |
| 60% | 78 | 133 | 135 | 112 | 131 | 116 | 72 | 84 | 108 | 146 | 142 | 121 |
| 70% | 66 | 95 | 94 | 107 | 117 | 107 | 65 | 72 | 95 | 133 | 119 | 113 |

|  | Monthly Energy Use (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| 80% | 54 | 59 | 67 | 96 | 105 | 99 | 56 | 60 | 77 | 102 | 89 | 103 |
| 90% | 43 | 38 | 45 | 59 | 87 | 81 | 43 | 43 | 53 | 67 | 68 | 75 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 99 | 139 | 133 | 127 | 135 | 131 | 103 | 117 | 127 | 147 | 148 | 130 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 111 | 150 | 156 | 166 | 165 | 168 | 161 | 187 | 189 | 187 | 191 | 158 |
| Above Normal (12%) | 90 | 166 | 156 | 137 | 154 | 146 | 122 | 136 | 144 | 161 | 175 | 134 |
| Below Normal (24%) | 107 | 148 | 135 | 116 | 128 | 124 | 84 | 98 | 114 | 158 | 164 | 141 |
| Dry (17%) | 101 | 139 | 117 | 104 | 112 | 116 | 60 | 63 | 83 | 121 | 99 | 107 |
| Critical (15%) | 67 | 79 | 83 | 77 | 95 | 66 | 41 | 47 | 50 | 65 | 65 | 74 |

**Alt2v1 wo TUCP minus NAA**

|  | Monthly Energy Use (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 2 | 10 | 2 | 4 | 2 | 11 | 22 | 8 | 4 | 4 | -1 | 0 |
| 20% | -11 | -1 | 1 | 3 | -1 | 7 | 13 | 3 | -4 | 2 | -6 | 4 |
| 30% | -6 | 6 | 0 | 1 | -2 | 8 | 2 | 3 | -3 | 2 | -1 | 3 |
| 40% | -2 | 5 | 1 | 1 | -2 | 1 | -2 | 1 | -7 | 1 | 2 | 1 |
| 50% | 0 | 7 | 2 | -4 | -2 | -1 | -5 | 4 | -3 | -6 | 2 | -1 |
| 60% | -8 | 4 | -7 | -5 | -5 | 2 | -3 | -3 | -8 | -3 | -3 | 0 |
| 70% | -1 | 3 | 4 | -7 | -6 | 0 | 1 | -5 | -7 | -9 | -2 | 0 |
| 80% | 5 | -1 | 11 | -6 | -6 | -2 | -2 | -6 | -14 | -23 | -10 | -1 |
| 90% | 2 | -3 | 6 | -4 | -4 | -3 | 8 | -1 | 2 | 15 | 2 | 9 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | -2 | 4 | 4 | -1 | -2 | 2 | 5 | 1 | -5 | -1 | -2 | 2 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 0 | 5 | 1 | 3 | 7 | 9 | 13 | 6 | -2 | 2 | -2 | 0 |
| Above Normal (12%) | -8 | 2 | 10 | -1 | 2 | 10 | 6 | 4 | -4 | 1 | 4 | 2 |
| Below Normal (24%) | -3 | 6 | 3 | -2 | -7 | 3 | 0 | -2 | -7 | -2 | -3 | 2 |
| Dry (17%) | 2 | 0 | 1 | -6 | -11 | -2 | -2 | -5 | -13 | -18 | -10 | -3 |
| Critical (15%) | -3 | 2 | 8 | -1 | -4 | -16 | 5 | 2 | 2 | 11 | 3 | 14 |

Table 3-3. CVP Total Energy Use, Monthly Energy Use

**NAA**

| Statistic | Monthly Energy Use (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 169 | 214 | 190 | 175 | 177 | 178 | 159 | 218 | 230 | 194 | 210 | 179 |
| 20% | 154 | 196 | 183 | 162 | 168 | 164 | 146 | 172 | 169 | 184 | 201 | 155 |
| 30% | 127 | 183 | 169 | 152 | 158 | 146 | 129 | 135 | 156 | 175 | 187 | 147 |
| 40% | 109 | 159 | 159 | 138 | 151 | 132 | 112 | 122 | 141 | 167 | 173 | 141 |
| 50% | 97 | 150 | 152 | 124 | 145 | 125 | 88 | 99 | 122 | 159 | 161 | 131 |
| 60% | 86 | 129 | 143 | 117 | 136 | 114 | 75 | 87 | 116 | 149 | 145 | 121 |
| 70% | 67 | 92 | 90 | 114 | 123 | 107 | 64 | 77 | 101 | 142 | 121 | 113 |
| 80% | 49 | 60 | 55 | 102 | 111 | 101 | 57 | 66 | 91 | 125 | 99 | 104 |
| 90% | 41 | 42 | 38 | 63 | 92 | 83 | 35 | 44 | 51 | 52 | 66 | 66 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 101 | 135 | 130 | 127 | 137 | 129 | 97 | 116 | 131 | 149 | 150 | 128 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 111 | 145 | 155 | 164 | 158 | 159 | 148 | 181 | 191 | 186 | 193 | 158 |
| Above Normal (12%) | 98 | 164 | 146 | 138 | 153 | 136 | 116 | 132 | 148 | 160 | 171 | 132 |
| Below Normal (24%) | 110 | 142 | 131 | 117 | 135 | 122 | 84 | 100 | 120 | 160 | 168 | 140 |
| Dry (17%) | 99 | 140 | 116 | 110 | 123 | 118 | 62 | 68 | 96 | 138 | 108 | 110 |
| Critical (15%) | 70 | 77 | 75 | 78 | 98 | 82 | 36 | 45 | 48 | 54 | 62 | 60 |

**Alt2v1 w TUCP**

| Statistic | Monthly Energy Use (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 171 | 225 | 192 | 179 | 181 | 189 | 178 | 226 | 234 | 198 | 209 | 180 |
| 20% | 146 | 194 | 184 | 165 | 167 | 172 | 160 | 177 | 166 | 188 | 196 | 158 |
| 30% | 124 | 189 | 170 | 152 | 156 | 158 | 132 | 141 | 153 | 177 | 187 | 151 |
| 40% | 110 | 164 | 161 | 135 | 149 | 134 | 116 | 126 | 134 | 168 | 176 | 143 |
| 50% | 100 | 156 | 154 | 120 | 143 | 125 | 89 | 105 | 120 | 153 | 164 | 129 |
| 60% | 84 | 133 | 140 | 112 | 131 | 116 | 72 | 86 | 110 | 147 | 145 | 121 |
| 70% | 63 | 94 | 94 | 108 | 116 | 108 | 65 | 72 | 97 | 137 | 119 | 113 |

| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Monthly Energy Use (GWh) | | | | | | | |
| 80% | 55 | 61 | 68 | 96 | 104 | 100 | 56 | 61 | 77 | 104 | 90 | 102 |
| 90% | 43 | 41 | 44 | 55 | 83 | 82 | 38 | 41 | 48 | 50 | 64 | 67 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 101 | 140 | 133 | 125 | 135 | 132 | 103 | 119 | 127 | 146 | 149 | 129 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 112 | 150 | 156 | 166 | 166 | 171 | 161 | 187 | 189 | 187 | 191 | 158 |
| Above Normal (12%) | 97 | 165 | 158 | 137 | 155 | 148 | 123 | 142 | 147 | 165 | 179 | 135 |
| Below Normal (24%) | 109 | 149 | 133 | 115 | 127 | 120 | 86 | 100 | 115 | 160 | 166 | 142 |
| Dry (17%) | 100 | 139 | 121 | 104 | 113 | 116 | 61 | 64 | 84 | 121 | 100 | 107 |
| Critical (15%) | 70 | 84 | 80 | 69 | 91 | 75 | 37 | 46 | 46 | 52 | 60 | 63 |

**Alt2v1 w TUCP minus NAA**

| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Monthly Energy Use (GWh) | | | | | | | |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 2 | 11 | 3 | 3 | 4 | 11 | 18 | 8 | 4 | 4 | -1 | 1 |
| 20% | -8 | -1 | 1 | 3 | -1 | 8 | 14 | 5 | -4 | 4 | -5 | 4 |
| 30% | -3 | 6 | 0 | 0 | -2 | 12 | 3 | 6 | -3 | 2 | 0 | 4 |
| 40% | 1 | 5 | 2 | -2 | -2 | 2 | 3 | 4 | -7 | 1 | 3 | 1 |
| 50% | 3 | 6 | 1 | -4 | -2 | 0 | 2 | 5 | -2 | -6 | 3 | -2 |
| 60% | -2 | 4 | -3 | -5 | -5 | 2 | -3 | -1 | -6 | -3 | 0 | 0 |
| 70% | -4 | 2 | 4 | -6 | -7 | 1 | 1 | -6 | -4 | -5 | -1 | 0 |
| 80% | 6 | 1 | 13 | -6 | -7 | -1 | -2 | -5 | -14 | -21 | -9 | -2 |
| 90% | 2 | -1 | 5 | -8 | -9 | -2 | 3 | -4 | -3 | -2 | -2 | 1 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 0 | 4 | 4 | -2 | -2 | 3 | 5 | 3 | -4 | -2 | -2 | 1 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 0 | 5 | 0 | 2 | 8 | 11 | 12 | 6 | -2 | 2 | -2 | 0 |
| Above Normal (12%) | -2 | 1 | 13 | -1 | 2 | 11 | 8 | 10 | -1 | 5 | 8 | 3 |
| Below Normal (24%) | -2 | 8 | 1 | -2 | -8 | -1 | 2 | 1 | -5 | 0 | -2 | 3 |
| Dry (17%) | 1 | 0 | 5 | -5 | -11 | -2 | -2 | -4 | -12 | -17 | -8 | -3 |
| Critical (15%) | 0 | 6 | 5 | -9 | -7 | -7 | 1 | 1 | -2 | -3 | -2 | 3 |

Table 3-4. CVP Total Energy Use, Monthly Energy Use

**NAA**

| Statistic | Monthly Energy Use (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 169 | 214 | 190 | 175 | 177 | 178 | 159 | 218 | 230 | 194 | 210 | 179 |
| 20% | 154 | 196 | 183 | 162 | 168 | 164 | 146 | 172 | 169 | 184 | 201 | 155 |
| 30% | 127 | 183 | 169 | 152 | 158 | 146 | 129 | 135 | 156 | 175 | 187 | 147 |
| 40% | 109 | 159 | 159 | 138 | 151 | 132 | 112 | 122 | 141 | 167 | 173 | 141 |
| 50% | 97 | 150 | 152 | 124 | 145 | 125 | 88 | 99 | 122 | 159 | 161 | 131 |
| 60% | 86 | 129 | 143 | 117 | 136 | 114 | 75 | 87 | 116 | 149 | 145 | 121 |
| 70% | 67 | 92 | 90 | 114 | 123 | 107 | 64 | 77 | 101 | 142 | 121 | 113 |
| 80% | 49 | 60 | 55 | 102 | 111 | 101 | 57 | 66 | 91 | 125 | 99 | 104 |
| 90% | 41 | 42 | 38 | 63 | 92 | 83 | 35 | 44 | 51 | 52 | 66 | 66 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 101 | 135 | 130 | 127 | 137 | 129 | 97 | 116 | 131 | 149 | 150 | 128 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 111 | 145 | 155 | 164 | 158 | 159 | 148 | 181 | 191 | 186 | 193 | 158 |
| Above Normal (12%) | 98 | 164 | 146 | 138 | 153 | 136 | 116 | 132 | 148 | 160 | 171 | 132 |
| Below Normal (24%) | 110 | 142 | 131 | 117 | 135 | 122 | 84 | 100 | 120 | 160 | 168 | 140 |
| Dry (17%) | 99 | 140 | 116 | 110 | 123 | 118 | 62 | 68 | 96 | 138 | 108 | 110 |
| Critical (15%) | 70 | 77 | 75 | 78 | 98 | 82 | 36 | 45 | 48 | 54 | 62 | 60 |

**Alt2v2 no TUCP**

| Statistic | Monthly Energy Use (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 171 | 212 | 194 | 177 | 181 | 187 | 159 | 226 | 232 | 196 | 210 | 179 |
| 20% | 138 | 194 | 184 | 165 | 170 | 144 | 125 | 172 | 164 | 181 | 193 | 155 |
| 30% | 120 | 184 | 172 | 154 | 157 | 121 | 100 | 139 | 151 | 173 | 184 | 147 |
| 40% | 108 | 163 | 161 | 142 | 151 | 104 | 76 | 122 | 133 | 163 | 171 | 142 |
| 50% | 97 | 156 | 153 | 124 | 144 | 92 | 64 | 96 | 118 | 153 | 162 | 132 |
| 60% | 83 | 134 | 130 | 114 | 132 | 85 | 55 | 78 | 106 | 146 | 143 | 120 |
| 70% | 66 | 95 | 97 | 106 | 118 | 56 | 48 | 67 | 93 | 127 | 112 | 112 |

| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Monthly Energy Use (GWh) | | | | | | | |
| 80% | 57 | 58 | 67 | 97 | 106 | 51 | 41 | 56 | 80 | 102 | 90 | 102 |
| 90% | 44 | 41 | 53 | 66 | 84 | 45 | 39 | 42 | 51 | 67 | 66 | 75 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 100 | 136 | 134 | 128 | 136 | 104 | 83 | 115 | 126 | 145 | 148 | 129 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 112 | 148 | 157 | 167 | 167 | 157 | 126 | 188 | 188 | 185 | 190 | 158 |
| Above Normal (12%) | 92 | 167 | 154 | 137 | 156 | 91 | 89 | 129 | 144 | 158 | 176 | 132 |
| Below Normal (24%) | 107 | 141 | 139 | 116 | 129 | 75 | 70 | 93 | 112 | 154 | 165 | 139 |
| Dry (17%) | 101 | 137 | 116 | 107 | 113 | 86 | 53 | 59 | 84 | 121 | 100 | 107 |
| Critical (15%) | 70 | 76 | 85 | 82 | 94 | 65 | 41 | 47 | 50 | 64 | 64 | 73 |

**Alt2v2 no TUCP minus NAA**

| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Monthly Energy Use (GWh) | | | | | | | |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 2 | -3 | 4 | 2 | 4 | 8 | 0 | 8 | 3 | 2 | 0 | 0 |
| 20% | -16 | -1 | 1 | 3 | 1 | -20 | -22 | -1 | -6 | -3 | -8 | 0 |
| 30% | -7 | 1 | 3 | 3 | -1 | -26 | -29 | 3 | -5 | -2 | -3 | 1 |
| 40% | -1 | 4 | 2 | 4 | 0 | -29 | -36 | 0 | -8 | -4 | -2 | 1 |
| 50% | 1 | 6 | 1 | 1 | -1 | -33 | -23 | -3 | -4 | -6 | 1 | 0 |
| 60% | -3 | 6 | -13 | -3 | -4 | -28 | -19 | -10 | -10 | -4 | -2 | -1 |
| 70% | 0 | 3 | 8 | -7 | -6 | -51 | -16 | -10 | -8 | -15 | -8 | -1 |
| 80% | 8 | -2 | 12 | -5 | -5 | -49 | -16 | -10 | -11 | -23 | -9 | -2 |
| 90% | 3 | -1 | 14 | 3 | -8 | -39 | 3 | -3 | 0 | 15 | 0 | 8 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | -1 | 0 | 5 | 1 | -1 | -25 | -15 | -1 | -5 | -3 | -2 | 1 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 0 | 2 | 1 | 3 | 9 | -2 | -22 | 7 | -2 | 0 | -3 | 0 |
| Above Normal (12%) | -6 | 3 | 8 | -1 | 3 | -46 | -27 | -3 | -4 | -2 | 5 | -1 |
| Below Normal (24%) | -3 | 0 | 8 | -2 | -6 | -47 | -14 | -7 | -9 | -6 | -3 | 0 |
| Dry (17%) | 2 | -2 | 0 | -3 | -10 | -31 | -10 | -9 | -12 | -17 | -9 | -3 |
| Critical (15%) | 0 | -2 | 10 | 4 | -4 | -17 | 5 | 2 | 2 | 10 | 2 | 13 |

Table 3-5. CVP Total Energy Use, Monthly Energy Use

**NAA**

| Statistic | Monthly Energy Use (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 169 | 214 | 190 | 175 | 177 | 178 | 159 | 218 | 230 | 194 | 210 | 179 |
| 20% | 154 | 196 | 183 | 162 | 168 | 164 | 146 | 172 | 169 | 184 | 201 | 155 |
| 30% | 127 | 183 | 169 | 152 | 158 | 146 | 129 | 135 | 156 | 175 | 187 | 147 |
| 40% | 109 | 159 | 159 | 138 | 151 | 132 | 112 | 122 | 141 | 167 | 173 | 141 |
| 50% | 97 | 150 | 152 | 124 | 145 | 125 | 88 | 99 | 122 | 159 | 161 | 131 |
| 60% | 86 | 129 | 143 | 117 | 136 | 114 | 75 | 87 | 116 | 149 | 145 | 121 |
| 70% | 67 | 92 | 90 | 114 | 123 | 107 | 64 | 77 | 101 | 142 | 121 | 113 |
| 80% | 49 | 60 | 55 | 102 | 111 | 101 | 57 | 66 | 91 | 125 | 99 | 104 |
| 90% | 41 | 42 | 38 | 63 | 92 | 83 | 35 | 44 | 51 | 52 | 66 | 66 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 101 | 135 | 130 | 127 | 137 | 129 | 97 | 116 | 131 | 149 | 150 | 128 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 111 | 145 | 155 | 164 | 158 | 159 | 148 | 181 | 191 | 186 | 193 | 158 |
| Above Normal (12%) | 98 | 164 | 146 | 138 | 153 | 136 | 116 | 132 | 148 | 160 | 171 | 132 |
| Below Normal (24%) | 110 | 142 | 131 | 117 | 135 | 122 | 84 | 100 | 120 | 160 | 168 | 140 |
| Dry (17%) | 99 | 140 | 116 | 110 | 123 | 118 | 62 | 68 | 96 | 138 | 108 | 110 |
| Critical (15%) | 70 | 77 | 75 | 78 | 98 | 82 | 36 | 45 | 48 | 54 | 62 | 60 |

**Alt2v3 no TUCP**

| Statistic | Monthly Energy Use (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 172 | 212 | 194 | 178 | 181 | 187 | 157 | 226 | 233 | 194 | 210 | 181 |
| 20% | 146 | 194 | 184 | 166 | 170 | 144 | 126 | 171 | 165 | 181 | 195 | 159 |
| 30% | 124 | 183 | 172 | 155 | 157 | 123 | 100 | 138 | 151 | 173 | 184 | 150 |
| 40% | 111 | 160 | 161 | 142 | 151 | 103 | 77 | 122 | 134 | 162 | 173 | 143 |
| 50% | 99 | 153 | 151 | 126 | 144 | 91 | 65 | 97 | 118 | 153 | 161 | 136 |
| 60% | 85 | 136 | 136 | 115 | 132 | 82 | 55 | 76 | 106 | 146 | 147 | 121 |
| 70% | 69 | 97 | 96 | 108 | 120 | 55 | 48 | 66 | 94 | 130 | 111 | 109 |

| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Monthly Energy Use (GWh) | | | | | | |
| 80% | 58 | 61 | 63 | 97 | 106 | 51 | 43 | 54 | 80 | 103 | 90 | 102 |
| 90% | 43 | 41 | 47 | 72 | 88 | 45 | 38 | 42 | 49 | 67 | 64 | 75 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 102 | 137 | 134 | 129 | 137 | 103 | 83 | 115 | 126 | 146 | 148 | 130 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 114 | 146 | 158 | 167 | 167 | 158 | 125 | 188 | 188 | 186 | 190 | 158 |
| Above Normal (12%) | 93 | 167 | 155 | 136 | 154 | 91 | 89 | 129 | 145 | 158 | 170 | 138 |
| Below Normal (24%) | 107 | 143 | 136 | 116 | 132 | 74 | 71 | 91 | 112 | 155 | 168 | 142 |
| Dry (17%) | 105 | 139 | 113 | 112 | 113 | 83 | 53 | 59 | 85 | 121 | 100 | 106 |
| Critical (15%) | 70 | 80 | 85 | 80 | 94 | 65 | 40 | 47 | 49 | 64 | 64 | 72 |

**Alt2v3 no TUCP minus NAA**

| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Monthly Energy Use (GWh) | | | | | | |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 3 | -2 | 4 | 2 | 4 | 8 | -3 | 8 | 3 | 0 | 0 | 1 |
| 20% | -8 | -2 | 1 | 3 | 1 | -20 | -21 | -1 | -5 | -2 | -5 | 5 |
| 30% | -3 | 0 | 3 | 4 | -1 | -23 | -29 | 3 | -5 | -2 | -2 | 3 |
| 40% | 2 | 0 | 2 | 5 | 0 | -29 | -36 | 0 | -8 | -4 | 0 | 1 |
| 50% | 2 | 3 | -1 | 2 | -1 | -34 | -23 | -2 | -4 | -6 | 0 | 5 |
| 60% | 0 | 7 | -6 | -2 | -4 | -31 | -20 | -12 | -10 | -4 | 2 | 0 |
| 70% | 2 | 5 | 6 | -6 | -3 | -52 | -16 | -11 | -7 | -13 | -10 | -4 |
| 80% | 9 | 1 | 8 | -5 | -5 | -49 | -15 | -12 | -11 | -22 | -9 | -2 |
| 90% | 2 | -1 | 8 | 9 | -4 | -39 | 2 | -2 | -2 | 15 | -2 | 9 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 1 | 1 | 4 | 1 | 0 | -26 | -15 | -1 | -5 | -3 | -2 | 3 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 3 | 1 | 3 | 3 | 10 | -1 | -24 | 8 | -2 | 0 | -3 | 0 |
| Above Normal (12%) | -5 | 3 | 10 | -1 | 1 | -45 | -27 | -3 | -3 | -3 | -1 | 6 |
| Below Normal (24%) | -3 | 1 | 5 | -2 | -3 | -48 | -13 | -9 | -8 | -5 | 0 | 2 |
| Dry (17%) | 6 | -1 | -3 | 3 | -10 | -35 | -10 | -9 | -11 | -17 | -8 | -3 |
| Critical (15%) | 0 | 3 | 10 | 2 | -5 | -17 | 5 | 2 | 2 | 10 | 2 | 12 |

## Table 3-6. CVP Total Energy Use, Monthly Energy Use

**NAA**

| Statistic | Monthly Energy Use (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 169 | 214 | 190 | 175 | 177 | 178 | 159 | 218 | 230 | 194 | 210 | 179 |
| 20% | 154 | 196 | 183 | 162 | 168 | 164 | 146 | 172 | 169 | 184 | 201 | 155 |
| 30% | 127 | 183 | 169 | 152 | 158 | 146 | 129 | 135 | 156 | 175 | 187 | 147 |
| 40% | 109 | 159 | 159 | 138 | 151 | 132 | 112 | 122 | 141 | 167 | 173 | 141 |
| 50% | 97 | 150 | 152 | 124 | 145 | 125 | 88 | 99 | 122 | 159 | 161 | 131 |
| 60% | 86 | 129 | 143 | 117 | 136 | 114 | 75 | 87 | 116 | 149 | 145 | 121 |
| 70% | 67 | 92 | 90 | 114 | 123 | 107 | 64 | 77 | 101 | 142 | 121 | 113 |
| 80% | 49 | 60 | 55 | 102 | 111 | 101 | 57 | 66 | 91 | 125 | 99 | 104 |
| 90% | 41 | 42 | 38 | 63 | 92 | 83 | 35 | 44 | 51 | 52 | 66 | 66 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 101 | 135 | 130 | 127 | 137 | 129 | 97 | 116 | 131 | 149 | 150 | 128 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 111 | 145 | 155 | 164 | 158 | 159 | 148 | 181 | 191 | 186 | 193 | 158 |
| Above Normal (12%) | 98 | 164 | 146 | 138 | 153 | 136 | 116 | 132 | 148 | 160 | 171 | 132 |
| Below Normal (24%) | 110 | 142 | 131 | 117 | 135 | 122 | 84 | 100 | 120 | 160 | 168 | 140 |
| Dry (17%) | 99 | 140 | 116 | 110 | 123 | 118 | 62 | 68 | 96 | 138 | 108 | 110 |
| Critical (15%) | 70 | 77 | 75 | 78 | 98 | 82 | 36 | 45 | 48 | 54 | 62 | 60 |

**Alt3**

| Statistic | Monthly Energy Use (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 130 | 138 | 151 | 150 | 146 | 157 | 58 | 60 | 192 | 109 | 163 | 141 |
| 20% | 109 | 133 | 118 | 134 | 131 | 137 | 51 | 55 | 119 | 99 | 127 | 116 |
| 30% | 88 | 121 | 94 | 118 | 122 | 120 | 44 | 48 | 90 | 95 | 109 | 102 |
| 40% | 80 | 101 | 76 | 107 | 107 | 82 | 38 | 42 | 75 | 91 | 102 | 92 |
| 50% | 72 | 75 | 57 | 92 | 97 | 55 | 33 | 36 | 58 | 86 | 95 | 85 |
| 60% | 62 | 53 | 38 | 79 | 78 | 44 | 28 | 32 | 51 | 81 | 87 | 74 |
| 70% | 50 | 46 | 29 | 54 | 52 | 36 | 26 | 30 | 44 | 78 | 80 | 69 |

| Statistic | Monthly Energy Use (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| 80% | 41 | 38 | 24 | 35 | 35 | 33 | 22 | 25 | 38 | 68 | 76 | 65 |
| 90% | 36 | 26 | 21 | 28 | 26 | 29 | 20 | 21 | 32 | 46 | 66 | 54 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 76 | 82 | 71 | 90 | 89 | 81 | 38 | 41 | 83 | 89 | 102 | 89 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 88 | 102 | 88 | 114 | 102 | 91 | 53 | 55 | 142 | 117 | 129 | 109 |
| Above Normal (12%) | 72 | 86 | 69 | 95 | 110 | 84 | 44 | 54 | 92 | 86 | 108 | 82 |
| Below Normal (24%) | 81 | 83 | 73 | 75 | 72 | 83 | 35 | 36 | 59 | 81 | 95 | 96 |
| Dry (17%) | 67 | 63 | 65 | 76 | 87 | 78 | 26 | 30 | 42 | 85 | 90 | 78 |
| Critical (15%) | 58 | 53 | 43 | 73 | 73 | 57 | 20 | 22 | 34 | 47 | 62 | 53 |

**Alt3 minus NAA**

| Statistic | Monthly Energy Use (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | -39 | -76 | -39 | -26 | -31 | -22 | -101 | -158 | -38 | -84 | -48 | -38 |
| 20% | -45 | -63 | -65 | -28 | -37 | -27 | -95 | -117 | -50 | -85 | -73 | -38 |
| 30% | -38 | -62 | -75 | -34 | -37 | -26 | -85 | -87 | -66 | -80 | -78 | -44 |
| 40% | -29 | -59 | -83 | -30 | -44 | -51 | -74 | -79 | -66 | -76 | -71 | -49 |
| 50% | -25 | -75 | -95 | -32 | -48 | -71 | -54 | -63 | -64 | -73 | -66 | -47 |
| 60% | -24 | -75 | -105 | -38 | -58 | -70 | -47 | -56 | -65 | -69 | -58 | -47 |
| 70% | -16 | -46 | -60 | -60 | -71 | -71 | -38 | -48 | -57 | -65 | -40 | -44 |
| 80% | -8 | -21 | -31 | -67 | -76 | -67 | -35 | -41 | -53 | -57 | -23 | -39 |
| 90% | -5 | -15 | -18 | -35 | -66 | -54 | -16 | -23 | -19 | -6 | 0 | -12 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | -25 | -54 | -58 | -38 | -48 | -48 | -59 | -75 | -48 | -60 | -49 | -39 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | -23 | -43 | -68 | -50 | -56 | -69 | -96 | -125 | -49 | -68 | -64 | -49 |
| Above Normal (12%) | -27 | -78 | -77 | -43 | -43 | -53 | -71 | -78 | -56 | -74 | -63 | -50 |
| Below Normal (24%) | -29 | -59 | -58 | -43 | -63 | -39 | -49 | -64 | -61 | -79 | -73 | -43 |
| Dry (17%) | -32 | -76 | -50 | -33 | -36 | -40 | -36 | -37 | -54 | -53 | -18 | -32 |
| Critical (15%) | -12 | -24 | -32 | -5 | -25 | -25 | -16 | -23 | -13 | -7 | -1 | -7 |

Table 3-7. CVP Total Energy Use, Monthly Energy Use

**NAA**

| Statistic | Monthly Energy Use (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 169 | 214 | 190 | 175 | 177 | 178 | 159 | 218 | 230 | 194 | 210 | 179 |
| 20% | 154 | 196 | 183 | 162 | 168 | 164 | 146 | 172 | 169 | 184 | 201 | 155 |
| 30% | 127 | 183 | 169 | 152 | 158 | 146 | 129 | 135 | 156 | 175 | 187 | 147 |
| 40% | 109 | 159 | 159 | 138 | 151 | 132 | 112 | 122 | 141 | 167 | 173 | 141 |
| 50% | 97 | 150 | 152 | 124 | 145 | 125 | 88 | 99 | 122 | 159 | 161 | 131 |
| 60% | 86 | 129 | 143 | 117 | 136 | 114 | 75 | 87 | 116 | 149 | 145 | 121 |
| 70% | 67 | 92 | 90 | 114 | 123 | 107 | 64 | 77 | 101 | 142 | 121 | 113 |
| 80% | 49 | 60 | 55 | 102 | 111 | 101 | 57 | 66 | 91 | 125 | 99 | 104 |
| 90% | 41 | 42 | 38 | 63 | 92 | 83 | 35 | 44 | 51 | 52 | 66 | 66 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 101 | 135 | 130 | 127 | 137 | 129 | 97 | 116 | 131 | 149 | 150 | 128 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 111 | 145 | 155 | 164 | 158 | 159 | 148 | 181 | 191 | 186 | 193 | 158 |
| Above Normal (12%) | 98 | 164 | 146 | 138 | 153 | 136 | 116 | 132 | 148 | 160 | 171 | 132 |
| Below Normal (24%) | 110 | 142 | 131 | 117 | 135 | 122 | 84 | 100 | 120 | 160 | 168 | 140 |
| Dry (17%) | 99 | 140 | 116 | 110 | 123 | 118 | 62 | 68 | 96 | 138 | 108 | 110 |
| Critical (15%) | 70 | 77 | 75 | 78 | 98 | 82 | 36 | 45 | 48 | 54 | 62 | 60 |

**Alt4**

| Statistic | Monthly Energy Use (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 172 | 223 | 187 | 177 | 184 | 192 | 189 | 229 | 234 | 196 | 209 | 181 |
| 20% | 149 | 195 | 178 | 159 | 172 | 179 | 161 | 182 | 165 | 186 | 195 | 160 |
| 30% | 126 | 185 | 162 | 149 | 158 | 163 | 135 | 141 | 153 | 178 | 185 | 151 |
| 40% | 112 | 164 | 151 | 134 | 154 | 145 | 116 | 125 | 139 | 170 | 175 | 142 |
| 50% | 101 | 159 | 142 | 125 | 149 | 130 | 89 | 105 | 121 | 158 | 162 | 133 |
| 60% | 87 | 135 | 133 | 115 | 144 | 120 | 73 | 88 | 112 | 150 | 144 | 121 |
| 70% | 68 | 89 | 97 | 111 | 130 | 111 | 65 | 73 | 99 | 139 | 121 | 114 |

| | Monthly Energy Use (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| 80% | 58 | 60 | 65 | 100 | 116 | 102 | 57 | 63 | 85 | 112 | 95 | 104 |
| 90% | 43 | 43 | 42 | 57 | 80 | 80 | 37 | 43 | 46 | 56 | 63 | 73 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 103 | 140 | 126 | 126 | 141 | 137 | 104 | 119 | 128 | 149 | 149 | 130 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 114 | 147 | 150 | 165 | 166 | 178 | 163 | 188 | 189 | 188 | 192 | 159 |
| Above Normal (12%) | 98 | 166 | 146 | 133 | 160 | 153 | 124 | 143 | 147 | 164 | 175 | 136 |
| Below Normal (24%) | 110 | 151 | 124 | 117 | 136 | 123 | 87 | 101 | 117 | 162 | 166 | 143 |
| Dry (17%) | 100 | 140 | 110 | 109 | 125 | 116 | 62 | 66 | 89 | 130 | 103 | 109 |
| Critical (15%) | 72 | 85 | 81 | 75 | 99 | 81 | 37 | 45 | 45 | 54 | 61 | 64 |

**Alt4 minus NAA**

| | Monthly Energy Use (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 3 | 8 | -3 | 2 | 7 | 14 | 30 | 11 | 4 | 2 | -1 | 2 |
| 20% | -5 | -1 | -5 | -3 | 4 | 15 | 14 | 9 | -4 | 2 | -6 | 6 |
| 30% | -1 | 2 | -7 | -2 | 0 | 17 | 5 | 6 | -2 | 3 | -1 | 5 |
| 40% | 3 | 5 | -8 | -3 | 3 | 12 | 4 | 4 | -2 | 3 | 2 | 1 |
| 50% | 4 | 8 | -10 | 1 | 4 | 4 | 2 | 6 | -1 | -1 | 1 | 1 |
| 60% | 2 | 7 | -10 | -2 | 8 | 6 | -2 | 1 | -4 | 0 | -1 | 1 |
| 70% | 1 | -3 | 8 | -3 | 7 | 4 | 1 | -4 | -2 | -3 | 0 | 0 |
| 80% | 9 | 0 | 10 | -2 | 5 | 1 | -1 | -3 | -6 | -13 | -4 | 1 |
| 90% | 2 | 1 | 3 | -6 | -12 | -3 | 2 | -1 | -5 | 4 | -4 | 7 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 2 | 4 | -3 | -1 | 4 | 8 | 7 | 4 | -3 | 0 | -2 | 2 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 3 | 2 | -5 | 2 | 8 | 18 | 15 | 7 | -2 | 2 | -2 | 1 |
| Above Normal (12%) | 0 | 2 | 1 | -5 | 7 | 16 | 8 | 11 | 0 | 4 | 4 | 4 |
| Below Normal (24%) | 0 | 9 | -7 | -1 | 1 | 1 | 3 | 2 | -3 | 2 | -2 | 4 |
| Dry (17%) | 1 | 1 | -5 | -1 | 2 | -2 | 0 | -2 | -7 | -8 | -5 | -1 |
| Critical (15%) | 2 | 8 | 6 | -3 | 1 | -1 | 1 | 0 | -3 | 0 | -1 | 4 |

## Figure 3-1. CVP Total Energy Use, Long-Term Average Energy Use
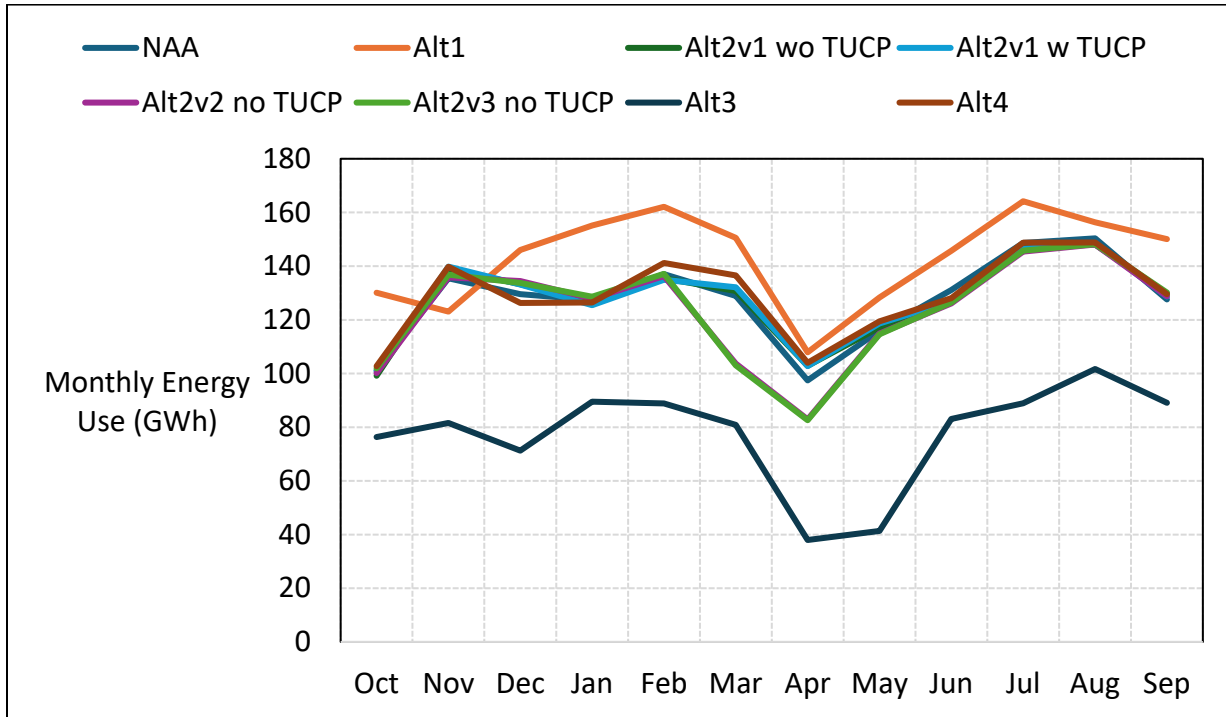


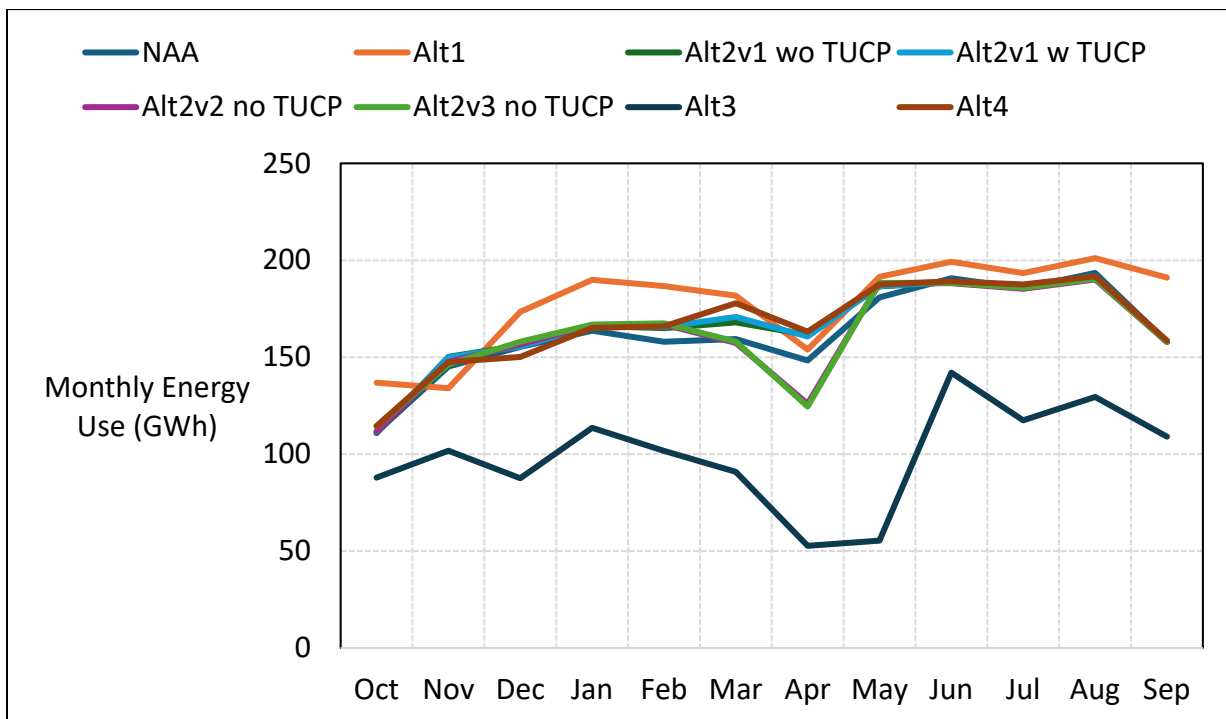## Figure 3-2. CVP Total Energy Use, Wet Year Average Energy Use

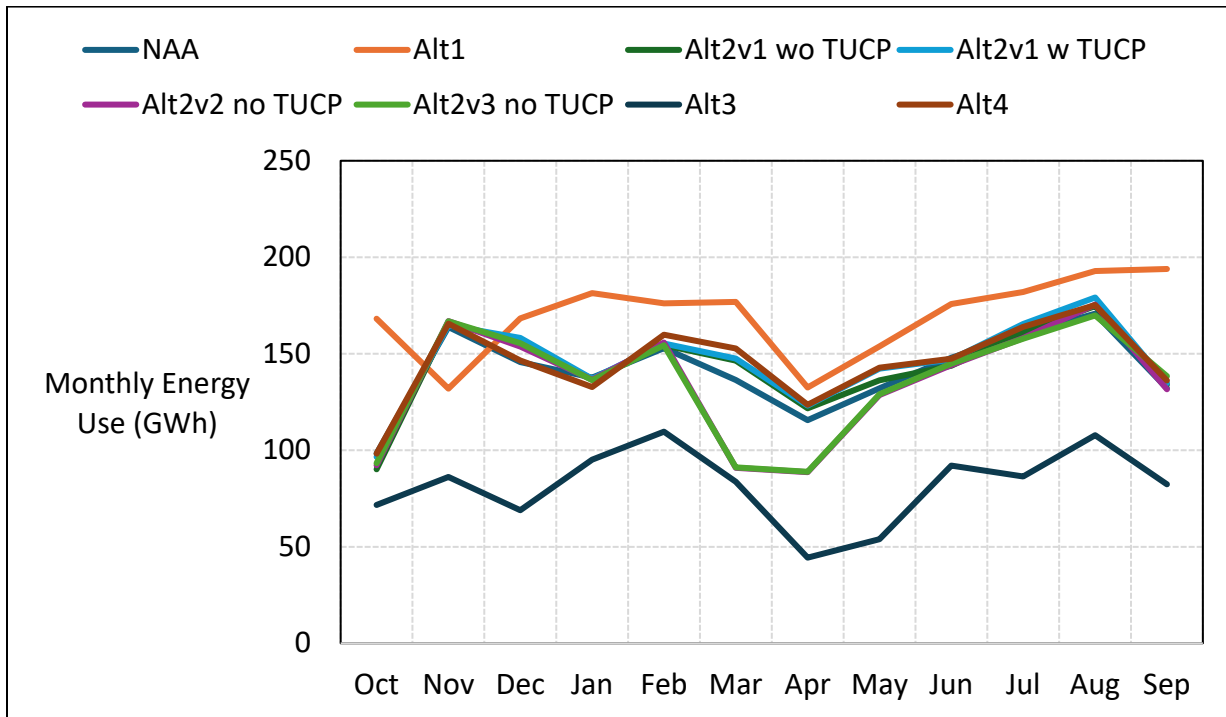Figure 3-3. CVP Total Energy Use, Above Normal Year Average Energy Use



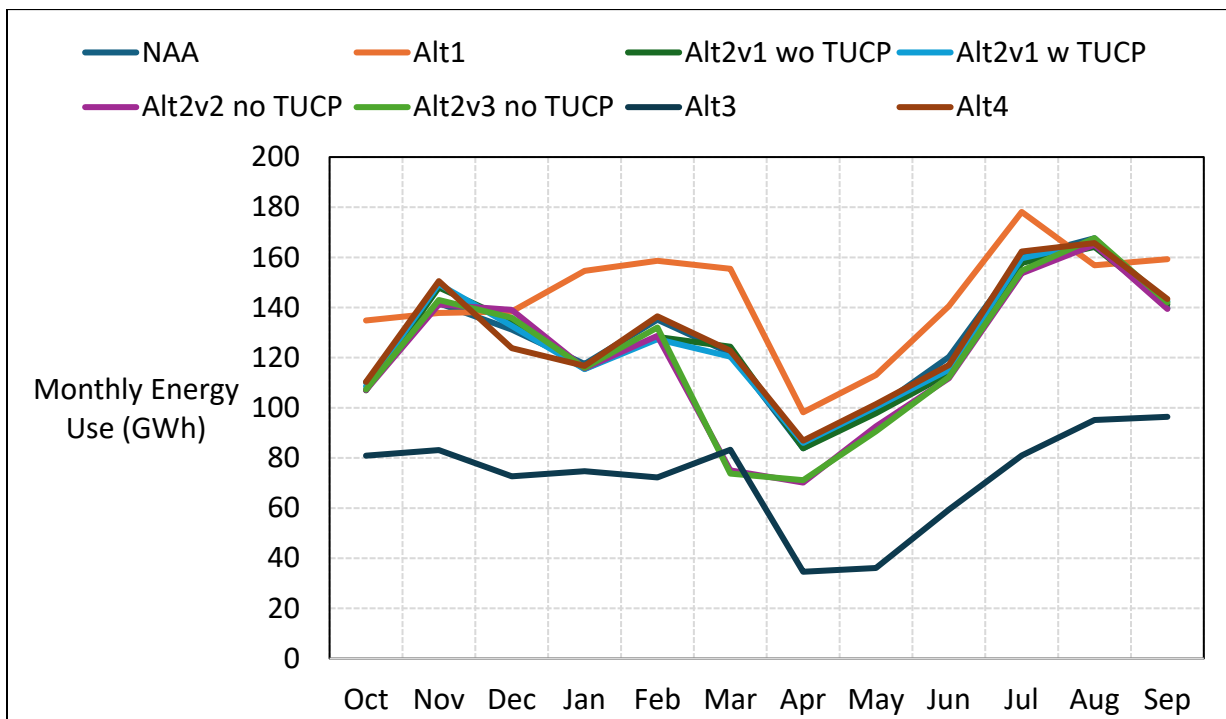Figure 3-4. CVP Total Energy Use, Below Normal Year Average Energy Use

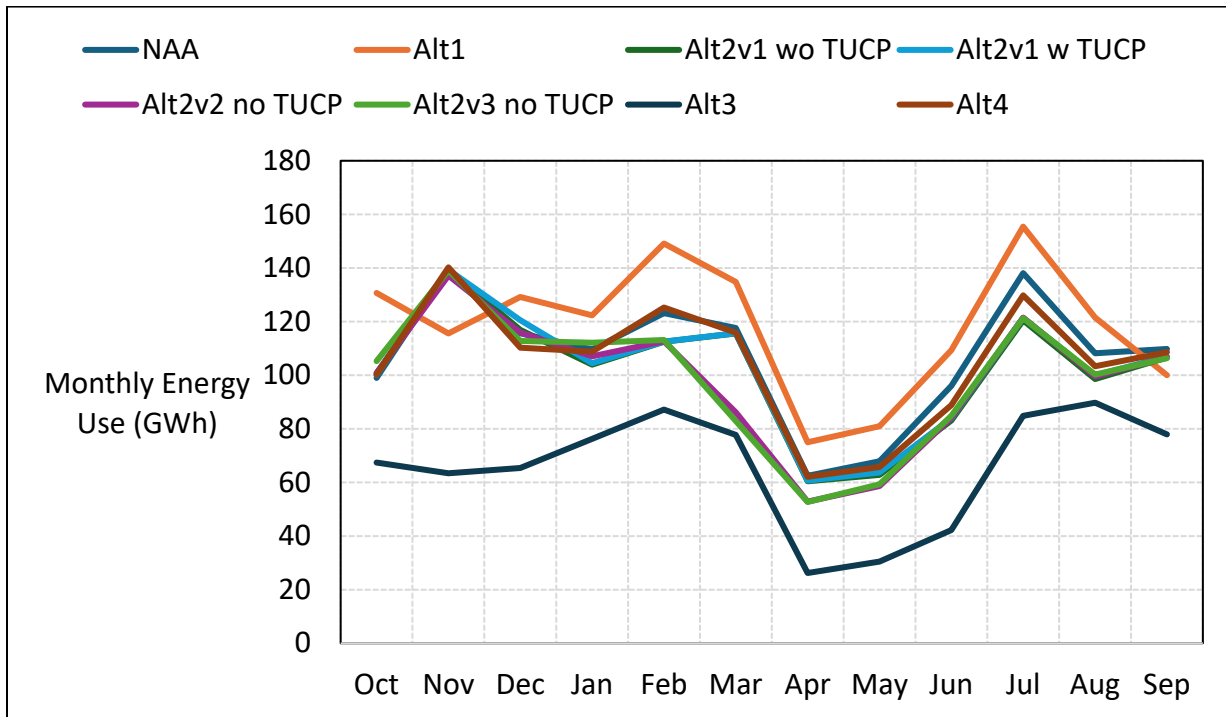Figure 3-5. CVP Total Energy Use, Dry Year Average Energy Use



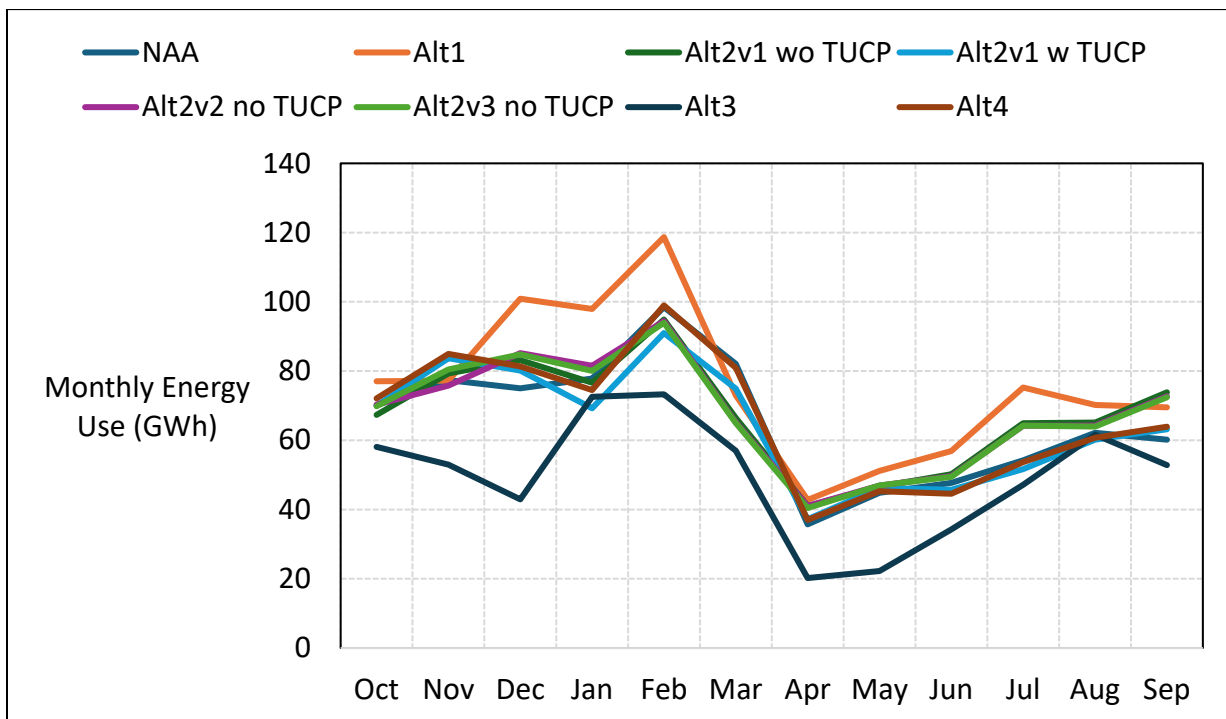Figure 3-6. CVP Total Energy Use, Critical Year Average Energy Use
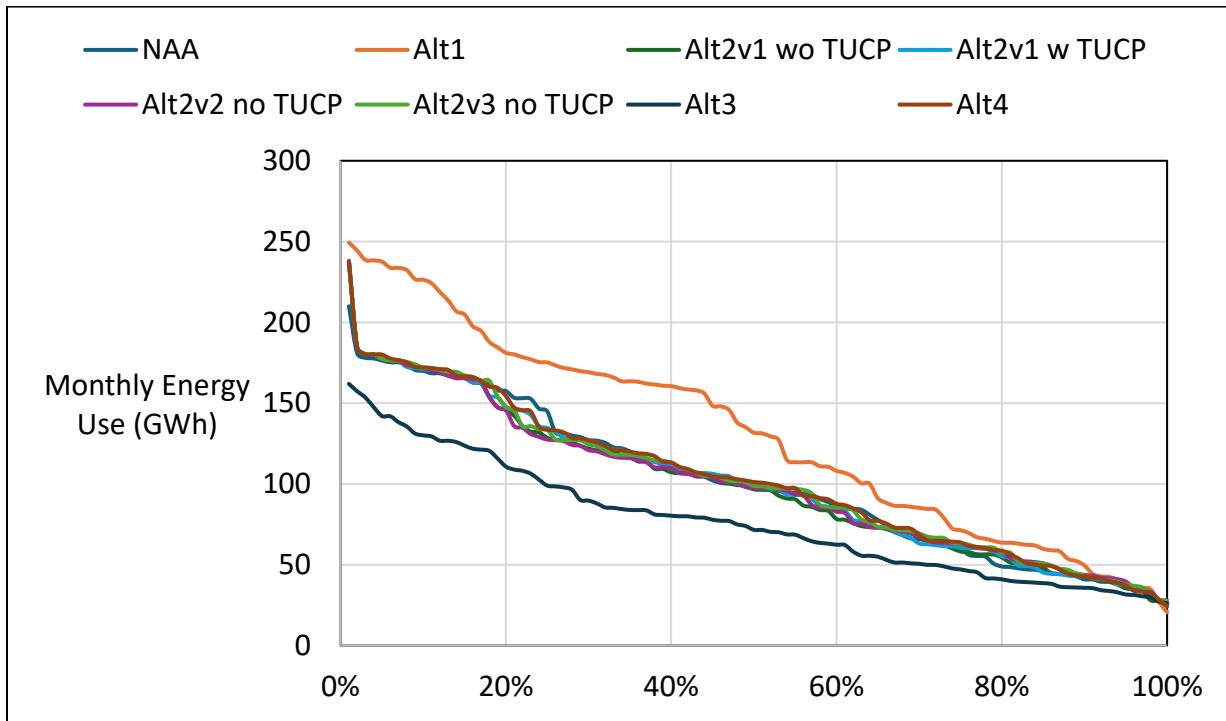
Figure 3-7. CVP Total Energy Use, October



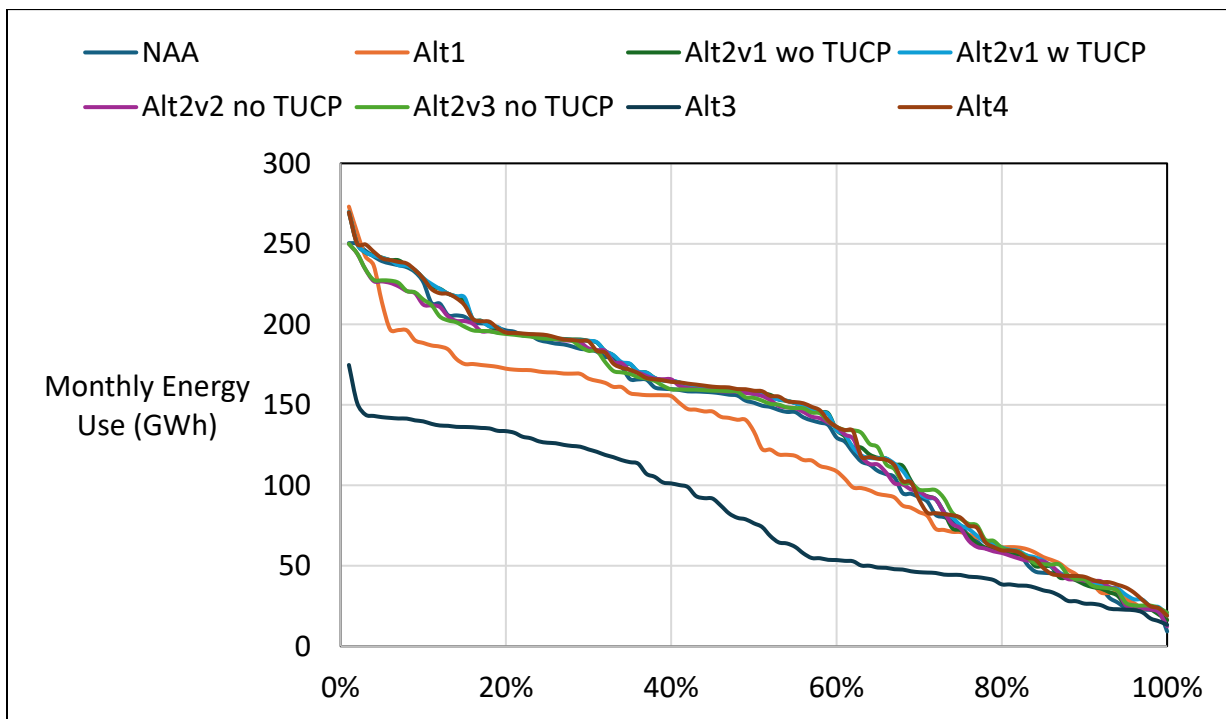Figure 3-8. CVP Total Energy Use, November

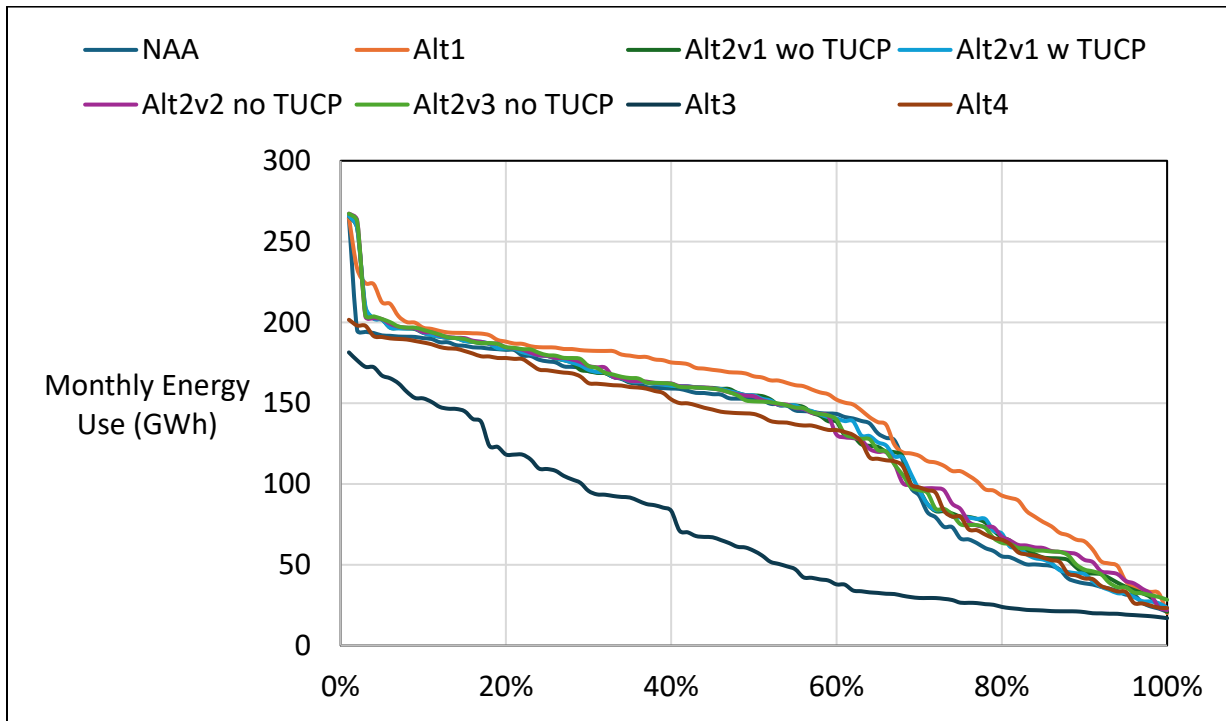Figure 3-9. CVP Total Energy Use, December


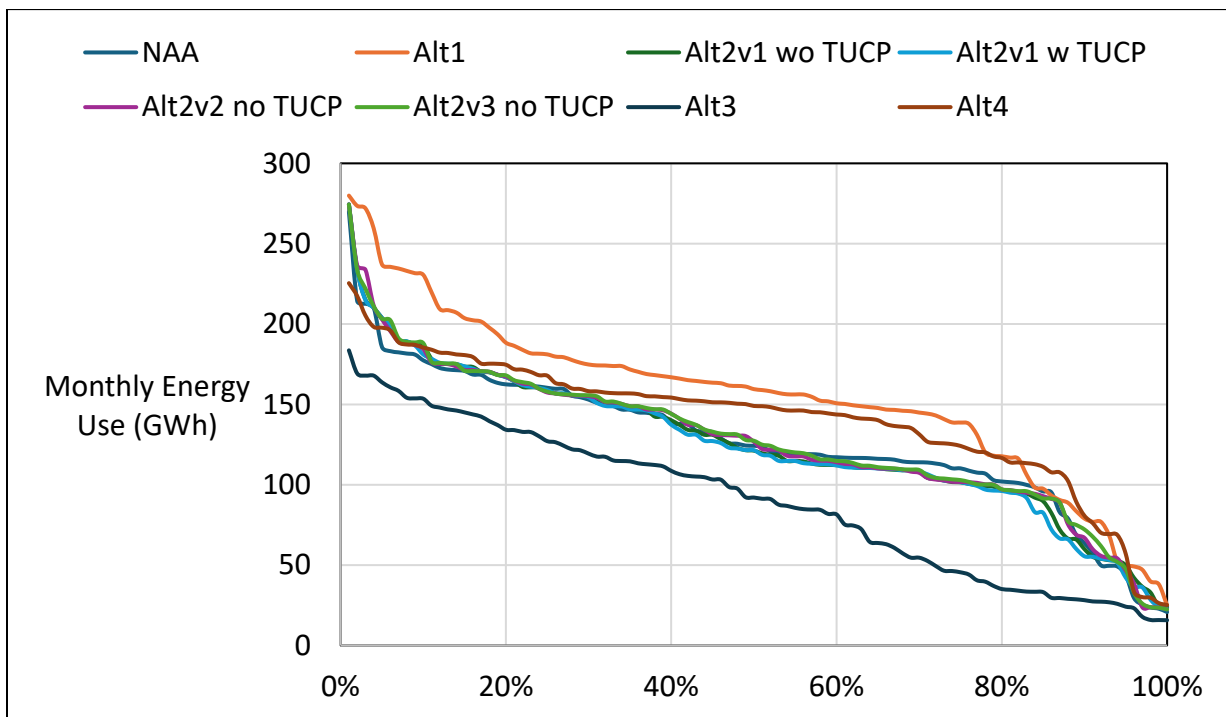
Figure 3-10. CVP Total Energy Use, January

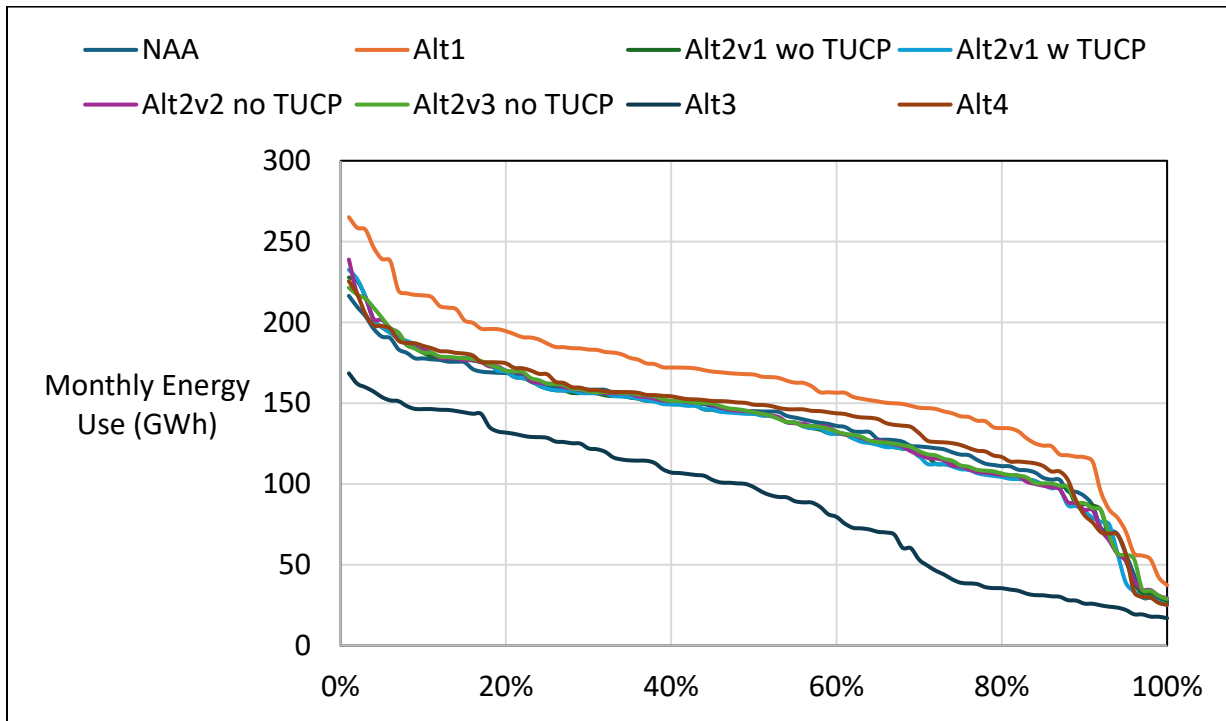Figure 3-11. CVP Total Energy Use, February

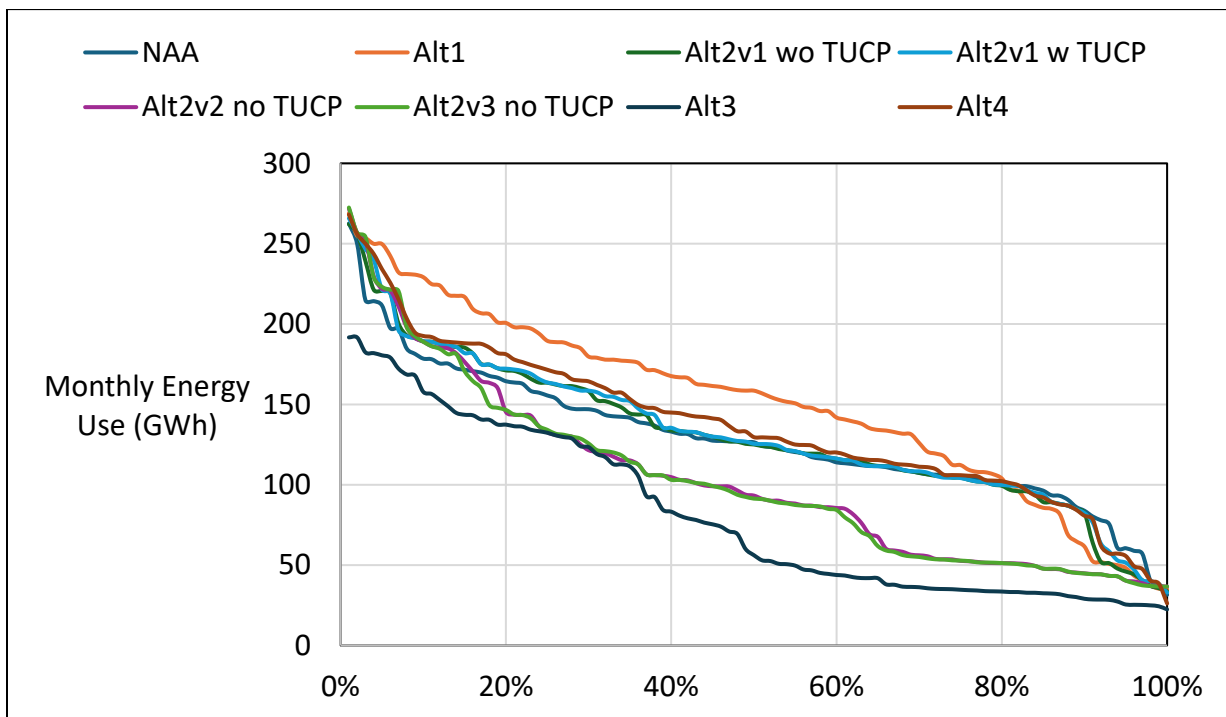

Figure 3-12. CVP Total Energy Use, March

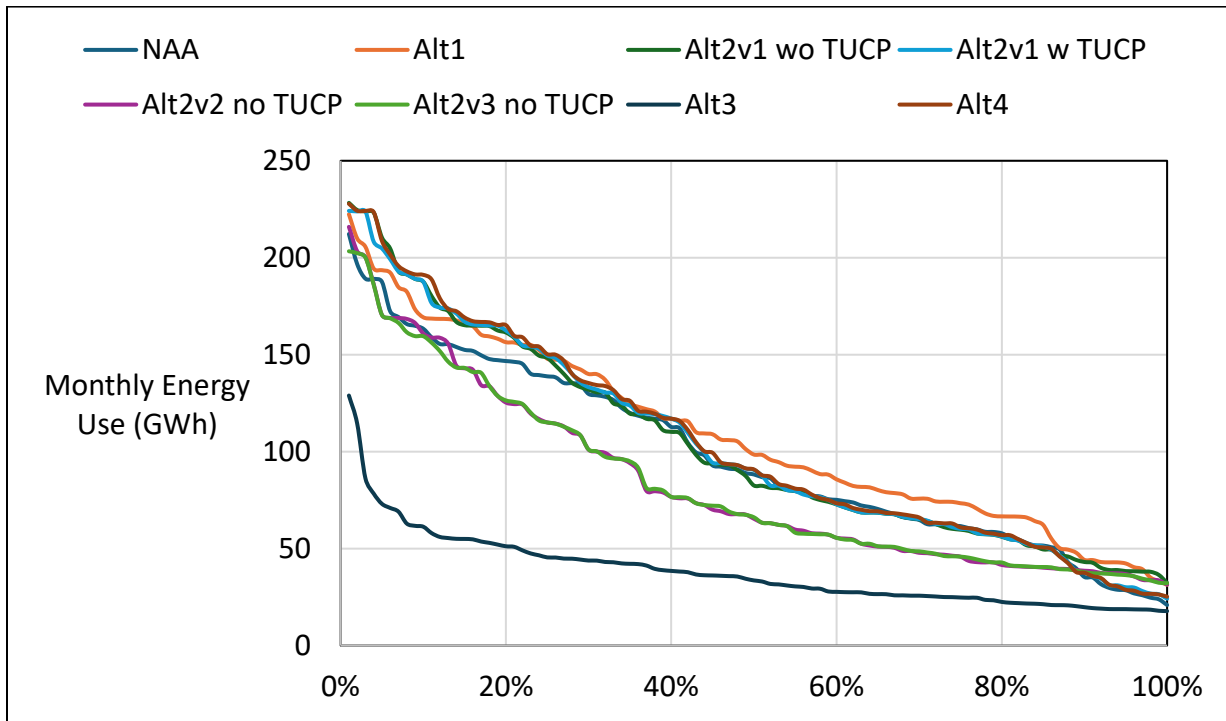Figure 3-13. CVP Total Energy Use, April



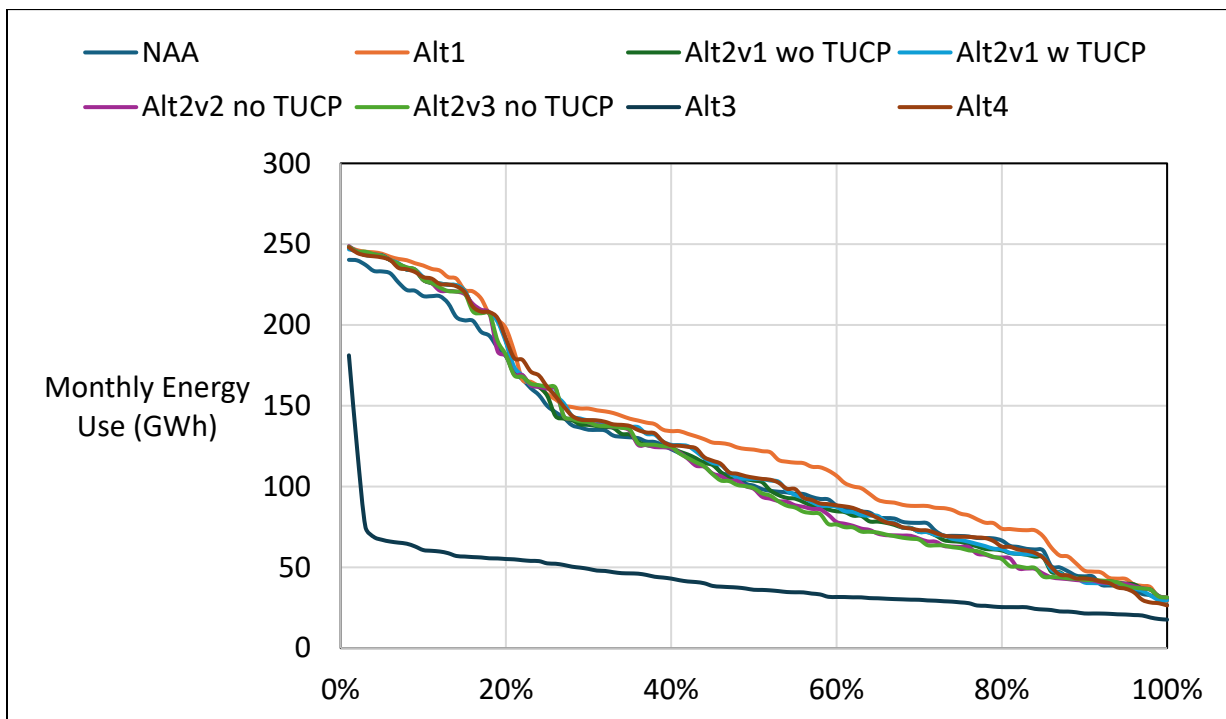Figure 3-14. CVP Total Energy Use, May
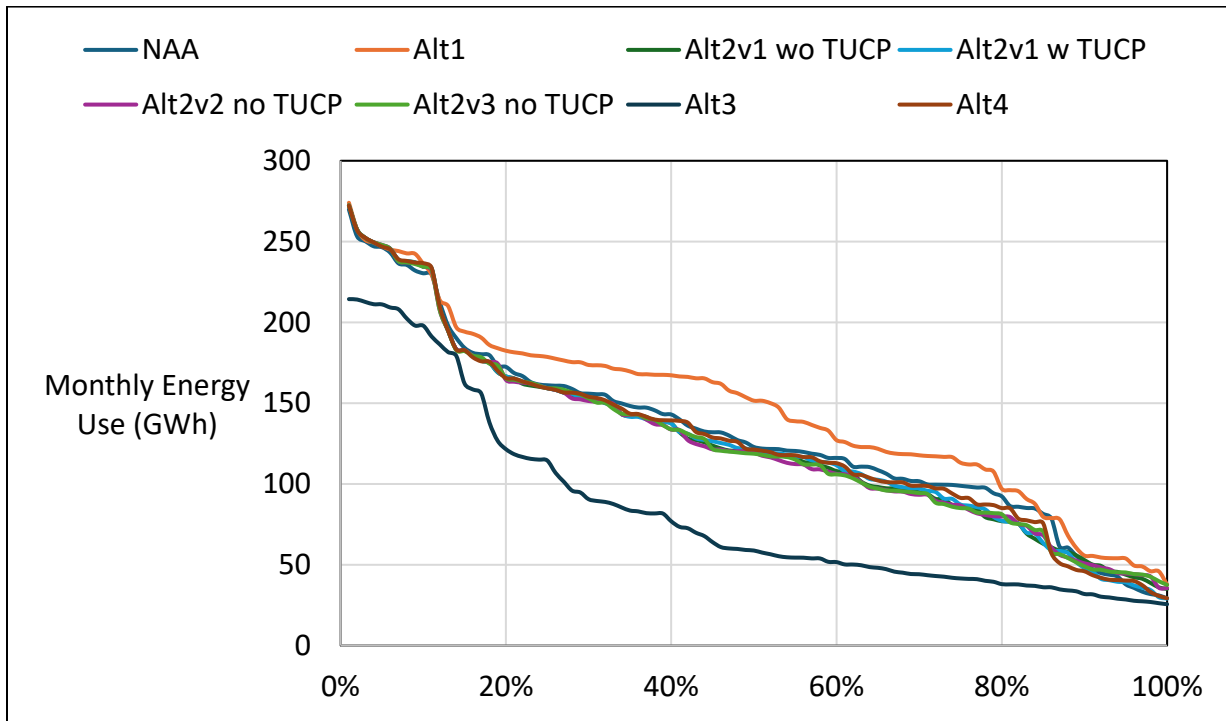
Figure 3-15. CVP Total Energy Use, June



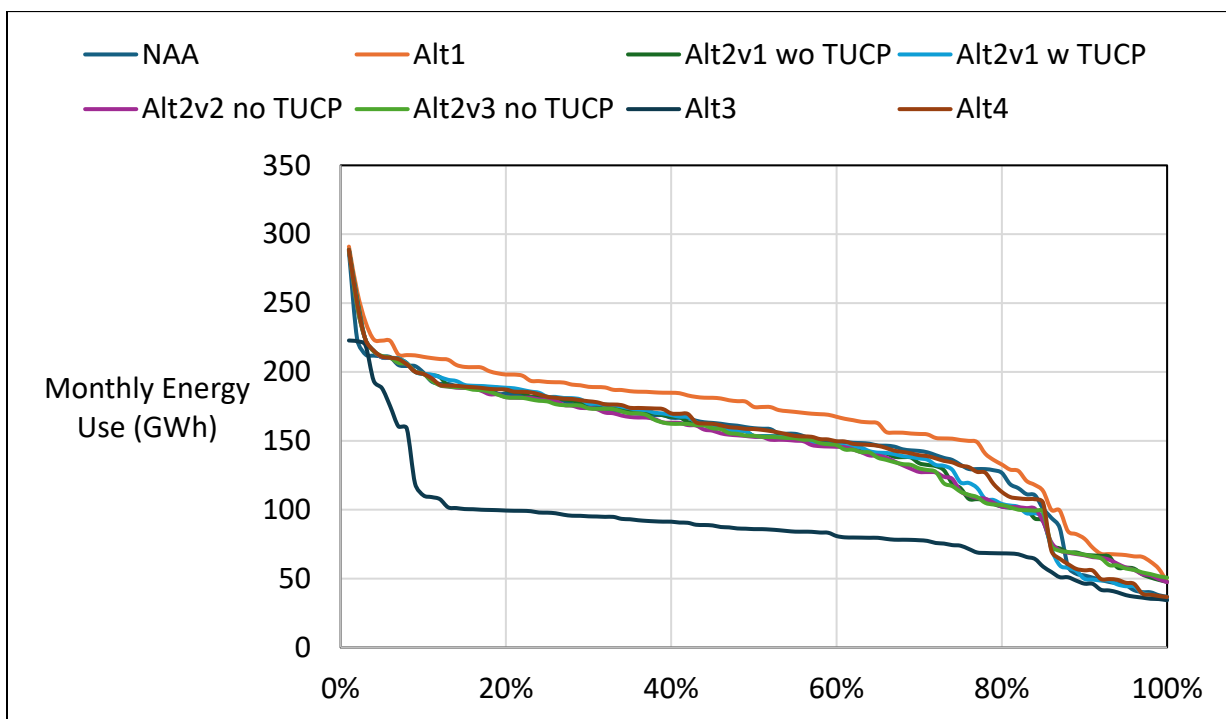Figure 3-16. CVP Total Energy Use, July
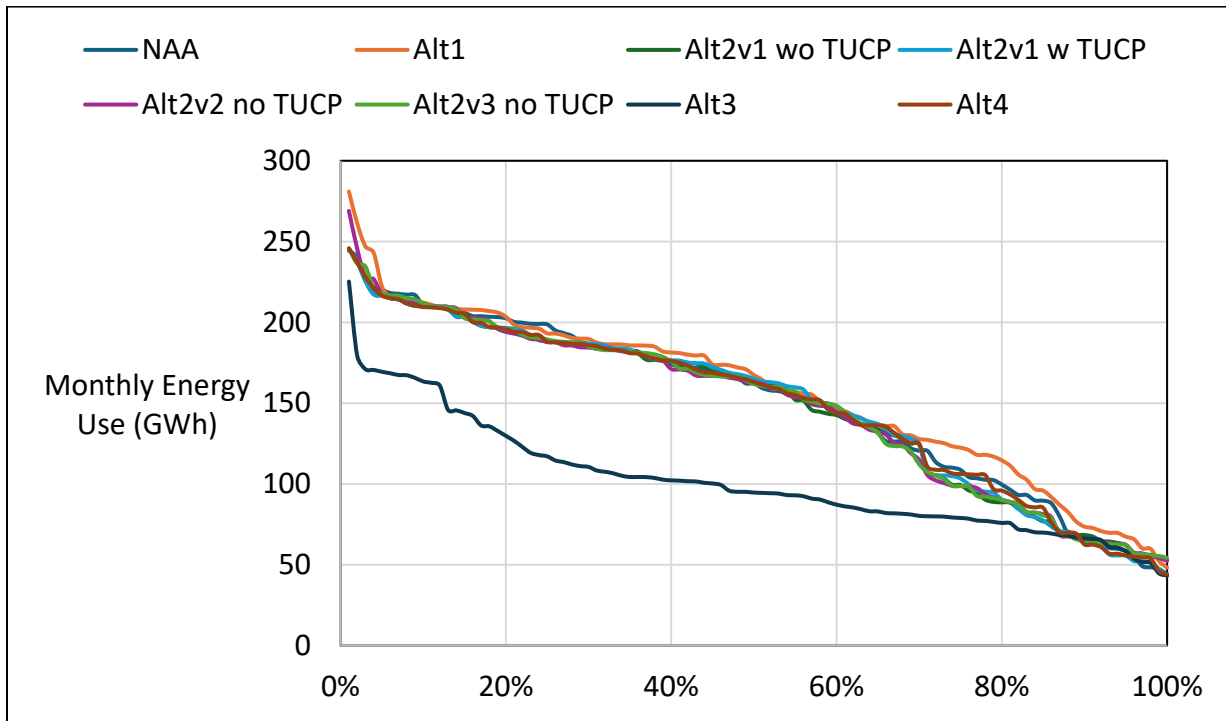
## Figure 3-17. CVP Total Energy Use, August



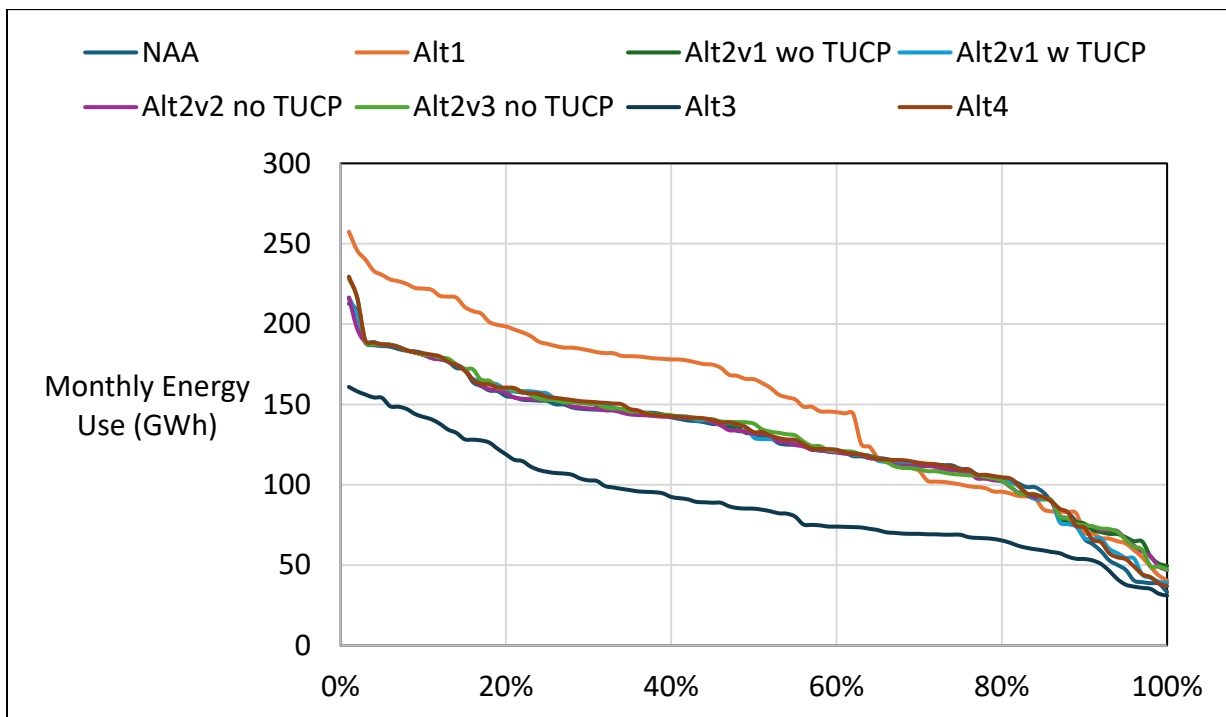## Figure 3-18. CVP Total Energy Use, September

Table 4-1. CVP Net Generation, Monthly Generation

**NAA**

| Statistic | Monthly Net Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 264 | 158 | 526 | 578 | 570 | 534 | 356 | 434 | 465 | 625 | 437 | 324 |
| 20% | 223 | 117 | 187 | 404 | 493 | 398 | 284 | 403 | 448 | 567 | 413 | 297 |
| 30% | 202 | 102 | 105 | 229 | 257 | 218 | 238 | 383 | 417 | 535 | 379 | 272 |
| 40% | 176 | 79 | 92 | 122 | 139 | 136 | 214 | 369 | 382 | 517 | 368 | 222 |
| 50% | 162 | 65 | 71 | 79 | 84 | 92 | 190 | 350 | 346 | 494 | 350 | 189 |
| 60% | 146 | 50 | 53 | 51 | 61 | 78 | 175 | 332 | 322 | 451 | 320 | 167 |
| 70% | 128 | 33 | 31 | 42 | 40 | 62 | 159 | 294 | 302 | 416 | 302 | 149 |
| 80% | 103 | 11 | 12 | 29 | 12 | 50 | 135 | 279 | 273 | 388 | 261 | 120 |
| 90% | 75 | -10 | -19 | 8 | -10 | 24 | 117 | 245 | 239 | 301 | 226 | 90 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 164 | 80 | 139 | 195 | 200 | 204 | 221 | 349 | 354 | 477 | 341 | 208 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 171 | 109 | 303 | 401 | 424 | 409 | 278 | 358 | 312 | 497 | 367 | 296 |
| Above Normal (12%) | 183 | 49 | 55 | 250 | 218 | 215 | 190 | 398 | 350 | 539 | 364 | 281 |
| Below Normal (24%) | 169 | 58 | 85 | 78 | 105 | 104 | 194 | 368 | 381 | 508 | 351 | 152 |
| Dry (17%) | 169 | 74 | 46 | 47 | 29 | 83 | 224 | 350 | 437 | 495 | 350 | 157 |
| Critical (15%) | 120 | 83 | 46 | 67 | 55 | 57 | 165 | 260 | 307 | 316 | 240 | 108 |

**Alt1**

| Statistic | Monthly Net Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 232 | 152 | 506 | 554 | 543 | 524 | 334 | 443 | 496 | 583 | 434 | 256 |
| 20% | 175 | 126 | 234 | 383 | 451 | 360 | 289 | 416 | 471 | 550 | 382 | 210 |
| 30% | 157 | 107 | 122 | 244 | 244 | 209 | 245 | 395 | 455 | 522 | 362 | 190 |
| 40% | 144 | 90 | 79 | 123 | 130 | 133 | 222 | 374 | 426 | 499 | 342 | 172 |
| 50% | 124 | 76 | 61 | 68 | 80 | 101 | 197 | 358 | 375 | 484 | 331 | 159 |
| 60% | 116 | 64 | 40 | 39 | 44 | 80 | 177 | 337 | 342 | 450 | 312 | 142 |
| 70% | 97 | 49 | 8 | 21 | 25 | 31 | 150 | 298 | 321 | 426 | 291 | 127 |

| Statistic | Monthly Net Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| 80% | 82 | 21 | -1 | 4 | -1 | 4 | 132 | 270 | 280 | 394 | 254 | 109 |
| 90% | 47 | -6 | -26 | -19 | -28 | -27 | 111 | 242 | 246 | 335 | 230 | 81 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 131 | 87 | 136 | 179 | 187 | 185 | 220 | 352 | 377 | 470 | 326 | 169 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 145 | 116 | 316 | 386 | 408 | 386 | 264 | 361 | 345 | 490 | 344 | 228 |
| Above Normal (12%) | 114 | 74 | 60 | 226 | 208 | 169 | 179 | 401 | 369 | 514 | 313 | 152 |
| Below Normal (24%) | 134 | 66 | 79 | 58 | 105 | 79 | 194 | 368 | 410 | 485 | 350 | 144 |
| Dry (17%) | 125 | 86 | 28 | 37 | 16 | 62 | 227 | 351 | 451 | 481 | 351 | 165 |
| Critical (15%) | 115 | 73 | 28 | 52 | 23 | 77 | 194 | 271 | 314 | 355 | 227 | 97 |

**Alt1 minus NAA**

| Statistic | Monthly Net Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | -32 | -5 | -20 | -24 | -27 | -10 | -22 | 9 | 31 | -42 | -3 | -68 |
| 20% | -47 | 8 | 47 | -20 | -42 | -38 | 4 | 13 | 24 | -16 | -31 | -87 |
| 30% | -45 | 5 | 17 | 14 | -13 | -9 | 7 | 12 | 38 | -13 | -17 | -82 |
| 40% | -32 | 11 | -13 | 1 | -9 | -3 | 8 | 5 | 44 | -18 | -26 | -51 |
| 50% | -38 | 11 | -9 | -11 | -4 | 9 | 7 | 8 | 29 | -11 | -19 | -30 |
| 60% | -30 | 15 | -13 | -13 | -17 | 2 | 2 | 5 | 21 | -1 | -9 | -26 |
| 70% | -31 | 16 | -23 | -21 | -15 | -31 | -9 | 4 | 19 | 10 | -11 | -22 |
| 80% | -20 | 10 | -13 | -25 | -13 | -45 | -3 | -9 | 7 | 6 | -8 | -11 |
| 90% | -28 | 4 | -7 | -27 | -18 | -51 | -6 | -3 | 7 | 34 | 4 | -9 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | -33 | 7 | -2 | -16 | -14 | -20 | -1 | 3 | 23 | -8 | -15 | -39 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | -26 | 6 | 13 | -15 | -16 | -23 | -14 | 3 | 32 | -8 | -23 | -67 |
| Above Normal (12%) | -69 | 25 | 5 | -24 | -10 | -46 | -11 | 2 | 19 | -25 | -52 | -129 |
| Below Normal (24%) | -34 | 8 | -6 | -20 | -1 | -25 | 1 | 0 | 29 | -23 | 0 | -8 |
| Dry (17%) | -44 | 12 | -18 | -10 | -13 | -21 | 3 | 1 | 15 | -15 | 1 | 8 |
| Critical (15%) | -5 | -10 | -17 | -14 | -32 | 20 | 28 | 11 | 7 | 39 | -12 | -10 |

Table 4-2. CVP Net Generation, Monthly Generation

**NAA**

| Statistic | Monthly Net Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 264 | 158 | 526 | 578 | 570 | 534 | 356 | 434 | 465 | 625 | 437 | 324 |
| 20% | 223 | 117 | 187 | 404 | 493 | 398 | 284 | 403 | 448 | 567 | 413 | 297 |
| 30% | 202 | 102 | 105 | 229 | 257 | 218 | 238 | 383 | 417 | 535 | 379 | 272 |
| 40% | 176 | 79 | 92 | 122 | 139 | 136 | 214 | 369 | 382 | 517 | 368 | 222 |
| 50% | 162 | 65 | 71 | 79 | 84 | 92 | 190 | 350 | 346 | 494 | 350 | 189 |
| 60% | 146 | 50 | 53 | 51 | 61 | 78 | 175 | 332 | 322 | 451 | 320 | 167 |
| 70% | 128 | 33 | 31 | 42 | 40 | 62 | 159 | 294 | 302 | 416 | 302 | 149 |
| 80% | 103 | 11 | 12 | 29 | 12 | 50 | 135 | 279 | 273 | 388 | 261 | 120 |
| 90% | 75 | -10 | -19 | 8 | -10 | 24 | 117 | 245 | 239 | 301 | 226 | 90 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 164 | 80 | 139 | 195 | 200 | 204 | 221 | 349 | 354 | 477 | 341 | 208 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 171 | 109 | 303 | 401 | 424 | 409 | 278 | 358 | 312 | 497 | 367 | 296 |
| Above Normal (12%) | 183 | 49 | 55 | 250 | 218 | 215 | 190 | 398 | 350 | 539 | 364 | 281 |
| Below Normal (24%) | 169 | 58 | 85 | 78 | 105 | 104 | 194 | 368 | 381 | 508 | 351 | 152 |
| Dry (17%) | 169 | 74 | 46 | 47 | 29 | 83 | 224 | 350 | 437 | 495 | 350 | 157 |
| Critical (15%) | 120 | 83 | 46 | 67 | 55 | 57 | 165 | 260 | 307 | 316 | 240 | 108 |

**Alt2v1 wo TUCP**

| Statistic | Monthly Net Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 266 | 158 | 526 | 559 | 573 | 526 | 335 | 458 | 492 | 626 | 454 | 322 |
| 20% | 230 | 123 | 196 | 403 | 483 | 383 | 273 | 426 | 458 | 570 | 416 | 295 |
| 30% | 201 | 108 | 122 | 229 | 256 | 220 | 236 | 388 | 432 | 547 | 392 | 247 |
| 40% | 175 | 87 | 91 | 157 | 152 | 141 | 214 | 371 | 387 | 523 | 365 | 213 |
| 50% | 159 | 73 | 71 | 83 | 92 | 112 | 195 | 355 | 353 | 500 | 345 | 183 |
| 60% | 149 | 53 | 53 | 60 | 66 | 85 | 181 | 342 | 334 | 461 | 323 | 167 |
| 70% | 135 | 41 | 26 | 43 | 43 | 61 | 156 | 299 | 312 | 429 | 296 | 136 |

| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Monthly Net Generation (GWh) | | | | | | | | | | | | |
| 80% | 107 | 19 | 4 | 29 | 21 | 46 | 138 | 267 | 281 | 401 | 242 | 103 |
| 90% | 83 | -16 | -20 | 3 | 5 | 19 | 116 | 220 | 237 | 316 | 209 | 76 |
| **Long Term** | | | | | | | | | | | | |
| Full Simulation Period | 168 | 84 | 139 | 197 | 206 | 201 | 217 | 351 | 363 | 484 | 337 | 198 |
| **Water Year Types** | | | | | | | | | | | | |
| Wet (32%) | 174 | 113 | 308 | 404 | 418 | 394 | 260 | 354 | 320 | 503 | 375 | 285 |
| Above Normal (12%) | 187 | 53 | 44 | 234 | 218 | 181 | 179 | 392 | 362 | 538 | 362 | 272 |
| Below Normal (24%) | 173 | 59 | 82 | 84 | 125 | 103 | 193 | 382 | 390 | 514 | 343 | 149 |
| Dry (17%) | 172 | 74 | 48 | 50 | 41 | 83 | 225 | 368 | 454 | 511 | 352 | 154 |
| Critical (15%) | 132 | 97 | 45 | 70 | 59 | 98 | 183 | 243 | 309 | 325 | 206 | 79 |

**Alt2v1 wo TUCP minus NAA**

| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Monthly Net Generation (GWh) | | | | | | | | | | | | |
| **Probability of Exceedance** | | | | | | | | | | | | |
| 10% | 2 | 1 | 0 | -18 | 3 | -8 | -21 | 24 | 27 | 1 | 17 | -2 |
| 20% | 8 | 6 | 9 | -1 | -11 | -15 | -11 | 23 | 10 | 3 | 3 | -2 |
| 30% | -1 | 6 | 17 | 0 | -1 | 2 | -2 | 6 | 15 | 12 | 12 | -24 |
| 40% | -1 | 8 | -1 | 35 | 12 | 5 | 1 | 2 | 5 | 6 | -3 | -9 |
| 50% | -2 | 8 | 0 | 5 | 7 | 20 | 5 | 5 | 6 | 5 | -4 | -6 |
| 60% | 3 | 4 | 0 | 8 | 5 | 7 | 6 | 10 | 13 | 10 | 2 | -1 |
| 70% | 7 | 8 | -4 | 1 | 4 | -1 | -3 | 5 | 9 | 13 | -7 | -12 |
| 80% | 5 | 7 | -8 | 1 | 9 | -3 | 3 | -12 | 8 | 13 | -20 | -17 |
| 90% | 8 | -6 | -1 | -5 | 14 | -5 | -2 | -25 | -2 | 15 | -17 | -14 |
| **Long Term** | | | | | | | | | | | | |
| Full Simulation Period | 5 | 4 | 0 | 2 | 5 | -3 | -4 | 2 | 10 | 7 | -4 | -10 |
| **Water Year Types** | | | | | | | | | | | | |
| Wet (32%) | 3 | 4 | 6 | 3 | -7 | -15 | -18 | -3 | 8 | 6 | 8 | -10 |
| Above Normal (12%) | 4 | 5 | -11 | -16 | 1 | -33 | -11 | -6 | 12 | -1 | -2 | -10 |
| Below Normal (24%) | 4 | 1 | -3 | 7 | 20 | -1 | 0 | 13 | 9 | 7 | -7 | -3 |
| Dry (17%) | 3 | 0 | 3 | 3 | 11 | 0 | 1 | 18 | 18 | 15 | 2 | -3 |
| Critical (15%) | 12 | 14 | -1 | 3 | 4 | 41 | 18 | -16 | 2 | 9 | -34 | -29 |

Table 4-3. CVP Net Generation, Monthly Generation

**NAA**

| Statistic | Monthly Net Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 264 | 158 | 526 | 578 | 570 | 534 | 356 | 434 | 465 | 625 | 437 | 324 |
| 20% | 223 | 117 | 187 | 404 | 493 | 398 | 284 | 403 | 448 | 567 | 413 | 297 |
| 30% | 202 | 102 | 105 | 229 | 257 | 218 | 238 | 383 | 417 | 535 | 379 | 272 |
| 40% | 176 | 79 | 92 | 122 | 139 | 136 | 214 | 369 | 382 | 517 | 368 | 222 |
| 50% | 162 | 65 | 71 | 79 | 84 | 92 | 190 | 350 | 346 | 494 | 350 | 189 |
| 60% | 146 | 50 | 53 | 51 | 61 | 78 | 175 | 332 | 322 | 451 | 320 | 167 |
| 70% | 128 | 33 | 31 | 42 | 40 | 62 | 159 | 294 | 302 | 416 | 302 | 149 |
| 80% | 103 | 11 | 12 | 29 | 12 | 50 | 135 | 279 | 273 | 388 | 261 | 120 |
| 90% | 75 | -10 | -19 | 8 | -10 | 24 | 117 | 245 | 239 | 301 | 226 | 90 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 164 | 80 | 139 | 195 | 200 | 204 | 221 | 349 | 354 | 477 | 341 | 208 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 171 | 109 | 303 | 401 | 424 | 409 | 278 | 358 | 312 | 497 | 367 | 296 |
| Above Normal (12%) | 183 | 49 | 55 | 250 | 218 | 215 | 190 | 398 | 350 | 539 | 364 | 281 |
| Below Normal (24%) | 169 | 58 | 85 | 78 | 105 | 104 | 194 | 368 | 381 | 508 | 351 | 152 |
| Dry (17%) | 169 | 74 | 46 | 47 | 29 | 83 | 224 | 350 | 437 | 495 | 350 | 157 |
| Critical (15%) | 120 | 83 | 46 | 67 | 55 | 57 | 165 | 260 | 307 | 316 | 240 | 108 |

**Alt2v1 w TUCP**

| Statistic | Monthly Net Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 267 | 155 | 526 | 559 | 572 | 525 | 335 | 458 | 492 | 625 | 453 | 319 |
| 20% | 230 | 126 | 196 | 403 | 484 | 387 | 273 | 422 | 458 | 570 | 416 | 295 |
| 30% | 201 | 107 | 117 | 230 | 256 | 200 | 233 | 388 | 432 | 547 | 393 | 247 |
| 40% | 177 | 83 | 93 | 163 | 146 | 128 | 209 | 370 | 387 | 524 | 367 | 213 |
| 50% | 160 | 74 | 71 | 91 | 91 | 99 | 192 | 355 | 353 | 500 | 348 | 182 |
| 60% | 149 | 57 | 53 | 61 | 66 | 77 | 174 | 334 | 331 | 469 | 329 | 167 |
| 70% | 135 | 43 | 31 | 47 | 50 | 59 | 145 | 294 | 307 | 429 | 300 | 142 |

| Statistic | Monthly Net Generation (GWh) | | | | | | | | | | | |
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 80% | 115 | 19 | 7 | 32 | 23 | 46 | 125 | 270 | 276 | 399 | 242 | 118 |
| 90% | 88 | -16 | -19 | 10 | 5 | 26 | 102 | 223 | 235 | 308 | 212 | 99 |
| **Long Term** | | | | | | | | | | | | |
| Full Simulation Period | 170 | 85 | 141 | 202 | 206 | 199 | 212 | 350 | 362 | 485 | 341 | 203 |
| **Water Year Types** | | | | | | | | | | | | |
| Wet (32%) | 173 | 113 | 309 | 410 | 418 | 393 | 261 | 354 | 320 | 503 | 375 | 285 |
| Above Normal (12%) | 186 | 55 | 44 | 237 | 218 | 201 | 178 | 390 | 362 | 538 | 364 | 276 |
| Below Normal (24%) | 181 | 63 | 86 | 86 | 127 | 107 | 191 | 381 | 390 | 516 | 351 | 151 |
| Dry (17%) | 172 | 74 | 45 | 49 | 44 | 83 | 226 | 369 | 454 | 510 | 353 | 155 |
| Critical (15%) | 134 | 95 | 53 | 91 | 56 | 64 | 152 | 239 | 302 | 328 | 218 | 106 |

**Alt2v1 w TUCP minus NAA**

| Statistic | Monthly Net Generation (GWh) | | | | | | | | | | | |
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Probability of Exceedance** | | | | | | | | | | | | |
| 10% | 2 | -2 | 0 | -19 | 2 | -9 | -22 | 24 | 27 | 0 | 17 | -5 |
| 20% | 7 | 9 | 9 | -1 | -9 | -11 | -12 | 19 | 10 | 3 | 3 | -2 |
| 30% | -1 | 5 | 12 | 1 | -1 | -19 | -5 | 5 | 15 | 12 | 13 | -24 |
| 40% | 2 | 4 | 1 | 42 | 7 | -8 | -4 | 1 | 5 | 6 | -1 | -9 |
| 50% | -2 | 9 | 0 | 12 | 7 | 7 | 2 | 5 | 7 | 5 | -2 | -7 |
| 60% | 3 | 7 | 0 | 9 | 4 | -1 | -1 | 1 | 9 | 18 | 9 | -1 |
| 70% | 7 | 9 | 1 | 5 | 10 | -3 | -14 | 0 | 4 | 13 | -3 | -7 |
| 80% | 13 | 8 | -6 | 4 | 11 | -3 | -10 | -9 | 3 | 11 | -19 | -2 |
| 90% | 14 | -6 | 0 | 3 | 14 | 2 | -15 | -22 | -4 | 6 | -14 | 8 |
| **Long Term** | | | | | | | | | | | | |
| Full Simulation Period | 7 | 5 | 2 | 7 | 6 | -5 | -9 | 1 | 8 | 8 | 0 | -5 |
| **Water Year Types** | | | | | | | | | | | | |
| Wet (32%) | 3 | 4 | 7 | 9 | -6 | -16 | -17 | -4 | 8 | 6 | 8 | -11 |
| Above Normal (12%) | 3 | 6 | -11 | -13 | 0 | -14 | -12 | -8 | 12 | -1 | -1 | -5 |
| Below Normal (24%) | 12 | 5 | 0 | 8 | 22 | 3 | -3 | 13 | 9 | 9 | 0 | -1 |
| Dry (17%) | 3 | 0 | 0 | 2 | 15 | 0 | 2 | 19 | 17 | 14 | 3 | -2 |
| Critical (15%) | 14 | 12 | 8 | 24 | 1 | 7 | -13 | -20 | -5 | 12 | -22 | -2 |

Table 4-4. CVP Net Generation, Monthly Generation

**NAA**

| Statistic | Monthly Net Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 264 | 158 | 526 | 578 | 570 | 534 | 356 | 434 | 465 | 625 | 437 | 324 |
| 20% | 223 | 117 | 187 | 404 | 493 | 398 | 284 | 403 | 448 | 567 | 413 | 297 |
| 30% | 202 | 102 | 105 | 229 | 257 | 218 | 238 | 383 | 417 | 535 | 379 | 272 |
| 40% | 176 | 79 | 92 | 122 | 139 | 136 | 214 | 369 | 382 | 517 | 368 | 222 |
| 50% | 162 | 65 | 71 | 79 | 84 | 92 | 190 | 350 | 346 | 494 | 350 | 189 |
| 60% | 146 | 50 | 53 | 51 | 61 | 78 | 175 | 332 | 322 | 451 | 320 | 167 |
| 70% | 128 | 33 | 31 | 42 | 40 | 62 | 159 | 294 | 302 | 416 | 302 | 149 |
| 80% | 103 | 11 | 12 | 29 | 12 | 50 | 135 | 279 | 273 | 388 | 261 | 120 |
| 90% | 75 | -10 | -19 | 8 | -10 | 24 | 117 | 245 | 239 | 301 | 226 | 90 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 164 | 80 | 139 | 195 | 200 | 204 | 221 | 349 | 354 | 477 | 341 | 208 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 171 | 109 | 303 | 401 | 424 | 409 | 278 | 358 | 312 | 497 | 367 | 296 |
| Above Normal (12%) | 183 | 49 | 55 | 250 | 218 | 215 | 190 | 398 | 350 | 539 | 364 | 281 |
| Below Normal (24%) | 169 | 58 | 85 | 78 | 105 | 104 | 194 | 368 | 381 | 508 | 351 | 152 |
| Dry (17%) | 169 | 74 | 46 | 47 | 29 | 83 | 224 | 350 | 437 | 495 | 350 | 157 |
| Critical (15%) | 120 | 83 | 46 | 67 | 55 | 57 | 165 | 260 | 307 | 316 | 240 | 108 |

**Alt2v2 no TUCP**

| Statistic | Monthly Net Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 270 | 158 | 527 | 560 | 568 | 522 | 356 | 469 | 488 | 620 | 453 | 325 |
| 20% | 233 | 127 | 214 | 398 | 483 | 430 | 291 | 427 | 457 | 578 | 424 | 299 |
| 30% | 204 | 118 | 112 | 230 | 257 | 268 | 247 | 390 | 430 | 549 | 390 | 252 |
| 40% | 173 | 95 | 94 | 143 | 139 | 170 | 228 | 380 | 395 | 527 | 365 | 212 |
| 50% | 160 | 76 | 67 | 80 | 88 | 139 | 211 | 356 | 347 | 499 | 346 | 181 |
| 60% | 149 | 66 | 46 | 57 | 67 | 125 | 191 | 339 | 331 | 457 | 323 | 169 |
| 70% | 140 | 43 | 26 | 41 | 39 | 106 | 177 | 303 | 310 | 437 | 294 | 137 |

| | Monthly Net Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| 80% | 111 | 18 | 3 | 29 | 24 | 73 | 164 | 264 | 277 | 410 | 237 | 105 |
| 90% | 85 | -14 | -20 | 1 | 2 | 45 | 132 | 224 | 237 | 325 | 213 | 75 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 168 | 88 | 137 | 194 | 204 | 230 | 234 | 352 | 363 | 489 | 337 | 198 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 174 | 114 | 307 | 405 | 416 | 404 | 297 | 351 | 319 | 505 | 376 | 286 |
| Above Normal (12%) | 186 | 53 | 44 | 232 | 216 | 250 | 213 | 399 | 356 | 540 | 367 | 275 |
| Below Normal (24%) | 172 | 68 | 81 | 80 | 123 | 155 | 200 | 384 | 391 | 518 | 343 | 150 |
| Dry (17%) | 171 | 82 | 47 | 49 | 42 | 111 | 225 | 368 | 455 | 515 | 349 | 152 |
| Critical (15%) | 132 | 96 | 42 | 64 | 53 | 99 | 182 | 245 | 310 | 336 | 206 | 76 |

**Alt2v2 no TUCP minus NAA**

| | Monthly Net Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 5 | 0 | 1 | -18 | -2 | -12 | 0 | 35 | 23 | -5 | 16 | 0 |
| 20% | 10 | 10 | 27 | -6 | -11 | 32 | 6 | 23 | 10 | 11 | 11 | 2 |
| 30% | 2 | 16 | 7 | 0 | 0 | 50 | 9 | 8 | 12 | 13 | 11 | -20 |
| 40% | -2 | 16 | 2 | 22 | 0 | 34 | 14 | 10 | 13 | 10 | -3 | -11 |
| 50% | -2 | 12 | -4 | 1 | 4 | 47 | 21 | 7 | 1 | 5 | -3 | -8 |
| 60% | 3 | 16 | -7 | 5 | 5 | 47 | 16 | 6 | 9 | 6 | 2 | 2 |
| 70% | 12 | 10 | -4 | -1 | 0 | 43 | 18 | 9 | 7 | 21 | -8 | -12 |
| 80% | 8 | 7 | -9 | 1 | 13 | 23 | 28 | -15 | 5 | 22 | -25 | -16 |
| 90% | 10 | -4 | -1 | -7 | 11 | 21 | 15 | -21 | -1 | 24 | -13 | -15 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 4 | 8 | -1 | -1 | 3 | 26 | 13 | 3 | 9 | 11 | -4 | -10 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 3 | 5 | 4 | 3 | -8 | -5 | 19 | -6 | 7 | 8 | 9 | -10 |
| Above Normal (12%) | 3 | 4 | -11 | -18 | -1 | 36 | 23 | 1 | 6 | 1 | 3 | -6 |
| Below Normal (24%) | 3 | 10 | -4 | 2 | 18 | 51 | 6 | 16 | 10 | 10 | -7 | -2 |
| Dry (17%) | 2 | 8 | 1 | 2 | 13 | 29 | 1 | 18 | 18 | 19 | -2 | -5 |
| Critical (15%) | 12 | 13 | -4 | -3 | -2 | 42 | 17 | -15 | 3 | 20 | -34 | -31 |

Table 4-5. CVP Net Generation, Monthly Generation

**NAA**

| Statistic | Monthly Net Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| **Probability of Exceedance** | | | | | | | | | | | | |
| 10% | 264 | 158 | 526 | 578 | 570 | 534 | 356 | 434 | 465 | 625 | 437 | 324 |
| 20% | 223 | 117 | 187 | 404 | 493 | 398 | 284 | 403 | 448 | 567 | 413 | 297 |
| 30% | 202 | 102 | 105 | 229 | 257 | 218 | 238 | 383 | 417 | 535 | 379 | 272 |
| 40% | 176 | 79 | 92 | 122 | 139 | 136 | 214 | 369 | 382 | 517 | 368 | 222 |
| 50% | 162 | 65 | 71 | 79 | 84 | 92 | 190 | 350 | 346 | 494 | 350 | 189 |
| 60% | 146 | 50 | 53 | 51 | 61 | 78 | 175 | 332 | 322 | 451 | 320 | 167 |
| 70% | 128 | 33 | 31 | 42 | 40 | 62 | 159 | 294 | 302 | 416 | 302 | 149 |
| 80% | 103 | 11 | 12 | 29 | 12 | 50 | 135 | 279 | 273 | 388 | 261 | 120 |
| 90% | 75 | -10 | -19 | 8 | -10 | 24 | 117 | 245 | 239 | 301 | 226 | 90 |
| **Long Term** | | | | | | | | | | | | |
| Full Simulation Period | 164 | 80 | 139 | 195 | 200 | 204 | 221 | 349 | 354 | 477 | 341 | 208 |
| **Water Year Types** | | | | | | | | | | | | |
| Wet (32%) | 171 | 109 | 303 | 401 | 424 | 409 | 278 | 358 | 312 | 497 | 367 | 296 |
| Above Normal (12%) | 183 | 49 | 55 | 250 | 218 | 215 | 190 | 398 | 350 | 539 | 364 | 281 |
| Below Normal (24%) | 169 | 58 | 85 | 78 | 105 | 104 | 194 | 368 | 381 | 508 | 351 | 152 |
| Dry (17%) | 169 | 74 | 46 | 47 | 29 | 83 | 224 | 350 | 437 | 495 | 350 | 157 |
| Critical (15%) | 120 | 83 | 46 | 67 | 55 | 57 | 165 | 260 | 307 | 316 | 240 | 108 |

**Alt2v3 no TUCP**

| Statistic | Monthly Net Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| **Probability of Exceedance** | | | | | | | | | | | | |
| 10% | 262 | 158 | 527 | 560 | 572 | 531 | 377 | 466 | 475 | 615 | 450 | 319 |
| 20% | 223 | 129 | 215 | 398 | 485 | 430 | 292 | 419 | 437 | 572 | 416 | 299 |
| 30% | 204 | 116 | 113 | 232 | 271 | 269 | 262 | 393 | 414 | 538 | 388 | 251 |
| 40% | 172 | 99 | 93 | 141 | 138 | 172 | 238 | 380 | 378 | 519 | 366 | 212 |
| 50% | 162 | 77 | 66 | 76 | 99 | 141 | 224 | 356 | 340 | 496 | 346 | 184 |
| 60% | 147 | 64 | 48 | 54 | 66 | 128 | 204 | 337 | 321 | 463 | 312 | 166 |
| 70% | 135 | 42 | 25 | 40 | 39 | 108 | 186 | 303 | 300 | 429 | 290 | 139 |

| | Monthly Net Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| 80% | 111 | 23 | 9 | 28 | 22 | 74 | 164 | 267 | 275 | 400 | 229 | 107 |
| 90% | 83 | -12 | -20 | -2 | 3 | 37 | 135 | 241 | 237 | 324 | 210 | 75 |
| **Long Term** | | | | | | | | | | | | |
| Full Simulation Period | 167 | 89 | 139 | 194 | 205 | 232 | 244 | 354 | 353 | 483 | 334 | 197 |
| **Water Year Types** | | | | | | | | | | | | |
| Wet (32%) | 173 | 118 | 307 | 405 | 416 | 404 | 302 | 353 | 316 | 504 | 375 | 286 |
| Above Normal (12%) | 181 | 56 | 44 | 235 | 219 | 253 | 238 | 410 | 340 | 531 | 363 | 265 |
| Below Normal (24%) | 172 | 68 | 85 | 81 | 126 | 158 | 213 | 390 | 376 | 509 | 337 | 151 |
| Dry (17%) | 169 | 80 | 50 | 42 | 44 | 117 | 226 | 355 | 436 | 501 | 340 | 154 |
| Critical (15%) | 131 | 95 | 41 | 62 | 53 | 100 | 193 | 251 | 310 | 337 | 213 | 78 |

**Alt2v3 no TUCP minus NAA**

| | Monthly Net Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| **Probability of Exceedance** | | | | | | | | | | | | |
| 10% | -2 | 1 | 1 | -17 | 2 | -2 | 21 | 32 | 10 | -10 | 14 | -6 |
| 20% | 0 | 12 | 28 | -6 | -8 | 32 | 7 | 16 | -10 | 5 | 3 | 2 |
| 30% | 2 | 13 | 8 | 3 | 14 | 50 | 24 | 10 | -3 | 2 | 9 | -20 |
| 40% | -3 | 20 | 1 | 20 | -2 | 36 | 25 | 11 | -4 | 2 | -3 | -10 |
| 50% | 0 | 12 | -5 | -3 | 15 | 49 | 34 | 6 | -6 | 2 | -3 | -5 |
| 60% | 1 | 14 | -5 | 2 | 5 | 50 | 29 | 5 | -1 | 12 | -9 | -2 |
| 70% | 7 | 9 | -6 | -2 | 0 | 45 | 27 | 9 | -2 | 13 | -13 | -10 |
| 80% | 8 | 12 | -3 | -1 | 10 | 25 | 29 | -13 | 2 | 13 | -32 | -14 |
| 90% | 8 | -3 | -1 | -9 | 12 | 13 | 18 | -4 | -1 | 23 | -16 | -15 |
| **Long Term** | | | | | | | | | | | | |
| Full Simulation Period | 3 | 9 | 0 | -1 | 5 | 28 | 23 | 5 | -1 | 6 | -7 | -10 |
| **Water Year Types** | | | | | | | | | | | | |
| Wet (32%) | 2 | 9 | 4 | 4 | -8 | -5 | 24 | -4 | 3 | 7 | 8 | -10 |
| Above Normal (12%) | -2 | 8 | -12 | -15 | 2 | 38 | 48 | 12 | -10 | -8 | -1 | -16 |
| Below Normal (24%) | 3 | 10 | 0 | 3 | 21 | 54 | 19 | 22 | -6 | 1 | -14 | -1 |
| Dry (17%) | 0 | 6 | 4 | -5 | 14 | 34 | 2 | 5 | 0 | 6 | -10 | -3 |
| Critical (15%) | 11 | 12 | -5 | -4 | -2 | 44 | 28 | -9 | 3 | 21 | -26 | -30 |

Table 4-6. CVP Net Generation, Monthly Generation

**NAA**

| | Monthly Net Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 264 | 158 | 526 | 578 | 570 | 534 | 356 | 434 | 465 | 625 | 437 | 324 |
| 20% | 223 | 117 | 187 | 404 | 493 | 398 | 284 | 403 | 448 | 567 | 413 | 297 |
| 30% | 202 | 102 | 105 | 229 | 257 | 218 | 238 | 383 | 417 | 535 | 379 | 272 |
| 40% | 176 | 79 | 92 | 122 | 139 | 136 | 214 | 369 | 382 | 517 | 368 | 222 |
| 50% | 162 | 65 | 71 | 79 | 84 | 92 | 190 | 350 | 346 | 494 | 350 | 189 |
| 60% | 146 | 50 | 53 | 51 | 61 | 78 | 175 | 332 | 322 | 451 | 320 | 167 |
| 70% | 128 | 33 | 31 | 42 | 40 | 62 | 159 | 294 | 302 | 416 | 302 | 149 |
| 80% | 103 | 11 | 12 | 29 | 12 | 50 | 135 | 279 | 273 | 388 | 261 | 120 |
| 90% | 75 | -10 | -19 | 8 | -10 | 24 | 117 | 245 | 239 | 301 | 226 | 90 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 164 | 80 | 139 | 195 | 200 | 204 | 221 | 349 | 354 | 477 | 341 | 208 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 171 | 109 | 303 | 401 | 424 | 409 | 278 | 358 | 312 | 497 | 367 | 296 |
| Above Normal (12%) | 183 | 49 | 55 | 250 | 218 | 215 | 190 | 398 | 350 | 539 | 364 | 281 |
| Below Normal (24%) | 169 | 58 | 85 | 78 | 105 | 104 | 194 | 368 | 381 | 508 | 351 | 152 |
| Dry (17%) | 169 | 74 | 46 | 47 | 29 | 83 | 224 | 350 | 437 | 495 | 350 | 157 |
| Critical (15%) | 120 | 83 | 46 | 67 | 55 | 57 | 165 | 260 | 307 | 316 | 240 | 108 |

**Alt3**

| | Monthly Net Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 298 | 231 | 560 | 599 | 655 | 608 | 481 | 667 | 457 | 613 | 516 | 358 |
| 20% | 260 | 184 | 339 | 435 | 530 | 445 | 373 | 574 | 438 | 583 | 495 | 326 |
| 30% | 225 | 152 | 231 | 309 | 346 | 303 | 307 | 499 | 418 | 566 | 455 | 301 |
| 40% | 204 | 135 | 144 | 188 | 199 | 222 | 283 | 463 | 384 | 539 | 438 | 264 |
| 50% | 188 | 124 | 126 | 137 | 167 | 185 | 261 | 418 | 349 | 514 | 415 | 220 |
| 60% | 171 | 102 | 108 | 108 | 126 | 150 | 243 | 399 | 320 | 491 | 388 | 205 |
| 70% | 151 | 85 | 95 | 84 | 97 | 136 | 225 | 370 | 296 | 438 | 356 | 180 |

| Statistic | Monthly Net Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| 80% | 131 | 59 | 82 | 53 | 66 | 84 | 215 | 349 | 272 | 407 | 307 | 148 |
| 90% | 109 | 31 | 57 | 31 | 27 | 36 | 182 | 280 | 246 | 324 | 267 | 133 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 195 | 133 | 215 | 243 | 262 | 265 | 299 | 454 | 352 | 494 | 399 | 241 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 208 | 157 | 398 | 468 | 497 | 494 | 419 | 594 | 314 | 523 | 410 | 329 |
| Above Normal (12%) | 216 | 122 | 168 | 292 | 277 | 291 | 306 | 528 | 332 | 527 | 423 | 318 |
| Below Normal (24%) | 199 | 116 | 151 | 132 | 180 | 155 | 253 | 413 | 375 | 517 | 448 | 191 |
| Dry (17%) | 191 | 132 | 100 | 76 | 80 | 125 | 242 | 369 | 442 | 526 | 433 | 191 |
| Critical (15%) | 149 | 116 | 94 | 91 | 84 | 92 | 178 | 258 | 311 | 330 | 237 | 127 |

**Alt3 minus NAA**

| Statistic | Monthly Net Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 33 | 73 | 34 | 22 | 85 | 74 | 125 | 233 | -8 | -11 | 80 | 33 |
| 20% | 37 | 66 | 152 | 32 | 37 | 47 | 89 | 171 | -9 | 17 | 82 | 29 |
| 30% | 23 | 50 | 126 | 80 | 89 | 85 | 69 | 117 | 1 | 30 | 76 | 29 |
| 40% | 28 | 56 | 52 | 67 | 59 | 86 | 69 | 94 | 2 | 22 | 70 | 42 |
| 50% | 27 | 59 | 55 | 58 | 83 | 93 | 71 | 68 | 3 | 20 | 65 | 31 |
| 60% | 25 | 53 | 56 | 56 | 65 | 72 | 68 | 67 | -2 | 40 | 67 | 38 |
| 70% | 23 | 51 | 64 | 42 | 58 | 73 | 66 | 76 | -6 | 22 | 54 | 31 |
| 80% | 28 | 48 | 70 | 24 | 54 | 34 | 80 | 70 | -1 | 20 | 46 | 28 |
| 90% | 34 | 41 | 76 | 23 | 37 | 12 | 65 | 35 | 7 | 23 | 41 | 43 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 32 | 53 | 76 | 48 | 61 | 61 | 78 | 105 | -2 | 16 | 58 | 33 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 37 | 48 | 95 | 67 | 72 | 85 | 141 | 237 | 2 | 26 | 43 | 33 |
| Above Normal (12%) | 34 | 73 | 113 | 42 | 60 | 76 | 116 | 130 | -18 | -12 | 59 | 36 |
| Below Normal (24%) | 30 | 58 | 66 | 55 | 75 | 51 | 60 | 45 | -6 | 9 | 97 | 39 |
| Dry (17%) | 22 | 58 | 54 | 29 | 51 | 42 | 18 | 19 | 5 | 31 | 83 | 34 |
| Critical (15%) | 29 | 33 | 49 | 25 | 29 | 35 | 12 | -2 | 4 | 14 | -3 | 20 |

Table 4-7. CVP Net Generation, Monthly Generation

**NAA**

| Statistic | Monthly Net Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 264 | 158 | 526 | 578 | 570 | 534 | 356 | 434 | 465 | 625 | 437 | 324 |
| 20% | 223 | 117 | 187 | 404 | 493 | 398 | 284 | 403 | 448 | 567 | 413 | 297 |
| 30% | 202 | 102 | 105 | 229 | 257 | 218 | 238 | 383 | 417 | 535 | 379 | 272 |
| 40% | 176 | 79 | 92 | 122 | 139 | 136 | 214 | 369 | 382 | 517 | 368 | 222 |
| 50% | 162 | 65 | 71 | 79 | 84 | 92 | 190 | 350 | 346 | 494 | 350 | 189 |
| 60% | 146 | 50 | 53 | 51 | 61 | 78 | 175 | 332 | 322 | 451 | 320 | 167 |
| 70% | 128 | 33 | 31 | 42 | 40 | 62 | 159 | 294 | 302 | 416 | 302 | 149 |
| 80% | 103 | 11 | 12 | 29 | 12 | 50 | 135 | 279 | 273 | 388 | 261 | 120 |
| 90% | 75 | -10 | -19 | 8 | -10 | 24 | 117 | 245 | 239 | 301 | 226 | 90 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 164 | 80 | 139 | 195 | 200 | 204 | 221 | 349 | 354 | 477 | 341 | 208 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 171 | 109 | 303 | 401 | 424 | 409 | 278 | 358 | 312 | 497 | 367 | 296 |
| Above Normal (12%) | 183 | 49 | 55 | 250 | 218 | 215 | 190 | 398 | 350 | 539 | 364 | 281 |
| Below Normal (24%) | 169 | 58 | 85 | 78 | 105 | 104 | 194 | 368 | 381 | 508 | 351 | 152 |
| Dry (17%) | 169 | 74 | 46 | 47 | 29 | 83 | 224 | 350 | 437 | 495 | 350 | 157 |
| Critical (15%) | 120 | 83 | 46 | 67 | 55 | 57 | 165 | 260 | 307 | 316 | 240 | 108 |

**Alt4**

| Statistic | Monthly Net Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 268 | 154 | 535 | 562 | 568 | 525 | 330 | 463 | 492 | 626 | 450 | 325 |
| 20% | 230 | 130 | 222 | 405 | 487 | 383 | 275 | 427 | 456 | 571 | 419 | 295 |
| 30% | 202 | 106 | 118 | 246 | 258 | 199 | 236 | 389 | 432 | 549 | 390 | 247 |
| 40% | 177 | 82 | 97 | 131 | 131 | 127 | 212 | 368 | 394 | 522 | 361 | 213 |
| 50% | 159 | 71 | 73 | 85 | 83 | 92 | 191 | 354 | 356 | 501 | 347 | 181 |
| 60% | 147 | 57 | 52 | 57 | 64 | 74 | 174 | 325 | 334 | 475 | 320 | 165 |
| 70% | 129 | 43 | 33 | 46 | 45 | 59 | 143 | 297 | 309 | 430 | 292 | 141 |

| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Monthly Net Generation (GWh) | | | | | | |
| 80% | 108 | 20 | 5 | 27 | 16 | 43 | 125 | 273 | 269 | 404 | 241 | 115 |
| 90% | 83 | -14 | -14 | 2 | -10 | 24 | 102 | 226 | 237 | 331 | 214 | 89 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 169 | 84 | 145 | 197 | 201 | 195 | 212 | 352 | 363 | 488 | 338 | 201 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 170 | 114 | 313 | 406 | 418 | 386 | 259 | 353 | 320 | 503 | 375 | 283 |
| Above Normal (12%) | 186 | 52 | 52 | 244 | 213 | 198 | 178 | 388 | 358 | 540 | 363 | 274 |
| Below Normal (24%) | 178 | 63 | 90 | 83 | 119 | 104 | 189 | 379 | 393 | 519 | 341 | 149 |
| Dry (17%) | 172 | 74 | 50 | 38 | 33 | 83 | 226 | 371 | 451 | 512 | 352 | 151 |
| Critical (15%) | 132 | 93 | 56 | 76 | 50 | 56 | 159 | 254 | 310 | 336 | 216 | 104 |

**Alt4 minus NAA**

| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Monthly Net Generation (GWh) | | | | | | |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 3 | -3 | 9 | -15 | -2 | -9 | -26 | 29 | 27 | 1 | 14 | 1 |
| 20% | 7 | 12 | 35 | 2 | -6 | -15 | -9 | 23 | 9 | 5 | 5 | -2 |
| 30% | 0 | 4 | 13 | 17 | 1 | -19 | -2 | 6 | 15 | 14 | 11 | -25 |
| 40% | 1 | 3 | 5 | 9 | -9 | -9 | -2 | -1 | 12 | 5 | -7 | -9 |
| 50% | -2 | 7 | 2 | 6 | -1 | 0 | 1 | 4 | 10 | 7 | -3 | -9 |
| 60% | 1 | 7 | 0 | 6 | 3 | -4 | -1 | -8 | 13 | 24 | -1 | -3 |
| 70% | 1 | 9 | 2 | 4 | 5 | -3 | -16 | 3 | 7 | 14 | -10 | -8 |
| 80% | 5 | 9 | -7 | -1 | 4 | -7 | -10 | -6 | -4 | 16 | -20 | -5 |
| 90% | 9 | -4 | 5 | -5 | -1 | 0 | -15 | -19 | -2 | 30 | -12 | -1 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 5 | 4 | 6 | 2 | 0 | -10 | -10 | 3 | 9 | 10 | -3 | -7 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 0 | 4 | 11 | 4 | -7 | -23 | -20 | -5 | 8 | 5 | 8 | -12 |
| Above Normal (12%) | 3 | 3 | -3 | -6 | -5 | -17 | -12 | -10 | 8 | 1 | -1 | -7 |
| Below Normal (24%) | 10 | 5 | 5 | 6 | 14 | 0 | -5 | 10 | 11 | 12 | -9 | -3 |
| Dry (17%) | 3 | 0 | 4 | -9 | 3 | 0 | 1 | 21 | 14 | 16 | 2 | -6 |
| Critical (15%) | 12 | 10 | 11 | 10 | -5 | -1 | -6 | -5 | 3 | 20 | -23 | -3 |

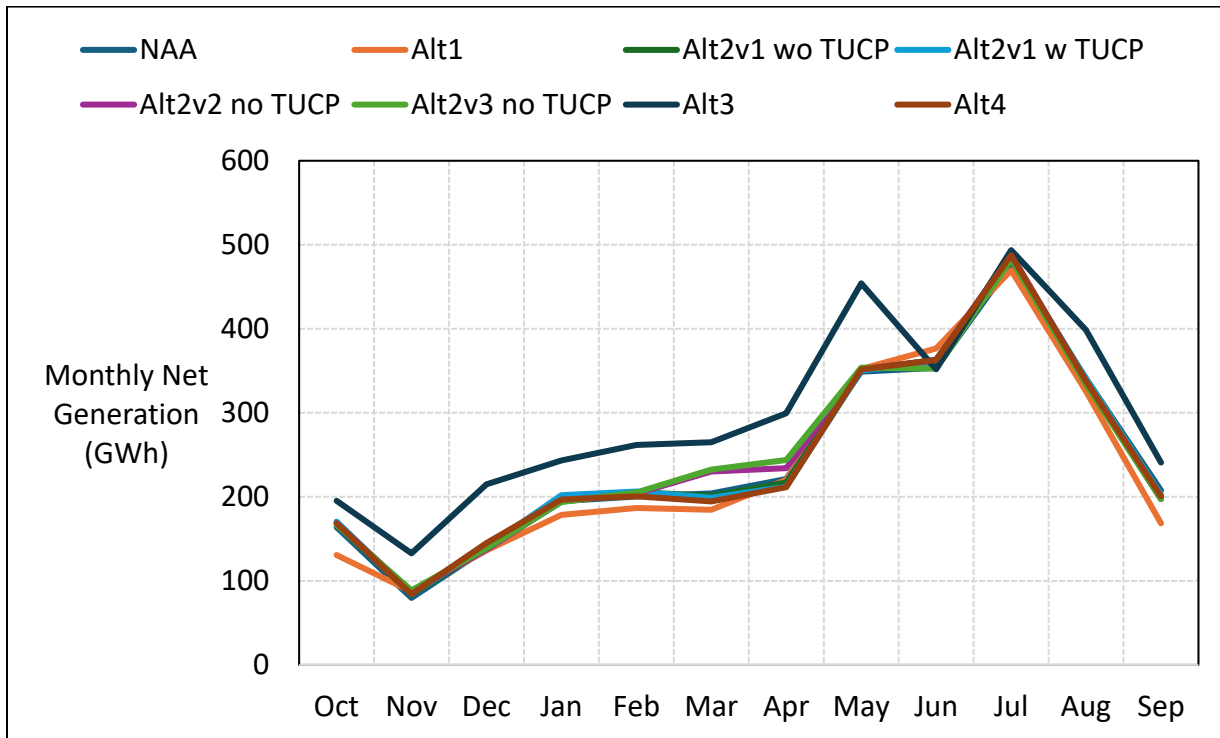Figure 4-1. CVP Net Generation, Long-Term Average Generation



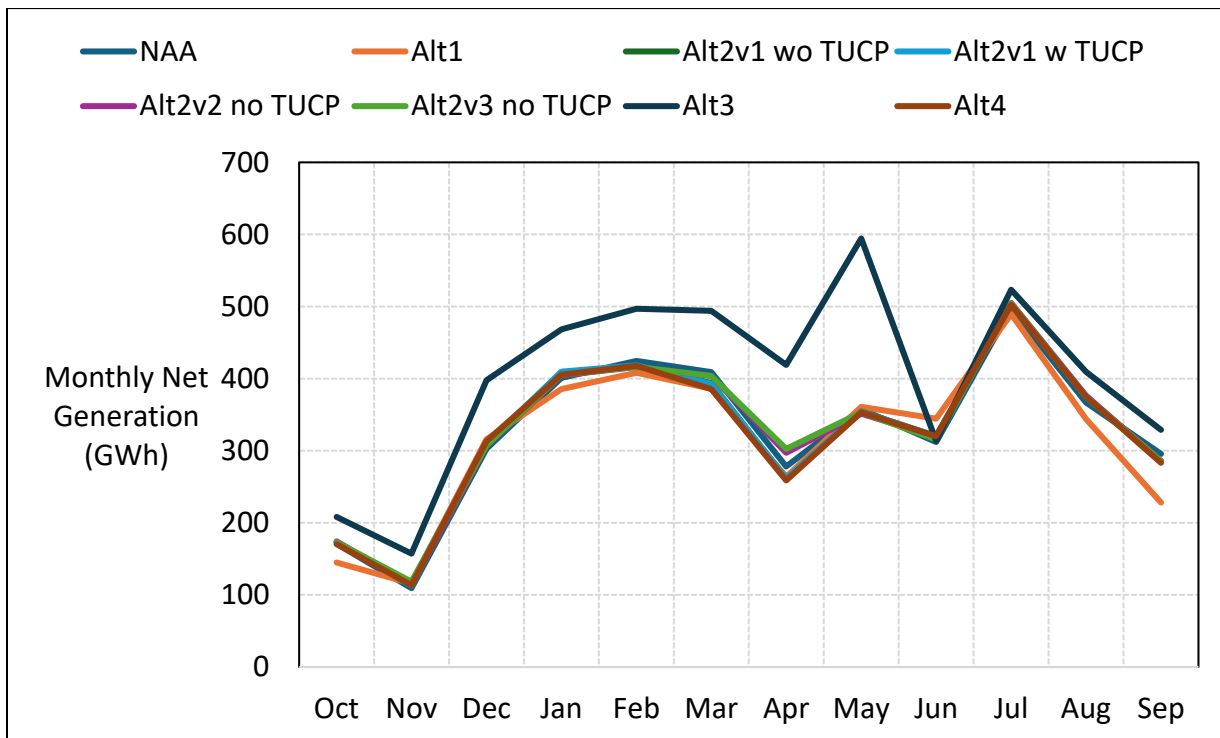Figure 4-2. CVP Net Generation, Wet Year Average Generation

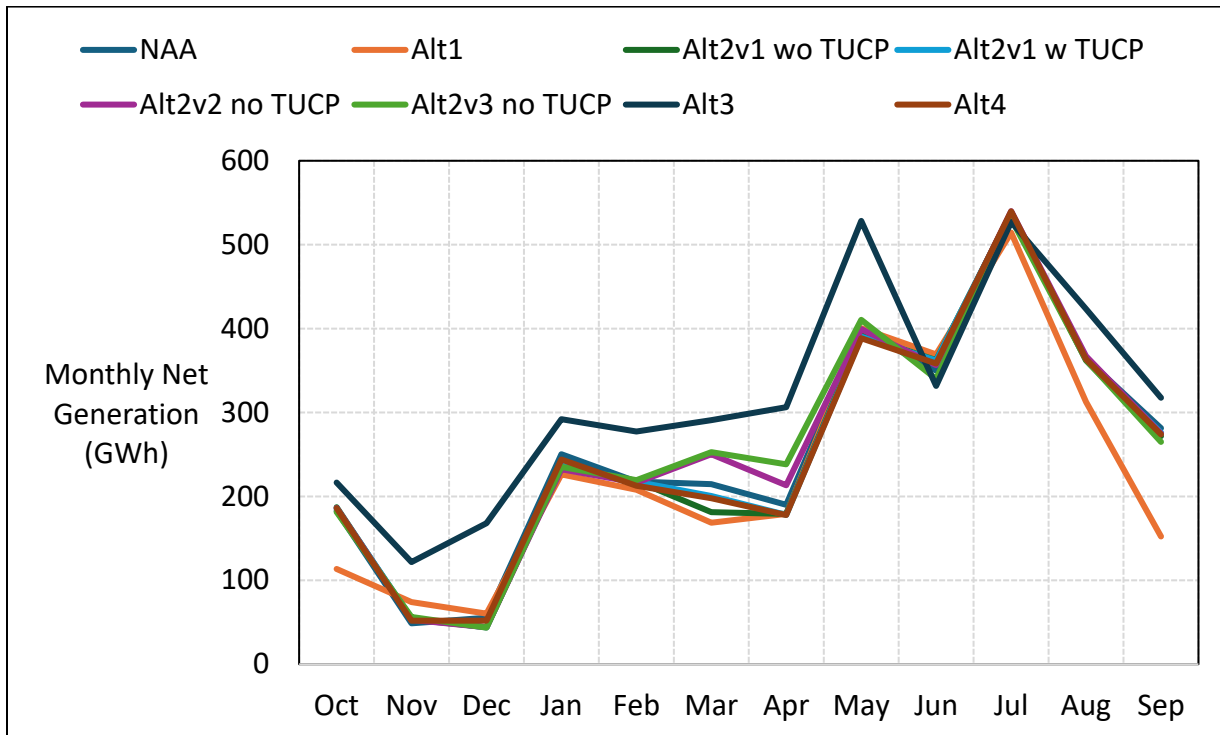Figure 4-3. CVP Net Generation, Above Normal Year Average Generation



Figure 4-4. CVP Net Generation, Below Normal Year Average Generation
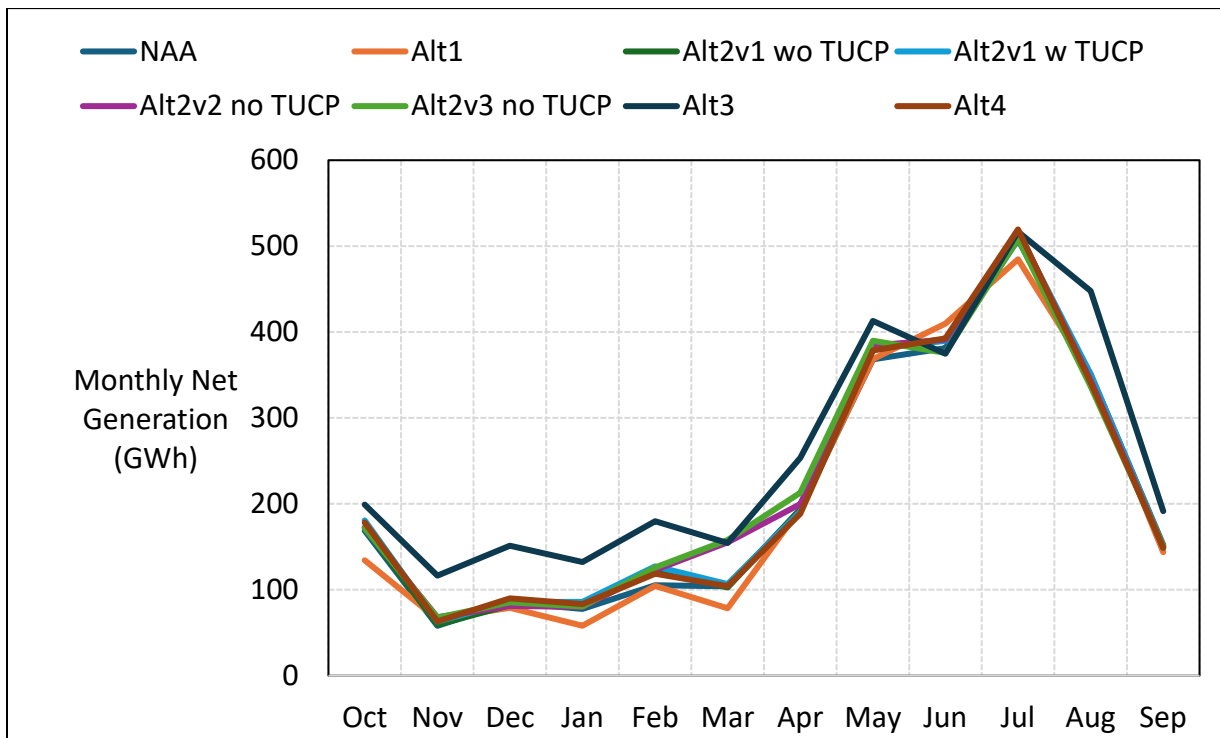
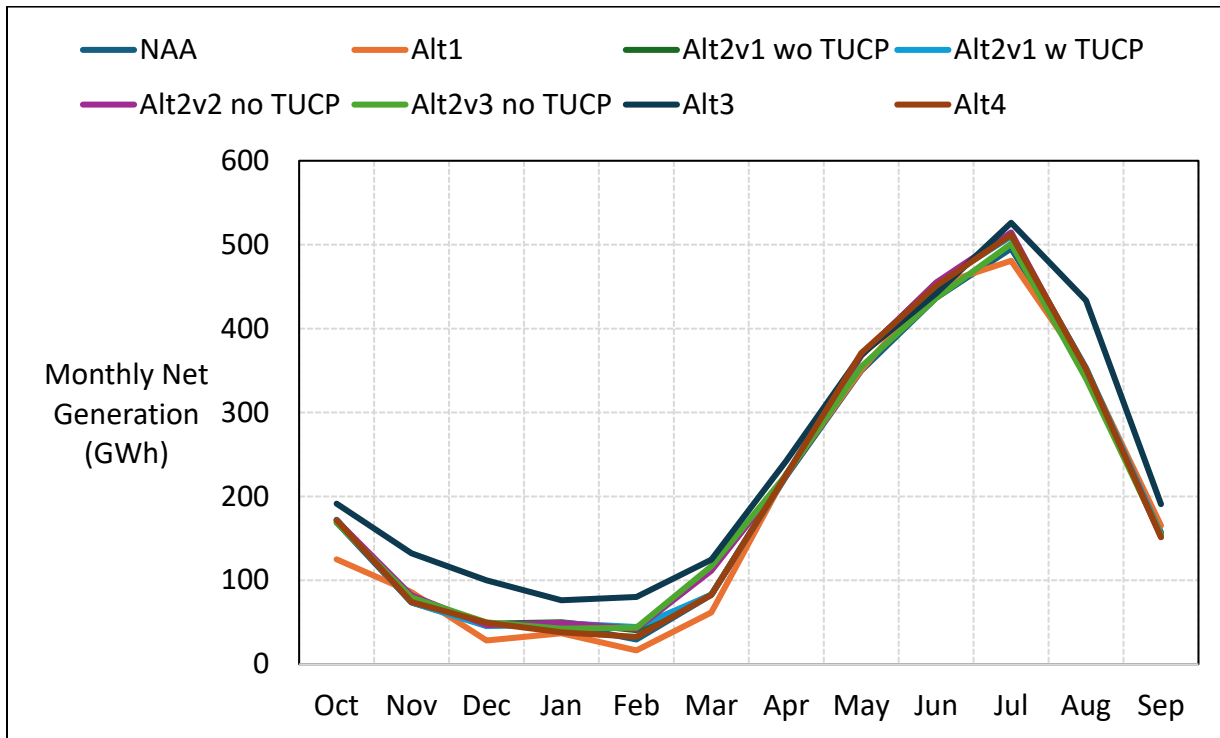Figure 4-5. CVP Net Generation, Dry Year Average Generation



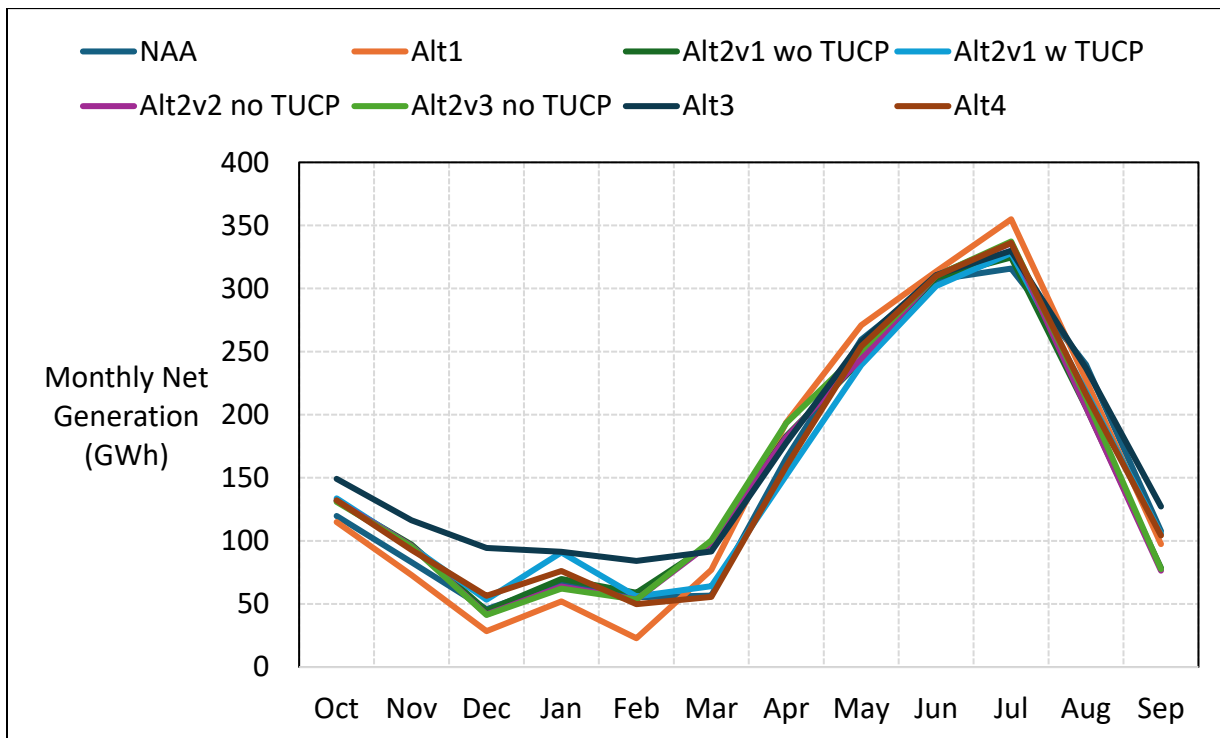Figure 4-6. CVP Net Generation, Critical Year Average Generation

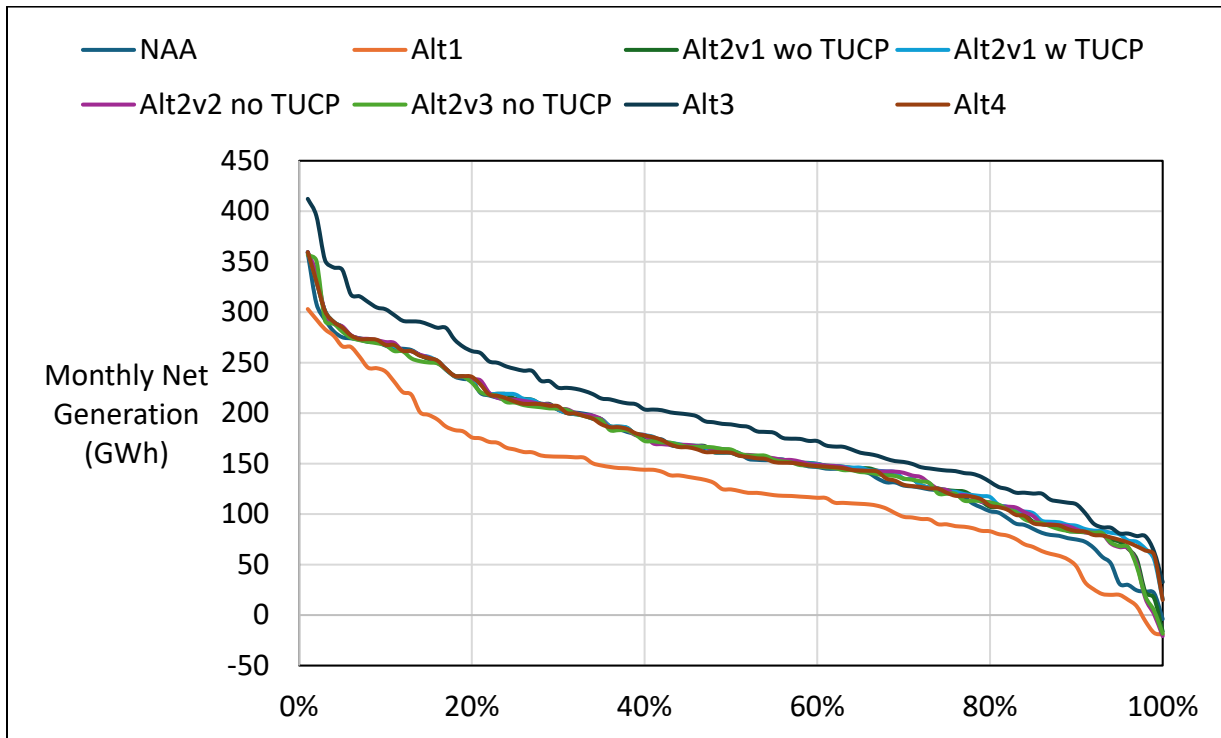Figure 4-7. CVP Net Generation, October


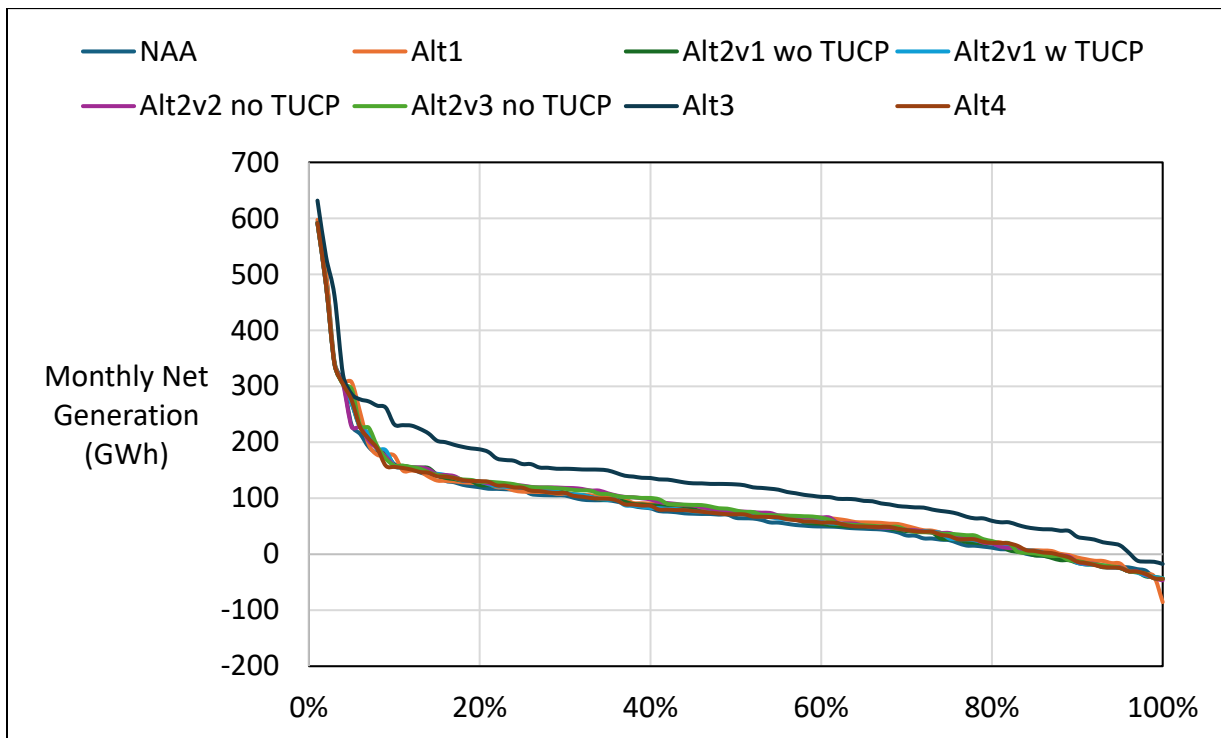
Figure 4-8. CVP Net Generation, November

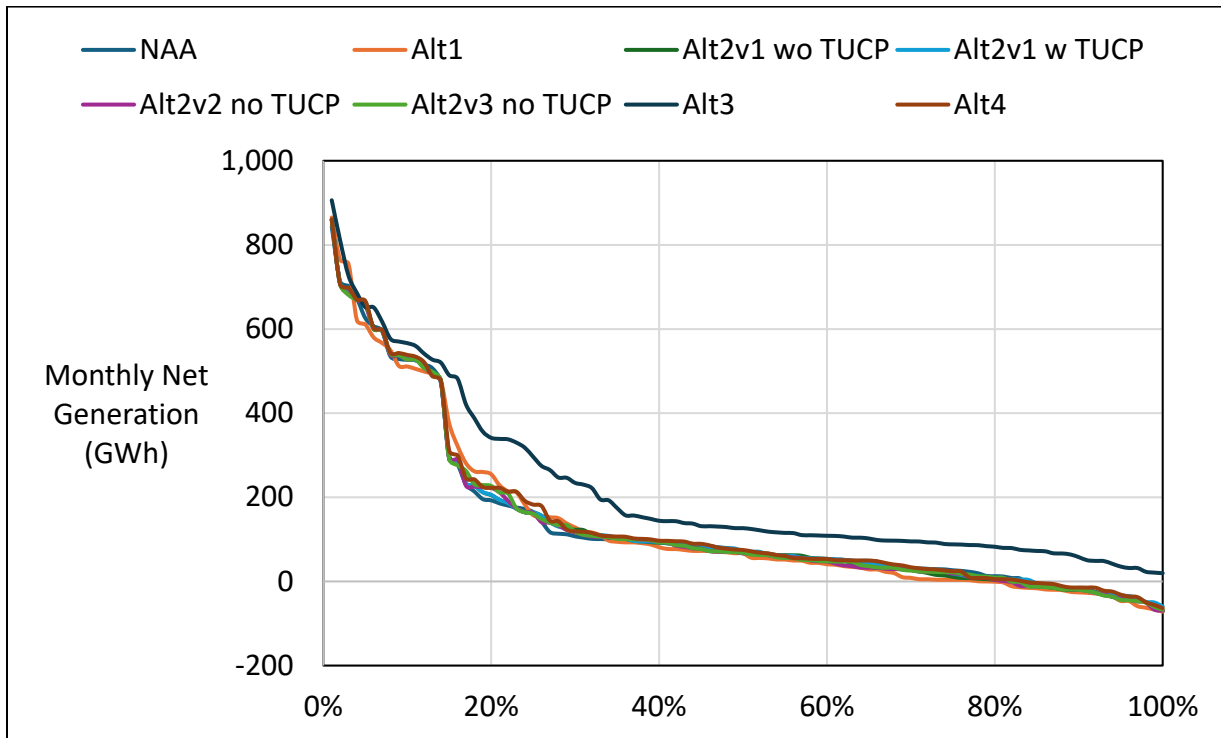Figure 4-9. CVP Net Generation, December



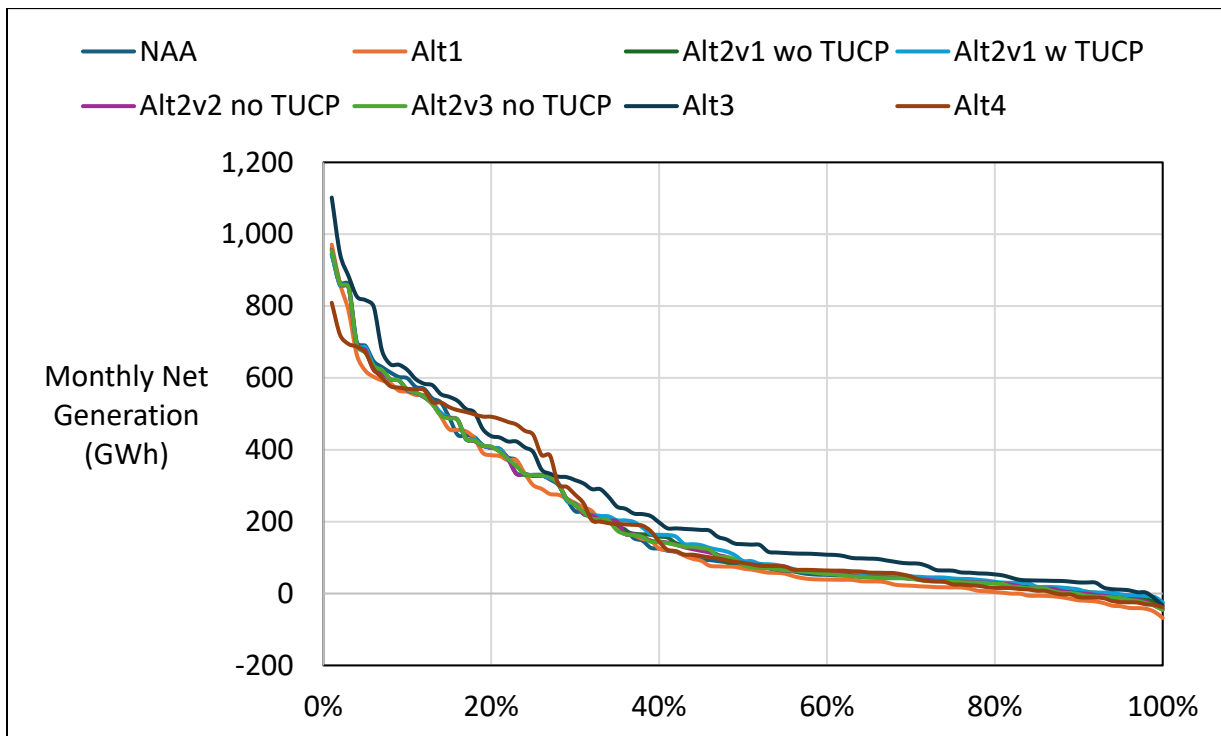Figure 4-10. CVP Net Generation, January
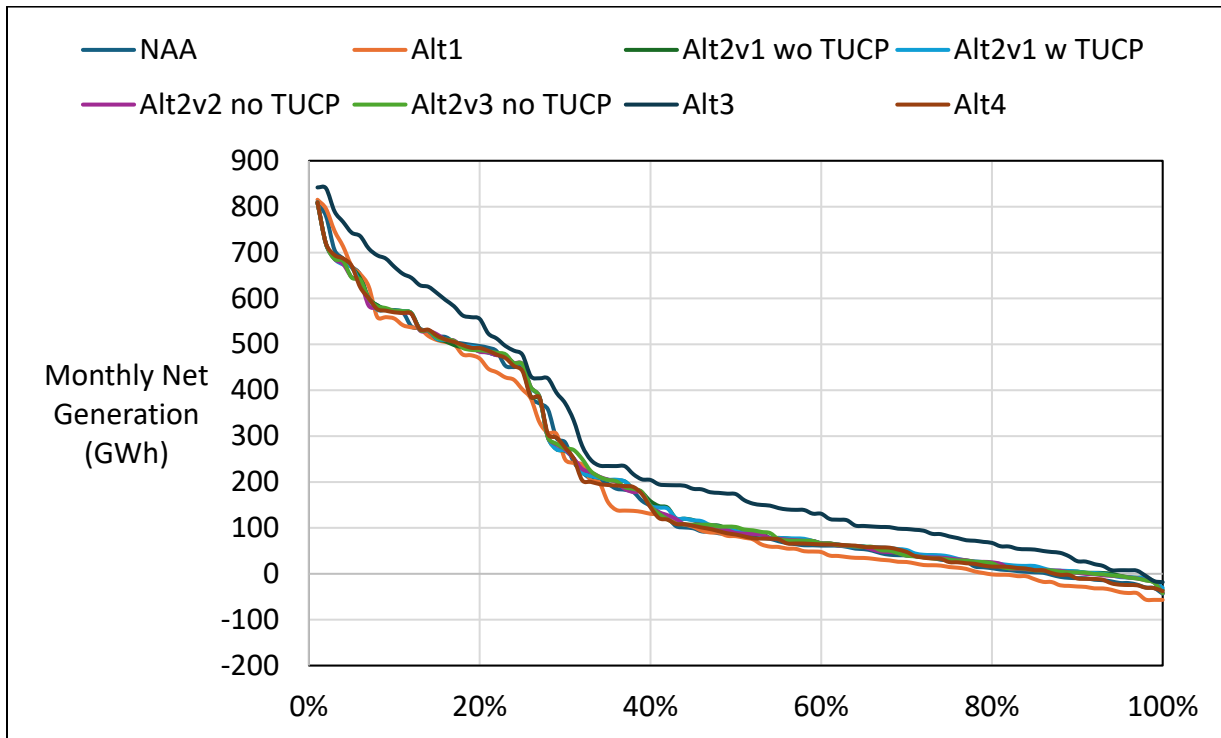
Figure 4-11. CVP Net Generation, February



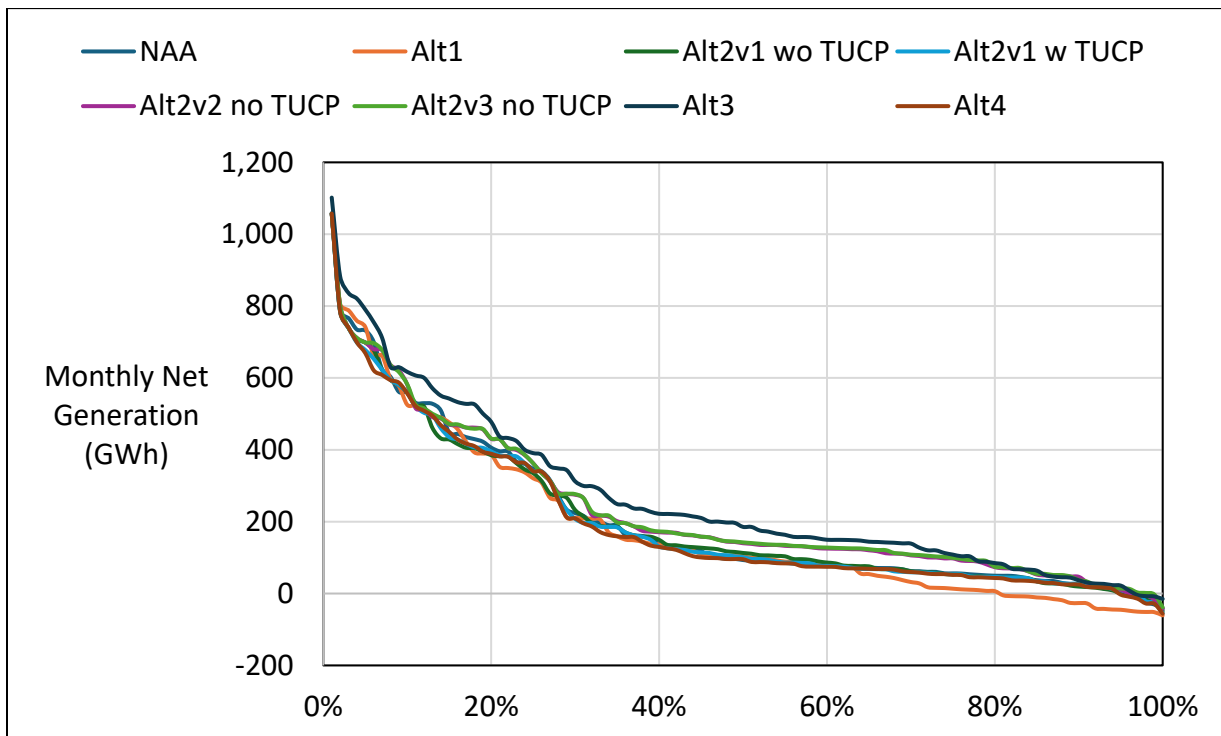Figure 4-12. CVP Net Generation, March
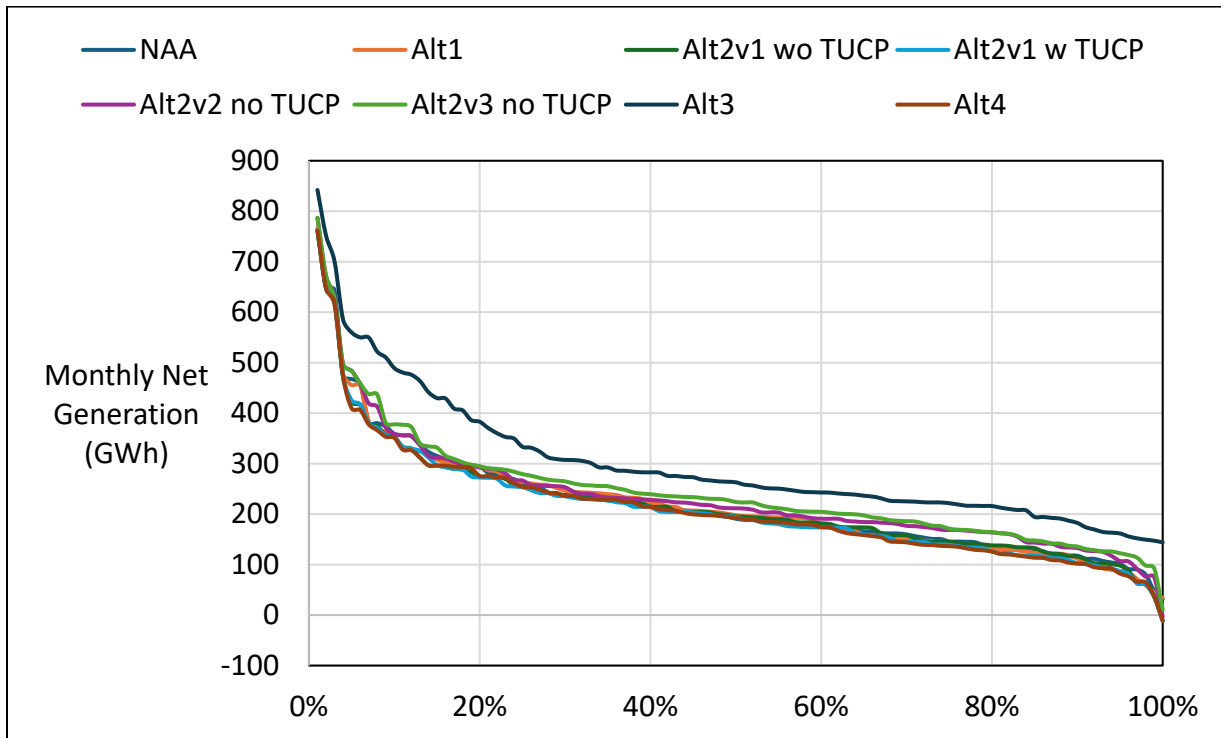
Figure 4-13. CVP Net Generation, April
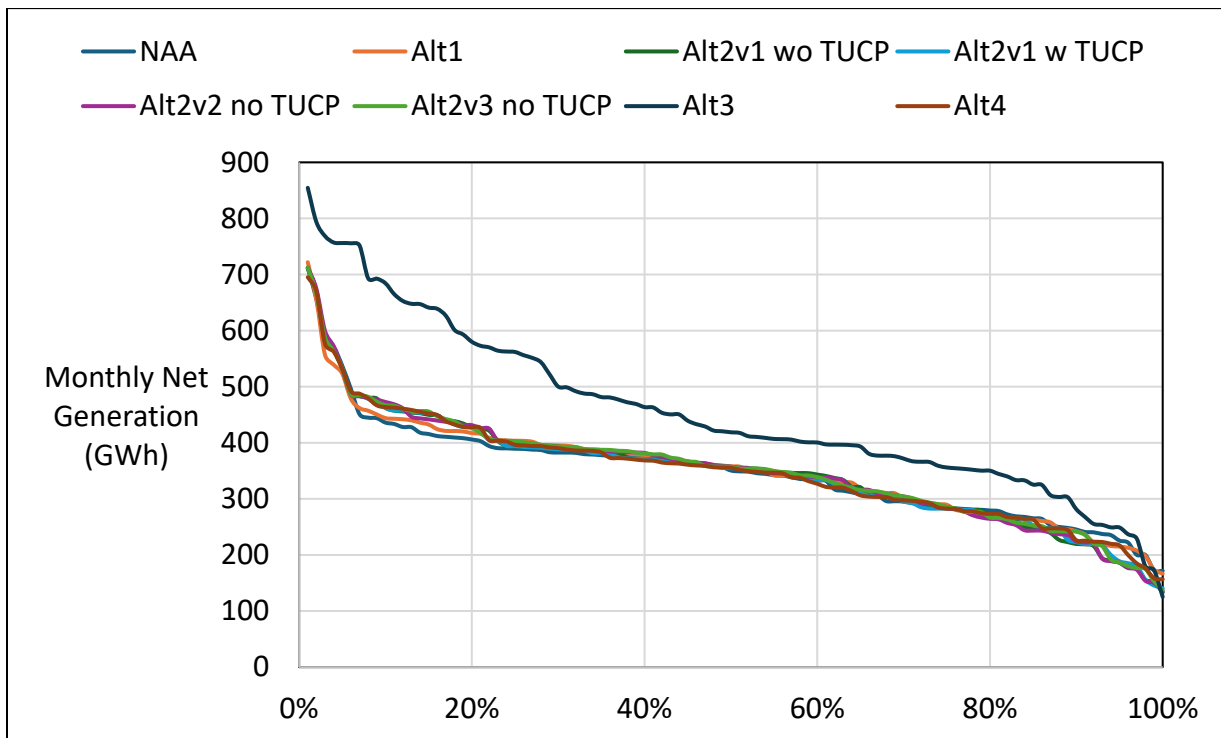


Figure 4-14. CVP Net Generation, May

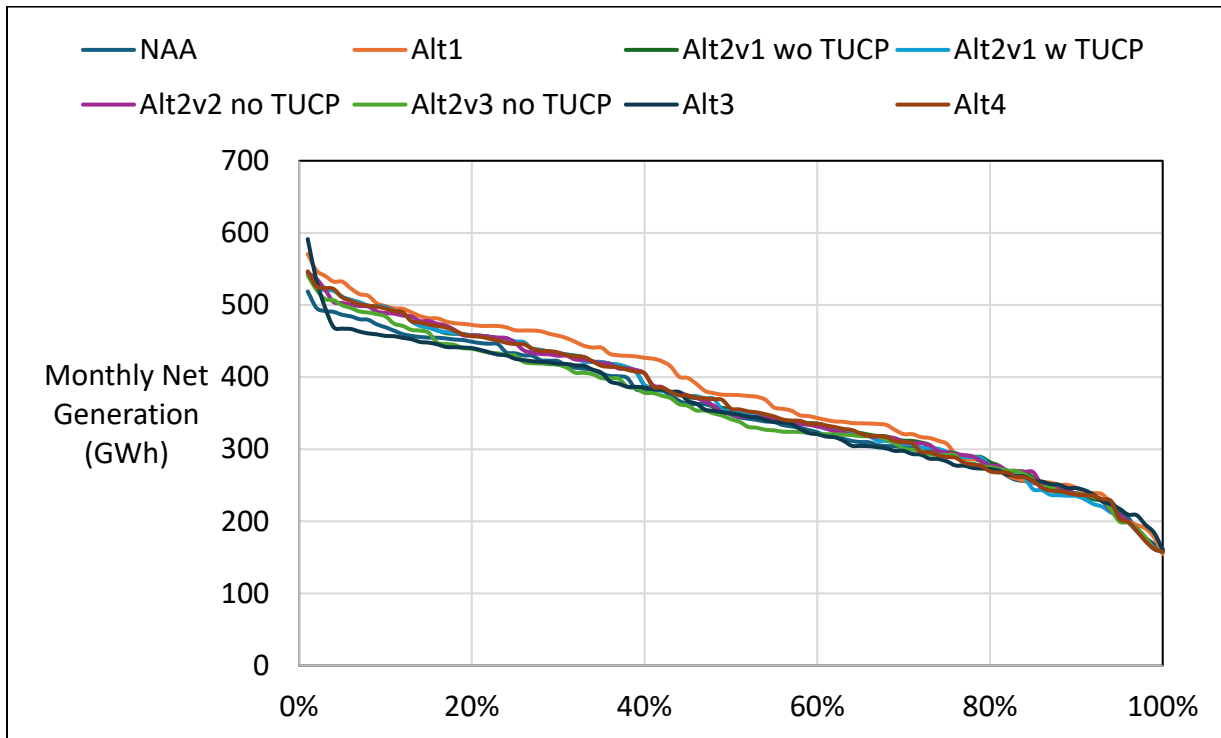Figure 4-15. CVP Net Generation, June
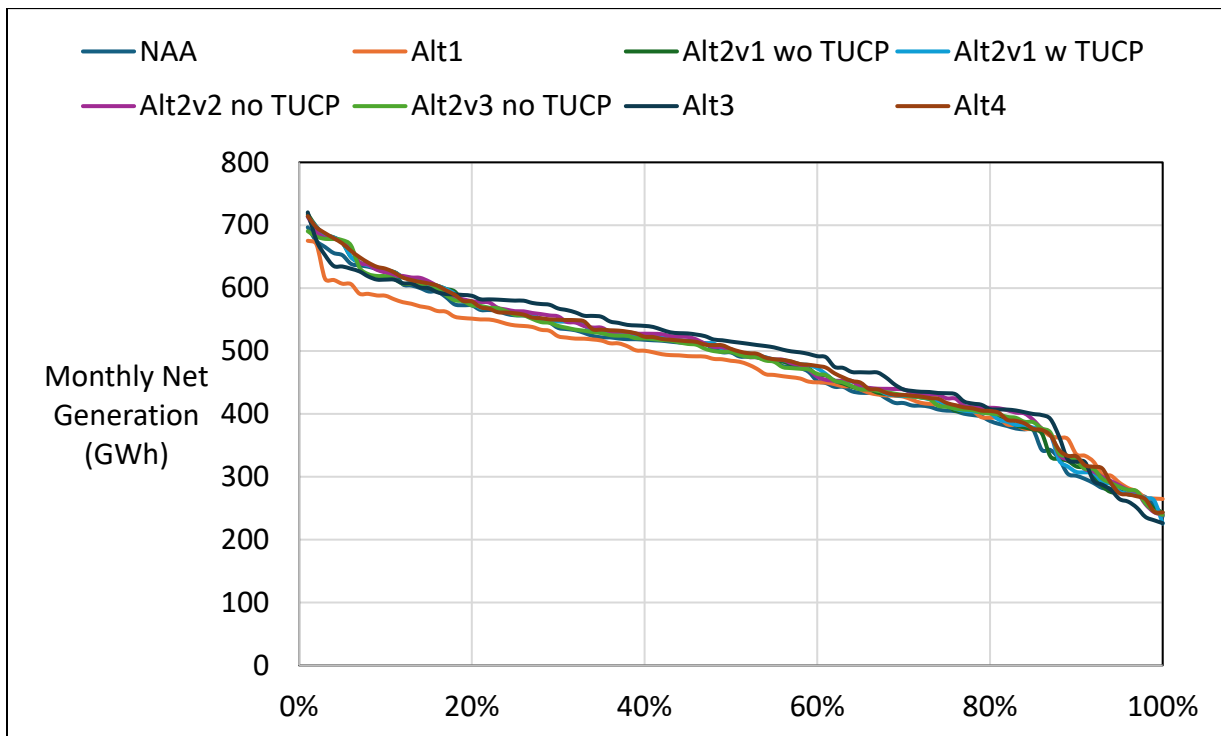


Figure 4-16. CVP Net Generation, July
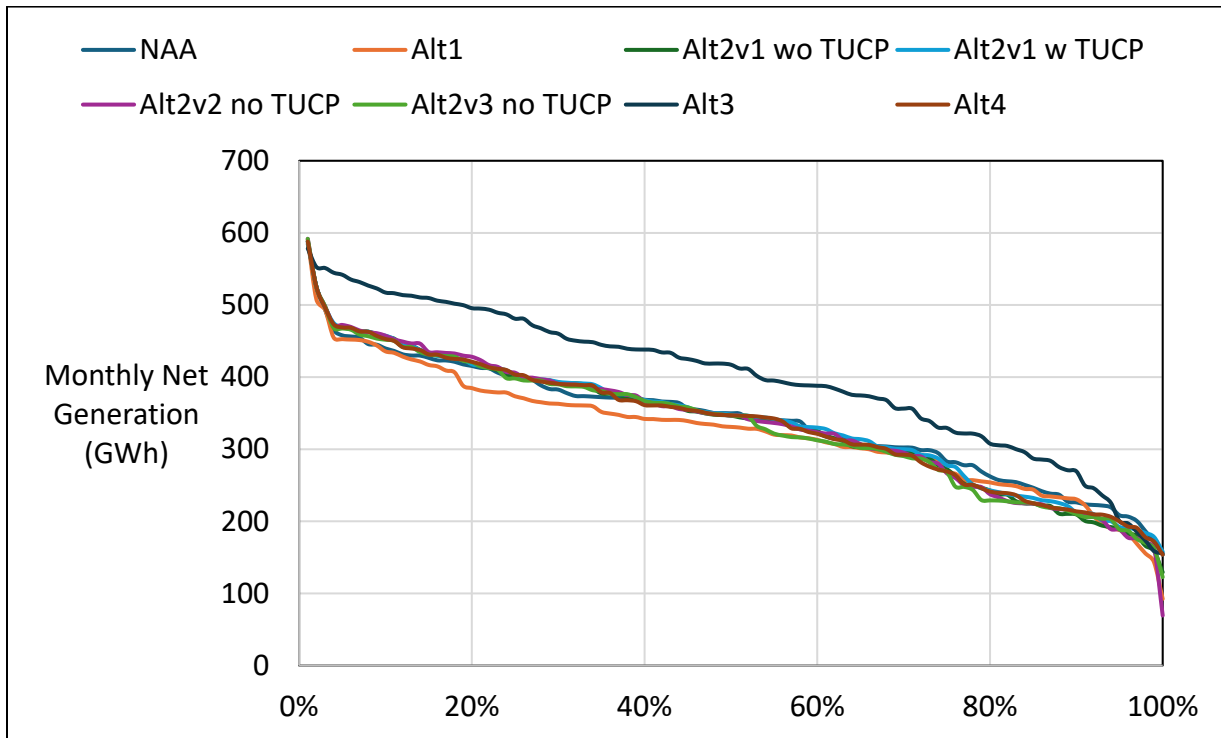
Figure 4-17. CVP Net Generation, August



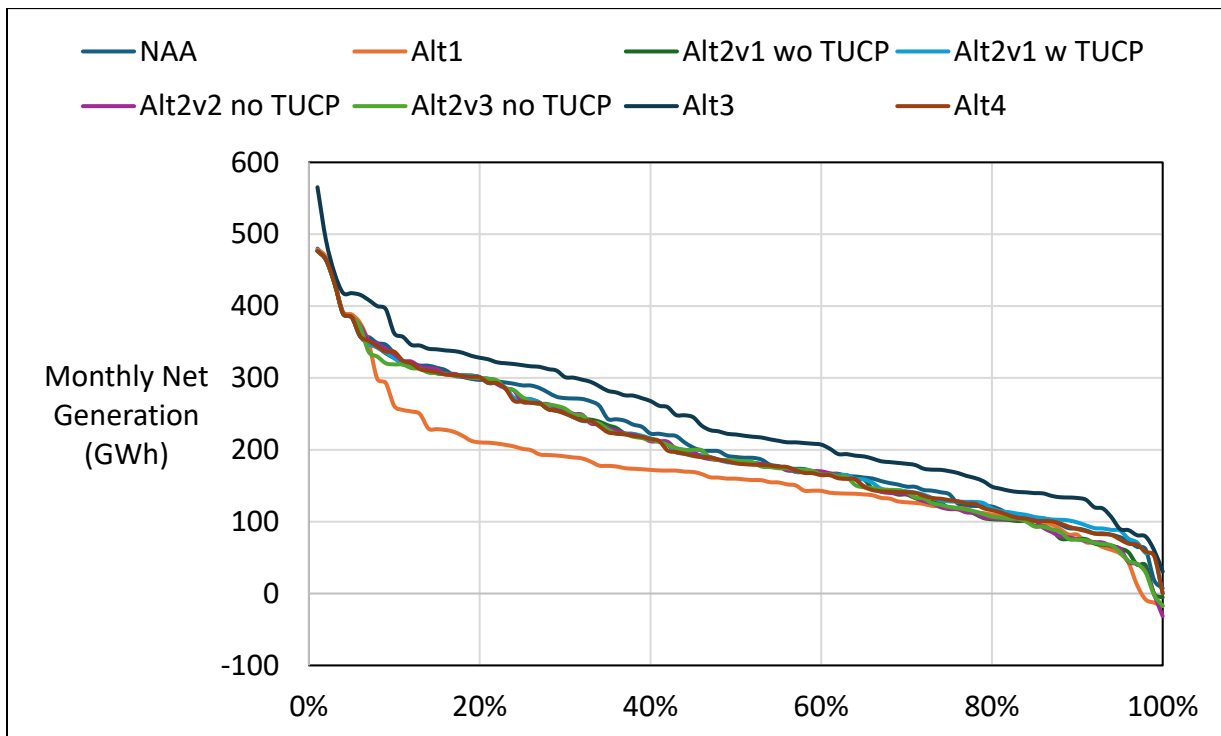Figure 4-18. CVP Net Generation, September

Table 5-1. SWP Total Capacity, Monthly Capacity

**NAA**

| Statistic | Monthly Capacity (MW) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 613 | 523 | 589 | 1,117 | 1,284 | 1,266 | 958 | 776 | 819 | 1,040 | 886 | 738 |
| 20% | 587 | 483 | 450 | 593 | 1,070 | 1,047 | 698 | 687 | 755 | 984 | 844 | 656 |
| 30% | 548 | 468 | 414 | 489 | 621 | 754 | 602 | 637 | 731 | 966 | 815 | 499 |
| 40% | 494 | 427 | 401 | 391 | 484 | 549 | 499 | 611 | 713 | 929 | 771 | 466 |
| 50% | 459 | 393 | 384 | 312 | 366 | 401 | 482 | 587 | 694 | 896 | 691 | 438 |
| 60% | 409 | 365 | 354 | 264 | 280 | 345 | 462 | 540 | 658 | 828 | 545 | 343 |
| 70% | 333 | 318 | 303 | 207 | 230 | 285 | 422 | 493 | 627 | 599 | 404 | 296 |
| 80% | 261 | 238 | 250 | 171 | 174 | 241 | 332 | 441 | 560 | 505 | 374 | 244 |
| 90% | 196 | 175 | 169 | 136 | 151 | 199 | 260 | 346 | 440 | 398 | 306 | 181 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 431 | 387 | 405 | 444 | 546 | 595 | 558 | 578 | 664 | 782 | 620 | 433 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 468 | 453 | 560 | 757 | 1,032 | 1,072 | 846 | 732 | 767 | 982 | 829 | 628 |
| Above Normal (12%) | 478 | 401 | 375 | 403 | 559 | 723 | 572 | 644 | 718 | 960 | 828 | 587 |
| Below Normal (24%) | 447 | 374 | 352 | 338 | 346 | 357 | 466 | 588 | 701 | 830 | 594 | 367 |
| Dry (17%) | 422 | 371 | 334 | 269 | 225 | 274 | 394 | 449 | 612 | 567 | 405 | 259 |
| Critical (15%) | 297 | 274 | 263 | 174 | 179 | 222 | 264 | 325 | 400 | 381 | 292 | 195 |

**Alt1**

| Statistic | Monthly Capacity (MW) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 636 | 566 | 691 | 1,197 | 1,453 | 1,514 | 1,024 | 859 | 917 | 1,077 | 909 | 705 |
| 20% | 608 | 521 | 510 | 783 | 1,206 | 1,212 | 760 | 795 | 875 | 1,047 | 872 | 577 |
| 30% | 576 | 505 | 469 | 639 | 882 | 955 | 683 | 723 | 853 | 1,018 | 847 | 547 |
| 40% | 529 | 468 | 436 | 541 | 622 | 748 | 584 | 679 | 816 | 989 | 810 | 493 |
| 50% | 475 | 434 | 408 | 441 | 528 | 594 | 548 | 655 | 789 | 950 | 719 | 448 |
| 60% | 420 | 371 | 386 | 315 | 397 | 445 | 519 | 640 | 772 | 854 | 640 | 416 |
| 70% | 342 | 307 | 350 | 237 | 304 | 386 | 486 | 603 | 724 | 717 | 475 | 338 |

| Statistic | Monthly Capacity (MW) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| 80% | 276 | 274 | 289 | 187 | 217 | 321 | 459 | 527 | 625 | 518 | 413 | 282 |
| 90% | 179 | 170 | 196 | 152 | 178 | 250 | 358 | 432 | 517 | 437 | 361 | 227 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 449 | 412 | 446 | 531 | 653 | 721 | 633 | 659 | 760 | 833 | 660 | 448 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 460 | 477 | 630 | 854 | 1,141 | 1,233 | 917 | 806 | 855 | 1,023 | 830 | 571 |
| Above Normal (12%) | 504 | 425 | 449 | 559 | 689 | 826 | 638 | 757 | 868 | 1,018 | 865 | 614 |
| Below Normal (24%) | 482 | 412 | 381 | 426 | 495 | 520 | 529 | 655 | 797 | 887 | 674 | 432 |
| Dry (17%) | 433 | 374 | 349 | 330 | 314 | 369 | 499 | 569 | 717 | 633 | 472 | 321 |
| Critical (15%) | 347 | 304 | 265 | 214 | 221 | 262 | 339 | 374 | 464 | 418 | 328 | 223 |

**Alt1 minus NAA**

| Statistic | Monthly Capacity (MW) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 23 | 43 | 102 | 80 | 169 | 247 | 66 | 83 | 97 | 37 | 24 | -33 |
| 20% | 21 | 38 | 60 | 189 | 136 | 164 | 62 | 108 | 120 | 62 | 28 | -79 |
| 30% | 28 | 37 | 54 | 150 | 262 | 201 | 81 | 86 | 122 | 52 | 32 | 48 |
| 40% | 35 | 42 | 34 | 150 | 138 | 199 | 86 | 68 | 103 | 60 | 39 | 27 |
| 50% | 16 | 41 | 25 | 130 | 163 | 193 | 67 | 68 | 95 | 55 | 28 | 10 |
| 60% | 11 | 6 | 32 | 52 | 118 | 99 | 57 | 100 | 114 | 25 | 95 | 73 |
| 70% | 8 | -10 | 47 | 30 | 74 | 100 | 64 | 110 | 98 | 119 | 70 | 42 |
| 80% | 16 | 35 | 40 | 17 | 43 | 80 | 127 | 86 | 65 | 13 | 39 | 38 |
| 90% | -17 | -5 | 27 | 16 | 26 | 51 | 99 | 86 | 77 | 39 | 56 | 46 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 18 | 25 | 41 | 87 | 108 | 125 | 75 | 81 | 96 | 50 | 41 | 15 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | -8 | 24 | 70 | 96 | 109 | 161 | 71 | 74 | 88 | 41 | 1 | -58 |
| Above Normal (12%) | 26 | 24 | 73 | 156 | 130 | 103 | 66 | 113 | 149 | 57 | 37 | 27 |
| Below Normal (24%) | 35 | 39 | 29 | 87 | 149 | 163 | 63 | 67 | 96 | 56 | 80 | 65 |
| Dry (17%) | 11 | 3 | 14 | 62 | 89 | 96 | 105 | 120 | 105 | 66 | 67 | 62 |
| Critical (15%) | 50 | 31 | 2 | 39 | 42 | 40 | 74 | 49 | 63 | 38 | 36 | 28 |

Table 5-2. SWP Total Capacity, Monthly Capacity

**NAA**

| | Monthly Capacity (MW) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 613 | 523 | 589 | 1,117 | 1,284 | 1,266 | 958 | 776 | 819 | 1,040 | 886 | 738 |
| 20% | 587 | 483 | 450 | 593 | 1,070 | 1,047 | 698 | 687 | 755 | 984 | 844 | 656 |
| 30% | 548 | 468 | 414 | 489 | 621 | 754 | 602 | 637 | 731 | 966 | 815 | 499 |
| 40% | 494 | 427 | 401 | 391 | 484 | 549 | 499 | 611 | 713 | 929 | 771 | 466 |
| 50% | 459 | 393 | 384 | 312 | 366 | 401 | 482 | 587 | 694 | 896 | 691 | 438 |
| 60% | 409 | 365 | 354 | 264 | 280 | 345 | 462 | 540 | 658 | 828 | 545 | 343 |
| 70% | 333 | 318 | 303 | 207 | 230 | 285 | 422 | 493 | 627 | 599 | 404 | 296 |
| 80% | 261 | 238 | 250 | 171 | 174 | 241 | 332 | 441 | 560 | 505 | 374 | 244 |
| 90% | 196 | 175 | 169 | 136 | 151 | 199 | 260 | 346 | 440 | 398 | 306 | 181 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 431 | 387 | 405 | 444 | 546 | 595 | 558 | 578 | 664 | 782 | 620 | 433 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 468 | 453 | 560 | 757 | 1,032 | 1,072 | 846 | 732 | 767 | 982 | 829 | 628 |
| Above Normal (12%) | 478 | 401 | 375 | 403 | 559 | 723 | 572 | 644 | 718 | 960 | 828 | 587 |
| Below Normal (24%) | 447 | 374 | 352 | 338 | 346 | 357 | 466 | 588 | 701 | 830 | 594 | 367 |
| Dry (17%) | 422 | 371 | 334 | 269 | 225 | 274 | 394 | 449 | 612 | 567 | 405 | 259 |
| Critical (15%) | 297 | 274 | 263 | 174 | 179 | 222 | 264 | 325 | 400 | 381 | 292 | 195 |

**Alt2v1 wo TUCP**

| | Monthly Capacity (MW) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 638 | 533 | 610 | 1,122 | 1,310 | 1,242 | 963 | 835 | 842 | 1,046 | 900 | 753 |
| 20% | 586 | 484 | 453 | 613 | 1,044 | 1,065 | 715 | 704 | 781 | 1,013 | 860 | 659 |
| 30% | 545 | 466 | 430 | 529 | 620 | 746 | 607 | 651 | 753 | 963 | 825 | 533 |
| 40% | 511 | 438 | 408 | 429 | 516 | 578 | 527 | 630 | 730 | 940 | 786 | 476 |
| 50% | 466 | 419 | 378 | 327 | 363 | 415 | 493 | 592 | 708 | 901 | 720 | 437 |
| 60% | 412 | 378 | 334 | 280 | 276 | 341 | 466 | 532 | 671 | 833 | 547 | 350 |
| 70% | 324 | 313 | 303 | 193 | 223 | 295 | 427 | 501 | 641 | 631 | 398 | 294 |

| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Monthly Capacity (MW) | | | | | | |
| 80% | 255 | 239 | 239 | 165 | 184 | 235 | 345 | 432 | 565 | 492 | 368 | 248 |
| 90% | 194 | 172 | 173 | 140 | 158 | 205 | 283 | 329 | 418 | 390 | 313 | 196 |
| **Long Term** | | | | | | | | | | | | |
| Full Simulation Period | 436 | 393 | 407 | 462 | 557 | 598 | 570 | 587 | 680 | 785 | 627 | 444 |
| **Water Year Types** | | | | | | | | | | | | |
| Wet (32%) | 474 | 461 | 569 | 782 | 1,051 | 1,090 | 864 | 757 | 794 | 996 | 842 | 643 |
| Above Normal (12%) | 455 | 404 | 382 | 442 | 551 | 669 | 576 | 659 | 746 | 973 | 841 | 619 |
| Below Normal (24%) | 459 | 385 | 351 | 346 | 360 | 369 | 471 | 591 | 714 | 836 | 606 | 369 |
| Dry (17%) | 447 | 377 | 339 | 281 | 237 | 272 | 392 | 447 | 615 | 539 | 395 | 266 |
| Critical (15%) | 291 | 268 | 246 | 183 | 187 | 227 | 298 | 319 | 404 | 382 | 293 | 199 |

**Alt2v1 wo TUCP minus NAA**

| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Monthly Capacity (MW) | | | | | | |
| **Probability of Exceedance** | | | | | | | | | | | | |
| 10% | 25 | 10 | 21 | 6 | 26 | -24 | 5 | 59 | 22 | 6 | 15 | 15 |
| 20% | -1 | 1 | 3 | 20 | -26 | 18 | 17 | 17 | 26 | 28 | 17 | 3 |
| 30% | -3 | -1 | 16 | 40 | 0 | -8 | 4 | 15 | 22 | -3 | 10 | 35 |
| 40% | 17 | 11 | 6 | 38 | 33 | 29 | 29 | 19 | 17 | 11 | 16 | 9 |
| 50% | 7 | 26 | -6 | 15 | -2 | 14 | 11 | 5 | 14 | 6 | 29 | -1 |
| 60% | 3 | 12 | -20 | 17 | -4 | -4 | 4 | -7 | 13 | 5 | 2 | 8 |
| 70% | -9 | -5 | 0 | -14 | -6 | 10 | 5 | 8 | 14 | 32 | -6 | -2 |
| 80% | -5 | 1 | -11 | -5 | 10 | -6 | 12 | -10 | 5 | -13 | -5 | 4 |
| 90% | -2 | -3 | 5 | 5 | 7 | 6 | 23 | -17 | -22 | -9 | 7 | 15 |
| **Long Term** | | | | | | | | | | | | |
| Full Simulation Period | 5 | 6 | 2 | 18 | 12 | 3 | 12 | 9 | 16 | 3 | 7 | 11 |
| **Water Year Types** | | | | | | | | | | | | |
| Wet (32%) | 6 | 8 | 9 | 25 | 19 | 19 | 18 | 24 | 27 | 13 | 13 | 15 |
| Above Normal (12%) | -23 | 3 | 7 | 39 | -8 | -54 | 4 | 15 | 28 | 13 | 13 | 32 |
| Below Normal (24%) | 12 | 11 | -2 | 7 | 14 | 11 | 5 | 2 | 13 | 6 | 12 | 2 |
| Dry (17%) | 25 | 6 | 4 | 13 | 12 | -2 | -2 | -2 | 3 | -27 | -10 | 7 |
| Critical (15%) | -6 | -6 | -17 | 9 | 8 | 5 | 34 | -6 | 3 | 1 | 1 | 4 |

Table 5-3. SWP Total Capacity, Monthly Capacity

**NAA**

| Statistic | Monthly Capacity (MW) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 613 | 523 | 589 | 1,117 | 1,284 | 1,266 | 958 | 776 | 819 | 1,040 | 886 | 738 |
| 20% | 587 | 483 | 450 | 593 | 1,070 | 1,047 | 698 | 687 | 755 | 984 | 844 | 656 |
| 30% | 548 | 468 | 414 | 489 | 621 | 754 | 602 | 637 | 731 | 966 | 815 | 499 |
| 40% | 494 | 427 | 401 | 391 | 484 | 549 | 499 | 611 | 713 | 929 | 771 | 466 |
| 50% | 459 | 393 | 384 | 312 | 366 | 401 | 482 | 587 | 694 | 896 | 691 | 438 |
| 60% | 409 | 365 | 354 | 264 | 280 | 345 | 462 | 540 | 658 | 828 | 545 | 343 |
| 70% | 333 | 318 | 303 | 207 | 230 | 285 | 422 | 493 | 627 | 599 | 404 | 296 |
| 80% | 261 | 238 | 250 | 171 | 174 | 241 | 332 | 441 | 560 | 505 | 374 | 244 |
| 90% | 196 | 175 | 169 | 136 | 151 | 199 | 260 | 346 | 440 | 398 | 306 | 181 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 431 | 387 | 405 | 444 | 546 | 595 | 558 | 578 | 664 | 782 | 620 | 433 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 468 | 453 | 560 | 757 | 1,032 | 1,072 | 846 | 732 | 767 | 982 | 829 | 628 |
| Above Normal (12%) | 478 | 401 | 375 | 403 | 559 | 723 | 572 | 644 | 718 | 960 | 828 | 587 |
| Below Normal (24%) | 447 | 374 | 352 | 338 | 346 | 357 | 466 | 588 | 701 | 830 | 594 | 367 |
| Dry (17%) | 422 | 371 | 334 | 269 | 225 | 274 | 394 | 449 | 612 | 567 | 405 | 259 |
| Critical (15%) | 297 | 274 | 263 | 174 | 179 | 222 | 264 | 325 | 400 | 381 | 292 | 195 |

**Alt2v1 w TUCP**

| Statistic | Monthly Capacity (MW) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 639 | 534 | 616 | 1,123 | 1,310 | 1,241 | 963 | 838 | 843 | 1,046 | 905 | 753 |
| 20% | 585 | 481 | 459 | 603 | 1,045 | 1,066 | 717 | 707 | 780 | 1,011 | 866 | 660 |
| 30% | 549 | 465 | 432 | 529 | 621 | 763 | 616 | 653 | 756 | 969 | 825 | 537 |
| 40% | 515 | 443 | 410 | 420 | 515 | 596 | 535 | 630 | 730 | 947 | 787 | 479 |
| 50% | 478 | 423 | 389 | 323 | 369 | 406 | 495 | 592 | 708 | 901 | 740 | 439 |
| 60% | 429 | 385 | 336 | 268 | 278 | 340 | 474 | 540 | 678 | 833 | 585 | 353 |
| 70% | 330 | 325 | 312 | 213 | 227 | 279 | 428 | 512 | 639 | 637 | 409 | 300 |

| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Monthly Capacity (MW) | | | | | | |
| 80% | 275 | 246 | 255 | 165 | 200 | 255 | 358 | 435 | 568 | 503 | 388 | 252 |
| 90% | 196 | 185 | 179 | 143 | 156 | 217 | 287 | 330 | 440 | 372 | 331 | 199 |
| **Long Term** | | | | | | | | | | | | |
| Full Simulation Period | 442 | 398 | 413 | 463 | 560 | 601 | 573 | 590 | 680 | 789 | 637 | 446 |
| **Water Year Types** | | | | | | | | | | | | |
| Wet (32%) | 478 | 461 | 571 | 777 | 1,051 | 1,091 | 865 | 757 | 793 | 995 | 842 | 642 |
| Above Normal (12%) | 476 | 420 | 390 | 437 | 560 | 689 | 580 | 665 | 744 | 975 | 842 | 624 |
| Below Normal (24%) | 456 | 391 | 351 | 351 | 363 | 372 | 482 | 591 | 718 | 845 | 634 | 375 |
| Dry (17%) | 448 | 380 | 339 | 279 | 244 | 274 | 397 | 450 | 618 | 548 | 398 | 268 |
| Critical (15%) | 308 | 275 | 277 | 202 | 187 | 226 | 287 | 332 | 400 | 386 | 307 | 201 |

**Alt2v1 w TUCP minus NAA**

| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Monthly Capacity (MW) | | | | | | |
| **Probability of Exceedance** | | | | | | | | | | | | |
| 10% | 25 | 10 | 27 | 6 | 26 | -25 | 5 | 62 | 24 | 6 | 19 | 15 |
| 20% | -2 | -2 | 9 | 10 | -25 | 18 | 19 | 20 | 25 | 26 | 22 | 4 |
| 30% | 0 | -3 | 17 | 41 | 0 | 9 | 14 | 17 | 25 | 3 | 10 | 38 |
| 40% | 21 | 16 | 9 | 29 | 31 | 48 | 37 | 19 | 18 | 17 | 16 | 12 |
| 50% | 19 | 31 | 5 | 11 | 3 | 5 | 14 | 6 | 14 | 6 | 48 | 1 |
| 60% | 20 | 20 | -18 | 4 | -2 | -5 | 12 | 0 | 19 | 5 | 40 | 11 |
| 70% | -3 | 8 | 9 | 6 | -2 | -6 | 6 | 19 | 13 | 39 | 5 | 4 |
| 80% | 14 | 7 | 5 | -6 | 26 | 14 | 26 | -6 | 8 | -2 | 14 | 8 |
| 90% | 0 | 10 | 10 | 7 | 5 | 18 | 27 | -16 | 0 | -27 | 26 | 18 |
| **Long Term** | | | | | | | | | | | | |
| Full Simulation Period | 11 | 11 | 8 | 19 | 15 | 6 | 15 | 12 | 17 | 7 | 17 | 13 |
| **Water Year Types** | | | | | | | | | | | | |
| Wet (32%) | 10 | 7 | 11 | 20 | 19 | 19 | 18 | 25 | 26 | 13 | 13 | 13 |
| Above Normal (12%) | -2 | 20 | 14 | 34 | 1 | -34 | 8 | 21 | 25 | 14 | 14 | 38 |
| Below Normal (24%) | 9 | 17 | -1 | 12 | 17 | 15 | 17 | 3 | 17 | 15 | 41 | 7 |
| Dry (17%) | 26 | 9 | 4 | 10 | 19 | 0 | 3 | 1 | 6 | -19 | -7 | 9 |
| Critical (15%) | 11 | 2 | 14 | 28 | 7 | 4 | 23 | 7 | -1 | 6 | 16 | 7 |

Table 5-4. SWP Total Capacity, Monthly Capacity

**NAA**

| Statistic | Monthly Capacity (MW) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 613 | 523 | 589 | 1,117 | 1,284 | 1,266 | 958 | 776 | 819 | 1,040 | 886 | 738 |
| 20% | 587 | 483 | 450 | 593 | 1,070 | 1,047 | 698 | 687 | 755 | 984 | 844 | 656 |
| 30% | 548 | 468 | 414 | 489 | 621 | 754 | 602 | 637 | 731 | 966 | 815 | 499 |
| 40% | 494 | 427 | 401 | 391 | 484 | 549 | 499 | 611 | 713 | 929 | 771 | 466 |
| 50% | 459 | 393 | 384 | 312 | 366 | 401 | 482 | 587 | 694 | 896 | 691 | 438 |
| 60% | 409 | 365 | 354 | 264 | 280 | 345 | 462 | 540 | 658 | 828 | 545 | 343 |
| 70% | 333 | 318 | 303 | 207 | 230 | 285 | 422 | 493 | 627 | 599 | 404 | 296 |
| 80% | 261 | 238 | 250 | 171 | 174 | 241 | 332 | 441 | 560 | 505 | 374 | 244 |
| 90% | 196 | 175 | 169 | 136 | 151 | 199 | 260 | 346 | 440 | 398 | 306 | 181 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 431 | 387 | 405 | 444 | 546 | 595 | 558 | 578 | 664 | 782 | 620 | 433 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 468 | 453 | 560 | 757 | 1,032 | 1,072 | 846 | 732 | 767 | 982 | 829 | 628 |
| Above Normal (12%) | 478 | 401 | 375 | 403 | 559 | 723 | 572 | 644 | 718 | 960 | 828 | 587 |
| Below Normal (24%) | 447 | 374 | 352 | 338 | 346 | 357 | 466 | 588 | 701 | 830 | 594 | 367 |
| Dry (17%) | 422 | 371 | 334 | 269 | 225 | 274 | 394 | 449 | 612 | 567 | 405 | 259 |
| Critical (15%) | 297 | 274 | 263 | 174 | 179 | 222 | 264 | 325 | 400 | 381 | 292 | 195 |

**Alt2v2 no TUCP**

| Statistic | Monthly Capacity (MW) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 645 | 541 | 605 | 1,116 | 1,326 | 1,280 | 963 | 827 | 837 | 1,052 | 898 | 760 |
| 20% | 589 | 491 | 451 | 614 | 1,053 | 996 | 698 | 722 | 775 | 1,012 | 857 | 659 |
| 30% | 552 | 464 | 427 | 528 | 627 | 743 | 585 | 646 | 742 | 969 | 827 | 535 |
| 40% | 501 | 438 | 403 | 414 | 513 | 570 | 506 | 622 | 727 | 940 | 779 | 485 |
| 50% | 465 | 414 | 376 | 340 | 380 | 408 | 491 | 576 | 694 | 897 | 687 | 415 |
| 60% | 419 | 371 | 339 | 273 | 282 | 335 | 448 | 528 | 669 | 829 | 573 | 351 |
| 70% | 348 | 316 | 312 | 198 | 221 | 287 | 397 | 486 | 629 | 606 | 458 | 297 |

| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Monthly Capacity (MW) | | | | | | | |
| 80% | 260 | 228 | 233 | 162 | 189 | 240 | 336 | 419 | 561 | 501 | 393 | 260 |
| 90% | 216 | 187 | 169 | 138 | 160 | 211 | 297 | 345 | 432 | 425 | 333 | 213 |
| **Long Term** | | | | | | | | | | | | |
| Full Simulation Period | 444 | 395 | 404 | 456 | 559 | 599 | 562 | 582 | 673 | 788 | 640 | 450 |
| **Water Year Types** | | | | | | | | | | | | |
| Wet (32%) | 484 | 458 | 567 | 765 | 1,055 | 1,090 | 857 | 757 | 794 | 997 | 843 | 647 |
| Above Normal (12%) | 475 | 410 | 375 | 426 | 547 | 667 | 558 | 653 | 733 | 969 | 830 | 625 |
| Below Normal (24%) | 462 | 388 | 347 | 352 | 363 | 366 | 455 | 574 | 698 | 822 | 638 | 373 |
| Dry (17%) | 448 | 376 | 336 | 290 | 242 | 279 | 390 | 440 | 603 | 557 | 426 | 275 |
| Critical (15%) | 300 | 281 | 247 | 176 | 187 | 236 | 300 | 326 | 408 | 405 | 299 | 211 |

**Alt2v2 no TUCP minus NAA**

| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Monthly Capacity (MW) | | | | | | | |
| **Probability of Exceedance** | | | | | | | | | | | | |
| 10% | 32 | 18 | 16 | -1 | 42 | 14 | 5 | 52 | 17 | 12 | 12 | 22 |
| 20% | 2 | 8 | 1 | 21 | -17 | -52 | 0 | 34 | 20 | 28 | 13 | 3 |
| 30% | 4 | -4 | 13 | 39 | 7 | -11 | -17 | 9 | 11 | 3 | 12 | 37 |
| 40% | 7 | 11 | 2 | 23 | 29 | 21 | 8 | 11 | 14 | 10 | 9 | 19 |
| 50% | 6 | 21 | -8 | 28 | 15 | 7 | 10 | -11 | 0 | 1 | -4 | -22 |
| 60% | 10 | 6 | -15 | 9 | 3 | -10 | -14 | -11 | 11 | 0 | 29 | 8 |
| 70% | 15 | -2 | 9 | -9 | -9 | 2 | -25 | -7 | 2 | 8 | 54 | 1 |
| 80% | 0 | -11 | -17 | -9 | 15 | -1 | 3 | -22 | 1 | -4 | 19 | 16 |
| 90% | 20 | 12 | 0 | 2 | 9 | 12 | 37 | -1 | -9 | 27 | 27 | 32 |
| **Long Term** | | | | | | | | | | | | |
| Full Simulation Period | 14 | 8 | -1 | 12 | 14 | 4 | 4 | 4 | 9 | 6 | 20 | 17 |
| **Water Year Types** | | | | | | | | | | | | |
| Wet (32%) | 16 | 5 | 8 | 7 | 23 | 18 | 11 | 25 | 27 | 15 | 14 | 18 |
| Above Normal (12%) | -2 | 10 | 0 | 23 | -12 | -56 | -13 | 9 | 15 | 9 | 2 | 38 |
| Below Normal (24%) | 15 | 14 | -5 | 14 | 17 | 9 | -11 | -14 | -3 | -8 | 44 | 5 |
| Dry (17%) | 26 | 5 | 1 | 22 | 17 | 5 | -5 | -8 | -9 | -9 | 21 | 16 |
| Critical (15%) | 3 | 8 | -17 | 1 | 8 | 14 | 36 | 1 | 7 | 24 | 8 | 16 |

## Table 5-5. SWP Total Capacity, Monthly Capacity

**NAA**

| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Monthly Capacity (MW) | | | | | | |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 613 | 523 | 589 | 1,117 | 1,284 | 1,266 | 958 | 776 | 819 | 1,040 | 886 | 738 |
| 20% | 587 | 483 | 450 | 593 | 1,070 | 1,047 | 698 | 687 | 755 | 984 | 844 | 656 |
| 30% | 548 | 468 | 414 | 489 | 621 | 754 | 602 | 637 | 731 | 966 | 815 | 499 |
| 40% | 494 | 427 | 401 | 391 | 484 | 549 | 499 | 611 | 713 | 929 | 771 | 466 |
| 50% | 459 | 393 | 384 | 312 | 366 | 401 | 482 | 587 | 694 | 896 | 691 | 438 |
| 60% | 409 | 365 | 354 | 264 | 280 | 345 | 462 | 540 | 658 | 828 | 545 | 343 |
| 70% | 333 | 318 | 303 | 207 | 230 | 285 | 422 | 493 | 627 | 599 | 404 | 296 |
| 80% | 261 | 238 | 250 | 171 | 174 | 241 | 332 | 441 | 560 | 505 | 374 | 244 |
| 90% | 196 | 175 | 169 | 136 | 151 | 199 | 260 | 346 | 440 | 398 | 306 | 181 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 431 | 387 | 405 | 444 | 546 | 595 | 558 | 578 | 664 | 782 | 620 | 433 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 468 | 453 | 560 | 757 | 1,032 | 1,072 | 846 | 732 | 767 | 982 | 829 | 628 |
| Above Normal (12%) | 478 | 401 | 375 | 403 | 559 | 723 | 572 | 644 | 718 | 960 | 828 | 587 |
| Below Normal (24%) | 447 | 374 | 352 | 338 | 346 | 357 | 466 | 588 | 701 | 830 | 594 | 367 |
| Dry (17%) | 422 | 371 | 334 | 269 | 225 | 274 | 394 | 449 | 612 | 567 | 405 | 259 |
| Critical (15%) | 297 | 274 | 263 | 174 | 179 | 222 | 264 | 325 | 400 | 381 | 292 | 195 |

**Alt2v3 no TUCP**

| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Monthly Capacity (MW) | | | | | | |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 647 | 542 | 575 | 1,118 | 1,336 | 1,269 | 963 | 838 | 835 | 1,049 | 901 | 758 |
| 20% | 590 | 488 | 450 | 622 | 1,052 | 994 | 721 | 717 | 757 | 994 | 864 | 660 |
| 30% | 552 | 462 | 418 | 529 | 630 | 736 | 593 | 662 | 733 | 963 | 819 | 538 |
| 40% | 489 | 437 | 388 | 412 | 530 | 557 | 527 | 624 | 712 | 939 | 775 | 489 |
| 50% | 465 | 413 | 371 | 327 | 374 | 423 | 505 | 588 | 683 | 886 | 694 | 413 |
| 60% | 416 | 371 | 344 | 279 | 287 | 332 | 478 | 539 | 654 | 830 | 578 | 353 |
| 70% | 353 | 312 | 301 | 193 | 224 | 280 | 419 | 498 | 616 | 605 | 446 | 302 |

| Statistic | Monthly Capacity (MW) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| 80% | 249 | 232 | 223 | 163 | 186 | 242 | 347 | 420 | 530 | 510 | 398 | 256 |
| 90% | 203 | 182 | 153 | 140 | 158 | 215 | 291 | 340 | 416 | 420 | 327 | 211 |
| **Long Term** | | | | | | | | | | | | |
| Full Simulation Period | 443 | 393 | 400 | 458 | 562 | 597 | 574 | 587 | 661 | 786 | 639 | 449 |
| **Water Year Types** | | | | | | | | | | | | |
| Wet (32%) | 483 | 458 | 561 | 771 | 1,060 | 1,086 | 862 | 761 | 791 | 998 | 844 | 646 |
| Above Normal (12%) | 474 | 411 | 371 | 432 | 548 | 653 | 581 | 671 | 715 | 962 | 835 | 618 |
| Below Normal (24%) | 463 | 387 | 341 | 356 | 364 | 368 | 481 | 579 | 675 | 822 | 637 | 379 |
| Dry (17%) | 446 | 376 | 334 | 280 | 243 | 275 | 403 | 442 | 585 | 551 | 416 | 272 |
| Critical (15%) | 301 | 272 | 247 | 173 | 189 | 237 | 298 | 325 | 403 | 404 | 301 | 208 |

**Alt2v3 no TUCP minus NAA**

| Statistic | Monthly Capacity (MW) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| **Probability of Exceedance** | | | | | | | | | | | | |
| 10% | 34 | 18 | -15 | 2 | 52 | 2 | 5 | 62 | 15 | 9 | 15 | 20 |
| 20% | 3 | 5 | 0 | 29 | -18 | -53 | 23 | 30 | 2 | 10 | 21 | 4 |
| 30% | 4 | -6 | 4 | 41 | 9 | -18 | -10 | 25 | 2 | -3 | 4 | 39 |
| 40% | -5 | 10 | -14 | 21 | 47 | 8 | 29 | 13 | -1 | 10 | 4 | 23 |
| 50% | 6 | 20 | -13 | 16 | 8 | 21 | 23 | 1 | -11 | -10 | 3 | -25 |
| 60% | 7 | 6 | -10 | 15 | 8 | -13 | 16 | 0 | -4 | 1 | 34 | 11 |
| 70% | 20 | -6 | -2 | -14 | -6 | -5 | -2 | 5 | -11 | 6 | 42 | 5 |
| 80% | -12 | -6 | -27 | -8 | 13 | 1 | 15 | -21 | -30 | 5 | 24 | 12 |
| 90% | 6 | 7 | -16 | 4 | 7 | 17 | 32 | -5 | -24 | 22 | 21 | 30 |
| **Long Term** | | | | | | | | | | | | |
| Full Simulation Period | 13 | 6 | -5 | 14 | 17 | 1 | 17 | 9 | -3 | 4 | 19 | 16 |
| **Water Year Types** | | | | | | | | | | | | |
| Wet (32%) | 14 | 4 | 1 | 14 | 28 | 15 | 16 | 29 | 24 | 15 | 15 | 18 |
| Above Normal (12%) | -4 | 11 | -4 | 29 | -11 | -70 | 9 | 26 | -3 | 2 | 7 | 31 |
| Below Normal (24%) | 16 | 13 | -11 | 17 | 18 | 11 | 15 | -9 | -25 | -8 | 44 | 12 |
| Dry (17%) | 24 | 5 | -1 | 11 | 18 | 1 | 9 | -7 | -27 | -16 | 11 | 13 |
| Critical (15%) | 5 | -2 | -16 | -1 | 9 | 14 | 34 | 0 | 3 | 23 | 10 | 13 |

Table 5-6. SWP Total Capacity, Monthly Capacity

**NAA**

| Statistic | Monthly Capacity (MW) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 613 | 523 | 589 | 1,117 | 1,284 | 1,266 | 958 | 776 | 819 | 1,040 | 886 | 738 |
| 20% | 587 | 483 | 450 | 593 | 1,070 | 1,047 | 698 | 687 | 755 | 984 | 844 | 656 |
| 30% | 548 | 468 | 414 | 489 | 621 | 754 | 602 | 637 | 731 | 966 | 815 | 499 |
| 40% | 494 | 427 | 401 | 391 | 484 | 549 | 499 | 611 | 713 | 929 | 771 | 466 |
| 50% | 459 | 393 | 384 | 312 | 366 | 401 | 482 | 587 | 694 | 896 | 691 | 438 |
| 60% | 409 | 365 | 354 | 264 | 280 | 345 | 462 | 540 | 658 | 828 | 545 | 343 |
| 70% | 333 | 318 | 303 | 207 | 230 | 285 | 422 | 493 | 627 | 599 | 404 | 296 |
| 80% | 261 | 238 | 250 | 171 | 174 | 241 | 332 | 441 | 560 | 505 | 374 | 244 |
| 90% | 196 | 175 | 169 | 136 | 151 | 199 | 260 | 346 | 440 | 398 | 306 | 181 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 431 | 387 | 405 | 444 | 546 | 595 | 558 | 578 | 664 | 782 | 620 | 433 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 468 | 453 | 560 | 757 | 1,032 | 1,072 | 846 | 732 | 767 | 982 | 829 | 628 |
| Above Normal (12%) | 478 | 401 | 375 | 403 | 559 | 723 | 572 | 644 | 718 | 960 | 828 | 587 |
| Below Normal (24%) | 447 | 374 | 352 | 338 | 346 | 357 | 466 | 588 | 701 | 830 | 594 | 367 |
| Dry (17%) | 422 | 371 | 334 | 269 | 225 | 274 | 394 | 449 | 612 | 567 | 405 | 259 |
| Critical (15%) | 297 | 274 | 263 | 174 | 179 | 222 | 264 | 325 | 400 | 381 | 292 | 195 |

**Alt3**

| Statistic | Monthly Capacity (MW) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 525 | 458 | 934 | 1,029 | 1,163 | 1,207 | 916 | 887 | 611 | 580 | 510 | 449 |
| 20% | 468 | 386 | 579 | 700 | 914 | 906 | 705 | 771 | 589 | 555 | 469 | 402 |
| 30% | 407 | 333 | 442 | 446 | 612 | 726 | 627 | 691 | 561 | 526 | 439 | 376 |
| 40% | 347 | 304 | 375 | 326 | 428 | 526 | 569 | 612 | 534 | 494 | 422 | 357 |
| 50% | 267 | 278 | 321 | 246 | 302 | 425 | 461 | 499 | 496 | 450 | 367 | 302 |
| 60% | 234 | 238 | 270 | 205 | 253 | 352 | 395 | 421 | 465 | 408 | 319 | 238 |
| 70% | 193 | 215 | 235 | 184 | 201 | 295 | 340 | 376 | 424 | 378 | 287 | 199 |

| Statistic | Monthly Capacity (MW) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| 80% | 155 | 181 | 197 | 163 | 179 | 243 | 313 | 349 | 385 | 348 | 269 | 140 |
| 90% | 115 | 148 | 165 | 140 | 143 | 189 | 262 | 284 | 331 | 308 | 236 | 104 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 314 | 308 | 418 | 410 | 488 | 553 | 529 | 549 | 487 | 461 | 369 | 291 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 370 | 393 | 670 | 744 | 904 | 931 | 819 | 808 | 583 | 589 | 472 | 430 |
| Above Normal (12%) | 334 | 287 | 340 | 385 | 525 | 667 | 578 | 646 | 492 | 463 | 386 | 362 |
| Below Normal (24%) | 320 | 300 | 345 | 270 | 313 | 400 | 432 | 462 | 458 | 418 | 342 | 252 |
| Dry (17%) | 297 | 271 | 289 | 190 | 207 | 270 | 340 | 379 | 480 | 404 | 312 | 180 |
| Critical (15%) | 191 | 195 | 201 | 191 | 166 | 218 | 244 | 251 | 330 | 317 | 246 | 129 |

**Alt3 minus NAA**

| Statistic | Monthly Capacity (MW) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | -88 | -65 | 345 | -88 | -120 | -60 | -42 | 112 | -208 | -460 | -376 | -289 |
| 20% | -119 | -96 | 129 | 106 | -156 | -141 | 6 | 84 | -166 | -429 | -374 | -254 |
| 30% | -141 | -135 | 27 | -43 | -9 | -28 | 25 | 55 | -170 | -440 | -376 | -123 |
| 40% | -147 | -122 | -26 | -65 | -56 | -23 | 70 | 1 | -179 | -435 | -349 | -110 |
| 50% | -192 | -114 | -62 | -66 | -64 | 24 | -20 | -88 | -198 | -445 | -324 | -135 |
| 60% | -175 | -127 | -84 | -59 | -26 | 7 | -67 | -119 | -194 | -421 | -226 | -105 |
| 70% | -140 | -103 | -68 | -23 | -29 | 10 | -82 | -117 | -203 | -221 | -117 | -97 |
| 80% | -105 | -58 | -53 | -7 | 5 | 2 | -19 | -93 | -174 | -157 | -104 | -104 |
| 90% | -81 | -27 | -4 | 4 | -8 | -10 | 2 | -62 | -109 | -90 | -70 | -77 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | -116 | -79 | 13 | -34 | -58 | -43 | -28 | -29 | -177 | -321 | -250 | -142 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | -98 | -60 | 111 | -13 | -128 | -141 | -27 | 75 | -184 | -393 | -358 | -199 |
| Above Normal (12%) | -144 | -114 | -35 | -18 | -33 | -56 | 6 | 2 | -226 | -497 | -442 | -225 |
| Below Normal (24%) | -127 | -74 | -7 | -69 | -33 | 43 | -34 | -126 | -243 | -412 | -252 | -116 |
| Dry (17%) | -125 | -100 | -45 | -78 | -18 | -4 | -54 | -70 | -132 | -162 | -93 | -79 |
| Critical (15%) | -106 | -78 | -62 | 16 | -14 | -4 | -20 | -74 | -70 | -64 | -45 | -66 |

Table 5-7. SWP Total Capacity, Monthly Capacity

**NAA**

| Statistic | Monthly Capacity (MW) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 613 | 523 | 589 | 1,117 | 1,284 | 1,266 | 958 | 776 | 819 | 1,040 | 886 | 738 |
| 20% | 587 | 483 | 450 | 593 | 1,070 | 1,047 | 698 | 687 | 755 | 984 | 844 | 656 |
| 30% | 548 | 468 | 414 | 489 | 621 | 754 | 602 | 637 | 731 | 966 | 815 | 499 |
| 40% | 494 | 427 | 401 | 391 | 484 | 549 | 499 | 611 | 713 | 929 | 771 | 466 |
| 50% | 459 | 393 | 384 | 312 | 366 | 401 | 482 | 587 | 694 | 896 | 691 | 438 |
| 60% | 409 | 365 | 354 | 264 | 280 | 345 | 462 | 540 | 658 | 828 | 545 | 343 |
| 70% | 333 | 318 | 303 | 207 | 230 | 285 | 422 | 493 | 627 | 599 | 404 | 296 |
| 80% | 261 | 238 | 250 | 171 | 174 | 241 | 332 | 441 | 560 | 505 | 374 | 244 |
| 90% | 196 | 175 | 169 | 136 | 151 | 199 | 260 | 346 | 440 | 398 | 306 | 181 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 431 | 387 | 405 | 444 | 546 | 595 | 558 | 578 | 664 | 782 | 620 | 433 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 468 | 453 | 560 | 757 | 1,032 | 1,072 | 846 | 732 | 767 | 982 | 829 | 628 |
| Above Normal (12%) | 478 | 401 | 375 | 403 | 559 | 723 | 572 | 644 | 718 | 960 | 828 | 587 |
| Below Normal (24%) | 447 | 374 | 352 | 338 | 346 | 357 | 466 | 588 | 701 | 830 | 594 | 367 |
| Dry (17%) | 422 | 371 | 334 | 269 | 225 | 274 | 394 | 449 | 612 | 567 | 405 | 259 |
| Critical (15%) | 297 | 274 | 263 | 174 | 179 | 222 | 264 | 325 | 400 | 381 | 292 | 195 |

**Alt4**

| Statistic | Monthly Capacity (MW) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 655 | 528 | 615 | 1,104 | 1,295 | 1,237 | 961 | 857 | 852 | 1,049 | 901 | 754 |
| 20% | 587 | 482 | 451 | 587 | 1,052 | 1,052 | 711 | 711 | 780 | 1,013 | 863 | 662 |
| 30% | 550 | 461 | 427 | 523 | 617 | 775 | 606 | 652 | 752 | 970 | 836 | 530 |
| 40% | 513 | 451 | 401 | 390 | 512 | 586 | 535 | 623 | 726 | 951 | 784 | 478 |
| 50% | 480 | 423 | 380 | 310 | 362 | 412 | 495 | 601 | 706 | 906 | 741 | 442 |
| 60% | 435 | 372 | 347 | 262 | 265 | 347 | 475 | 548 | 675 | 823 | 607 | 356 |
| 70% | 345 | 318 | 317 | 214 | 232 | 295 | 428 | 509 | 644 | 606 | 423 | 305 |

| Statistic | Monthly Capacity (MW) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| 80% | 275 | 252 | 260 | 162 | 194 | 259 | 354 | 456 | 561 | 512 | 388 | 259 |
| 90% | 190 | 184 | 184 | 144 | 157 | 217 | 302 | 351 | 443 | 399 | 336 | 187 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 447 | 398 | 411 | 454 | 555 | 603 | 574 | 594 | 682 | 791 | 640 | 448 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 483 | 457 | 567 | 761 | 1,042 | 1,091 | 864 | 758 | 795 | 999 | 843 | 646 |
| Above Normal (12%) | 482 | 421 | 377 | 423 | 552 | 685 | 577 | 655 | 733 | 975 | 838 | 620 |
| Below Normal (24%) | 463 | 397 | 350 | 347 | 358 | 371 | 478 | 590 | 718 | 838 | 638 | 374 |
| Dry (17%) | 451 | 383 | 342 | 271 | 239 | 279 | 405 | 458 | 621 | 553 | 403 | 271 |
| Critical (15%) | 307 | 275 | 280 | 200 | 192 | 235 | 299 | 353 | 413 | 396 | 320 | 207 |

**Alt4 minus NAA**

| Statistic | Monthly Capacity (MW) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 42 | 5 | 26 | -12 | 11 | -29 | 3 | 81 | 32 | 9 | 15 | 16 |
| 20% | -1 | -1 | 1 | -7 | -18 | 5 | 13 | 24 | 25 | 29 | 19 | 6 |
| 30% | 2 | -6 | 13 | 35 | -4 | 21 | 3 | 15 | 21 | 4 | 21 | 31 |
| 40% | 19 | 24 | -1 | -1 | 28 | 37 | 37 | 11 | 14 | 21 | 13 | 12 |
| 50% | 21 | 30 | -4 | -1 | -3 | 11 | 14 | 14 | 12 | 11 | 49 | 5 |
| 60% | 26 | 7 | -7 | -2 | -15 | 2 | 13 | 8 | 16 | -5 | 62 | 13 |
| 70% | 11 | 0 | 14 | 7 | 2 | 10 | 6 | 16 | 17 | 7 | 19 | 9 |
| 80% | 15 | 14 | 11 | -8 | 20 | 18 | 21 | 14 | 1 | 7 | 14 | 16 |
| 90% | -7 | 9 | 15 | 9 | 5 | 18 | 43 | 6 | 3 | 1 | 30 | 6 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 16 | 11 | 6 | 10 | 9 | 8 | 16 | 16 | 18 | 9 | 20 | 15 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 15 | 4 | 7 | 4 | 10 | 20 | 18 | 25 | 28 | 17 | 13 | 18 |
| Above Normal (12%) | 5 | 21 | 2 | 20 | -7 | -38 | 5 | 11 | 14 | 15 | 10 | 33 |
| Below Normal (24%) | 16 | 23 | -2 | 8 | 12 | 14 | 13 | 2 | 17 | 8 | 45 | 7 |
| Dry (17%) | 29 | 12 | 8 | 3 | 14 | 5 | 11 | 10 | 9 | -13 | -2 | 12 |
| Critical (15%) | 10 | 1 | 17 | 26 | 13 | 13 | 35 | 28 | 13 | 16 | 29 | 12 |

Figure 5-1. SWP Total Capacity, Long-Term Average Capacity
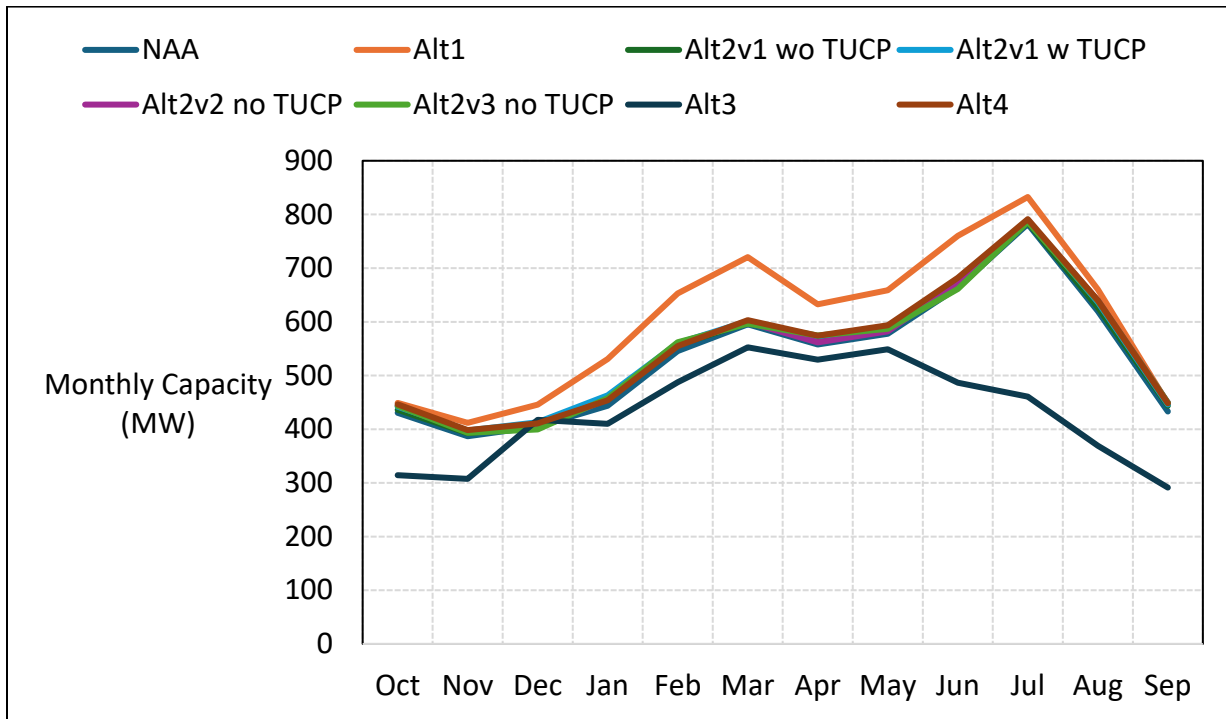


Figure 5-2. SWP Total Capacity, Wet Year Average Capacity
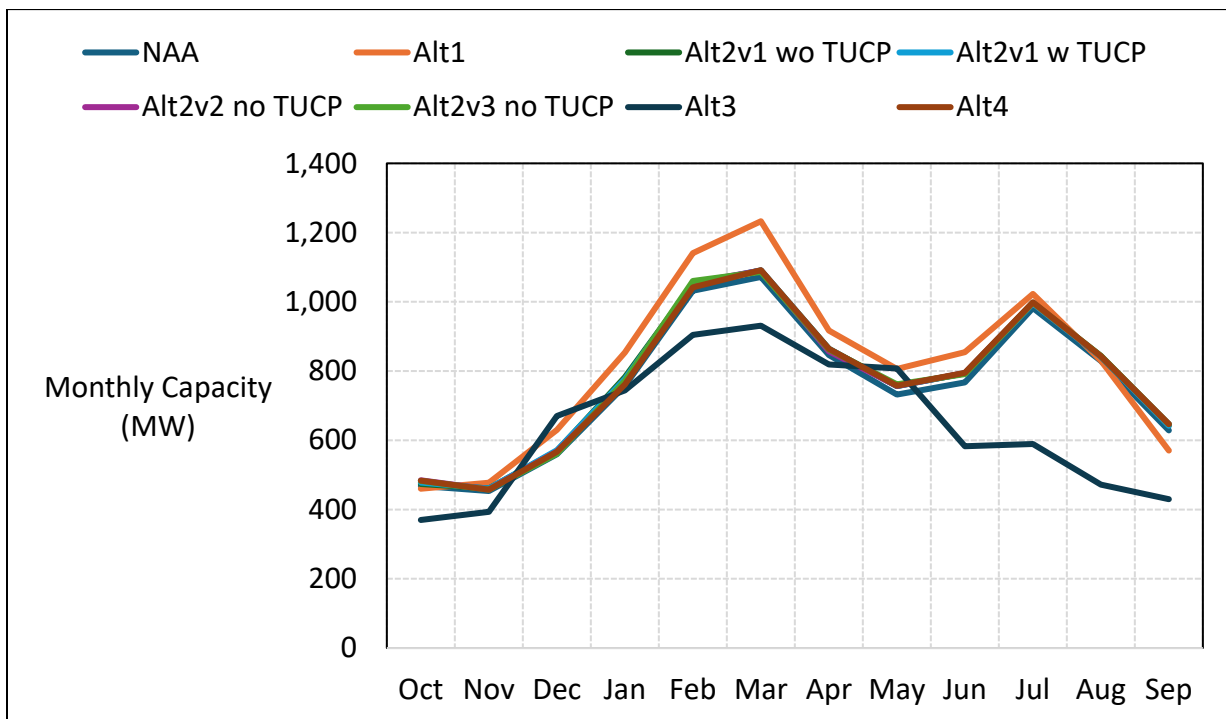
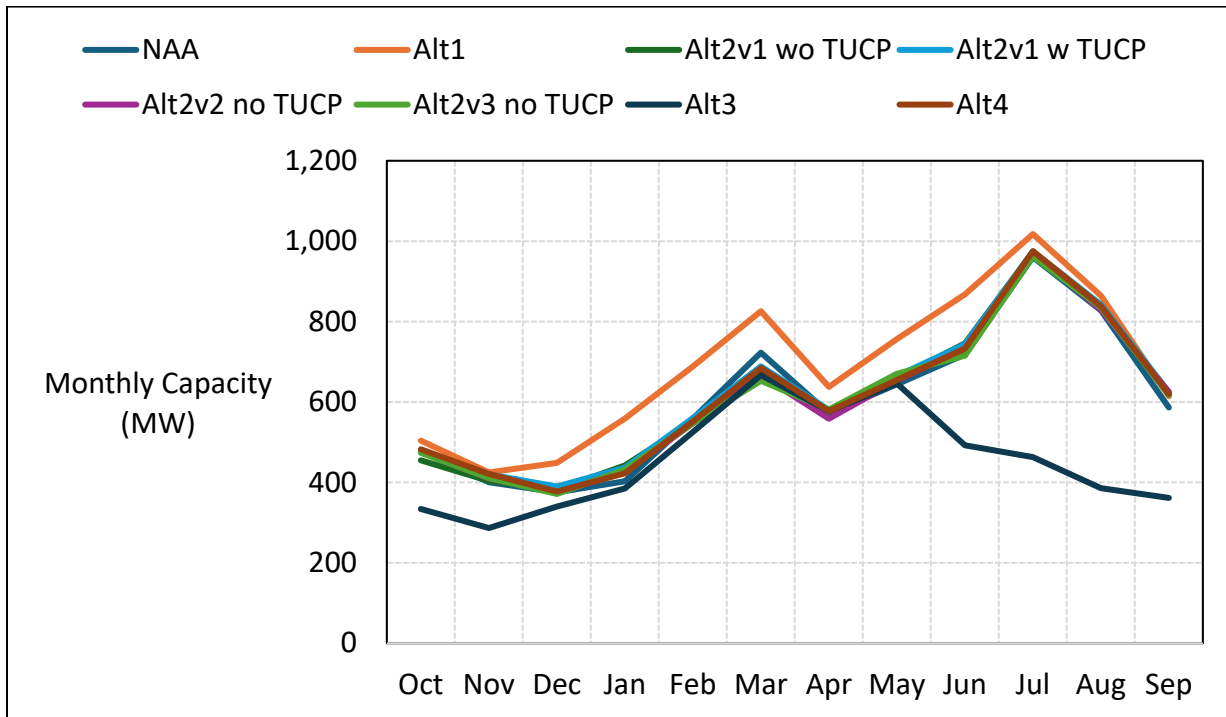Figure 5-3. SWP Total Capacity, Above Normal Year Average Capacity



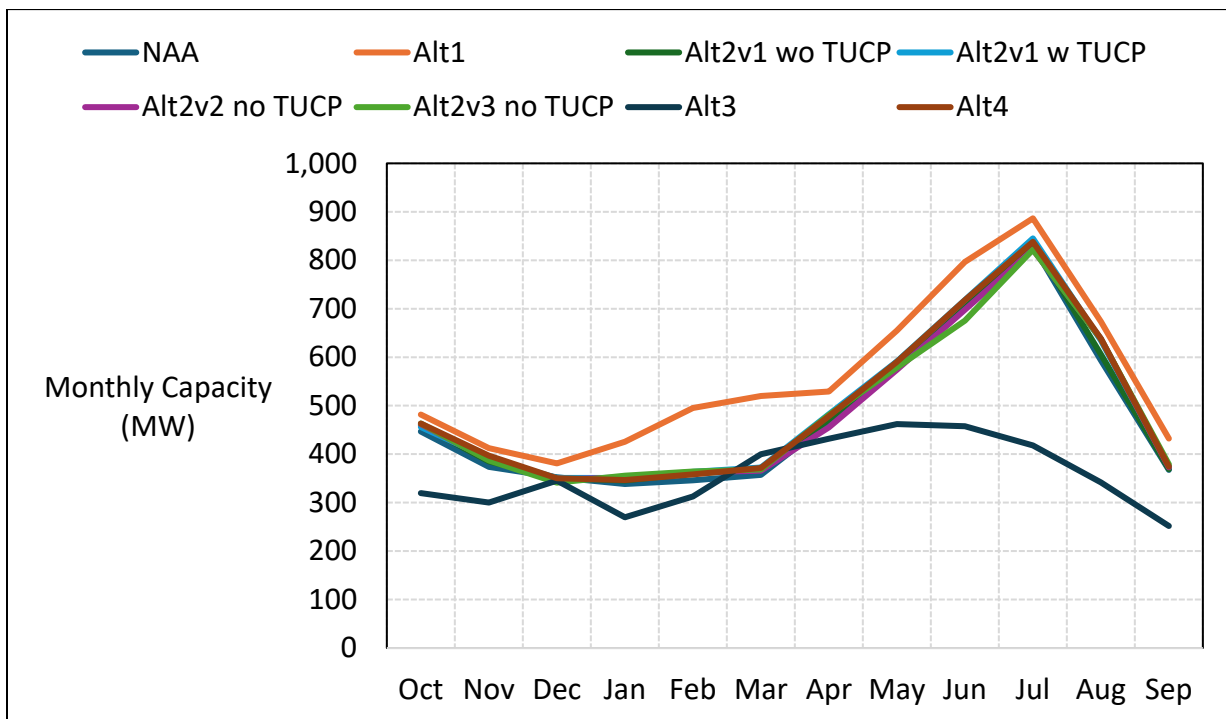Figure 5-4. SWP Total Capacity, Below Normal Year Average Capacity

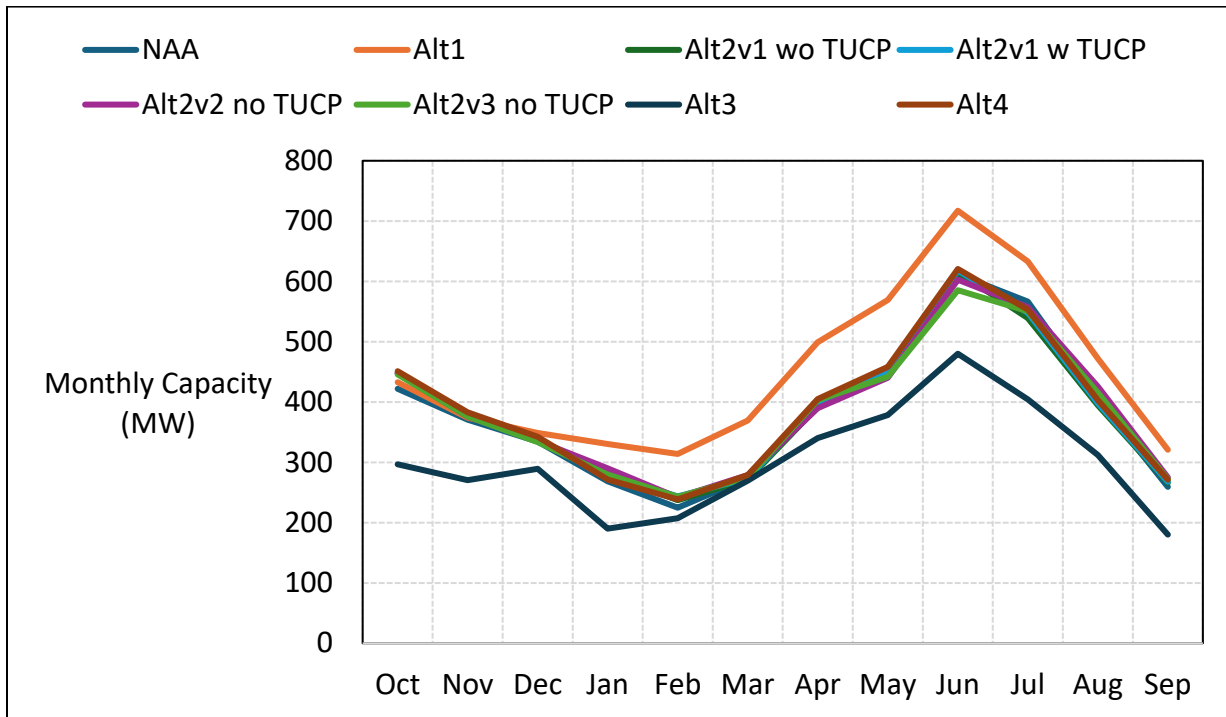Figure 5-5. SWP Total Capacity, Dry Year Average Capacity



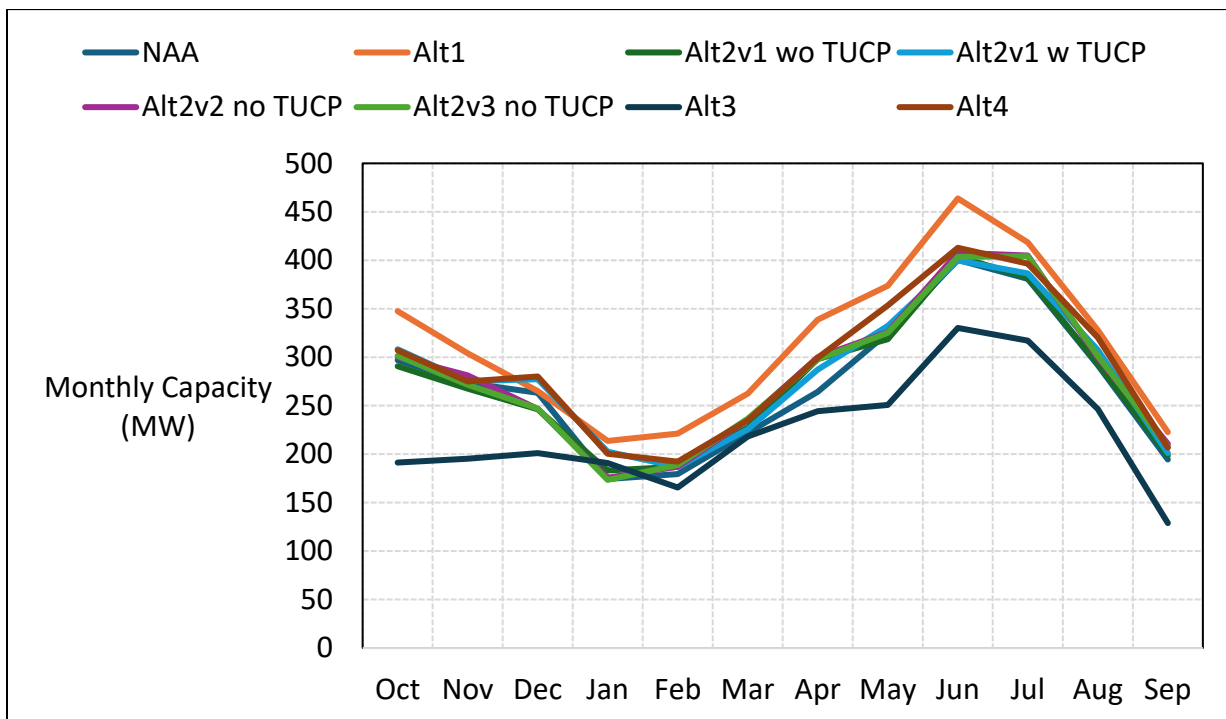Figure 5-6. SWP Total Capacity, Critical Year Average Capacity
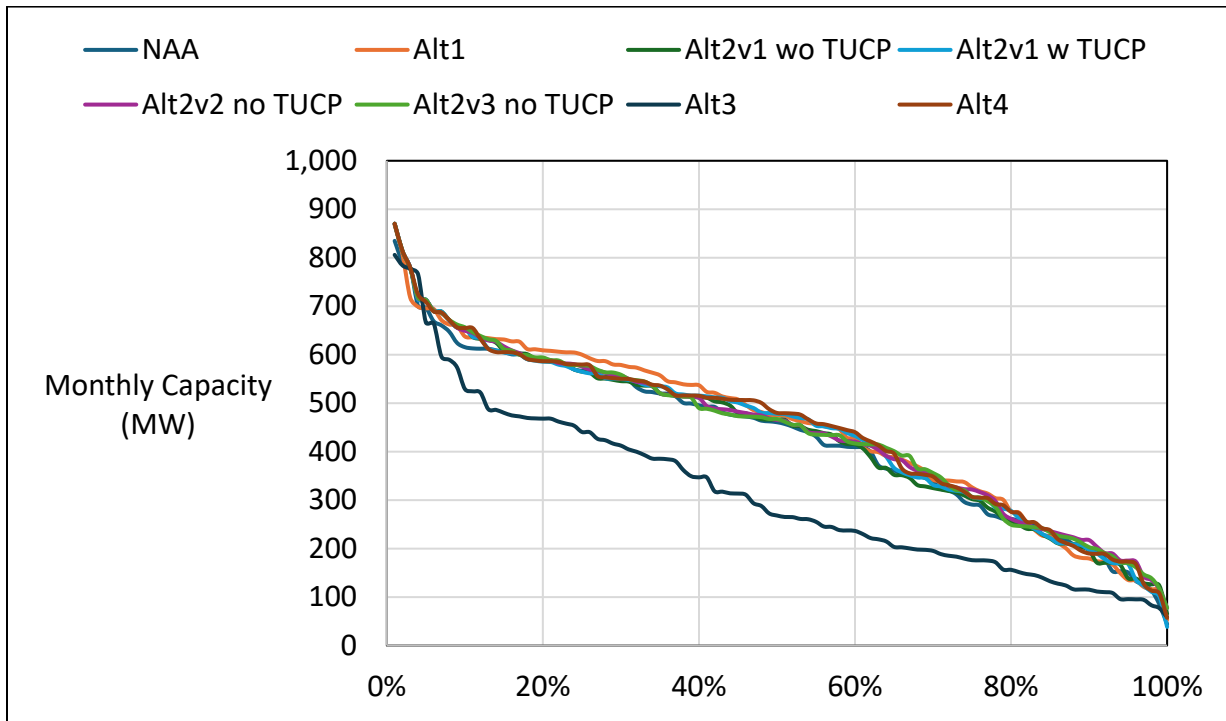
## Figure 5-7. SWP Total Capacity, October



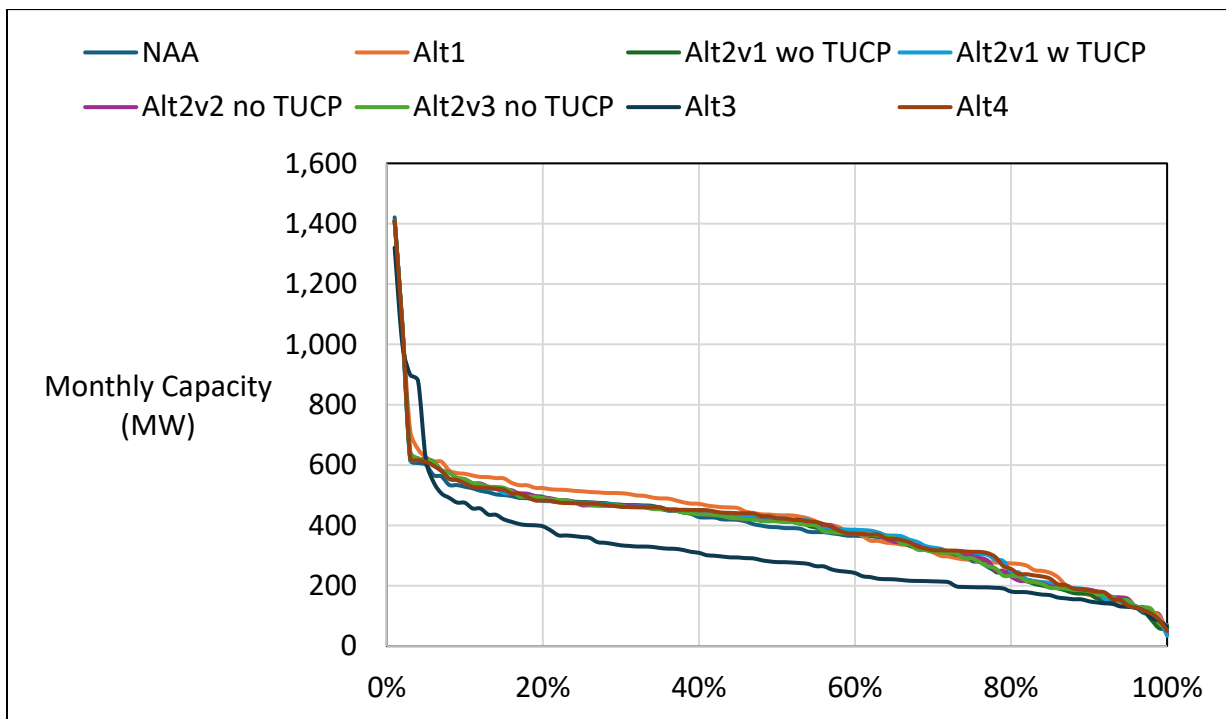## Figure 5-8. SWP Total Capacity, November
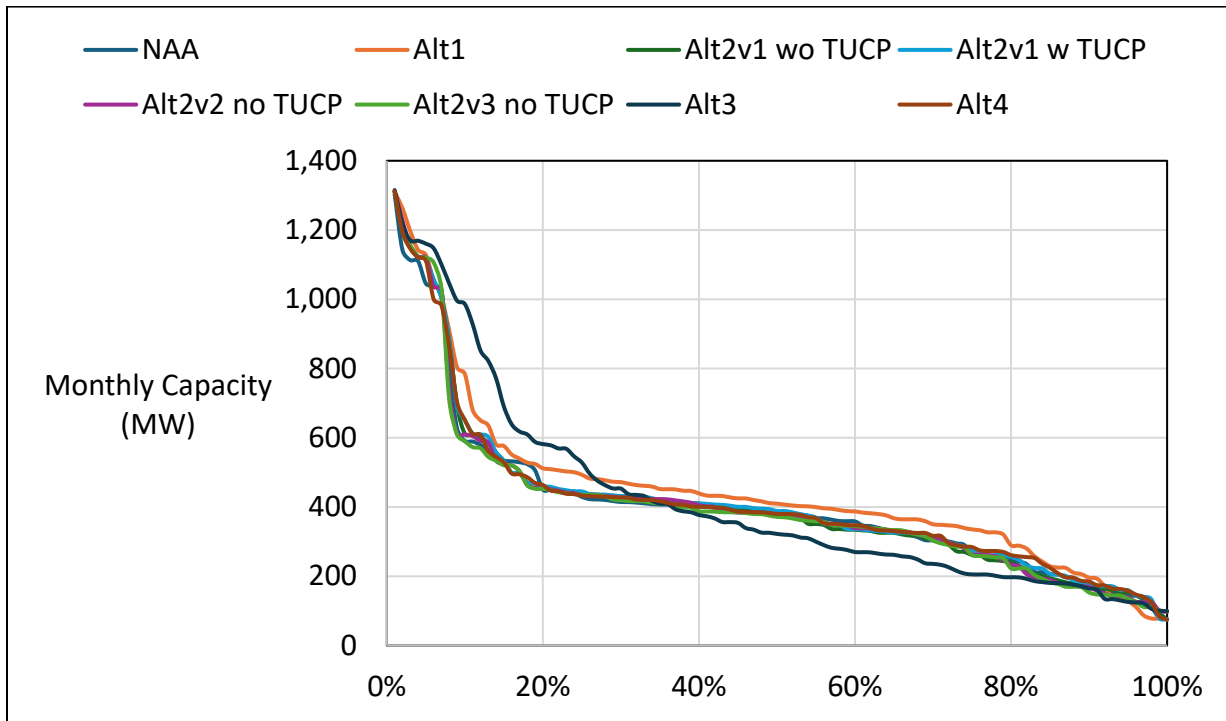
Figure 5-9. SWP Total Capacity, December



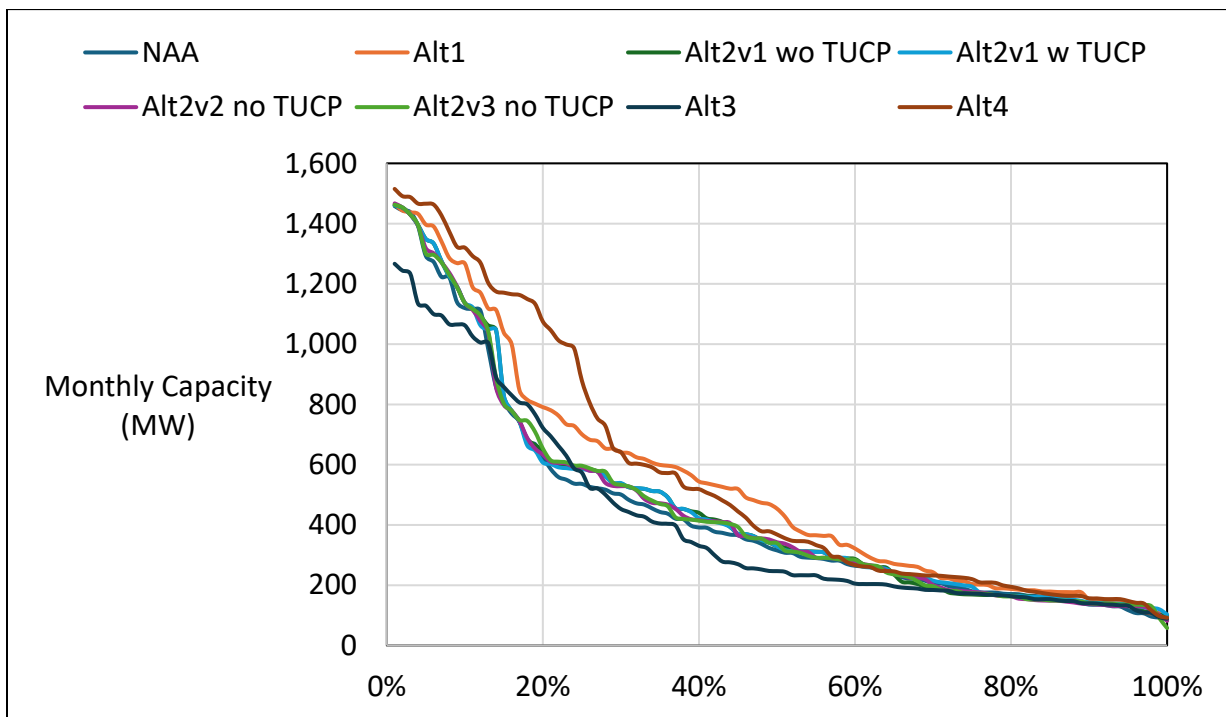Figure 5-10. SWP Total Capacity, January

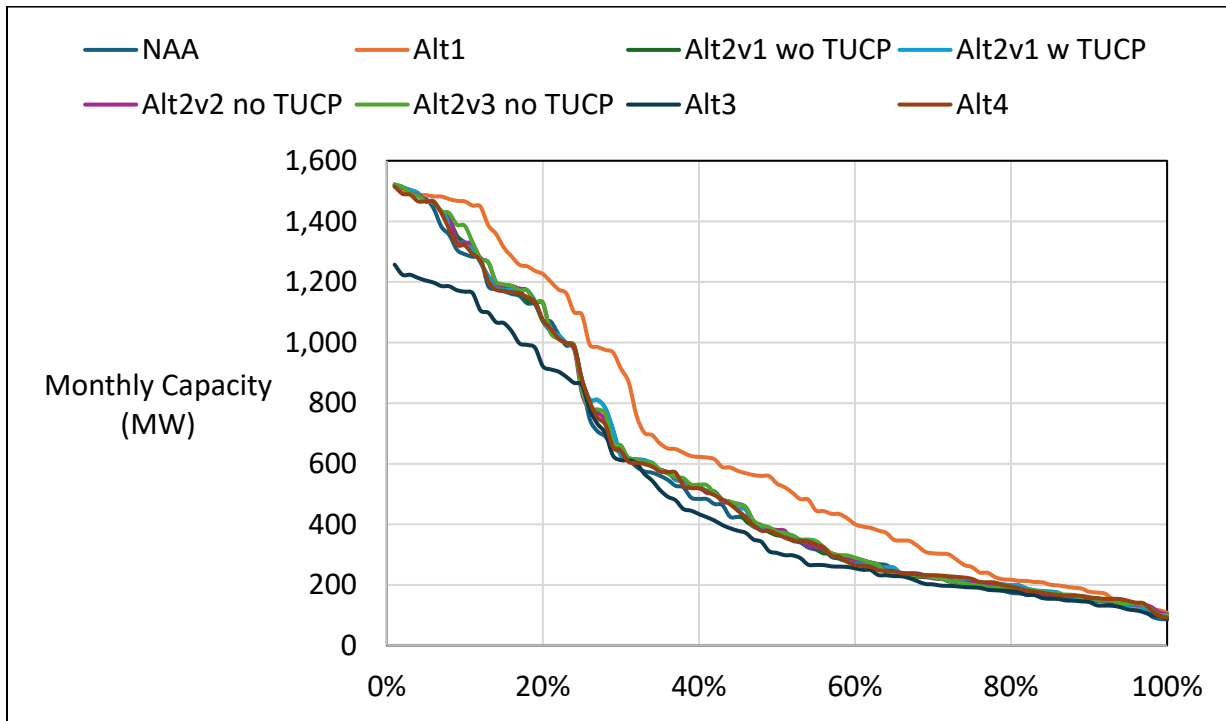## Figure 5-11. SWP Total Capacity, February



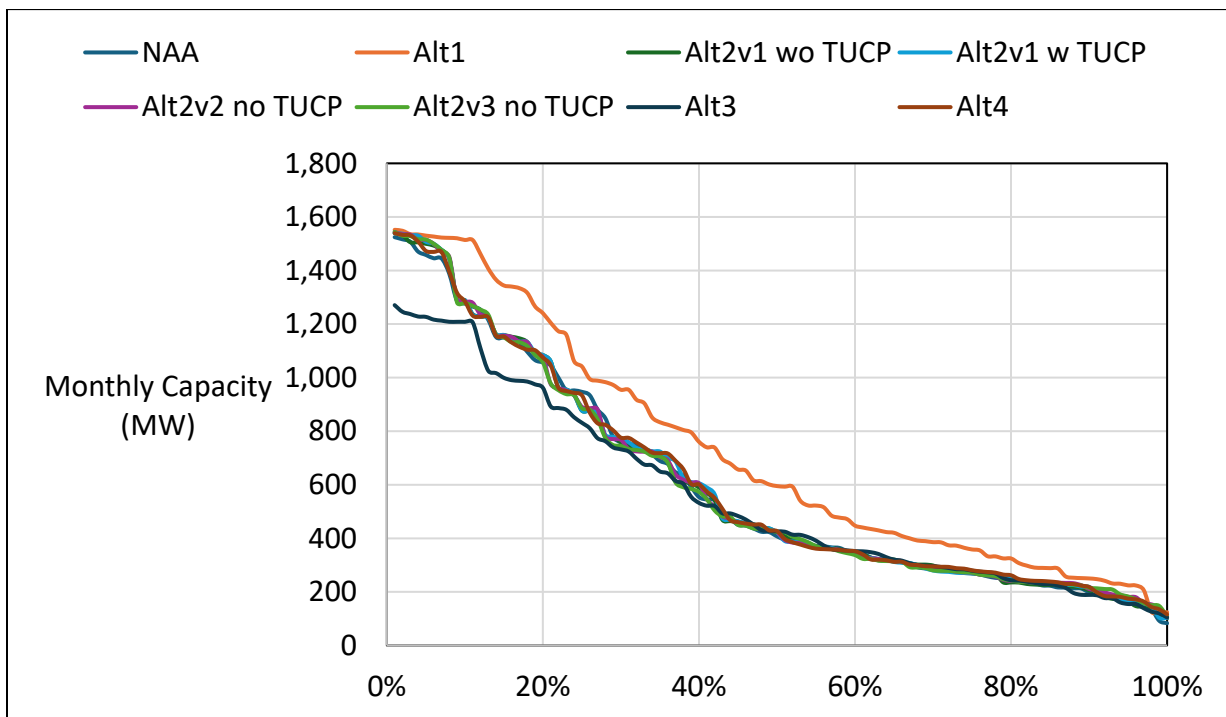## Figure 5-12. SWP Total Capacity, March
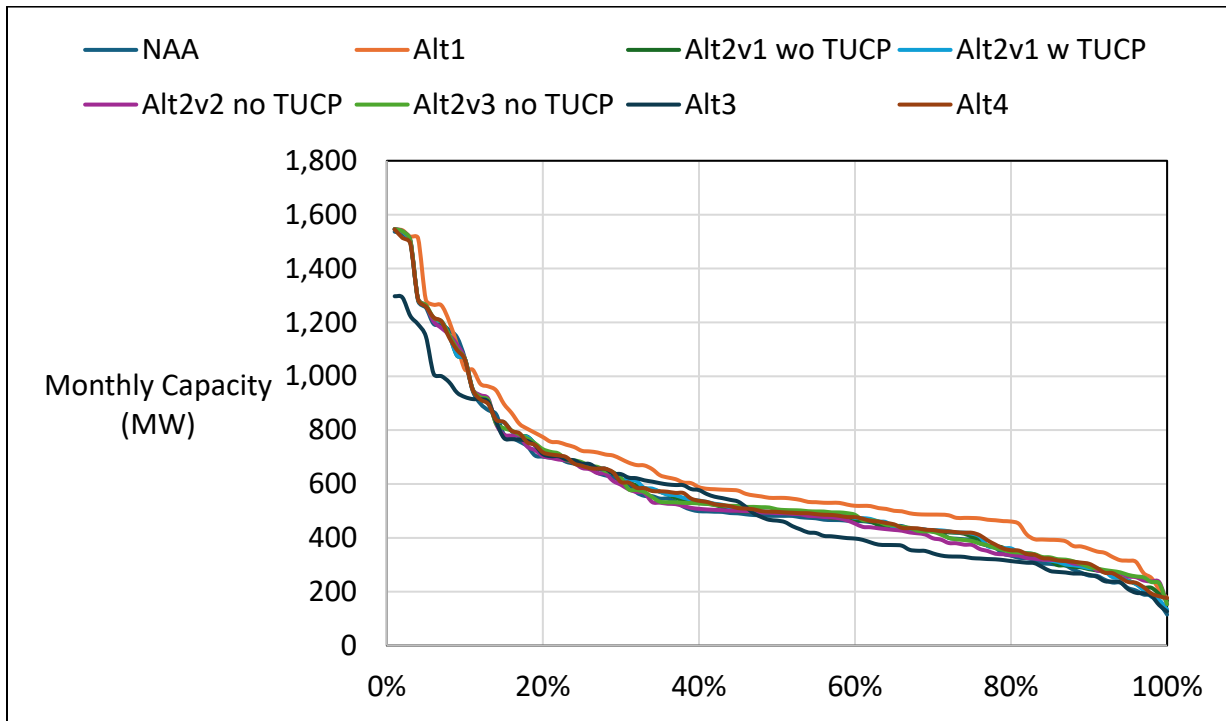
Figure 5-13. SWP Total Capacity, April
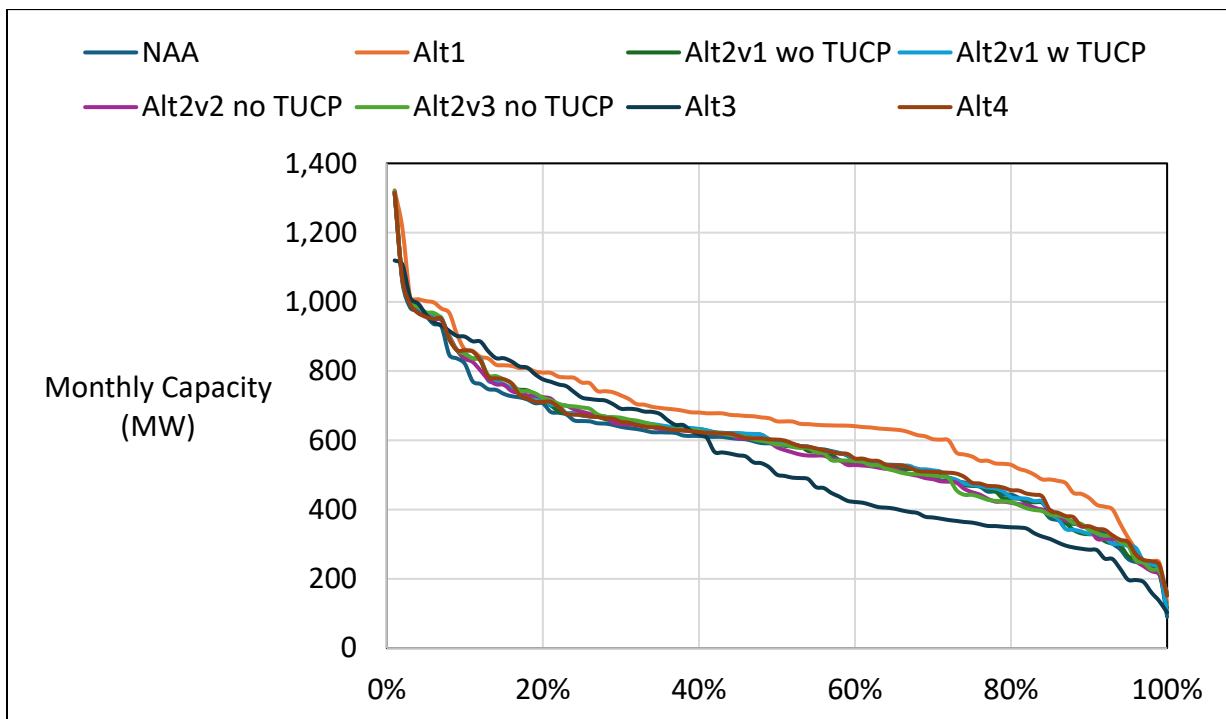


Figure 5-14. SWP Total Capacity, May

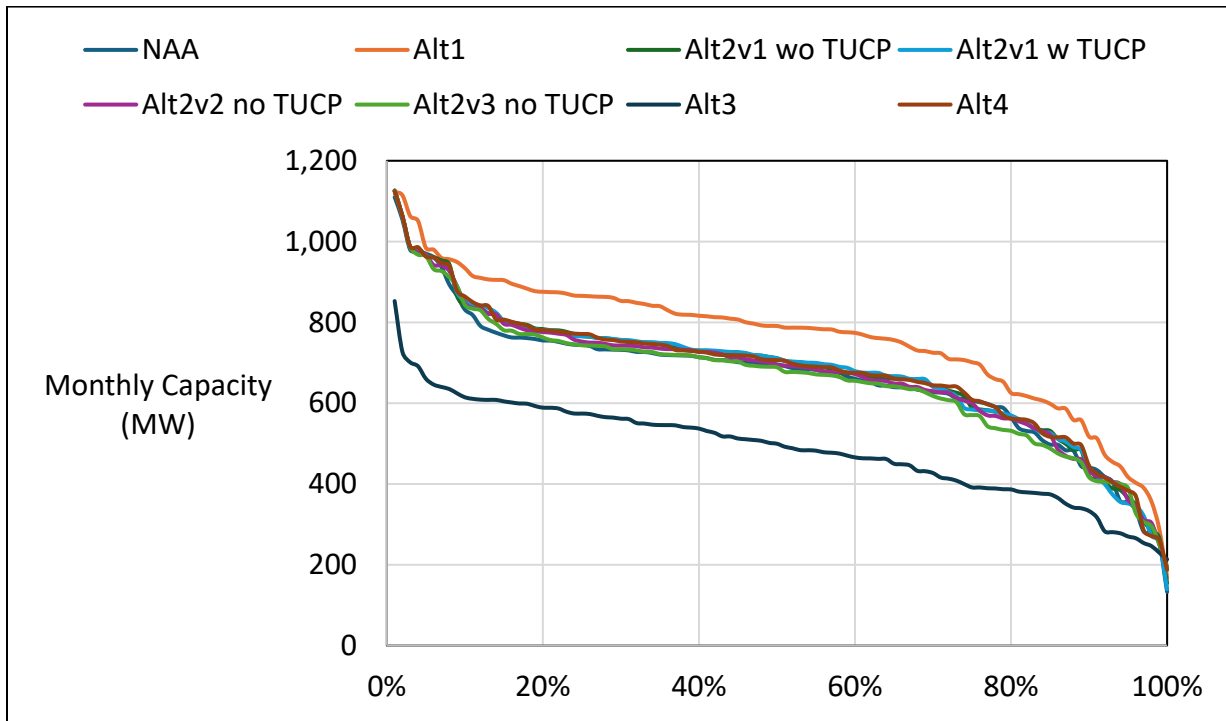Figure 5-15. SWP Total Capacity, June
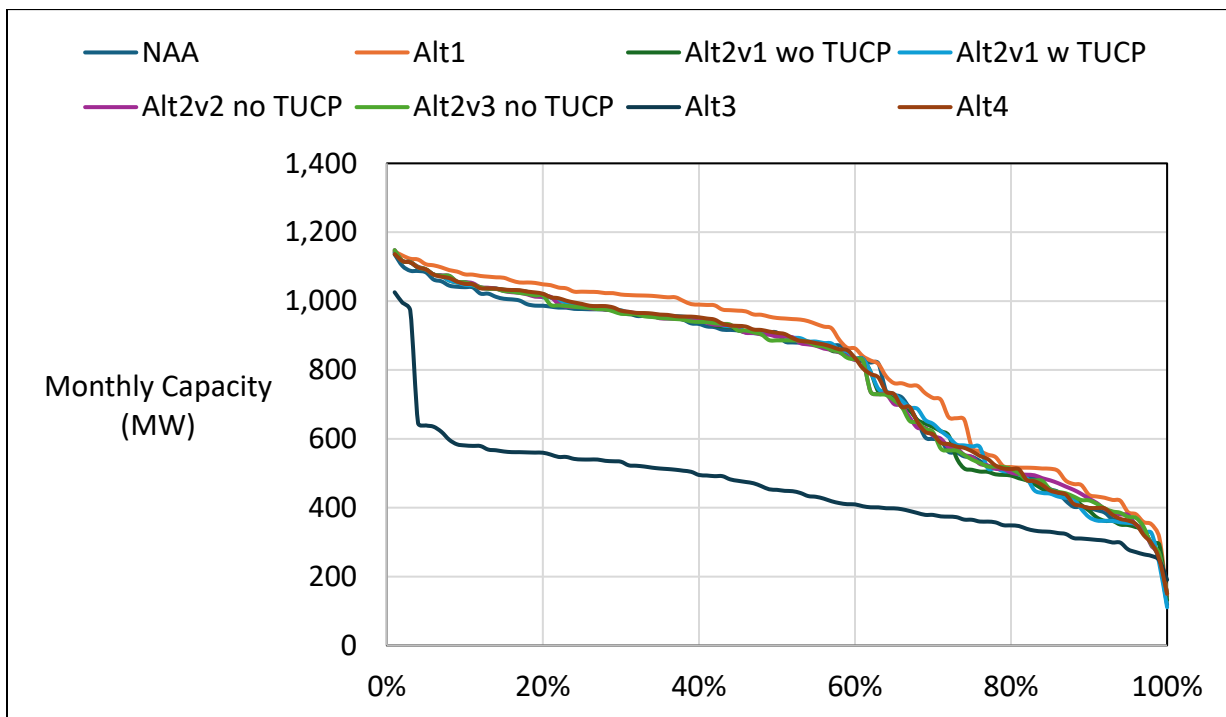


Figure 5-16. SWP Total Capacity, July
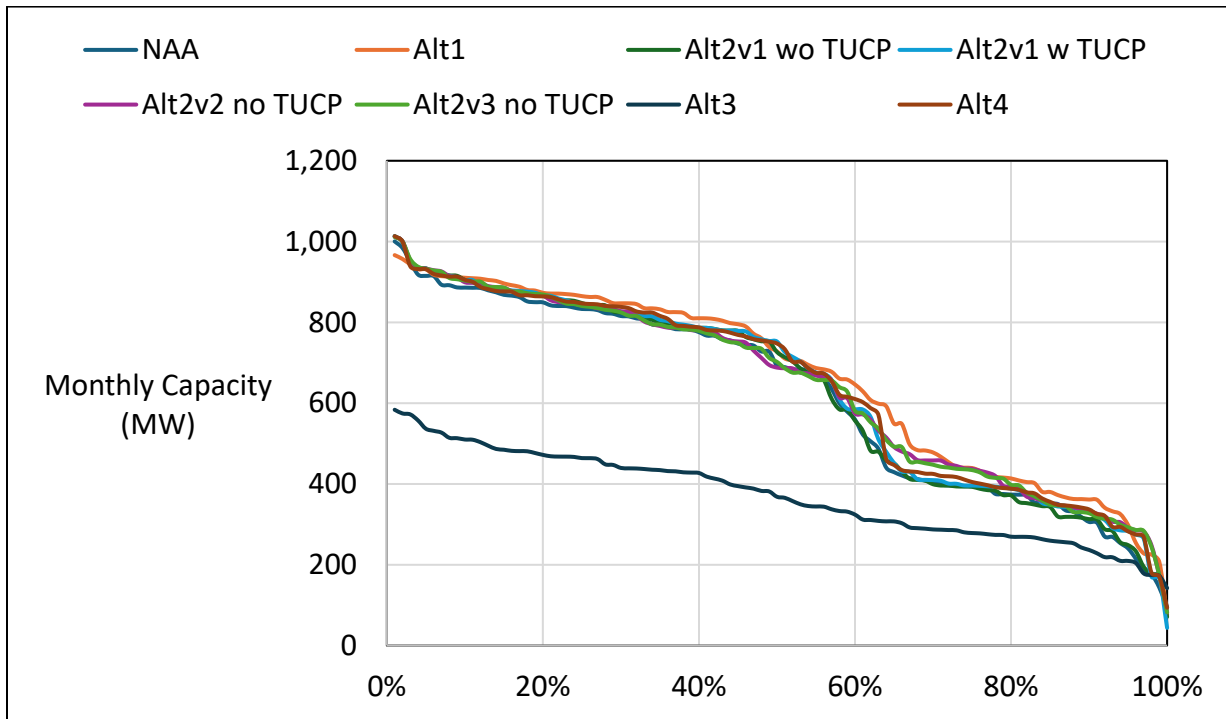
Figure 5-17. SWP Total Capacity, August



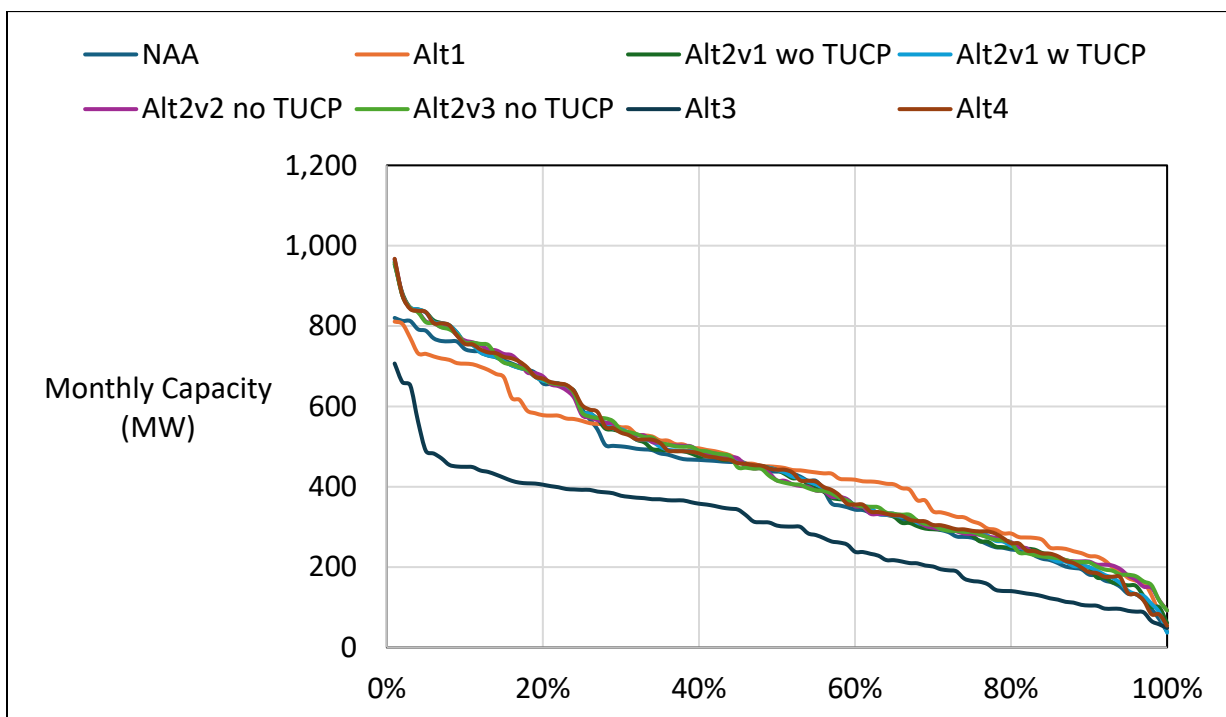Figure 5-18. SWP Total Capacity, September

## Table 6-1. SWP Total Generation, Monthly Generation

**NAA**

| Statistic | Monthly Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 390 | 294 | 325 | 699 | 719 | 770 | 512 | 470 | 506 | 646 | 575 | 434 |
| 20% | 367 | 274 | 255 | 308 | 563 | 639 | 400 | 404 | 469 | 635 | 551 | 401 |
| 30% | 349 | 260 | 234 | 262 | 332 | 433 | 344 | 385 | 458 | 627 | 533 | 321 |
| 40% | 310 | 245 | 221 | 200 | 237 | 287 | 275 | 361 | 441 | 615 | 495 | 293 |
| 50% | 284 | 228 | 202 | 150 | 149 | 180 | 241 | 340 | 426 | 592 | 455 | 258 |
| 60% | 245 | 201 | 183 | 126 | 103 | 138 | 222 | 326 | 409 | 556 | 350 | 193 |
| 70% | 203 | 175 | 170 | 79 | 68 | 103 | 202 | 300 | 384 | 370 | 255 | 163 |
| 80% | 147 | 124 | 121 | 61 | 52 | 89 | 152 | 240 | 343 | 319 | 235 | 131 |
| 90% | 116 | 90 | 79 | 48 | 40 | 74 | 108 | 176 | 265 | 245 | 192 | 101 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 266 | 217 | 224 | 238 | 270 | 320 | 295 | 339 | 407 | 500 | 397 | 259 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 289 | 258 | 324 | 447 | 561 | 634 | 462 | 418 | 461 | 620 | 531 | 386 |
| Above Normal (12%) | 301 | 223 | 200 | 207 | 276 | 405 | 310 | 391 | 449 | 625 | 539 | 369 |
| Below Normal (24%) | 274 | 206 | 184 | 162 | 148 | 159 | 250 | 372 | 443 | 548 | 386 | 214 |
| Dry (17%) | 265 | 212 | 182 | 123 | 80 | 109 | 196 | 258 | 378 | 354 | 254 | 140 |
| Critical (15%) | 176 | 150 | 138 | 69 | 53 | 80 | 111 | 171 | 231 | 233 | 180 | 105 |

**Alt1**

| Statistic | Monthly Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 383 | 301 | 423 | 753 | 796 | 912 | 553 | 505 | 570 | 681 | 595 | 420 |
| 20% | 368 | 294 | 301 | 418 | 643 | 708 | 405 | 440 | 547 | 667 | 578 | 356 |
| 30% | 347 | 279 | 253 | 322 | 427 | 528 | 349 | 408 | 526 | 648 | 548 | 287 |
| 40% | 316 | 263 | 228 | 299 | 286 | 389 | 308 | 392 | 500 | 636 | 511 | 277 |
| 50% | 299 | 255 | 211 | 219 | 241 | 277 | 271 | 375 | 482 | 612 | 466 | 266 |
| 60% | 269 | 231 | 202 | 146 | 165 | 202 | 236 | 351 | 462 | 542 | 383 | 252 |
| 70% | 224 | 185 | 191 | 108 | 105 | 158 | 209 | 320 | 429 | 432 | 319 | 198 |

| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Monthly Generation (GWh) | | | | | | | |
| 80% | 172 | 164 | 165 | 68 | 63 | 114 | 185 | 293 | 389 | 347 | 267 | 174 |
| 90% | 121 | 114 | 98 | 52 | 51 | 89 | 144 | 234 | 300 | 281 | 224 | 129 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 275 | 235 | 249 | 286 | 320 | 384 | 320 | 369 | 461 | 527 | 424 | 266 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 280 | 273 | 368 | 499 | 610 | 727 | 490 | 440 | 504 | 632 | 520 | 324 |
| Above Normal (12%) | 312 | 245 | 244 | 298 | 332 | 447 | 310 | 433 | 539 | 651 | 564 | 384 |
| Below Normal (24%) | 294 | 230 | 197 | 207 | 223 | 243 | 258 | 384 | 502 | 578 | 445 | 267 |
| Dry (17%) | 269 | 217 | 193 | 158 | 118 | 149 | 243 | 323 | 438 | 405 | 310 | 193 |
| Critical (15%) | 211 | 175 | 143 | 93 | 73 | 96 | 153 | 194 | 270 | 260 | 203 | 128 |

**Alt1 minus NAA**

| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Monthly Generation (GWh) | | | | | | | |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | -7 | 7 | 98 | 54 | 77 | 142 | 41 | 35 | 64 | 35 | 20 | -15 |
| 20% | 0 | 19 | 46 | 110 | 80 | 70 | 5 | 37 | 78 | 32 | 27 | -46 |
| 30% | -2 | 19 | 18 | 60 | 95 | 96 | 6 | 24 | 68 | 20 | 15 | -34 |
| 40% | 7 | 17 | 7 | 99 | 49 | 102 | 33 | 31 | 59 | 22 | 16 | -16 |
| 50% | 15 | 27 | 9 | 69 | 92 | 96 | 30 | 35 | 57 | 20 | 11 | 8 |
| 60% | 25 | 30 | 20 | 20 | 62 | 63 | 14 | 25 | 53 | -14 | 34 | 60 |
| 70% | 21 | 10 | 20 | 29 | 37 | 54 | 7 | 20 | 45 | 62 | 64 | 35 |
| 80% | 25 | 40 | 44 | 6 | 11 | 25 | 33 | 54 | 46 | 28 | 32 | 43 |
| 90% | 5 | 24 | 19 | 4 | 11 | 15 | 36 | 58 | 35 | 36 | 32 | 28 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 9 | 18 | 25 | 48 | 50 | 64 | 25 | 29 | 55 | 27 | 27 | 7 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | -9 | 15 | 44 | 51 | 49 | 93 | 28 | 22 | 43 | 12 | -11 | -61 |
| Above Normal (12%) | 12 | 22 | 44 | 90 | 57 | 43 | 0 | 42 | 89 | 26 | 25 | 15 |
| Below Normal (24%) | 20 | 24 | 13 | 45 | 75 | 84 | 7 | 11 | 59 | 30 | 59 | 53 |
| Dry (17%) | 4 | 5 | 11 | 34 | 37 | 40 | 47 | 65 | 60 | 51 | 55 | 53 |
| Critical (15%) | 35 | 25 | 5 | 24 | 20 | 17 | 42 | 23 | 39 | 27 | 24 | 23 |

## Table 6-2. SWP Total Generation, Monthly Generation

**NAA**

| Statistic | Monthly Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| **Probability of Exceedance** | | | | | | | | | | | | |
| 10% | 390 | 294 | 325 | 699 | 719 | 770 | 512 | 470 | 506 | 646 | 575 | 434 |
| 20% | 367 | 274 | 255 | 308 | 563 | 639 | 400 | 404 | 469 | 635 | 551 | 401 |
| 30% | 349 | 260 | 234 | 262 | 332 | 433 | 344 | 385 | 458 | 627 | 533 | 321 |
| 40% | 310 | 245 | 221 | 200 | 237 | 287 | 275 | 361 | 441 | 615 | 495 | 293 |
| 50% | 284 | 228 | 202 | 150 | 149 | 180 | 241 | 340 | 426 | 592 | 455 | 258 |
| 60% | 245 | 201 | 183 | 126 | 103 | 138 | 222 | 326 | 409 | 556 | 350 | 193 |
| 70% | 203 | 175 | 170 | 79 | 68 | 103 | 202 | 300 | 384 | 370 | 255 | 163 |
| 80% | 147 | 124 | 121 | 61 | 52 | 89 | 152 | 240 | 343 | 319 | 235 | 131 |
| 90% | 116 | 90 | 79 | 48 | 40 | 74 | 108 | 176 | 265 | 245 | 192 | 101 |
| **Long Term** | | | | | | | | | | | | |
| Full Simulation Period | 266 | 217 | 224 | 238 | 270 | 320 | 295 | 339 | 407 | 500 | 397 | 259 |
| **Water Year Types** | | | | | | | | | | | | |
| Wet (32%) | 289 | 258 | 324 | 447 | 561 | 634 | 462 | 418 | 461 | 620 | 531 | 386 |
| Above Normal (12%) | 301 | 223 | 200 | 207 | 276 | 405 | 310 | 391 | 449 | 625 | 539 | 369 |
| Below Normal (24%) | 274 | 206 | 184 | 162 | 148 | 159 | 250 | 372 | 443 | 548 | 386 | 214 |
| Dry (17%) | 265 | 212 | 182 | 123 | 80 | 109 | 196 | 258 | 378 | 354 | 254 | 140 |
| Critical (15%) | 176 | 150 | 138 | 69 | 53 | 80 | 111 | 171 | 231 | 233 | 180 | 105 |

**Alt2v1 wo TUCP**

| Statistic | Monthly Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| **Probability of Exceedance** | | | | | | | | | | | | |
| 10% | 387 | 286 | 345 | 693 | 745 | 765 | 517 | 457 | 509 | 647 | 572 | 444 |
| 20% | 365 | 273 | 249 | 325 | 553 | 626 | 382 | 402 | 487 | 636 | 555 | 394 |
| 30% | 340 | 263 | 232 | 294 | 338 | 417 | 335 | 375 | 473 | 626 | 529 | 342 |
| 40% | 312 | 247 | 205 | 224 | 252 | 282 | 269 | 344 | 451 | 612 | 498 | 298 |
| 50% | 292 | 231 | 197 | 172 | 151 | 179 | 244 | 325 | 431 | 589 | 463 | 248 |
| 60% | 247 | 207 | 181 | 132 | 98 | 147 | 216 | 313 | 418 | 536 | 344 | 197 |
| 70% | 203 | 178 | 164 | 91 | 74 | 111 | 196 | 291 | 386 | 392 | 260 | 162 |

| Statistic | Monthly Generation (GWh) | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| 80% | 145 | 121 | 119 | 55 | 55 | 92 | 163 | 240 | 344 | 305 | 229 | 142 |
| 90% | 108 | 79 | 77 | 42 | 43 | 79 | 116 | 175 | 260 | 231 | 179 | 88 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 265 | 217 | 222 | 250 | 277 | 322 | 294 | 329 | 414 | 497 | 396 | 262 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 288 | 258 | 327 | 462 | 572 | 644 | 463 | 408 | 472 | 616 | 528 | 389 |
| Above Normal (12%) | 281 | 223 | 202 | 232 | 271 | 366 | 291 | 376 | 461 | 625 | 542 | 384 |
| Below Normal (24%) | 280 | 208 | 180 | 168 | 158 | 168 | 244 | 358 | 453 | 551 | 393 | 214 |
| Dry (17%) | 277 | 211 | 183 | 134 | 89 | 110 | 192 | 252 | 376 | 338 | 246 | 144 |
| Critical (15%) | 167 | 144 | 123 | 74 | 57 | 86 | 135 | 163 | 233 | 230 | 174 | 102 |

**Alt2v1 wo TUCP minus NAA**

| Statistic | Monthly Generation (GWh) | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | -3 | -9 | 20 | -6 | 26 | -5 | 4 | -13 | 3 | 0 | -4 | 10 |
| 20% | -2 | -1 | -6 | 17 | -11 | -13 | -18 | -2 | 18 | 0 | 4 | -7 |
| 30% | -9 | 2 | -3 | 31 | 6 | -15 | -8 | -10 | 15 | -1 | -4 | 21 |
| 40% | 2 | 2 | -15 | 24 | 15 | -5 | -6 | -17 | 10 | -3 | 4 | 5 |
| 50% | 7 | 3 | -5 | 22 | 2 | -1 | 3 | -15 | 5 | -3 | 8 | -10 |
| 60% | 3 | 6 | -1 | 6 | -5 | 9 | -6 | -12 | 10 | -20 | -5 | 5 |
| 70% | 0 | 3 | -6 | 12 | 6 | 8 | -6 | -9 | 2 | 22 | 5 | -1 |
| 80% | -1 | -3 | -2 | -6 | 2 | 3 | 11 | 0 | 1 | -14 | -6 | 11 |
| 90% | -8 | -11 | -1 | -6 | 3 | 5 | 8 | -1 | -5 | -15 | -13 | -13 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 0 | -1 | -2 | 12 | 8 | 2 | -1 | -11 | 7 | -4 | -1 | 3 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 0 | 0 | 3 | 15 | 11 | 11 | 0 | -10 | 11 | -3 | -3 | 4 |
| Above Normal (12%) | -19 | -1 | 2 | 25 | -4 | -39 | -20 | -15 | 12 | 0 | 3 | 15 |
| Below Normal (24%) | 6 | 2 | -4 | 6 | 10 | 9 | -7 | -14 | 10 | 3 | 7 | 1 |
| Dry (17%) | 12 | -1 | 0 | 11 | 9 | 1 | -4 | -5 | -2 | -16 | -9 | 3 |
| Critical (15%) | -9 | -6 | -15 | 5 | 4 | 6 | 24 | -8 | 2 | -3 | -5 | -3 |

Table 6-3. SWP Total Generation, Monthly Generation

**NAA**

| Statistic | Monthly Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 390 | 294 | 325 | 699 | 719 | 770 | 512 | 470 | 506 | 646 | 575 | 434 |
| 20% | 367 | 274 | 255 | 308 | 563 | 639 | 400 | 404 | 469 | 635 | 551 | 401 |
| 30% | 349 | 260 | 234 | 262 | 332 | 433 | 344 | 385 | 458 | 627 | 533 | 321 |
| 40% | 310 | 245 | 221 | 200 | 237 | 287 | 275 | 361 | 441 | 615 | 495 | 293 |
| 50% | 284 | 228 | 202 | 150 | 149 | 180 | 241 | 340 | 426 | 592 | 455 | 258 |
| 60% | 245 | 201 | 183 | 126 | 103 | 138 | 222 | 326 | 409 | 556 | 350 | 193 |
| 70% | 203 | 175 | 170 | 79 | 68 | 103 | 202 | 300 | 384 | 370 | 255 | 163 |
| 80% | 147 | 124 | 121 | 61 | 52 | 89 | 152 | 240 | 343 | 319 | 235 | 131 |
| 90% | 116 | 90 | 79 | 48 | 40 | 74 | 108 | 176 | 265 | 245 | 192 | 101 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 266 | 217 | 224 | 238 | 270 | 320 | 295 | 339 | 407 | 500 | 397 | 259 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 289 | 258 | 324 | 447 | 561 | 634 | 462 | 418 | 461 | 620 | 531 | 386 |
| Above Normal (12%) | 301 | 223 | 200 | 207 | 276 | 405 | 310 | 391 | 449 | 625 | 539 | 369 |
| Below Normal (24%) | 274 | 206 | 184 | 162 | 148 | 159 | 250 | 372 | 443 | 548 | 386 | 214 |
| Dry (17%) | 265 | 212 | 182 | 123 | 80 | 109 | 196 | 258 | 378 | 354 | 254 | 140 |
| Critical (15%) | 176 | 150 | 138 | 69 | 53 | 80 | 111 | 171 | 231 | 233 | 180 | 105 |

**Alt2v1 w TUCP**

| Statistic | Monthly Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 387 | 285 | 370 | 689 | 735 | 765 | 517 | 457 | 510 | 646 | 572 | 444 |
| 20% | 365 | 274 | 250 | 319 | 553 | 626 | 382 | 407 | 486 | 636 | 556 | 394 |
| 30% | 341 | 263 | 234 | 294 | 338 | 424 | 335 | 374 | 473 | 626 | 533 | 345 |
| 40% | 322 | 250 | 213 | 211 | 252 | 293 | 272 | 346 | 453 | 612 | 500 | 305 |
| 50% | 296 | 233 | 199 | 172 | 161 | 186 | 245 | 326 | 435 | 591 | 464 | 252 |
| 60% | 253 | 209 | 181 | 127 | 99 | 138 | 218 | 317 | 418 | 536 | 364 | 197 |
| 70% | 206 | 180 | 165 | 92 | 70 | 108 | 196 | 291 | 390 | 391 | 260 | 166 |

| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Monthly Generation (GWh) | | | | | | | |
| 80% | 154 | 143 | 124 | 62 | 54 | 90 | 163 | 240 | 338 | 310 | 236 | 142 |
| 90% | 105 | 87 | 80 | 46 | 42 | 79 | 116 | 169 | 264 | 231 | 198 | 104 |
| **Long Term** | | | | | | | | | | | | |
| Full Simulation Period | 269 | 219 | 225 | 250 | 278 | 323 | 295 | 330 | 414 | 499 | 403 | 264 |
| **Water Year Types** | | | | | | | | | | | | |
| Wet (32%) | 292 | 257 | 330 | 460 | 573 | 645 | 464 | 408 | 471 | 616 | 528 | 389 |
| Above Normal (12%) | 294 | 232 | 206 | 226 | 275 | 378 | 292 | 379 | 461 | 626 | 543 | 388 |
| Below Normal (24%) | 276 | 211 | 178 | 169 | 158 | 168 | 250 | 357 | 455 | 556 | 412 | 218 |
| Dry (17%) | 277 | 212 | 179 | 134 | 91 | 109 | 194 | 253 | 377 | 343 | 248 | 145 |
| Critical (15%) | 179 | 148 | 143 | 84 | 53 | 79 | 122 | 168 | 230 | 233 | 186 | 106 |

**Alt2v1 w TUCP minus NAA**

| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Monthly Generation (GWh) | | | | | | | |
| **Probability of Exceedance** | | | | | | | | | | | | |
| 10% | -4 | -9 | 46 | -10 | 16 | -5 | 4 | -13 | 4 | 0 | -3 | 10 |
| 20% | -2 | -1 | -5 | 11 | -11 | -13 | -18 | 3 | 17 | 0 | 5 | -8 |
| 30% | -8 | 3 | 0 | 31 | 6 | -9 | -9 | -10 | 15 | -1 | 0 | 23 |
| 40% | 12 | 5 | -7 | 11 | 15 | 6 | -3 | -15 | 12 | -3 | 6 | 11 |
| 50% | 12 | 5 | -3 | 22 | 12 | 5 | 4 | -14 | 9 | -1 | 9 | -6 |
| 60% | 9 | 8 | -2 | 1 | -5 | 0 | -4 | -9 | 10 | -21 | 14 | 4 |
| 70% | 3 | 5 | -5 | 13 | 2 | 5 | -6 | -9 | 6 | 21 | 5 | 3 |
| 80% | 7 | 18 | 3 | 0 | 2 | 1 | 11 | 0 | -5 | -9 | 0 | 11 |
| 90% | -12 | -4 | 1 | -2 | 2 | 5 | 8 | -7 | -1 | -14 | 6 | 3 |
| **Long Term** | | | | | | | | | | | | |
| Full Simulation Period | 4 | 2 | 1 | 12 | 8 | 3 | -1 | -9 | 7 | -1 | 6 | 5 |
| **Water Year Types** | | | | | | | | | | | | |
| Wet (32%) | 4 | -1 | 5 | 13 | 12 | 11 | 1 | -10 | 11 | -3 | -3 | 3 |
| Above Normal (12%) | -6 | 9 | 6 | 19 | 0 | -26 | -18 | -12 | 12 | 1 | 4 | 19 |
| Below Normal (24%) | 2 | 5 | -6 | 7 | 10 | 9 | -1 | -15 | 12 | 8 | 26 | 4 |
| Dry (17%) | 12 | 0 | -3 | 11 | 11 | 0 | -2 | -5 | -1 | -11 | -7 | 4 |
| Critical (15%) | 3 | -2 | 5 | 15 | 0 | -1 | 12 | -3 | -1 | -1 | 6 | 1 |

## Table 6-4. SWP Total Generation, Monthly Generation

**NAA**

| Statistic | Monthly Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| **Probability of Exceedance** | | | | | | | | | | | | |
| 10% | 390 | 294 | 325 | 699 | 719 | 770 | 512 | 470 | 506 | 646 | 575 | 434 |
| 20% | 367 | 274 | 255 | 308 | 563 | 639 | 400 | 404 | 469 | 635 | 551 | 401 |
| 30% | 349 | 260 | 234 | 262 | 332 | 433 | 344 | 385 | 458 | 627 | 533 | 321 |
| 40% | 310 | 245 | 221 | 200 | 237 | 287 | 275 | 361 | 441 | 615 | 495 | 293 |
| 50% | 284 | 228 | 202 | 150 | 149 | 180 | 241 | 340 | 426 | 592 | 455 | 258 |
| 60% | 245 | 201 | 183 | 126 | 103 | 138 | 222 | 326 | 409 | 556 | 350 | 193 |
| 70% | 203 | 175 | 170 | 79 | 68 | 103 | 202 | 300 | 384 | 370 | 255 | 163 |
| 80% | 147 | 124 | 121 | 61 | 52 | 89 | 152 | 240 | 343 | 319 | 235 | 131 |
| 90% | 116 | 90 | 79 | 48 | 40 | 74 | 108 | 176 | 265 | 245 | 192 | 101 |
| **Long Term** | | | | | | | | | | | | |
| Full Simulation Period | 266 | 217 | 224 | 238 | 270 | 320 | 295 | 339 | 407 | 500 | 397 | 259 |
| **Water Year Types** | | | | | | | | | | | | |
| Wet (32%) | 289 | 258 | 324 | 447 | 561 | 634 | 462 | 418 | 461 | 620 | 531 | 386 |
| Above Normal (12%) | 301 | 223 | 200 | 207 | 276 | 405 | 310 | 391 | 449 | 625 | 539 | 369 |
| Below Normal (24%) | 274 | 206 | 184 | 162 | 148 | 159 | 250 | 372 | 443 | 548 | 386 | 214 |
| Dry (17%) | 265 | 212 | 182 | 123 | 80 | 109 | 196 | 258 | 378 | 354 | 254 | 140 |
| Critical (15%) | 176 | 150 | 138 | 69 | 53 | 80 | 111 | 171 | 231 | 233 | 180 | 105 |

**Alt2v2 no TUCP**

| Statistic | Monthly Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| **Probability of Exceedance** | | | | | | | | | | | | |
| 10% | 386 | 297 | 321 | 693 | 729 | 771 | 524 | 455 | 504 | 645 | 570 | 448 |
| 20% | 367 | 278 | 245 | 325 | 556 | 613 | 383 | 400 | 483 | 638 | 552 | 395 |
| 30% | 351 | 259 | 224 | 291 | 342 | 418 | 325 | 369 | 465 | 625 | 526 | 346 |
| 40% | 316 | 245 | 208 | 217 | 254 | 271 | 270 | 345 | 447 | 611 | 493 | 317 |
| 50% | 290 | 231 | 195 | 171 | 154 | 179 | 235 | 324 | 428 | 591 | 435 | 241 |
| 60% | 247 | 203 | 181 | 126 | 100 | 145 | 213 | 307 | 413 | 531 | 351 | 195 |
| 70% | 206 | 174 | 159 | 92 | 76 | 114 | 194 | 290 | 386 | 371 | 288 | 160 |

| Statistic | Monthly Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| 80% | 143 | 120 | 109 | 54 | 56 | 95 | 152 | 234 | 344 | 305 | 247 | 138 |
| 90% | 120 | 95 | 70 | 41 | 45 | 78 | 122 | 179 | 259 | 250 | 197 | 108 |
| **Long Term** | | | | | | | | | | | | |
| Full Simulation Period | 269 | 216 | 216 | 244 | 277 | 322 | 294 | 327 | 409 | 497 | 402 | 263 |
| **Water Year Types** | | | | | | | | | | | | |
| Wet (32%) | 294 | 254 | 321 | 449 | 573 | 643 | 463 | 409 | 472 | 619 | 528 | 392 |
| Above Normal (12%) | 295 | 227 | 196 | 221 | 266 | 365 | 289 | 379 | 455 | 626 | 536 | 390 |
| Below Normal (24%) | 280 | 208 | 174 | 169 | 160 | 168 | 241 | 346 | 440 | 539 | 410 | 212 |
| Dry (17%) | 274 | 209 | 176 | 135 | 92 | 113 | 195 | 251 | 370 | 345 | 259 | 143 |
| Critical (15%) | 170 | 150 | 120 | 70 | 56 | 88 | 134 | 165 | 232 | 239 | 176 | 106 |

**Alt2v2 no TUCP minus NAA**

| Statistic | Monthly Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| **Probability of Exceedance** | | | | | | | | | | | | |
| 10% | -4 | 2 | -3 | -6 | 10 | 1 | 12 | -15 | -2 | -1 | -5 | 14 |
| 20% | 0 | 3 | -10 | 17 | -7 | -26 | -17 | -4 | 13 | 3 | 1 | -7 |
| 30% | 3 | -2 | -10 | 29 | 10 | -15 | -19 | -16 | 7 | -2 | -6 | 25 |
| 40% | 6 | 0 | -13 | 18 | 17 | -16 | -5 | -16 | 6 | -4 | -1 | 24 |
| 50% | 6 | 3 | -7 | 21 | 5 | -1 | -6 | -15 | 3 | -1 | -20 | -17 |
| 60% | 3 | 2 | -2 | 1 | -4 | 7 | -9 | -18 | 5 | -25 | 2 | 2 |
| 70% | 3 | -1 | -12 | 13 | 7 | 11 | -8 | -10 | 2 | 1 | 33 | -3 |
| 80% | -4 | -4 | -12 | -7 | 3 | 6 | 0 | -6 | 1 | -14 | 12 | 7 |
| 90% | 4 | 4 | -9 | -7 | 5 | 4 | 14 | 3 | -6 | 5 | 5 | 8 |
| **Long Term** | | | | | | | | | | | | |
| Full Simulation Period | 3 | -1 | -8 | 6 | 8 | 2 | -2 | -13 | 2 | -3 | 5 | 5 |
| **Water Year Types** | | | | | | | | | | | | |
| Wet (32%) | 5 | -4 | -3 | 2 | 12 | 9 | 0 | -9 | 11 | -1 | -3 | 6 |
| Above Normal (12%) | -5 | 4 | -4 | 14 | -10 | -39 | -21 | -12 | 6 | 1 | -3 | 21 |
| Below Normal (24%) | 6 | 1 | -10 | 7 | 12 | 9 | -10 | -26 | -3 | -10 | 24 | -1 |
| Dry (17%) | 10 | -3 | -6 | 12 | 11 | 4 | -2 | -7 | -8 | -10 | 4 | 2 |
| Critical (15%) | -6 | 0 | -18 | 1 | 3 | 8 | 23 | -5 | 2 | 6 | -4 | 1 |

Table 6-5. SWP Total Generation, Monthly Generation

**NAA**

| Statistic | Monthly Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 390 | 294 | 325 | 699 | 719 | 770 | 512 | 470 | 506 | 646 | 575 | 434 |
| 20% | 367 | 274 | 255 | 308 | 563 | 639 | 400 | 404 | 469 | 635 | 551 | 401 |
| 30% | 349 | 260 | 234 | 262 | 332 | 433 | 344 | 385 | 458 | 627 | 533 | 321 |
| 40% | 310 | 245 | 221 | 200 | 237 | 287 | 275 | 361 | 441 | 615 | 495 | 293 |
| 50% | 284 | 228 | 202 | 150 | 149 | 180 | 241 | 340 | 426 | 592 | 455 | 258 |
| 60% | 245 | 201 | 183 | 126 | 103 | 138 | 222 | 326 | 409 | 556 | 350 | 193 |
| 70% | 203 | 175 | 170 | 79 | 68 | 103 | 202 | 300 | 384 | 370 | 255 | 163 |
| 80% | 147 | 124 | 121 | 61 | 52 | 89 | 152 | 240 | 343 | 319 | 235 | 131 |
| 90% | 116 | 90 | 79 | 48 | 40 | 74 | 108 | 176 | 265 | 245 | 192 | 101 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 266 | 217 | 224 | 238 | 270 | 320 | 295 | 339 | 407 | 500 | 397 | 259 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 289 | 258 | 324 | 447 | 561 | 634 | 462 | 418 | 461 | 620 | 531 | 386 |
| Above Normal (12%) | 301 | 223 | 200 | 207 | 276 | 405 | 310 | 391 | 449 | 625 | 539 | 369 |
| Below Normal (24%) | 274 | 206 | 184 | 162 | 148 | 159 | 250 | 372 | 443 | 548 | 386 | 214 |
| Dry (17%) | 265 | 212 | 182 | 123 | 80 | 109 | 196 | 258 | 378 | 354 | 254 | 140 |
| Critical (15%) | 176 | 150 | 138 | 69 | 53 | 80 | 111 | 171 | 231 | 233 | 180 | 105 |

**Alt2v3 no TUCP**

| Statistic | Monthly Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 386 | 295 | 317 | 698 | 752 | 766 | 522 | 462 | 500 | 645 | 572 | 446 |
| 20% | 367 | 275 | 241 | 325 | 556 | 614 | 400 | 403 | 473 | 635 | 549 | 402 |
| 30% | 350 | 256 | 225 | 291 | 341 | 416 | 325 | 376 | 456 | 622 | 526 | 346 |
| 40% | 308 | 244 | 207 | 216 | 254 | 259 | 287 | 346 | 440 | 607 | 489 | 319 |
| 50% | 289 | 231 | 196 | 173 | 159 | 178 | 249 | 326 | 425 | 589 | 435 | 240 |
| 60% | 257 | 201 | 182 | 126 | 103 | 145 | 227 | 310 | 404 | 533 | 353 | 191 |
| 70% | 209 | 170 | 155 | 85 | 74 | 113 | 199 | 286 | 378 | 376 | 286 | 161 |

| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Monthly Generation (GWh) | | | | | | | | |
| 80% | 136 | 117 | 96 | 54 | 54 | 95 | 165 | 231 | 321 | 306 | 246 | 127 |
| 90% | 119 | 87 | 69 | 41 | 40 | 78 | 130 | 177 | 254 | 242 | 190 | 109 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 268 | 215 | 215 | 246 | 278 | 320 | 302 | 330 | 402 | 496 | 401 | 264 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 291 | 252 | 319 | 451 | 574 | 640 | 466 | 412 | 470 | 619 | 528 | 391 |
| Above Normal (12%) | 294 | 227 | 196 | 225 | 265 | 355 | 305 | 393 | 443 | 621 | 539 | 387 |
| Below Normal (24%) | 279 | 207 | 170 | 172 | 159 | 168 | 257 | 349 | 426 | 539 | 409 | 216 |
| Dry (17%) | 273 | 207 | 175 | 135 | 92 | 112 | 205 | 253 | 359 | 341 | 253 | 142 |
| Critical (15%) | 173 | 146 | 122 | 67 | 58 | 89 | 133 | 166 | 232 | 239 | 176 | 106 |

**Alt2v3 no TUCP minus NAA**

| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Monthly Generation (GWh) | | | | | | | | |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | -4 | 0 | -8 | -1 | 33 | -4 | 9 | -8 | -6 | -1 | -3 | 12 |
| 20% | -1 | 1 | -14 | 17 | -8 | -24 | 0 | 0 | 3 | 0 | -2 | 0 |
| 30% | 2 | -4 | -9 | 29 | 9 | -17 | -18 | -9 | -2 | -6 | -7 | 25 |
| 40% | -1 | -1 | -13 | 16 | 17 | -28 | 13 | -16 | -1 | -8 | -6 | 25 |
| 50% | 5 | 3 | -6 | 24 | 10 | -2 | 7 | -14 | -1 | -3 | -19 | -17 |
| 60% | 12 | 0 | 0 | 0 | -1 | 7 | 5 | -16 | -5 | -23 | 4 | -1 |
| 70% | 6 | -5 | -16 | 6 | 6 | 10 | -3 | -14 | -6 | 7 | 31 | -2 |
| 80% | -10 | -7 | -25 | -7 | 1 | 6 | 13 | -9 | -22 | -13 | 11 | -4 |
| 90% | 3 | -4 | -9 | -7 | 1 | 4 | 23 | 1 | -11 | -3 | -2 | 8 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 2 | -3 | -9 | 7 | 9 | 0 | 7 | -9 | -5 | -4 | 4 | 5 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 2 | -6 | -5 | 4 | 13 | 6 | 3 | -6 | 9 | -1 | -3 | 6 |
| Above Normal (12%) | -7 | 4 | -4 | 18 | -10 | -50 | -6 | 2 | -6 | -4 | 0 | 18 |
| Below Normal (24%) | 5 | 1 | -14 | 10 | 11 | 9 | 6 | -23 | -17 | -10 | 23 | 3 |
| Dry (17%) | 9 | -5 | -7 | 11 | 12 | 3 | 8 | -5 | -19 | -14 | -2 | 1 |
| Critical (15%) | -3 | -5 | -17 | -2 | 5 | 10 | 22 | -5 | 1 | 6 | -4 | 1 |

Table 6-6. SWP Total Generation, Monthly Generation

**NAA**

| Statistic | Monthly Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 390 | 294 | 325 | 699 | 719 | 770 | 512 | 470 | 506 | 646 | 575 | 434 |
| 20% | 367 | 274 | 255 | 308 | 563 | 639 | 400 | 404 | 469 | 635 | 551 | 401 |
| 30% | 349 | 260 | 234 | 262 | 332 | 433 | 344 | 385 | 458 | 627 | 533 | 321 |
| 40% | 310 | 245 | 221 | 200 | 237 | 287 | 275 | 361 | 441 | 615 | 495 | 293 |
| 50% | 284 | 228 | 202 | 150 | 149 | 180 | 241 | 340 | 426 | 592 | 455 | 258 |
| 60% | 245 | 201 | 183 | 126 | 103 | 138 | 222 | 326 | 409 | 556 | 350 | 193 |
| 70% | 203 | 175 | 170 | 79 | 68 | 103 | 202 | 300 | 384 | 370 | 255 | 163 |
| 80% | 147 | 124 | 121 | 61 | 52 | 89 | 152 | 240 | 343 | 319 | 235 | 131 |
| 90% | 116 | 90 | 79 | 48 | 40 | 74 | 108 | 176 | 265 | 245 | 192 | 101 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 266 | 217 | 224 | 238 | 270 | 320 | 295 | 339 | 407 | 500 | 397 | 259 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 289 | 258 | 324 | 447 | 561 | 634 | 462 | 418 | 461 | 620 | 531 | 386 |
| Above Normal (12%) | 301 | 223 | 200 | 207 | 276 | 405 | 310 | 391 | 449 | 625 | 539 | 369 |
| Below Normal (24%) | 274 | 206 | 184 | 162 | 148 | 159 | 250 | 372 | 443 | 548 | 386 | 214 |
| Dry (17%) | 265 | 212 | 182 | 123 | 80 | 109 | 196 | 258 | 378 | 354 | 254 | 140 |
| Critical (15%) | 176 | 150 | 138 | 69 | 53 | 80 | 111 | 171 | 231 | 233 | 180 | 105 |

**Alt3**

| Statistic | Monthly Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 337 | 240 | 573 | 633 | 633 | 707 | 519 | 542 | 353 | 369 | 324 | 287 |
| 20% | 301 | 219 | 350 | 414 | 507 | 565 | 411 | 462 | 340 | 356 | 304 | 256 |
| 30% | 273 | 201 | 269 | 234 | 301 | 420 | 328 | 409 | 326 | 344 | 294 | 241 |
| 40% | 221 | 191 | 218 | 163 | 210 | 260 | 299 | 358 | 316 | 328 | 281 | 213 |
| 50% | 165 | 161 | 198 | 131 | 136 | 217 | 243 | 305 | 292 | 296 | 242 | 197 |
| 60% | 138 | 135 | 150 | 108 | 110 | 185 | 212 | 255 | 279 | 270 | 220 | 150 |
| 70% | 121 | 112 | 133 | 94 | 86 | 166 | 177 | 225 | 270 | 250 | 203 | 118 |

| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Monthly Generation (GWh) | | | | | | |
| 80% | 87 | 97 | 107 | 79 | 58 | 120 | 159 | 199 | 233 | 240 | 189 | 82 |
| 90% | 69 | 80 | 84 | 58 | 37 | 71 | 121 | 144 | 185 | 193 | 153 | 61 |
| **Long Term** | | | | | | | | | | | | |
| Full Simulation Period | 196 | 174 | 249 | 231 | 246 | 307 | 288 | 327 | 287 | 299 | 243 | 180 |
| **Water Year Types** | | | | | | | | | | | | |
| Wet (32%) | 225 | 219 | 409 | 441 | 484 | 539 | 459 | 488 | 326 | 370 | 298 | 257 |
| Above Normal (12%) | 221 | 169 | 204 | 222 | 280 | 388 | 317 | 391 | 289 | 301 | 261 | 239 |
| Below Normal (24%) | 203 | 170 | 202 | 141 | 146 | 213 | 230 | 277 | 284 | 280 | 236 | 161 |
| Dry (17%) | 193 | 162 | 172 | 97 | 87 | 135 | 183 | 229 | 303 | 277 | 219 | 118 |
| Critical (15%) | 107 | 102 | 104 | 86 | 54 | 95 | 110 | 123 | 189 | 198 | 153 | 67 |

**Alt3 minus NAA**

| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Monthly Generation (GWh) | | | | | | |
| **Probability of Exceedance** | | | | | | | | | | | | |
| 10% | -53 | -54 | 248 | -66 | -86 | -63 | 7 | 72 | -153 | -277 | -251 | -147 |
| 20% | -66 | -56 | 95 | 106 | -56 | -74 | 11 | 58 | -129 | -280 | -247 | -145 |
| 30% | -75 | -59 | 35 | -28 | -31 | -12 | -16 | 24 | -132 | -284 | -239 | -80 |
| 40% | -89 | -54 | -2 | -37 | -27 | -27 | 24 | -3 | -125 | -287 | -214 | -80 |
| 50% | -119 | -67 | -4 | -19 | -13 | 37 | 1 | -35 | -134 | -296 | -213 | -61 |
| 60% | -106 | -66 | -33 | -17 | 7 | 47 | -10 | -71 | -130 | -287 | -130 | -43 |
| 70% | -82 | -63 | -37 | 15 | 18 | 63 | -25 | -75 | -114 | -120 | -52 | -45 |
| 80% | -59 | -27 | -14 | 17 | 5 | 31 | 7 | -41 | -110 | -79 | -46 | -49 |
| 90% | -47 | -10 | 5 | 10 | -3 | -2 | 14 | -32 | -80 | -53 | -39 | -39 |
| **Long Term** | | | | | | | | | | | | |
| Full Simulation Period | -69 | -44 | 25 | -7 | -23 | -13 | -8 | -13 | -119 | -202 | -154 | -79 |
| **Water Year Types** | | | | | | | | | | | | |
| Wet (32%) | -63 | -39 | 85 | -6 | -77 | -95 | -4 | 70 | -135 | -250 | -233 | -129 |
| Above Normal (12%) | -80 | -54 | 4 | 15 | 4 | -17 | 6 | 1 | -161 | -324 | -278 | -130 |
| Below Normal (24%) | -71 | -37 | 17 | -21 | -2 | 54 | -20 | -95 | -158 | -268 | -150 | -53 |
| Dry (17%) | -72 | -50 | -10 | -26 | 6 | 26 | -13 | -29 | -75 | -78 | -36 | -22 |
| Critical (15%) | -69 | -48 | -34 | 17 | 1 | 15 | -1 | -48 | -41 | -35 | -27 | -38 |

## Table 6-7. SWP Total Generation, Monthly Generation

**NAA**

| Statistic | Monthly Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 390 | 294 | 325 | 699 | 719 | 770 | 512 | 470 | 506 | 646 | 575 | 434 |
| 20% | 367 | 274 | 255 | 308 | 563 | 639 | 400 | 404 | 469 | 635 | 551 | 401 |
| 30% | 349 | 260 | 234 | 262 | 332 | 433 | 344 | 385 | 458 | 627 | 533 | 321 |
| 40% | 310 | 245 | 221 | 200 | 237 | 287 | 275 | 361 | 441 | 615 | 495 | 293 |
| 50% | 284 | 228 | 202 | 150 | 149 | 180 | 241 | 340 | 426 | 592 | 455 | 258 |
| 60% | 245 | 201 | 183 | 126 | 103 | 138 | 222 | 326 | 409 | 556 | 350 | 193 |
| 70% | 203 | 175 | 170 | 79 | 68 | 103 | 202 | 300 | 384 | 370 | 255 | 163 |
| 80% | 147 | 124 | 121 | 61 | 52 | 89 | 152 | 240 | 343 | 319 | 235 | 131 |
| 90% | 116 | 90 | 79 | 48 | 40 | 74 | 108 | 176 | 265 | 245 | 192 | 101 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 266 | 217 | 224 | 238 | 270 | 320 | 295 | 339 | 407 | 500 | 397 | 259 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 289 | 258 | 324 | 447 | 561 | 634 | 462 | 418 | 461 | 620 | 531 | 386 |
| Above Normal (12%) | 301 | 223 | 200 | 207 | 276 | 405 | 310 | 391 | 449 | 625 | 539 | 369 |
| Below Normal (24%) | 274 | 206 | 184 | 162 | 148 | 159 | 250 | 372 | 443 | 548 | 386 | 214 |
| Dry (17%) | 265 | 212 | 182 | 123 | 80 | 109 | 196 | 258 | 378 | 354 | 254 | 140 |
| Critical (15%) | 176 | 150 | 138 | 69 | 53 | 80 | 111 | 171 | 231 | 233 | 180 | 105 |

**Alt4**

| Statistic | Monthly Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 388 | 286 | 378 | 677 | 733 | 764 | 514 | 459 | 510 | 646 | 569 | 449 |
| 20% | 372 | 274 | 248 | 310 | 546 | 622 | 384 | 412 | 485 | 635 | 557 | 401 |
| 30% | 349 | 264 | 228 | 280 | 335 | 432 | 337 | 371 | 469 | 627 | 537 | 340 |
| 40% | 324 | 249 | 213 | 215 | 252 | 290 | 271 | 343 | 456 | 614 | 498 | 305 |
| 50% | 296 | 235 | 201 | 164 | 158 | 187 | 247 | 325 | 431 | 596 | 459 | 252 |
| 60% | 261 | 210 | 183 | 122 | 100 | 135 | 212 | 316 | 418 | 532 | 372 | 195 |
| 70% | 207 | 181 | 164 | 93 | 69 | 111 | 195 | 295 | 387 | 386 | 261 | 166 |

| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Monthly Generation (GWh) | | | | | | | |
| 80% | 155 | 140 | 131 | 63 | 53 | 92 | 164 | 253 | 346 | 327 | 244 | 142 |
| 90% | 109 | 80 | 85 | 50 | 43 | 79 | 119 | 180 | 263 | 244 | 208 | 99 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 272 | 220 | 225 | 246 | 275 | 323 | 294 | 331 | 415 | 500 | 406 | 265 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 295 | 256 | 328 | 450 | 567 | 645 | 462 | 408 | 474 | 619 | 529 | 393 |
| Above Normal (12%) | 301 | 235 | 202 | 224 | 274 | 378 | 292 | 376 | 458 | 626 | 542 | 386 |
| Below Normal (24%) | 282 | 215 | 179 | 170 | 156 | 169 | 247 | 356 | 456 | 551 | 415 | 217 |
| Dry (17%) | 279 | 215 | 182 | 130 | 88 | 109 | 197 | 256 | 378 | 348 | 251 | 147 |
| Critical (15%) | 177 | 146 | 144 | 80 | 55 | 79 | 125 | 178 | 234 | 239 | 194 | 109 |

**Alt4 minus NAA**

| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Monthly Generation (GWh) | | | | | | | |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | -3 | -9 | 53 | -22 | 14 | -6 | 2 | -11 | 4 | 0 | -6 | 14 |
| 20% | 5 | 0 | -7 | 2 | -17 | -17 | -16 | 9 | 15 | 0 | 7 | -1 |
| 30% | 1 | 4 | -7 | 17 | 3 | 0 | -6 | -14 | 11 | 0 | 4 | 18 |
| 40% | 14 | 4 | -7 | 16 | 15 | 3 | -4 | -18 | 15 | -1 | 4 | 11 |
| 50% | 12 | 7 | -1 | 14 | 9 | 6 | 6 | -15 | 5 | 4 | 4 | -6 |
| 60% | 17 | 8 | 0 | -4 | -3 | -3 | -10 | -10 | 9 | -25 | 22 | 2 |
| 70% | 4 | 6 | -6 | 14 | 1 | 8 | -7 | -6 | 3 | 16 | 6 | 3 |
| 80% | 9 | 16 | 11 | 1 | 1 | 2 | 12 | 13 | 3 | 8 | 9 | 10 |
| 90% | -7 | -11 | 7 | 2 | 3 | 5 | 12 | 4 | -2 | -1 | 15 | -2 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 7 | 3 | 1 | 8 | 5 | 3 | -1 | -8 | 9 | 0 | 8 | 7 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 6 | -2 | 3 | 3 | 6 | 11 | -1 | -10 | 13 | -1 | -2 | 7 |
| Above Normal (12%) | 0 | 12 | 2 | 16 | -2 | -27 | -18 | -14 | 9 | 1 | 3 | 17 |
| Below Normal (24%) | 8 | 9 | -5 | 8 | 8 | 9 | -3 | -16 | 13 | 3 | 29 | 3 |
| Dry (17%) | 14 | 3 | 0 | 7 | 7 | 0 | 0 | -1 | 0 | -6 | -4 | 6 |
| Critical (15%) | 1 | -4 | 6 | 12 | 2 | 0 | 14 | 7 | 3 | 6 | 14 | 4 |

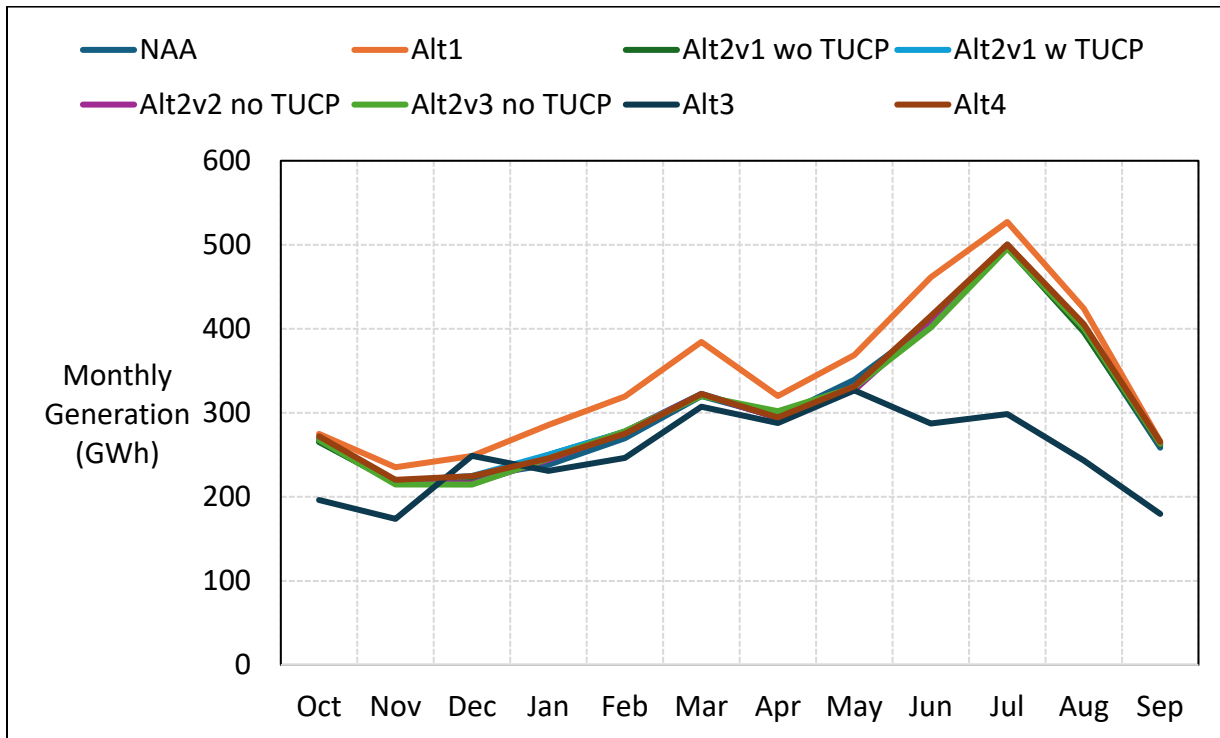Figure 6-1. SWP Total Generation, Long-Term Average Generation



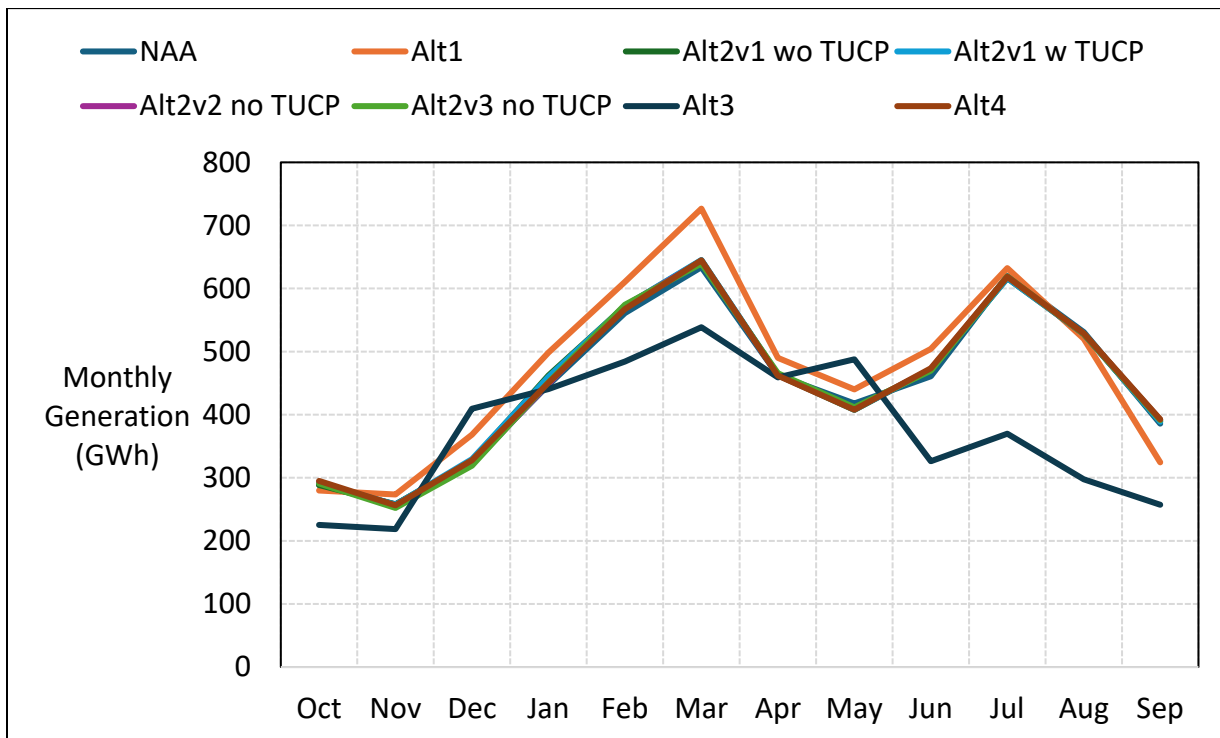Figure 6-2. SWP Total Generation, Wet Year Average Generation

Figure 6-3. SWP Total Generation, Above Normal Year Average Generation
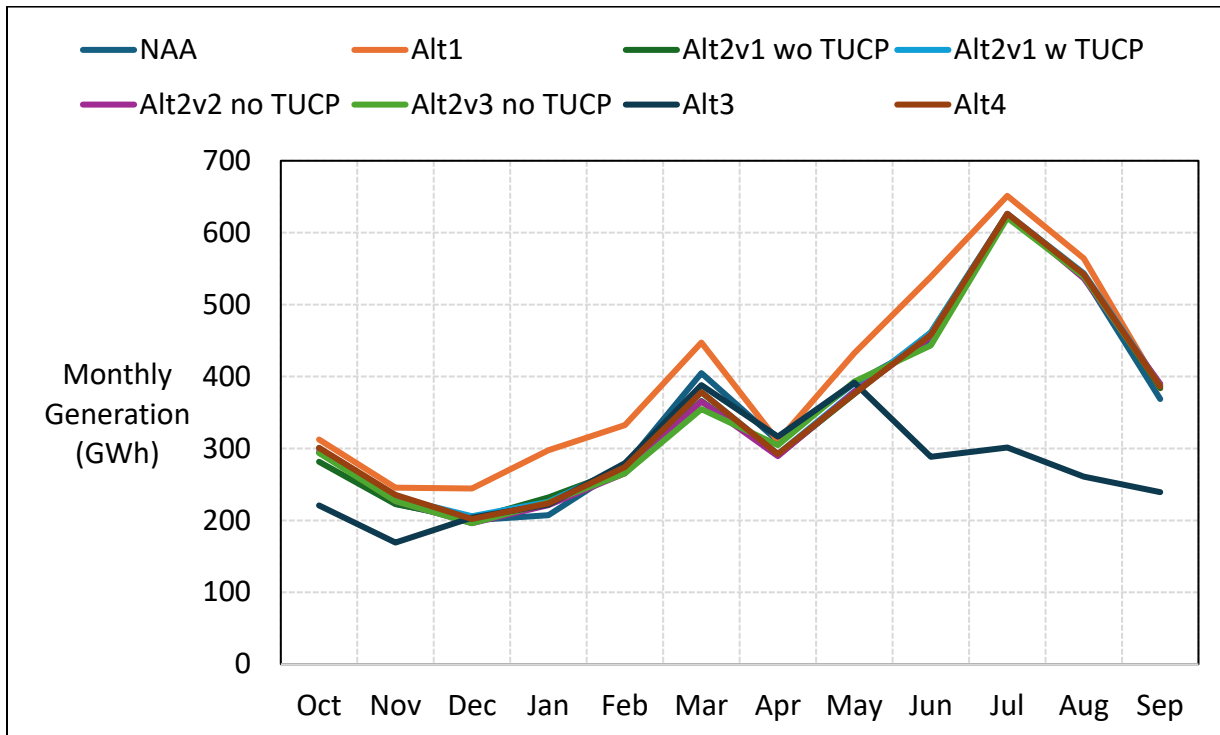


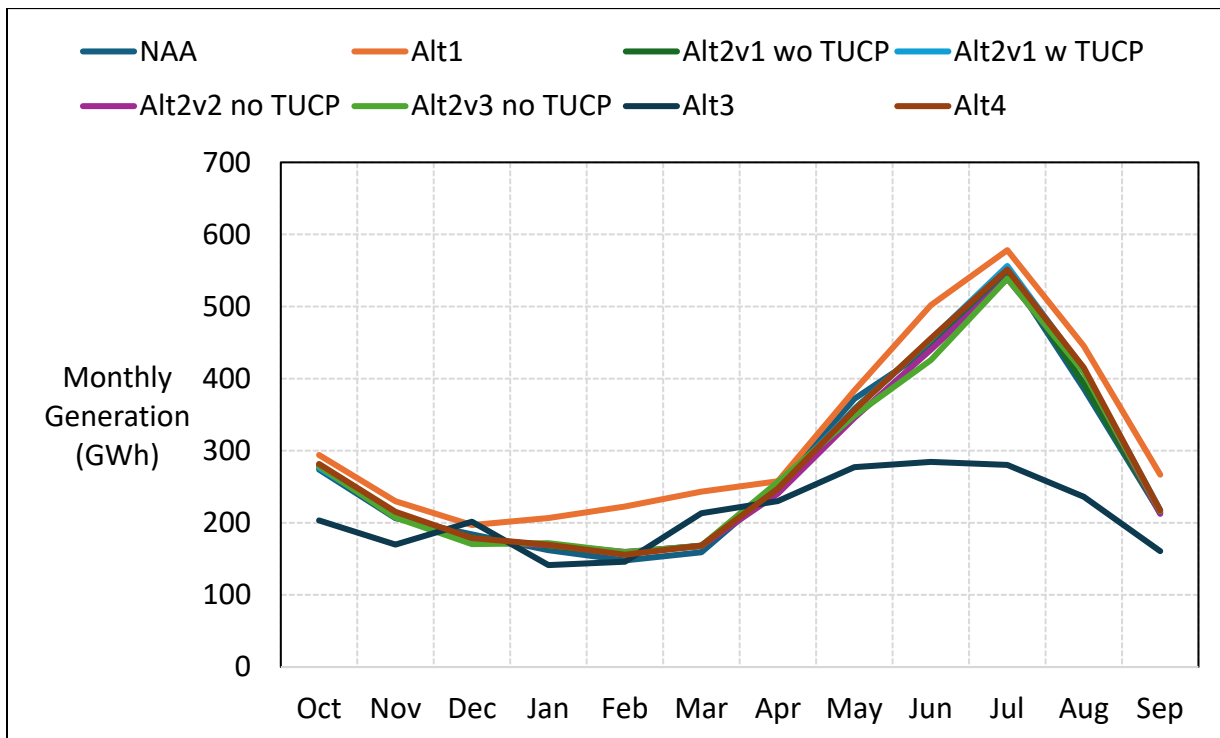Figure 6-4. SWP Total Generation, Below Normal Year Average Generation

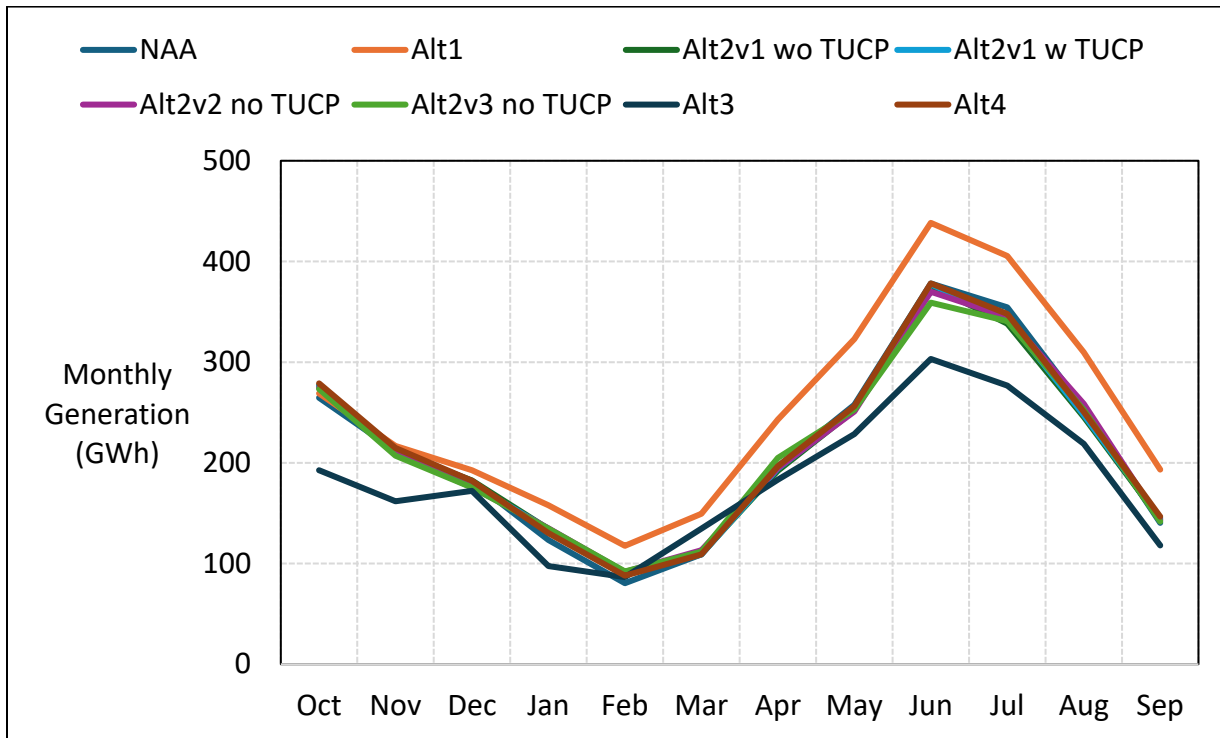Figure 6-5. SWP Total Generation, Dry Year Average Generation



Figure 6-6. SWP Total Generation, Critical Year Average Generation
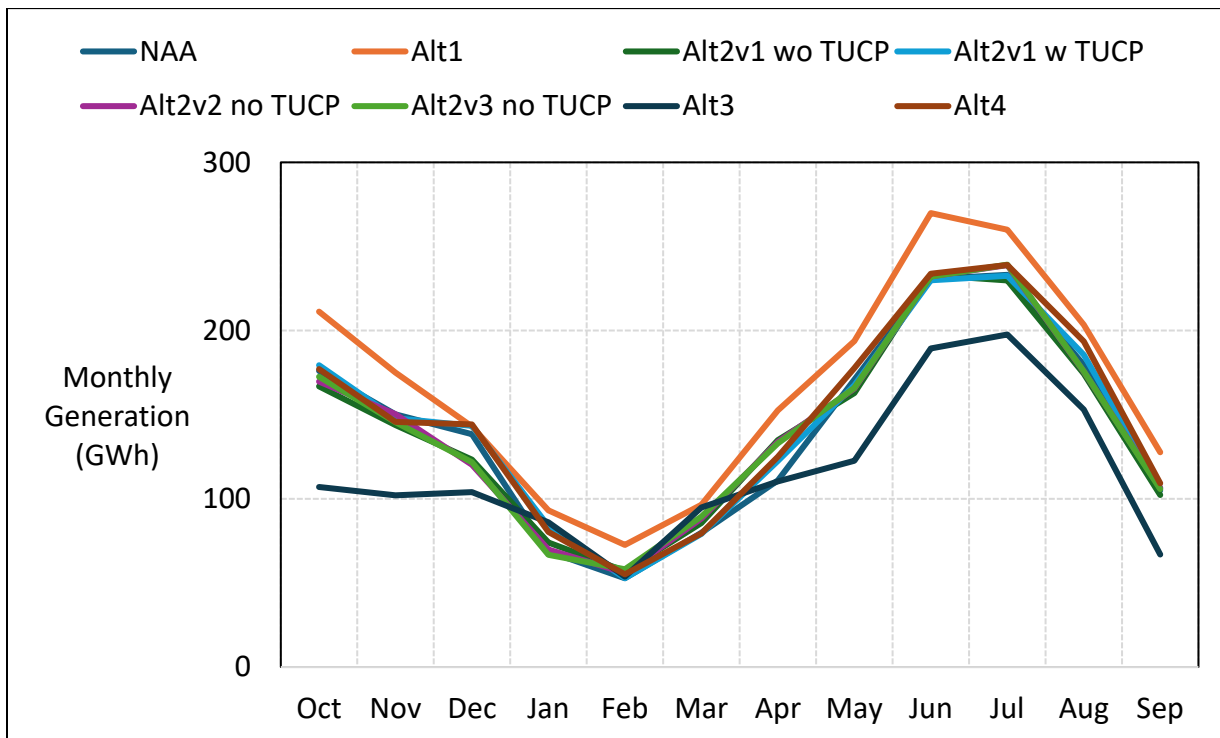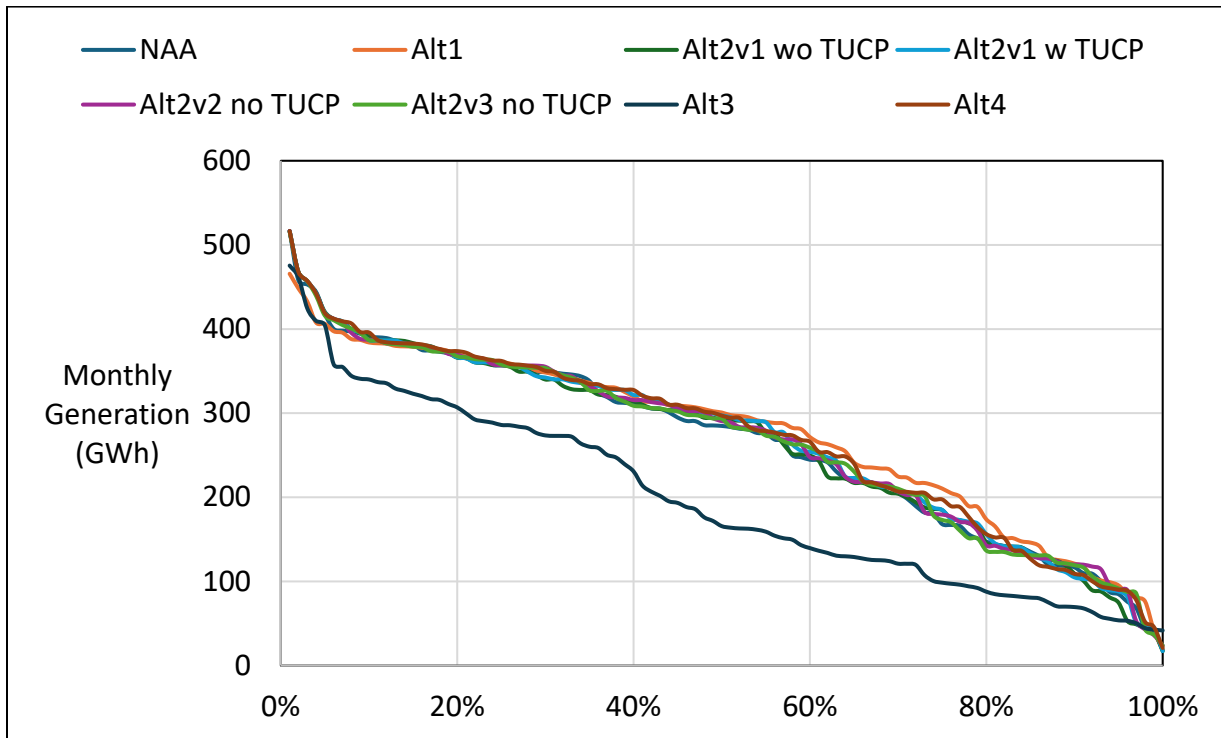
Figure 6-7. SWP Total Generation, October



Figure 6-8. SWP Total Generation, November
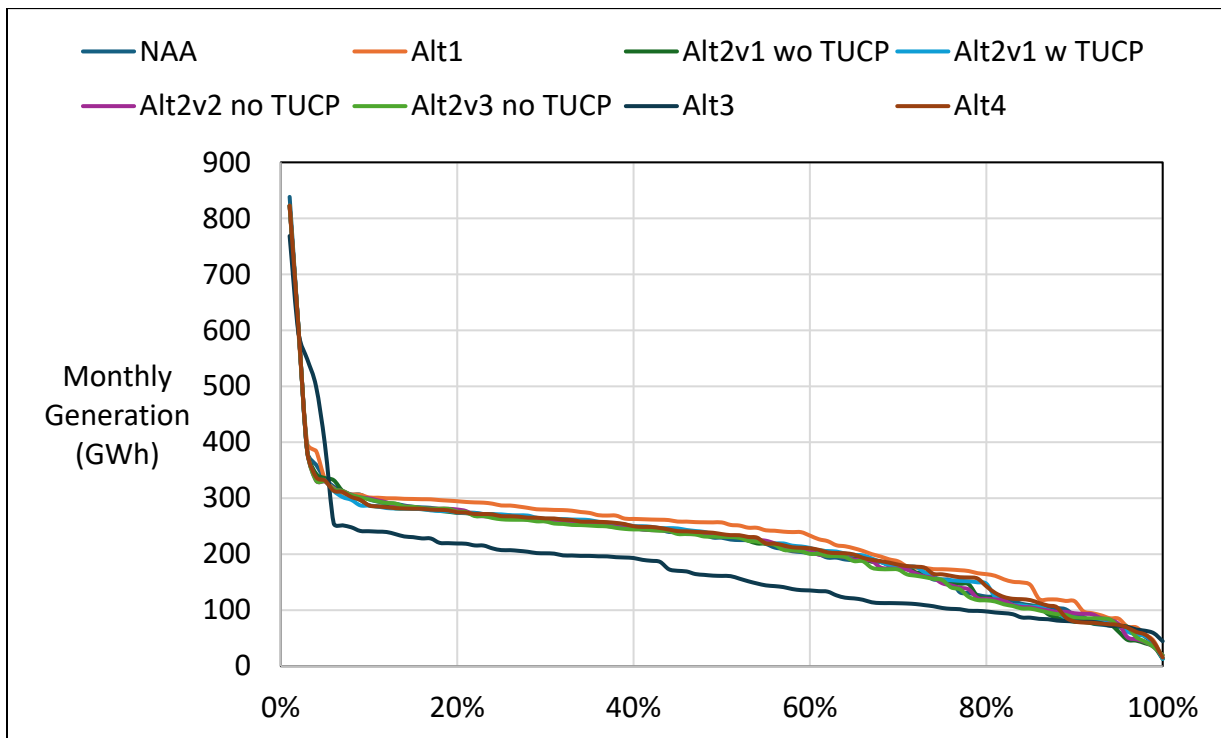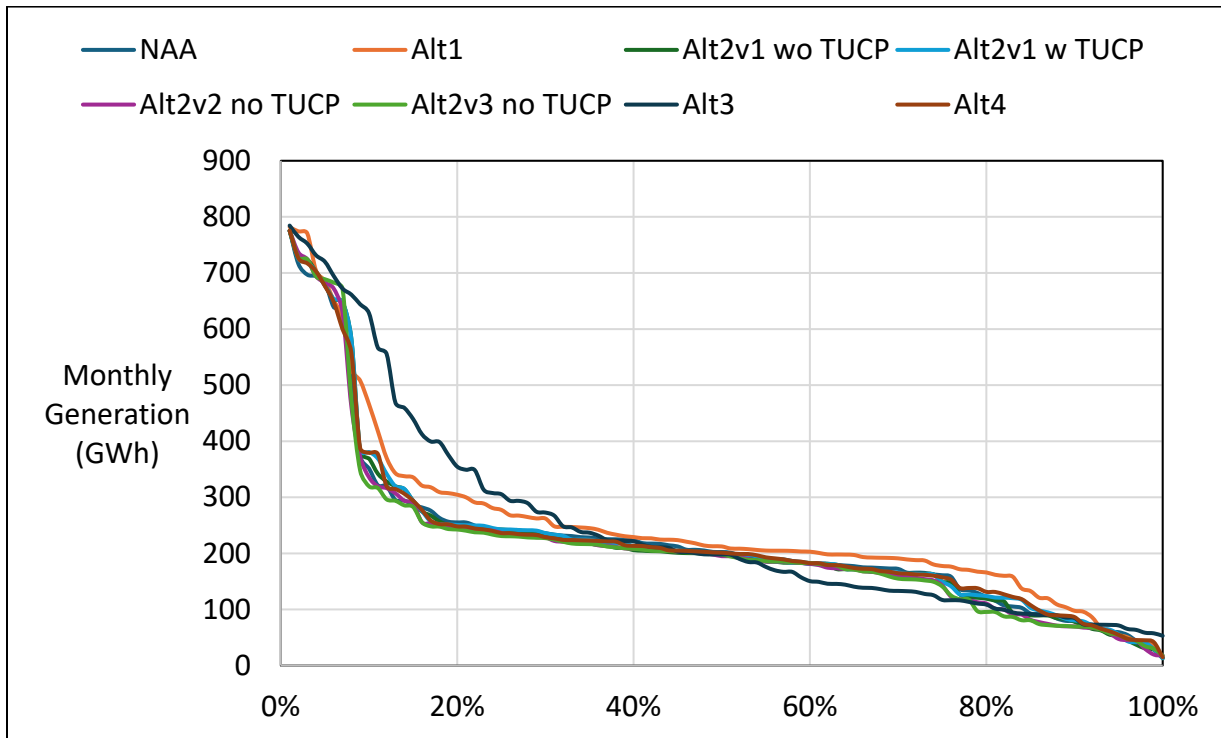
Figure 6-9. SWP Total Generation, December
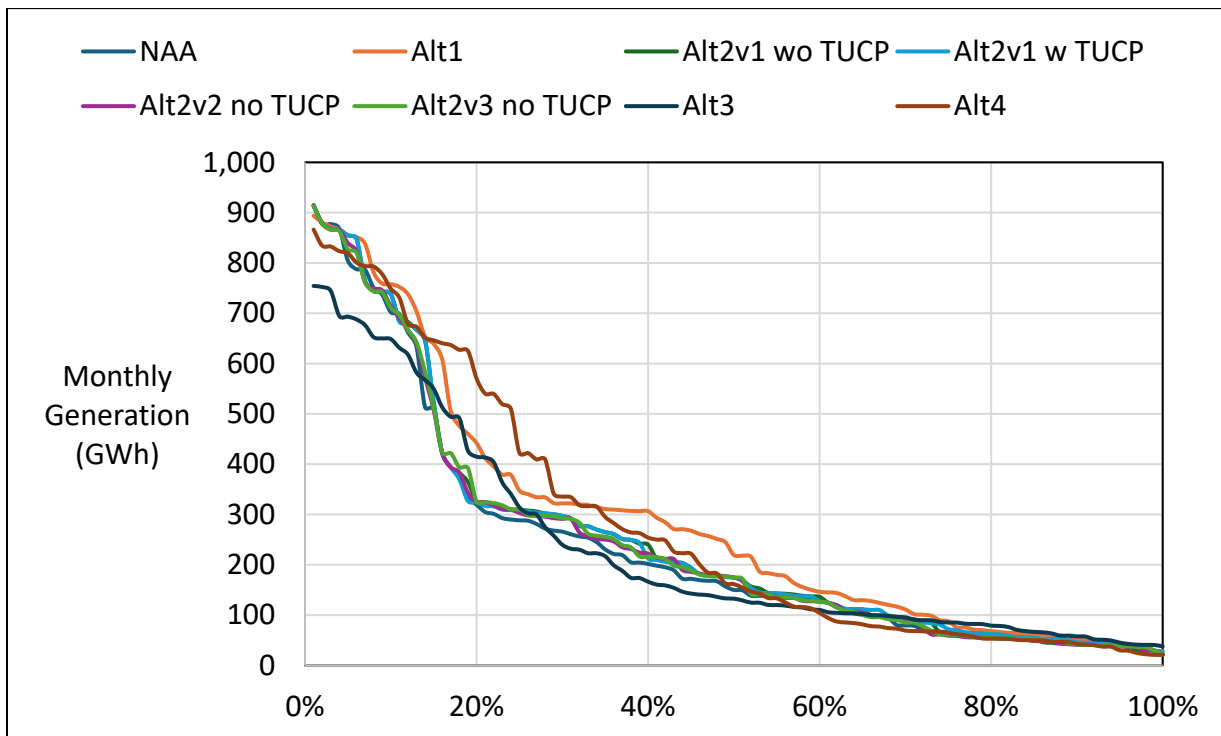


Figure 6-10. SWP Total Generation, January
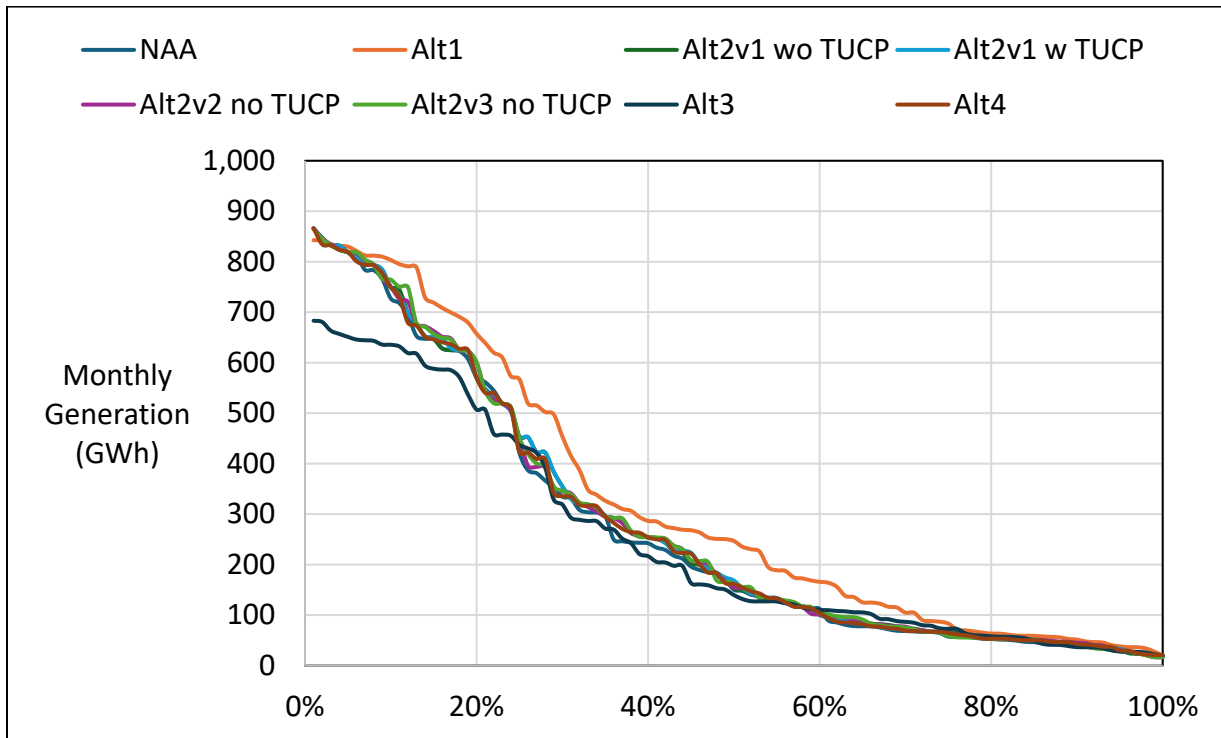
Figure 6-11. SWP Total Generation, February



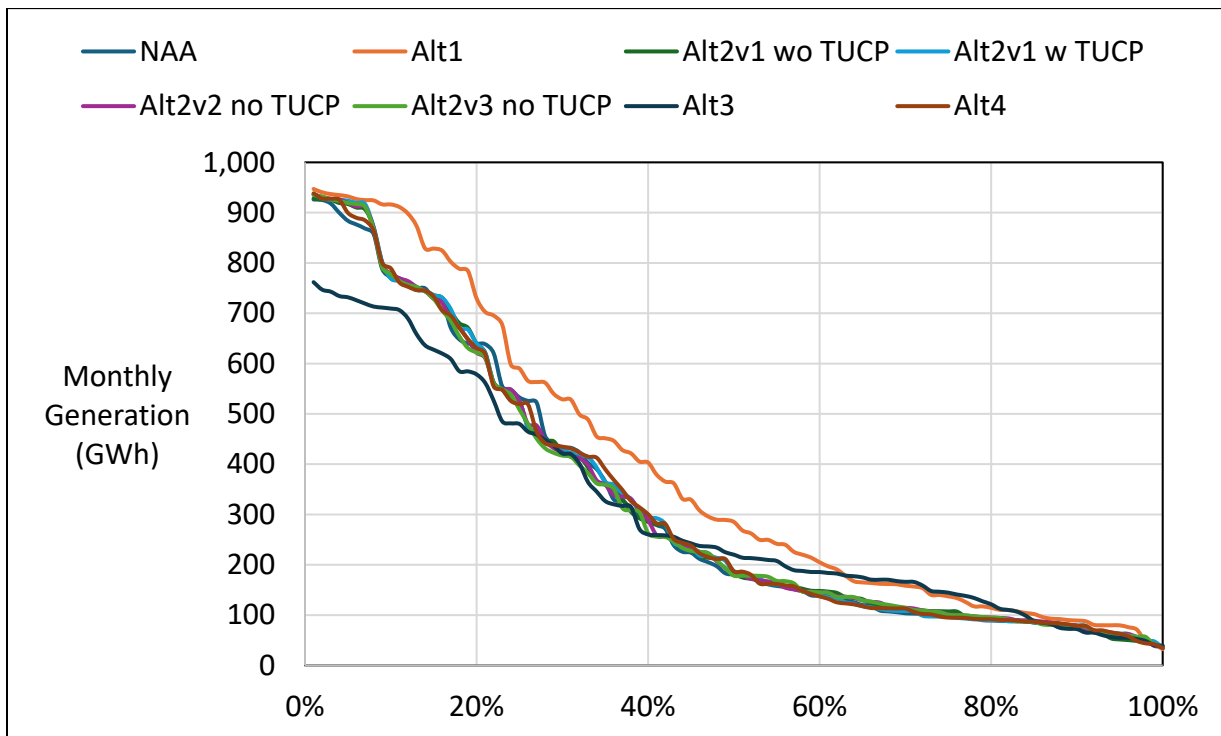Figure 6-12. SWP Total Generation, March

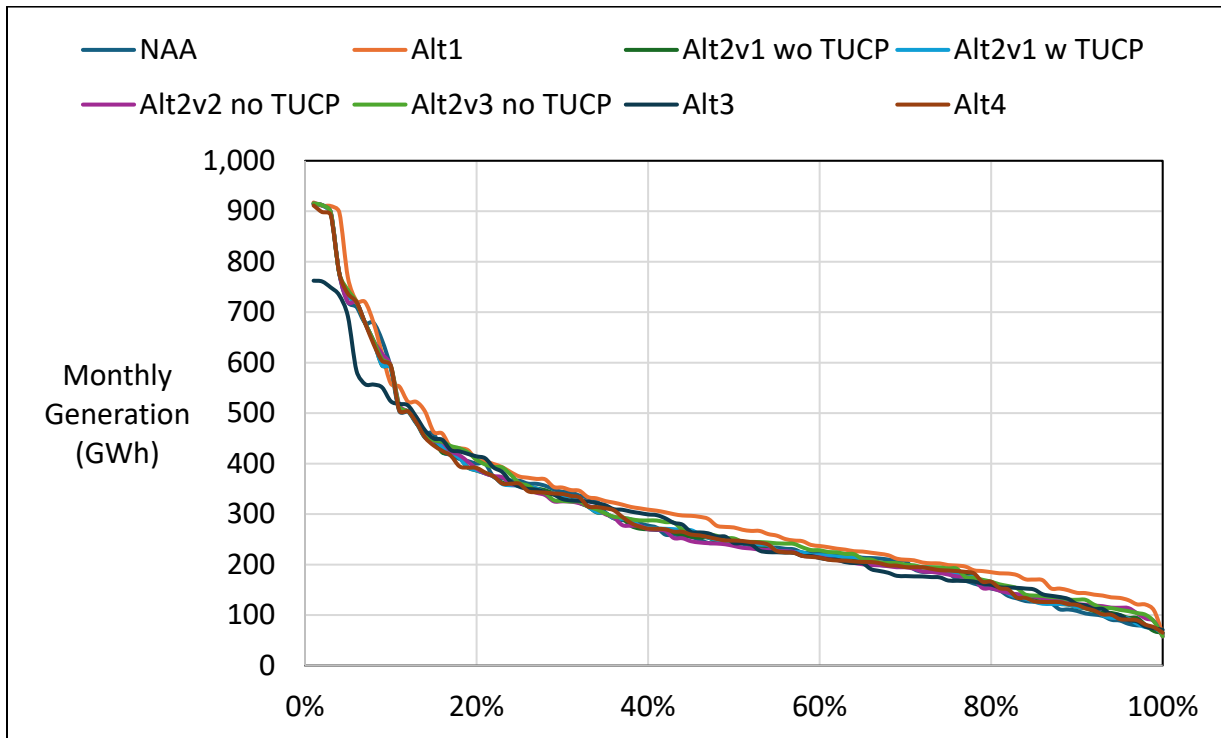Figure 6-13. SWP Total Generation, April
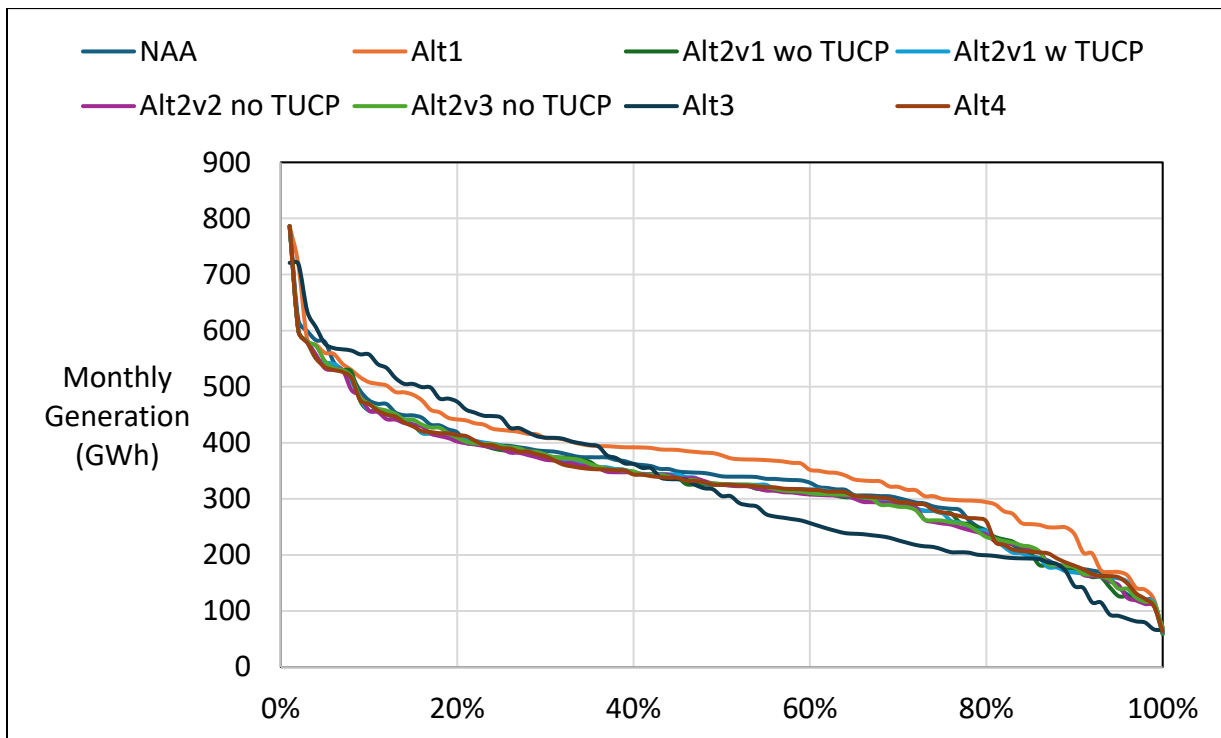


Figure 6-14. SWP Total Generation, May

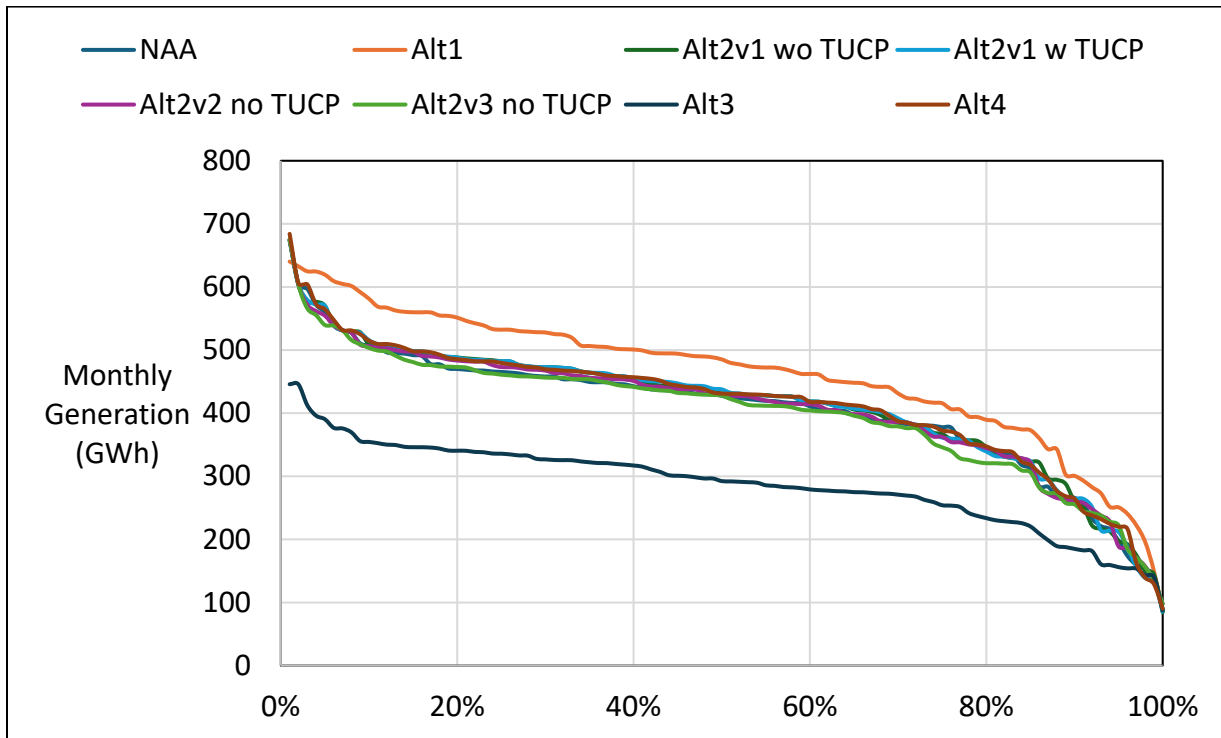Figure 6-15. SWP Total Generation, June
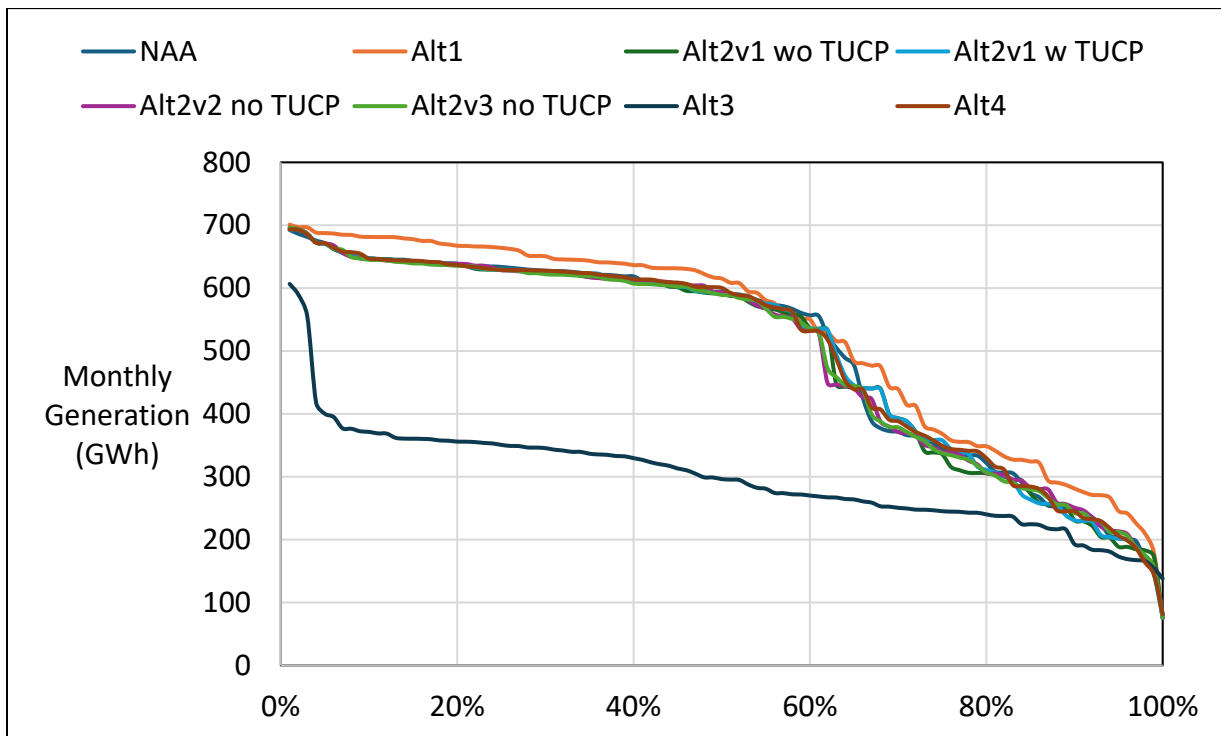


Figure 6-16. SWP Total Generation, July
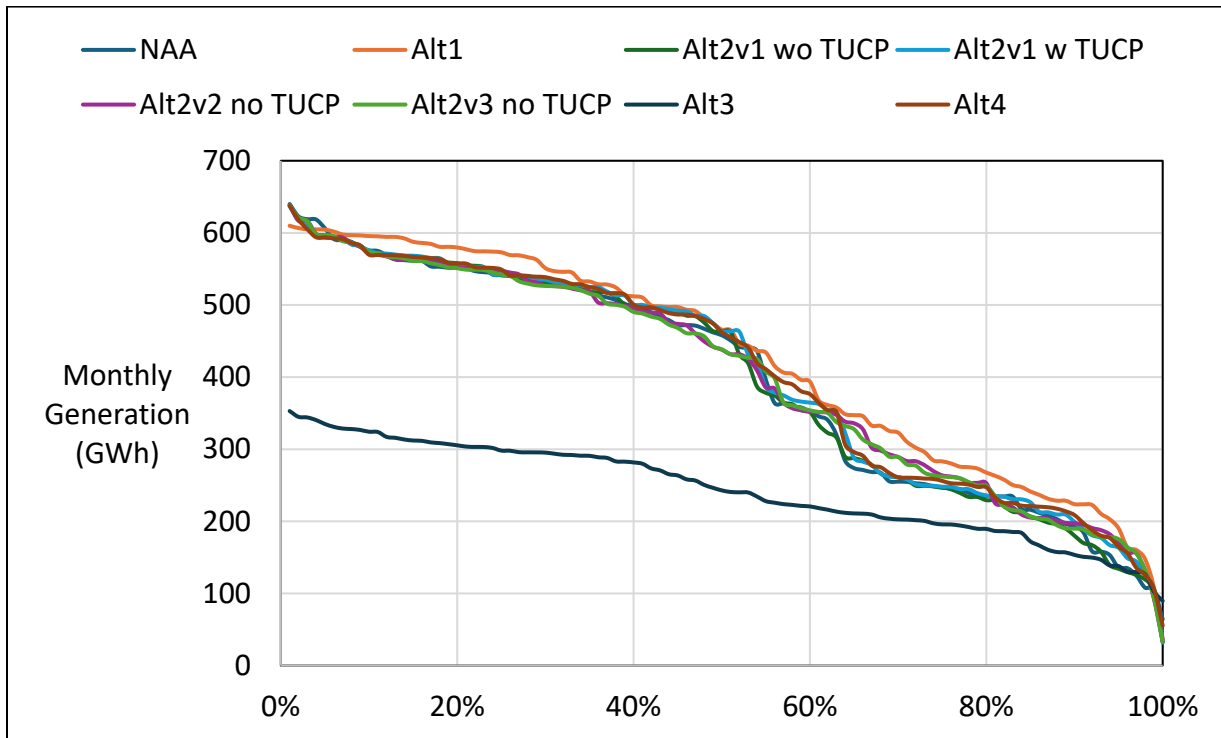
Figure 6-17. SWP Total Generation, August



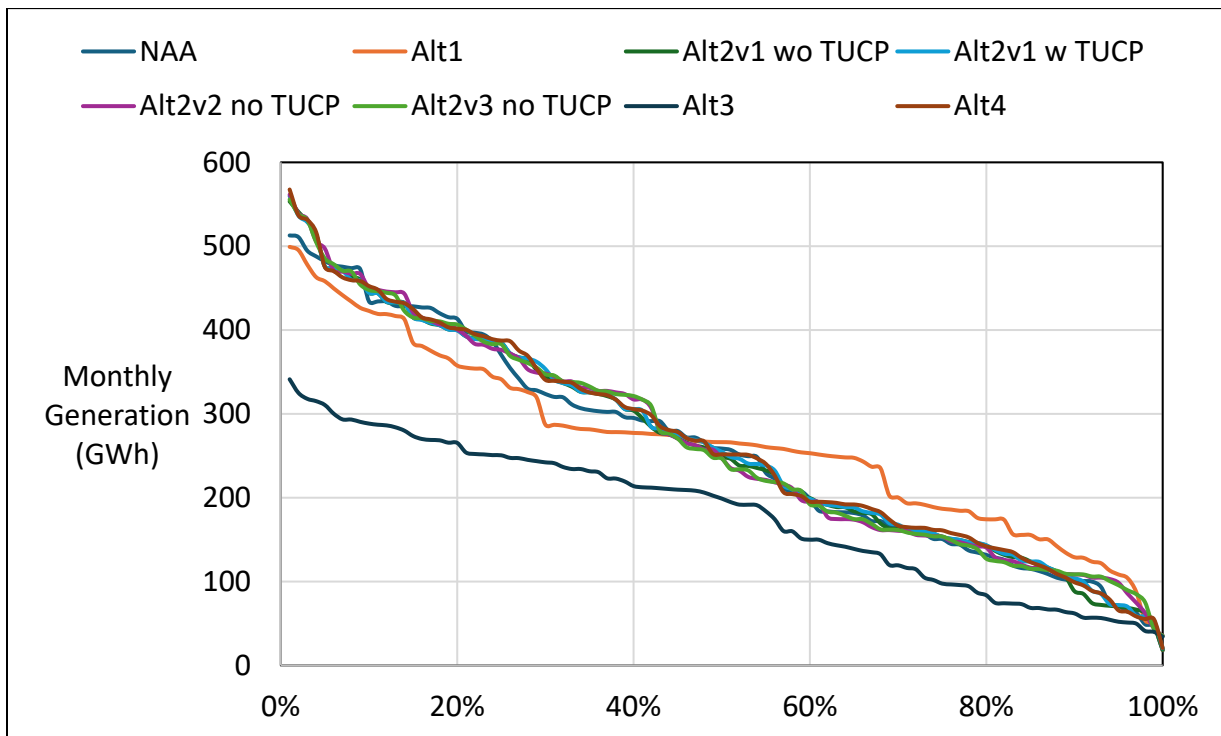Figure 6-18. SWP Total Generation, September

## Table 7-1. SWP Total Energy Use, Monthly Energy Use

**NAA**

| Statistic | Monthly Energy Use (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 846 | 811 | 668 | 952 | 914 | 966 | 836 | 724 | 803 | 952 | 949 | 858 |
| 20% | 779 | 756 | 617 | 750 | 728 | 624 | 584 | 665 | 722 | 853 | 874 | 770 |
| 30% | 743 | 712 | 585 | 570 | 580 | 558 | 566 | 619 | 702 | 840 | 849 | 713 |
| 40% | 704 | 683 | 555 | 458 | 439 | 496 | 537 | 602 | 683 | 828 | 818 | 674 |
| 50% | 660 | 619 | 526 | 368 | 349 | 432 | 506 | 592 | 666 | 751 | 755 | 626 |
| 60% | 528 | 505 | 488 | 279 | 273 | 378 | 487 | 534 | 578 | 659 | 601 | 555 |
| 70% | 467 | 394 | 412 | 169 | 181 | 273 | 372 | 490 | 468 | 509 | 457 | 456 |
| 80% | 274 | 244 | 312 | 129 | 143 | 235 | 302 | 317 | 357 | 370 | 339 | 328 |
| 90% | 131 | 154 | 209 | 105 | 97 | 176 | 213 | 229 | 272 | 260 | 261 | 223 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 566 | 537 | 484 | 436 | 431 | 477 | 507 | 534 | 573 | 652 | 638 | 568 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 645 | 636 | 540 | 650 | 691 | 767 | 707 | 719 | 747 | 879 | 877 | 767 |
| Above Normal (12%) | 639 | 583 | 525 | 433 | 482 | 541 | 538 | 595 | 652 | 817 | 820 | 696 |
| Below Normal (24%) | 569 | 533 | 456 | 422 | 392 | 388 | 532 | 573 | 609 | 705 | 640 | 589 |
| Dry (17%) | 536 | 524 | 492 | 327 | 213 | 264 | 324 | 346 | 411 | 394 | 387 | 364 |
| Critical (15%) | 370 | 313 | 367 | 130 | 145 | 195 | 220 | 237 | 261 | 247 | 264 | 237 |

**Alt1**

| Statistic | Monthly Energy Use (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 906 | 818 | 937 | 1,133 | 1,070 | 1,189 | 1,077 | 1,031 | 862 | 985 | 990 | 930 |
| 20% | 887 | 793 | 768 | 1,096 | 1,029 | 1,112 | 736 | 780 | 843 | 974 | 978 | 914 |
| 30% | 861 | 771 | 689 | 1,007 | 959 | 1,082 | 663 | 758 | 826 | 968 | 970 | 876 |
| 40% | 813 | 734 | 629 | 875 | 885 | 890 | 617 | 735 | 816 | 948 | 936 | 831 |
| 50% | 765 | 689 | 609 | 662 | 652 | 744 | 594 | 663 | 757 | 873 | 862 | 745 |
| 60% | 653 | 562 | 592 | 542 | 502 | 586 | 553 | 629 | 708 | 820 | 807 | 696 |
| 70% | 504 | 449 | 531 | 369 | 338 | 415 | 497 | 600 | 660 | 679 | 612 | 556 |

| Statistic | Monthly Energy Use (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| 80% | 373 | 322 | 451 | 246 | 250 | 336 | 386 | 545 | 574 | 520 | 490 | 441 |
| 90% | 181 | 218 | 264 | 179 | 148 | 241 | 299 | 322 | 392 | 370 | 336 | 304 |
| **Long Term** | | | | | | | | | | | | |
| Full Simulation Period | 642 | 582 | 606 | 672 | 638 | 729 | 604 | 667 | 696 | 770 | 757 | 680 |
| **Water Year Types** | | | | | | | | | | | | |
| Wet (32%) | 704 | 655 | 699 | 883 | 937 | 1,088 | 837 | 866 | 834 | 953 | 956 | 879 |
| Above Normal (12%) | 712 | 607 | 765 | 783 | 765 | 928 | 649 | 771 | 821 | 951 | 953 | 866 |
| Below Normal (24%) | 653 | 620 | 575 | 690 | 609 | 670 | 586 | 678 | 748 | 854 | 778 | 685 |
| Dry (17%) | 586 | 528 | 562 | 518 | 380 | 428 | 454 | 524 | 588 | 576 | 576 | 489 |
| Critical (15%) | 499 | 405 | 380 | 276 | 239 | 237 | 271 | 304 | 341 | 323 | 344 | 315 |

**Alt1 minus NAA**

| Statistic | Monthly Energy Use (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| **Probability of Exceedance** | | | | | | | | | | | | |
| 10% | 60 | 7 | 269 | 181 | 156 | 223 | 241 | 307 | 59 | 33 | 41 | 73 |
| 20% | 108 | 37 | 151 | 347 | 301 | 488 | 152 | 115 | 121 | 121 | 104 | 144 |
| 30% | 118 | 59 | 104 | 436 | 379 | 524 | 97 | 140 | 125 | 128 | 121 | 163 |
| 40% | 109 | 51 | 74 | 417 | 445 | 394 | 80 | 133 | 132 | 120 | 119 | 158 |
| 50% | 105 | 70 | 83 | 294 | 303 | 312 | 89 | 70 | 90 | 123 | 107 | 119 |
| 60% | 125 | 57 | 104 | 262 | 229 | 208 | 66 | 95 | 130 | 161 | 206 | 141 |
| 70% | 37 | 55 | 120 | 199 | 157 | 141 | 125 | 110 | 192 | 170 | 155 | 100 |
| 80% | 100 | 78 | 140 | 117 | 106 | 102 | 84 | 228 | 217 | 149 | 151 | 112 |
| 90% | 50 | 64 | 55 | 74 | 51 | 65 | 86 | 94 | 120 | 110 | 75 | 81 |
| **Long Term** | | | | | | | | | | | | |
| Full Simulation Period | 76 | 44 | 122 | 236 | 207 | 251 | 98 | 134 | 124 | 118 | 119 | 112 |
| **Water Year Types** | | | | | | | | | | | | |
| Wet (32%) | 59 | 19 | 158 | 233 | 246 | 321 | 130 | 147 | 87 | 74 | 80 | 113 |
| Above Normal (12%) | 72 | 25 | 240 | 350 | 284 | 387 | 111 | 177 | 169 | 134 | 134 | 170 |
| Below Normal (24%) | 84 | 87 | 118 | 268 | 217 | 282 | 54 | 105 | 139 | 149 | 138 | 96 |
| Dry (17%) | 49 | 4 | 69 | 191 | 168 | 164 | 130 | 178 | 176 | 182 | 189 | 125 |
| Critical (15%) | 129 | 92 | 13 | 146 | 94 | 42 | 51 | 67 | 80 | 75 | 81 | 78 |

Table 7-2. SWP Total Energy Use, Monthly Energy Use

**NAA**

| Statistic | Monthly Energy Use (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 846 | 811 | 668 | 952 | 914 | 966 | 836 | 724 | 803 | 952 | 949 | 858 |
| 20% | 779 | 756 | 617 | 750 | 728 | 624 | 584 | 665 | 722 | 853 | 874 | 770 |
| 30% | 743 | 712 | 585 | 570 | 580 | 558 | 566 | 619 | 702 | 840 | 849 | 713 |
| 40% | 704 | 683 | 555 | 458 | 439 | 496 | 537 | 602 | 683 | 828 | 818 | 674 |
| 50% | 660 | 619 | 526 | 368 | 349 | 432 | 506 | 592 | 666 | 751 | 755 | 626 |
| 60% | 528 | 505 | 488 | 279 | 273 | 378 | 487 | 534 | 578 | 659 | 601 | 555 |
| 70% | 467 | 394 | 412 | 169 | 181 | 273 | 372 | 490 | 468 | 509 | 457 | 456 |
| 80% | 274 | 244 | 312 | 129 | 143 | 235 | 302 | 317 | 357 | 370 | 339 | 328 |
| 90% | 131 | 154 | 209 | 105 | 97 | 176 | 213 | 229 | 272 | 260 | 261 | 223 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 566 | 537 | 484 | 436 | 431 | 477 | 507 | 534 | 573 | 652 | 638 | 568 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 645 | 636 | 540 | 650 | 691 | 767 | 707 | 719 | 747 | 879 | 877 | 767 |
| Above Normal (12%) | 639 | 583 | 525 | 433 | 482 | 541 | 538 | 595 | 652 | 817 | 820 | 696 |
| Below Normal (24%) | 569 | 533 | 456 | 422 | 392 | 388 | 532 | 573 | 609 | 705 | 640 | 589 |
| Dry (17%) | 536 | 524 | 492 | 327 | 213 | 264 | 324 | 346 | 411 | 394 | 387 | 364 |
| Critical (15%) | 370 | 313 | 367 | 130 | 145 | 195 | 220 | 237 | 261 | 247 | 264 | 237 |

**Alt2v1 wo TUCP**

| Statistic | Monthly Energy Use (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 852 | 810 | 681 | 966 | 1,003 | 1,066 | 966 | 882 | 824 | 954 | 956 | 864 |
| 20% | 790 | 767 | 622 | 854 | 860 | 626 | 642 | 719 | 743 | 867 | 878 | 752 |
| 30% | 726 | 705 | 582 | 655 | 622 | 580 | 599 | 646 | 703 | 846 | 854 | 731 |
| 40% | 698 | 674 | 548 | 504 | 480 | 486 | 570 | 623 | 681 | 826 | 822 | 676 |
| 50% | 657 | 637 | 513 | 413 | 372 | 436 | 543 | 613 | 664 | 773 | 773 | 647 |
| 60% | 559 | 515 | 455 | 297 | 274 | 347 | 508 | 576 | 612 | 666 | 632 | 591 |
| 70% | 459 | 417 | 419 | 179 | 189 | 275 | 381 | 477 | 488 | 543 | 468 | 437 |

| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Monthly Energy Use (GWh) | | | | | | | |
| 80% | 262 | 310 | 315 | 123 | 139 | 219 | 286 | 334 | 364 | 368 | 373 | 342 |
| 90% | 147 | 96 | 204 | 94 | 105 | 176 | 200 | 244 | 215 | 275 | 188 | 177 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 567 | 539 | 479 | 469 | 458 | 488 | 533 | 567 | 581 | 660 | 647 | 578 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 638 | 639 | 536 | 700 | 738 | 802 | 756 | 780 | 756 | 882 | 884 | 777 |
| Above Normal (12%) | 563 | 583 | 554 | 479 | 498 | 523 | 576 | 623 | 656 | 849 | 840 | 724 |
| Below Normal (24%) | 588 | 550 | 466 | 438 | 419 | 403 | 554 | 620 | 638 | 722 | 662 | 597 |
| Dry (17%) | 591 | 518 | 481 | 356 | 239 | 265 | 332 | 352 | 413 | 394 | 391 | 372 |
| Critical (15%) | 361 | 295 | 317 | 142 | 138 | 179 | 216 | 226 | 250 | 239 | 255 | 239 |

**Alt2v1 wo TUCP minus NAA**

| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Monthly Energy Use (GWh) | | | | | | | |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 6 | -1 | 13 | 13 | 89 | 100 | 130 | 158 | 21 | 2 | 7 | 6 |
| 20% | 10 | 11 | 4 | 104 | 132 | 2 | 58 | 54 | 21 | 13 | 4 | -18 |
| 30% | -17 | -6 | -2 | 85 | 41 | 22 | 33 | 27 | 2 | 6 | 5 | 18 |
| 40% | -6 | -9 | -7 | 47 | 41 | -10 | 32 | 21 | -2 | -2 | 4 | 3 |
| 50% | -3 | 18 | -13 | 45 | 23 | 3 | 37 | 20 | -2 | 22 | 18 | 21 |
| 60% | 31 | 10 | -33 | 17 | 1 | -31 | 20 | 42 | 34 | 7 | 31 | 36 |
| 70% | -8 | 23 | 7 | 9 | 8 | 2 | 9 | -13 | 20 | 34 | 12 | -20 |
| 80% | -12 | 66 | 3 | -6 | -5 | -15 | -16 | 18 | 7 | -2 | 34 | 13 |
| 90% | 17 | -58 | -5 | -10 | 8 | -1 | -14 | 15 | -57 | 15 | -73 | -46 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 1 | 1 | -5 | 33 | 27 | 10 | 26 | 33 | 9 | 8 | 10 | 10 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | -8 | 3 | -4 | 51 | 47 | 34 | 49 | 60 | 9 | 3 | 8 | 11 |
| Above Normal (12%) | -77 | 0 | 28 | 46 | 16 | -18 | 37 | 28 | 5 | 31 | 20 | 28 |
| Below Normal (24%) | 19 | 17 | 10 | 17 | 27 | 15 | 22 | 47 | 29 | 17 | 22 | 8 |
| Dry (17%) | 55 | -7 | -12 | 29 | 27 | 1 | 8 | 6 | 1 | 0 | 4 | 8 |
| Critical (15%) | -9 | -18 | -51 | 12 | -7 | -15 | -4 | -10 | -11 | -8 | -9 | 1 |

## Table 7-3. SWP Total Energy Use, Monthly Energy Use

**NAA**

| Statistic | Monthly Energy Use (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 846 | 811 | 668 | 952 | 914 | 966 | 836 | 724 | 803 | 952 | 949 | 858 |
| 20% | 779 | 756 | 617 | 750 | 728 | 624 | 584 | 665 | 722 | 853 | 874 | 770 |
| 30% | 743 | 712 | 585 | 570 | 580 | 558 | 566 | 619 | 702 | 840 | 849 | 713 |
| 40% | 704 | 683 | 555 | 458 | 439 | 496 | 537 | 602 | 683 | 828 | 818 | 674 |
| 50% | 660 | 619 | 526 | 368 | 349 | 432 | 506 | 592 | 666 | 751 | 755 | 626 |
| 60% | 528 | 505 | 488 | 279 | 273 | 378 | 487 | 534 | 578 | 659 | 601 | 555 |
| 70% | 467 | 394 | 412 | 169 | 181 | 273 | 372 | 490 | 468 | 509 | 457 | 456 |
| 80% | 274 | 244 | 312 | 129 | 143 | 235 | 302 | 317 | 357 | 370 | 339 | 328 |
| 90% | 131 | 154 | 209 | 105 | 97 | 176 | 213 | 229 | 272 | 260 | 261 | 223 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 566 | 537 | 484 | 436 | 431 | 477 | 507 | 534 | 573 | 652 | 638 | 568 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 645 | 636 | 540 | 650 | 691 | 767 | 707 | 719 | 747 | 879 | 877 | 767 |
| Above Normal (12%) | 639 | 583 | 525 | 433 | 482 | 541 | 538 | 595 | 652 | 817 | 820 | 696 |
| Below Normal (24%) | 569 | 533 | 456 | 422 | 392 | 388 | 532 | 573 | 609 | 705 | 640 | 589 |
| Dry (17%) | 536 | 524 | 492 | 327 | 213 | 264 | 324 | 346 | 411 | 394 | 387 | 364 |
| Critical (15%) | 370 | 313 | 367 | 130 | 145 | 195 | 220 | 237 | 261 | 247 | 264 | 237 |

**Alt2v1 w TUCP**

| Statistic | Monthly Energy Use (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 858 | 822 | 698 | 966 | 1,003 | 1,066 | 953 | 849 | 825 | 951 | 953 | 862 |
| 20% | 810 | 768 | 628 | 856 | 842 | 626 | 639 | 716 | 742 | 879 | 891 | 761 |
| 30% | 753 | 704 | 581 | 579 | 605 | 580 | 600 | 650 | 705 | 849 | 857 | 733 |
| 40% | 703 | 672 | 551 | 477 | 470 | 491 | 571 | 628 | 687 | 832 | 827 | 686 |
| 50% | 661 | 637 | 517 | 400 | 372 | 435 | 545 | 615 | 664 | 792 | 790 | 650 |
| 60% | 584 | 560 | 466 | 299 | 274 | 347 | 508 | 576 | 612 | 668 | 630 | 589 |
| 70% | 465 | 444 | 424 | 159 | 192 | 277 | 381 | 477 | 487 | 543 | 475 | 454 |

| Statistic | Monthly Energy Use (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| 80% | 277 | 318 | 317 | 130 | 144 | 235 | 319 | 344 | 390 | 398 | 403 | 351 |
| 90% | 152 | 130 | 226 | 101 | 108 | 179 | 236 | 243 | 247 | 278 | 254 | 209 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 577 | 548 | 487 | 463 | 459 | 490 | 539 | 569 | 585 | 666 | 660 | 580 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 649 | 638 | 545 | 686 | 739 | 800 | 757 | 781 | 757 | 882 | 885 | 778 |
| Above Normal (12%) | 617 | 608 | 558 | 457 | 492 | 522 | 580 | 627 | 659 | 854 | 845 | 731 |
| Below Normal (24%) | 575 | 559 | 453 | 438 | 418 | 405 | 564 | 615 | 640 | 733 | 698 | 605 |
| Dry (17%) | 595 | 529 | 468 | 356 | 241 | 267 | 336 | 351 | 416 | 399 | 397 | 375 |
| Critical (15%) | 377 | 310 | 383 | 151 | 145 | 191 | 231 | 244 | 265 | 253 | 271 | 233 |

**Alt2v1 w TUCP minus NAA**

| Statistic | Monthly Energy Use (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 12 | 11 | 30 | 13 | 89 | 100 | 117 | 125 | 22 | -1 | 4 | 5 |
| 20% | 31 | 11 | 11 | 106 | 114 | 2 | 55 | 51 | 20 | 26 | 17 | -9 |
| 30% | 10 | -8 | -3 | 8 | 25 | 22 | 33 | 32 | 3 | 9 | 7 | 20 |
| 40% | -1 | -11 | -5 | 19 | 31 | -6 | 33 | 26 | 4 | 4 | 9 | 12 |
| 50% | 0 | 18 | -9 | 32 | 23 | 2 | 39 | 22 | -2 | 41 | 35 | 24 |
| 60% | 56 | 55 | -22 | 20 | 0 | -31 | 21 | 42 | 34 | 9 | 29 | 34 |
| 70% | -2 | 50 | 13 | -11 | 11 | 4 | 9 | -14 | 19 | 34 | 18 | -3 |
| 80% | 3 | 74 | 6 | 1 | 1 | 0 | 17 | 27 | 33 | 28 | 65 | 23 |
| 90% | 22 | -24 | 17 | -4 | 11 | 2 | 22 | 15 | -25 | 19 | -7 | -14 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 11 | 10 | 3 | 27 | 28 | 12 | 33 | 36 | 13 | 14 | 23 | 13 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 4 | 2 | 5 | 37 | 48 | 32 | 50 | 62 | 9 | 3 | 9 | 11 |
| Above Normal (12%) | -23 | 25 | 33 | 24 | 10 | -19 | 42 | 32 | 7 | 37 | 26 | 35 |
| Below Normal (24%) | 6 | 26 | -3 | 17 | 27 | 18 | 32 | 42 | 30 | 28 | 58 | 17 |
| Dry (17%) | 59 | 5 | -24 | 29 | 29 | 3 | 12 | 5 | 5 | 5 | 10 | 11 |
| Critical (15%) | 7 | -3 | 16 | 21 | 0 | -3 | 11 | 7 | 4 | 6 | 7 | -5 |

## Table 7-4. SWP Total Energy Use, Monthly Energy Use

**NAA**

| Statistic | Monthly Energy Use (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 846 | 811 | 668 | 952 | 914 | 966 | 836 | 724 | 803 | 952 | 949 | 858 |
| 20% | 779 | 756 | 617 | 750 | 728 | 624 | 584 | 665 | 722 | 853 | 874 | 770 |
| 30% | 743 | 712 | 585 | 570 | 580 | 558 | 566 | 619 | 702 | 840 | 849 | 713 |
| 40% | 704 | 683 | 555 | 458 | 439 | 496 | 537 | 602 | 683 | 828 | 818 | 674 |
| 50% | 660 | 619 | 526 | 368 | 349 | 432 | 506 | 592 | 666 | 751 | 755 | 626 |
| 60% | 528 | 505 | 488 | 279 | 273 | 378 | 487 | 534 | 578 | 659 | 601 | 555 |
| 70% | 467 | 394 | 412 | 169 | 181 | 273 | 372 | 490 | 468 | 509 | 457 | 456 |
| 80% | 274 | 244 | 312 | 129 | 143 | 235 | 302 | 317 | 357 | 370 | 339 | 328 |
| 90% | 131 | 154 | 209 | 105 | 97 | 176 | 213 | 229 | 272 | 260 | 261 | 223 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 566 | 537 | 484 | 436 | 431 | 477 | 507 | 534 | 573 | 652 | 638 | 568 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 645 | 636 | 540 | 650 | 691 | 767 | 707 | 719 | 747 | 879 | 877 | 767 |
| Above Normal (12%) | 639 | 583 | 525 | 433 | 482 | 541 | 538 | 595 | 652 | 817 | 820 | 696 |
| Below Normal (24%) | 569 | 533 | 456 | 422 | 392 | 388 | 532 | 573 | 609 | 705 | 640 | 589 |
| Dry (17%) | 536 | 524 | 492 | 327 | 213 | 264 | 324 | 346 | 411 | 394 | 387 | 364 |
| Critical (15%) | 370 | 313 | 367 | 130 | 145 | 195 | 220 | 237 | 261 | 247 | 264 | 237 |

**Alt2v2 no TUCP**

| Statistic | Monthly Energy Use (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 856 | 809 | 660 | 949 | 955 | 1,066 | 920 | 881 | 825 | 956 | 957 | 852 |
| 20% | 789 | 751 | 617 | 841 | 826 | 633 | 611 | 691 | 720 | 869 | 883 | 753 |
| 30% | 746 | 707 | 575 | 652 | 630 | 573 | 568 | 640 | 701 | 847 | 849 | 718 |
| 40% | 702 | 684 | 551 | 459 | 495 | 484 | 543 | 625 | 683 | 832 | 823 | 677 |
| 50% | 667 | 642 | 514 | 384 | 378 | 424 | 507 | 603 | 661 | 779 | 752 | 648 |
| 60% | 569 | 525 | 456 | 257 | 302 | 357 | 473 | 555 | 583 | 644 | 644 | 572 |
| 70% | 476 | 414 | 392 | 167 | 210 | 263 | 354 | 429 | 452 | 524 | 528 | 452 |

| Statistic | Monthly Energy Use (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| 80% | 310 | 300 | 259 | 123 | 142 | 225 | 283 | 332 | 339 | 384 | 403 | 329 |
| 90% | 215 | 175 | 191 | 98 | 106 | 187 | 233 | 239 | 271 | 275 | 289 | 245 |
| **Long Term** | | | | | | | | | | | | |
| Full Simulation Period | 587 | 544 | 468 | 457 | 465 | 485 | 510 | 562 | 574 | 662 | 662 | 579 |
| **Water Year Types** | | | | | | | | | | | | |
| Wet (32%) | 665 | 626 | 536 | 678 | 741 | 800 | 727 | 785 | 758 | 883 | 887 | 781 |
| Above Normal (12%) | 626 | 598 | 533 | 415 | 509 | 525 | 534 | 620 | 653 | 843 | 834 | 724 |
| Below Normal (24%) | 593 | 553 | 453 | 453 | 430 | 385 | 517 | 592 | 601 | 711 | 701 | 589 |
| Dry (17%) | 585 | 536 | 460 | 358 | 245 | 265 | 330 | 346 | 407 | 401 | 403 | 369 |
| Critical (15%) | 383 | 322 | 307 | 137 | 147 | 190 | 220 | 238 | 266 | 265 | 276 | 253 |

**Alt2v2 no TUCP minus NAA**

| Statistic | Monthly Energy Use (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| **Probability of Exceedance** | | | | | | | | | | | | |
| 10% | 10 | -2 | -8 | -3 | 41 | 100 | 84 | 157 | 22 | 4 | 7 | -5 |
| 20% | 10 | -5 | 0 | 91 | 98 | 9 | 27 | 26 | -2 | 16 | 9 | -17 |
| 30% | 3 | -5 | -9 | 82 | 49 | 15 | 1 | 22 | -1 | 7 | -1 | 5 |
| 40% | -2 | 1 | -5 | 1 | 55 | -12 | 6 | 23 | 0 | 4 | 5 | 4 |
| 50% | 7 | 24 | -11 | 16 | 29 | -8 | 2 | 10 | -5 | 28 | -3 | 22 |
| 60% | 41 | 20 | -32 | -22 | 29 | -21 | -14 | 22 | 5 | -15 | 43 | 17 |
| 70% | 9 | 20 | -19 | -2 | 29 | -11 | -18 | -61 | -16 | 16 | 71 | -4 |
| 80% | 37 | 56 | -53 | -6 | -1 | -10 | -19 | 15 | -18 | 14 | 64 | 1 |
| 90% | 84 | 20 | -18 | -7 | 9 | 11 | 19 | 10 | -1 | 15 | 28 | 22 |
| **Long Term** | | | | | | | | | | | | |
| Full Simulation Period | 21 | 6 | -16 | 21 | 34 | 7 | 3 | 29 | 2 | 10 | 24 | 11 |
| **Water Year Types** | | | | | | | | | | | | |
| Wet (32%) | 20 | -10 | -5 | 28 | 50 | 33 | 20 | 65 | 11 | 5 | 11 | 14 |
| Above Normal (12%) | -13 | 15 | 7 | -18 | 28 | -16 | -4 | 25 | 2 | 26 | 15 | 28 |
| Below Normal (24%) | 25 | 20 | -3 | 32 | 38 | -3 | -15 | 18 | -9 | 6 | 61 | 1 |
| Dry (17%) | 48 | 11 | -33 | 32 | 32 | 1 | 7 | 0 | -5 | 7 | 16 | 5 |
| Critical (15%) | 13 | 8 | -60 | 7 | 2 | -5 | 0 | 2 | 5 | 18 | 12 | 15 |

## Table 7-5. SWP Total Energy Use, Monthly Energy Use

**NAA**

| Statistic | Monthly Energy Use (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 846 | 811 | 668 | 952 | 914 | 966 | 836 | 724 | 803 | 952 | 949 | 858 |
| 20% | 779 | 756 | 617 | 750 | 728 | 624 | 584 | 665 | 722 | 853 | 874 | 770 |
| 30% | 743 | 712 | 585 | 570 | 580 | 558 | 566 | 619 | 702 | 840 | 849 | 713 |
| 40% | 704 | 683 | 555 | 458 | 439 | 496 | 537 | 602 | 683 | 828 | 818 | 674 |
| 50% | 660 | 619 | 526 | 368 | 349 | 432 | 506 | 592 | 666 | 751 | 755 | 626 |
| 60% | 528 | 505 | 488 | 279 | 273 | 378 | 487 | 534 | 578 | 659 | 601 | 555 |
| 70% | 467 | 394 | 412 | 169 | 181 | 273 | 372 | 490 | 468 | 509 | 457 | 456 |
| 80% | 274 | 244 | 312 | 129 | 143 | 235 | 302 | 317 | 357 | 370 | 339 | 328 |
| 90% | 131 | 154 | 209 | 105 | 97 | 176 | 213 | 229 | 272 | 260 | 261 | 223 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 566 | 537 | 484 | 436 | 431 | 477 | 507 | 534 | 573 | 652 | 638 | 568 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 645 | 636 | 540 | 650 | 691 | 767 | 707 | 719 | 747 | 879 | 877 | 767 |
| Above Normal (12%) | 639 | 583 | 525 | 433 | 482 | 541 | 538 | 595 | 652 | 817 | 820 | 696 |
| Below Normal (24%) | 569 | 533 | 456 | 422 | 392 | 388 | 532 | 573 | 609 | 705 | 640 | 589 |
| Dry (17%) | 536 | 524 | 492 | 327 | 213 | 264 | 324 | 346 | 411 | 394 | 387 | 364 |
| Critical (15%) | 370 | 313 | 367 | 130 | 145 | 195 | 220 | 237 | 261 | 247 | 264 | 237 |

**Alt2v3 no TUCP**

| Statistic | Monthly Energy Use (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 858 | 801 | 655 | 954 | 964 | 1,065 | 904 | 881 | 825 | 967 | 968 | 870 |
| 20% | 783 | 748 | 615 | 850 | 837 | 633 | 612 | 690 | 722 | 865 | 882 | 746 |
| 30% | 743 | 706 | 569 | 636 | 654 | 565 | 566 | 639 | 698 | 846 | 849 | 719 |
| 40% | 706 | 681 | 549 | 467 | 494 | 492 | 543 | 622 | 679 | 833 | 821 | 680 |
| 50% | 669 | 634 | 510 | 389 | 379 | 426 | 505 | 596 | 649 | 785 | 762 | 650 |
| 60% | 581 | 511 | 465 | 276 | 306 | 358 | 473 | 548 | 581 | 661 | 645 | 575 |
| 70% | 483 | 406 | 379 | 166 | 209 | 259 | 360 | 392 | 442 | 531 | 516 | 448 |

| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Monthly Energy Use (GWh) | | | | | | |
| 80% | 294 | 264 | 250 | 126 | 139 | 228 | 279 | 326 | 326 | 382 | 396 | 309 |
| 90% | 218 | 177 | 190 | 100 | 105 | 181 | 227 | 237 | 259 | 275 | 282 | 248 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 587 | 540 | 464 | 462 | 469 | 486 | 508 | 559 | 569 | 664 | 663 | 579 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 665 | 618 | 531 | 683 | 750 | 803 | 725 | 786 | 757 | 886 | 889 | 782 |
| Above Normal (12%) | 628 | 600 | 536 | 408 | 502 | 517 | 536 | 621 | 665 | 834 | 836 | 725 |
| Below Normal (24%) | 590 | 553 | 436 | 469 | 431 | 389 | 518 | 583 | 579 | 720 | 704 | 592 |
| Dry (17%) | 586 | 530 | 458 | 360 | 248 | 261 | 321 | 335 | 397 | 396 | 396 | 362 |
| Critical (15%) | 386 | 318 | 311 | 135 | 151 | 196 | 221 | 240 | 267 | 268 | 278 | 254 |

**Alt2v3 no TUCP minus NAA**

| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Monthly Energy Use (GWh) | | | | | | |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 12 | -10 | -13 | 2 | 50 | 99 | 68 | 157 | 22 | 16 | 19 | 13 |
| 20% | 4 | -8 | -2 | 100 | 109 | 9 | 28 | 25 | 0 | 12 | 8 | -24 |
| 30% | 0 | -6 | -16 | 65 | 74 | 7 | 0 | 21 | -3 | 6 | -1 | 6 |
| 40% | 2 | -3 | -6 | 9 | 54 | -4 | 5 | 20 | -5 | 5 | 3 | 6 |
| 50% | 8 | 15 | -16 | 21 | 30 | -6 | -1 | 4 | -17 | 35 | 7 | 24 |
| 60% | 53 | 6 | -24 | -4 | 32 | -20 | -14 | 14 | 3 | 2 | 44 | 20 |
| 70% | 16 | 12 | -32 | -3 | 28 | -15 | -12 | -98 | -26 | 22 | 59 | -8 |
| 80% | 20 | 21 | -61 | -3 | -4 | -7 | -23 | 10 | -31 | 12 | 57 | -20 |
| 90% | 87 | 22 | -19 | -4 | 8 | 5 | 14 | 8 | -13 | 15 | 21 | 25 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 21 | 3 | -21 | 26 | 38 | 9 | 2 | 25 | -4 | 11 | 25 | 11 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 20 | -18 | -9 | 34 | 59 | 36 | 18 | 67 | 9 | 7 | 13 | 16 |
| Above Normal (12%) | -11 | 17 | 11 | -25 | 21 | -24 | -3 | 26 | 13 | 17 | 16 | 29 |
| Below Normal (24%) | 21 | 20 | -20 | 48 | 40 | 1 | -14 | 10 | -30 | 15 | 64 | 3 |
| Dry (17%) | 50 | 6 | -34 | 33 | 36 | -2 | -2 | -11 | -14 | 2 | 9 | -2 |
| Critical (15%) | 16 | 5 | -56 | 5 | 6 | 1 | 1 | 4 | 6 | 20 | 15 | 17 |

## Table 7-6. SWP Total Energy Use, Monthly Energy Use

**NAA**

| Statistic | Monthly Energy Use (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 846 | 811 | 668 | 952 | 914 | 966 | 836 | 724 | 803 | 952 | 949 | 858 |
| 20% | 779 | 756 | 617 | 750 | 728 | 624 | 584 | 665 | 722 | 853 | 874 | 770 |
| 30% | 743 | 712 | 585 | 570 | 580 | 558 | 566 | 619 | 702 | 840 | 849 | 713 |
| 40% | 704 | 683 | 555 | 458 | 439 | 496 | 537 | 602 | 683 | 828 | 818 | 674 |
| 50% | 660 | 619 | 526 | 368 | 349 | 432 | 506 | 592 | 666 | 751 | 755 | 626 |
| 60% | 528 | 505 | 488 | 279 | 273 | 378 | 487 | 534 | 578 | 659 | 601 | 555 |
| 70% | 467 | 394 | 412 | 169 | 181 | 273 | 372 | 490 | 468 | 509 | 457 | 456 |
| 80% | 274 | 244 | 312 | 129 | 143 | 235 | 302 | 317 | 357 | 370 | 339 | 328 |
| 90% | 131 | 154 | 209 | 105 | 97 | 176 | 213 | 229 | 272 | 260 | 261 | 223 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 566 | 537 | 484 | 436 | 431 | 477 | 507 | 534 | 573 | 652 | 638 | 568 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 645 | 636 | 540 | 650 | 691 | 767 | 707 | 719 | 747 | 879 | 877 | 767 |
| Above Normal (12%) | 639 | 583 | 525 | 433 | 482 | 541 | 538 | 595 | 652 | 817 | 820 | 696 |
| Below Normal (24%) | 569 | 533 | 456 | 422 | 392 | 388 | 532 | 573 | 609 | 705 | 640 | 589 |
| Dry (17%) | 536 | 524 | 492 | 327 | 213 | 264 | 324 | 346 | 411 | 394 | 387 | 364 |
| Critical (15%) | 370 | 313 | 367 | 130 | 145 | 195 | 220 | 237 | 261 | 247 | 264 | 237 |

**Alt3**

| Statistic | Monthly Energy Use (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 585 | 534 | 538 | 388 | 351 | 372 | 447 | 565 | 635 | 520 | 555 | 551 |
| 20% | 541 | 489 | 476 | 304 | 275 | 309 | 412 | 533 | 560 | 493 | 521 | 530 |
| 30% | 506 | 427 | 384 | 253 | 231 | 266 | 382 | 495 | 526 | 459 | 486 | 493 |
| 40% | 447 | 352 | 328 | 206 | 197 | 244 | 316 | 347 | 424 | 400 | 414 | 463 |
| 50% | 266 | 291 | 214 | 159 | 169 | 195 | 245 | 249 | 290 | 279 | 244 | 403 |
| 60% | 194 | 227 | 166 | 121 | 151 | 176 | 207 | 197 | 254 | 220 | 123 | 354 |
| 70% | 117 | 186 | 121 | 96 | 111 | 167 | 174 | 160 | 182 | 178 | 90 | 272 |

| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Monthly Energy Use (GWh) | | | |
| 80% | 69 | 123 | 78 | 76 | 86 | 143 | 145 | 123 | 132 | 115 | 40 | 170 |
| 90% | 47 | 66 | 55 | 42 | 60 | 115 | 117 | 93 | 96 | 77 | 22 | 54 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 316 | 311 | 272 | 193 | 190 | 229 | 274 | 311 | 346 | 311 | 283 | 359 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 392 | 362 | 319 | 286 | 263 | 298 | 399 | 505 | 566 | 501 | 509 | 520 |
| Above Normal (12%) | 369 | 314 | 237 | 137 | 268 | 259 | 305 | 357 | 389 | 354 | 339 | 419 |
| Below Normal (24%) | 323 | 359 | 308 | 169 | 170 | 227 | 236 | 249 | 274 | 252 | 197 | 364 |
| Dry (17%) | 287 | 291 | 293 | 128 | 120 | 167 | 191 | 178 | 204 | 177 | 97 | 224 |
| Critical (15%) | 136 | 141 | 116 | 153 | 82 | 133 | 135 | 114 | 119 | 115 | 104 | 112 |

**Alt3 minus NAA**

| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Monthly Energy Use (GWh) | | | | | | |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | -261 | -277 | -130 | -565 | -563 | -594 | -389 | -159 | -168 | -432 | -394 | -307 |
| 20% | -238 | -268 | -141 | -446 | -453 | -316 | -172 | -132 | -162 | -361 | -354 | -240 |
| 30% | -237 | -284 | -201 | -317 | -350 | -292 | -184 | -124 | -175 | -382 | -363 | -220 |
| 40% | -257 | -332 | -227 | -252 | -243 | -252 | -222 | -255 | -259 | -429 | -404 | -211 |
| 50% | -394 | -328 | -312 | -209 | -180 | -237 | -261 | -344 | -376 | -472 | -511 | -223 |
| 60% | -334 | -278 | -323 | -158 | -122 | -202 | -280 | -337 | -324 | -439 | -478 | -201 |
| 70% | -350 | -208 | -290 | -73 | -70 | -107 | -199 | -330 | -286 | -330 | -367 | -185 |
| 80% | -204 | -120 | -233 | -53 | -58 | -92 | -157 | -194 | -225 | -256 | -299 | -158 |
| 90% | -84 | -88 | -153 | -63 | -37 | -62 | -96 | -136 | -176 | -183 | -239 | -169 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | -250 | -227 | -213 | -242 | -241 | -248 | -233 | -222 | -227 | -342 | -355 | -209 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | -253 | -274 | -222 | -363 | -428 | -469 | -308 | -214 | -182 | -377 | -367 | -246 |
| Above Normal (12%) | -270 | -269 | -288 | -296 | -214 | -282 | -233 | -238 | -263 | -464 | -480 | -277 |
| Below Normal (24%) | -246 | -173 | -148 | -252 | -221 | -161 | -296 | -325 | -335 | -453 | -443 | -225 |
| Dry (17%) | -250 | -233 | -199 | -198 | -92 | -96 | -133 | -169 | -207 | -217 | -291 | -140 |
| Critical (15%) | -234 | -172 | -251 | 24 | -63 | -62 | -85 | -123 | -142 | -133 | -160 | -126 |

Table 7-7. SWP Total Energy Use, Monthly Energy Use

**NAA**

| Statistic | Monthly Energy Use (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| **Probability of Exceedance** | | | | | | | | | | | | |
| 10% | 846 | 811 | 668 | 952 | 914 | 966 | 836 | 724 | 803 | 952 | 949 | 858 |
| 20% | 779 | 756 | 617 | 750 | 728 | 624 | 584 | 665 | 722 | 853 | 874 | 770 |
| 30% | 743 | 712 | 585 | 570 | 580 | 558 | 566 | 619 | 702 | 840 | 849 | 713 |
| 40% | 704 | 683 | 555 | 458 | 439 | 496 | 537 | 602 | 683 | 828 | 818 | 674 |
| 50% | 660 | 619 | 526 | 368 | 349 | 432 | 506 | 592 | 666 | 751 | 755 | 626 |
| 60% | 528 | 505 | 488 | 279 | 273 | 378 | 487 | 534 | 578 | 659 | 601 | 555 |
| 70% | 467 | 394 | 412 | 169 | 181 | 273 | 372 | 490 | 468 | 509 | 457 | 456 |
| 80% | 274 | 244 | 312 | 129 | 143 | 235 | 302 | 317 | 357 | 370 | 339 | 328 |
| 90% | 131 | 154 | 209 | 105 | 97 | 176 | 213 | 229 | 272 | 260 | 261 | 223 |
| **Long Term** | | | | | | | | | | | | |
| Full Simulation Period | 566 | 537 | 484 | 436 | 431 | 477 | 507 | 534 | 573 | 652 | 638 | 568 |
| **Water Year Types** | | | | | | | | | | | | |
| Wet (32%) | 645 | 636 | 540 | 650 | 691 | 767 | 707 | 719 | 747 | 879 | 877 | 767 |
| Above Normal (12%) | 639 | 583 | 525 | 433 | 482 | 541 | 538 | 595 | 652 | 817 | 820 | 696 |
| Below Normal (24%) | 569 | 533 | 456 | 422 | 392 | 388 | 532 | 573 | 609 | 705 | 640 | 589 |
| Dry (17%) | 536 | 524 | 492 | 327 | 213 | 264 | 324 | 346 | 411 | 394 | 387 | 364 |
| Critical (15%) | 370 | 313 | 367 | 130 | 145 | 195 | 220 | 237 | 261 | 247 | 264 | 237 |

**Alt4**

| Statistic | Monthly Energy Use (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| **Probability of Exceedance** | | | | | | | | | | | | |
| 10% | 857 | 805 | 681 | 960 | 946 | 1,052 | 965 | 800 | 829 | 951 | 953 | 874 |
| 20% | 794 | 755 | 614 | 810 | 840 | 660 | 633 | 715 | 743 | 876 | 887 | 761 |
| 30% | 744 | 706 | 586 | 582 | 587 | 563 | 605 | 650 | 705 | 842 | 861 | 736 |
| 40% | 712 | 675 | 544 | 446 | 475 | 492 | 572 | 628 | 681 | 826 | 830 | 697 |
| 50% | 676 | 649 | 516 | 382 | 368 | 432 | 534 | 616 | 662 | 808 | 793 | 659 |
| 60% | 601 | 535 | 457 | 323 | 281 | 363 | 508 | 580 | 609 | 657 | 656 | 582 |
| 70% | 478 | 430 | 403 | 221 | 216 | 280 | 404 | 482 | 497 | 524 | 491 | 474 |

| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Monthly Energy Use (GWh)** | | | | | | | | | | | | |
| 80% | 330 | 296 | 304 | 135 | 165 | 237 | 327 | 358 | 401 | 404 | 418 | 367 |
| 90% | 156 | 131 | 200 | 110 | 113 | 181 | 238 | 251 | 281 | 288 | 281 | 210 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 587 | 548 | 476 | 458 | 461 | 494 | 539 | 572 | 589 | 667 | 667 | 586 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 662 | 627 | 533 | 651 | 723 | 810 | 755 | 779 | 758 | 888 | 891 | 785 |
| Above Normal (12%) | 631 | 620 | 535 | 442 | 505 | 517 | 580 | 623 | 660 | 843 | 842 | 726 |
| Below Normal (24%) | 588 | 573 | 439 | 451 | 428 | 407 | 559 | 618 | 638 | 719 | 706 | 616 |
| Dry (17%) | 599 | 530 | 480 | 357 | 248 | 264 | 341 | 357 | 422 | 408 | 404 | 379 |
| Critical (15%) | 378 | 302 | 360 | 183 | 159 | 200 | 242 | 260 | 282 | 268 | 287 | 236 |

**Alt4 minus NAA**

| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Monthly Energy Use (GWh)** | | | | | | | | | | | | |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 11 | -6 | 13 | 8 | 33 | 86 | 129 | 75 | 26 | -1 | 4 | 16 |
| 20% | 15 | -2 | -4 | 60 | 112 | 36 | 49 | 50 | 21 | 23 | 13 | -9 |
| 30% | 1 | -5 | 1 | 11 | 6 | 5 | 39 | 31 | 4 | 2 | 11 | 23 |
| 40% | 7 | -8 | -11 | -12 | 36 | -4 | 34 | 26 | -3 | -2 | 12 | 24 |
| 50% | 16 | 30 | -10 | 14 | 19 | 0 | 28 | 24 | -4 | 58 | 38 | 33 |
| 60% | 73 | 30 | -31 | 44 | 8 | -15 | 21 | 46 | 31 | -2 | 55 | 27 |
| 70% | 11 | 36 | -9 | 52 | 35 | 7 | 31 | -8 | 29 | 15 | 34 | 17 |
| 80% | 56 | 52 | -8 | 6 | 22 | 2 | 25 | 41 | 44 | 33 | 79 | 39 |
| 90% | 26 | -24 | -8 | 5 | 16 | 5 | 25 | 22 | 9 | 28 | 20 | -13 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 21 | 11 | -9 | 22 | 30 | 16 | 33 | 38 | 16 | 15 | 30 | 18 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 17 | -9 | -7 | 1 | 32 | 43 | 48 | 60 | 11 | 10 | 15 | 19 |
| Above Normal (12%) | -8 | 38 | 10 | 9 | 23 | -24 | 41 | 28 | 8 | 26 | 22 | 30 |
| Below Normal (24%) | 20 | 41 | -17 | 30 | 36 | 20 | 27 | 45 | 29 | 14 | 66 | 27 |
| Dry (17%) | 63 | 5 | -13 | 30 | 35 | 0 | 17 | 11 | 11 | 14 | 17 | 15 |
| Critical (15%) | 8 | -11 | -8 | 53 | 14 | 5 | 22 | 24 | 21 | 21 | 23 | -2 |

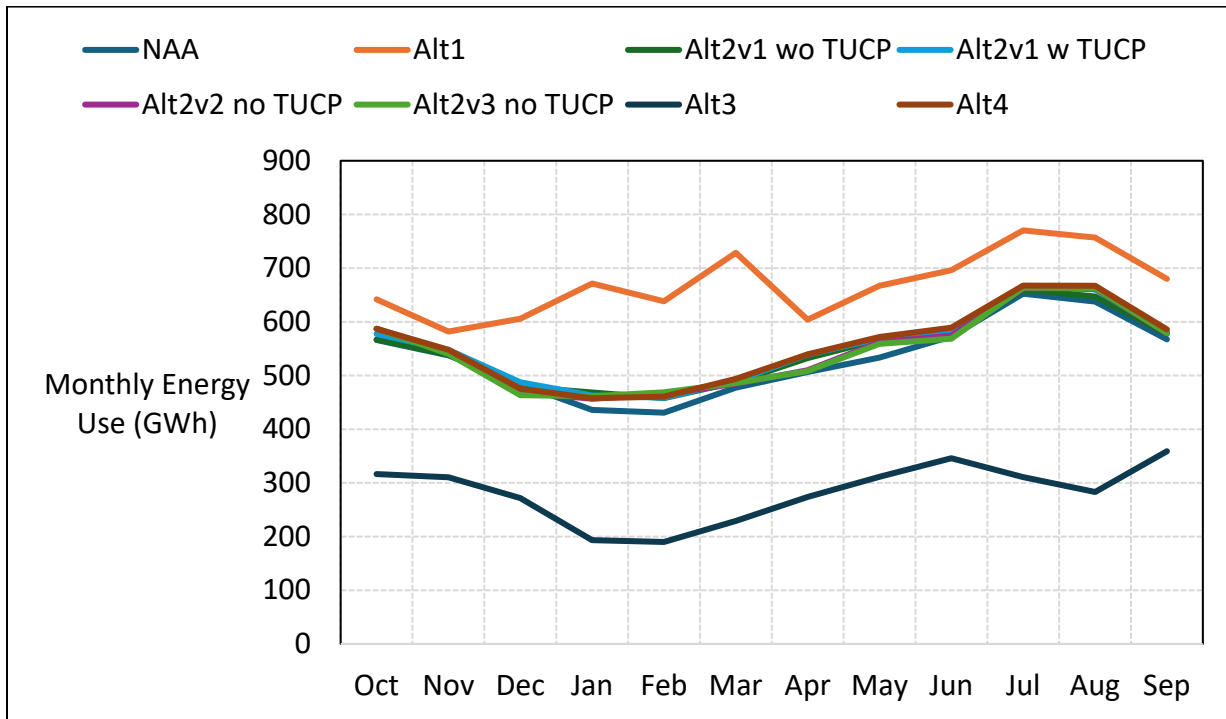Figure 7-1. SWP Total Energy Use, Long-Term Average Energy Use



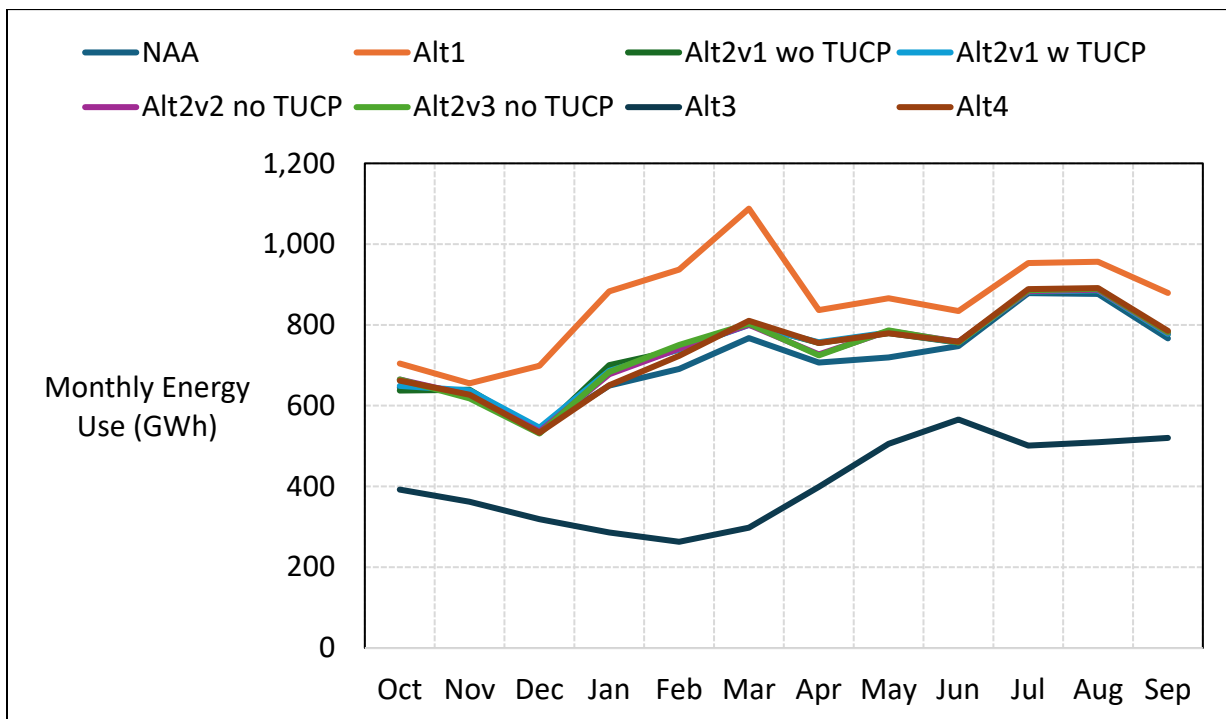Figure 7-2. SWP Total Energy Use, Wet Year Average Energy Use

Figure 7-3. SWP Total Energy Use, Above Normal Year Average Energy Use
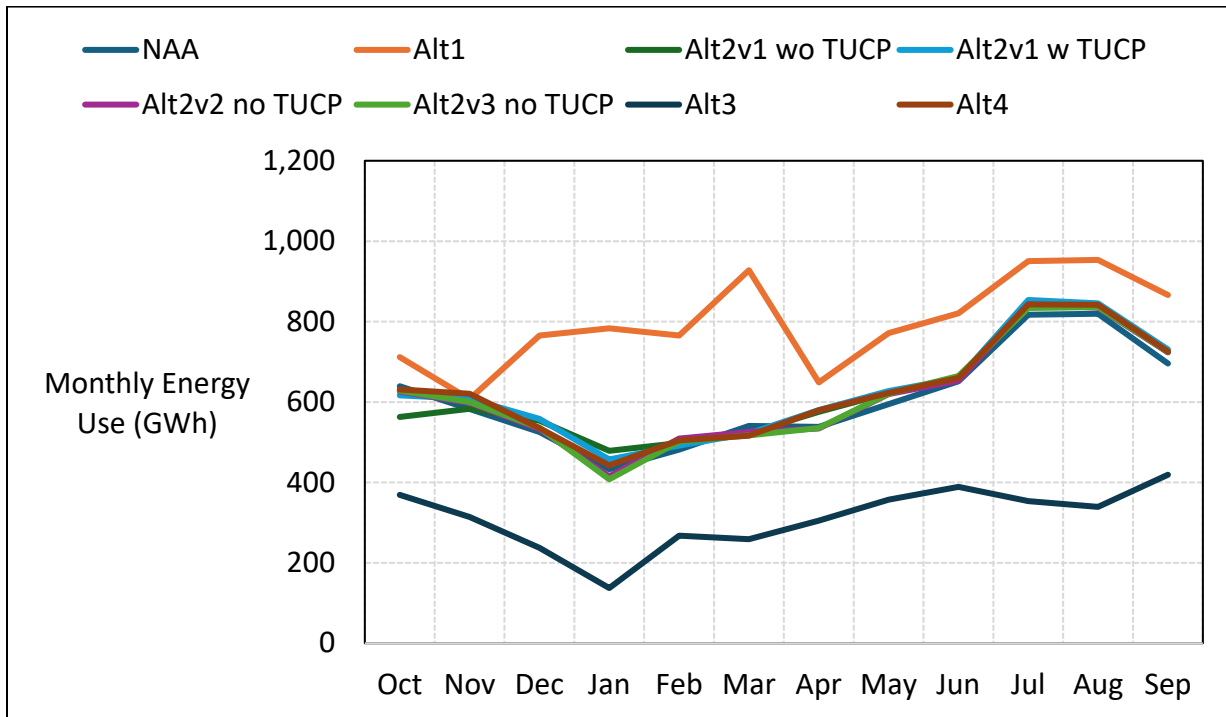


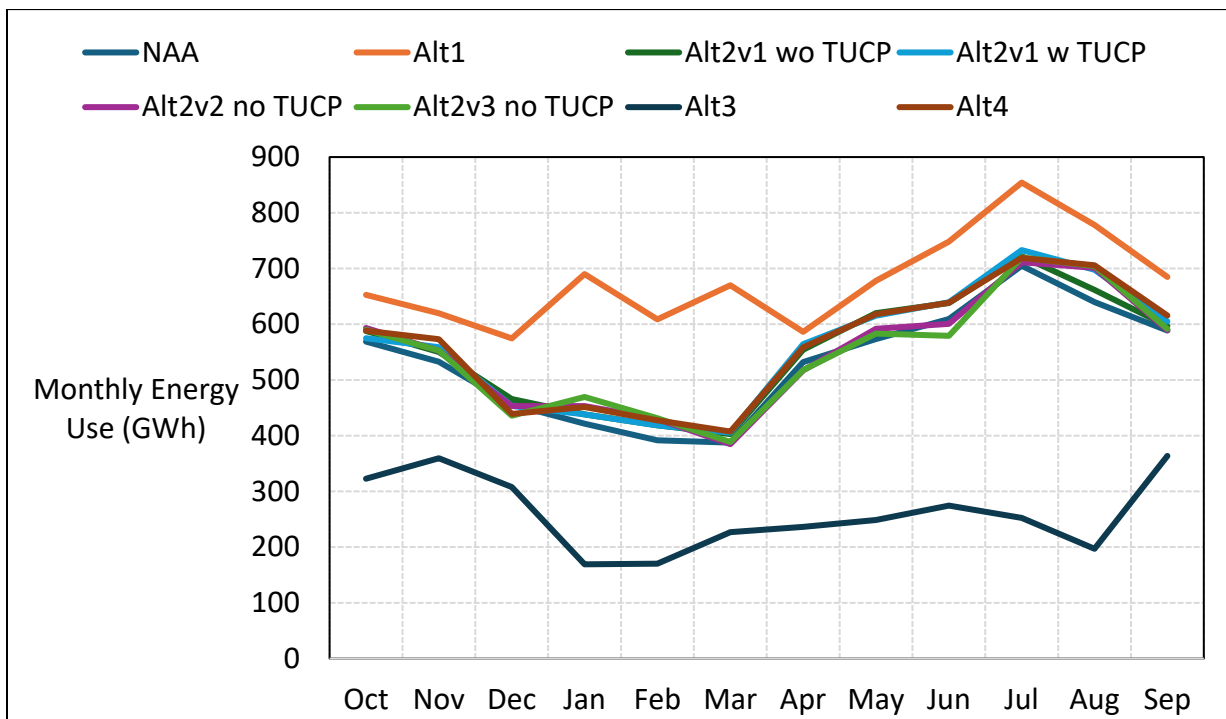Figure 7-4. SWP Total Energy Use, Below Normal Year Average Energy Use

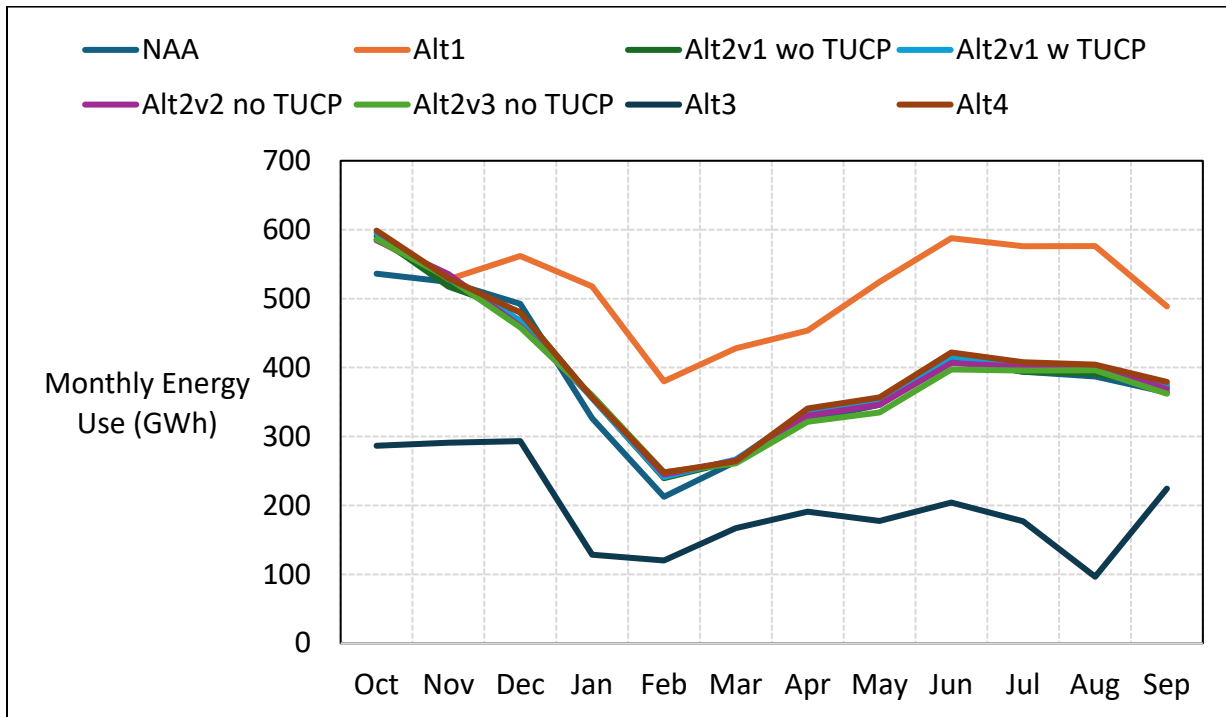Figure 7-5. SWP Total Energy Use, Dry Year Average Energy Use



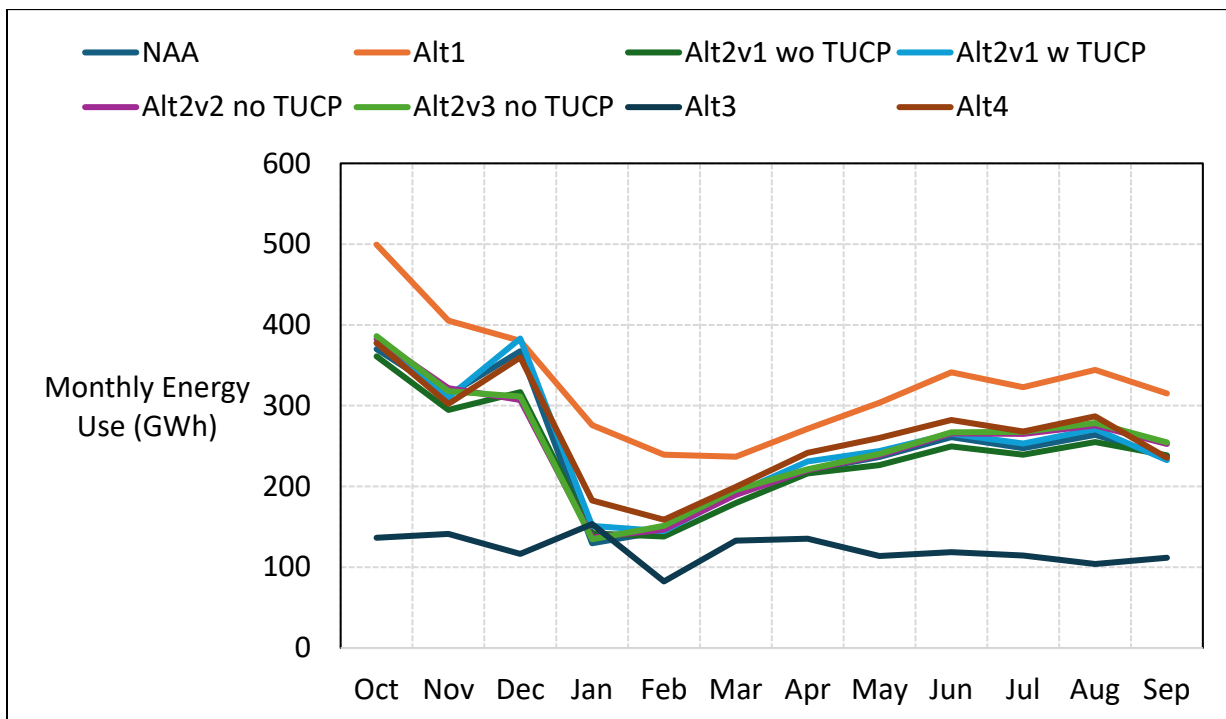Figure 7-6. SWP Total Energy Use, Critical Year Average Energy Use
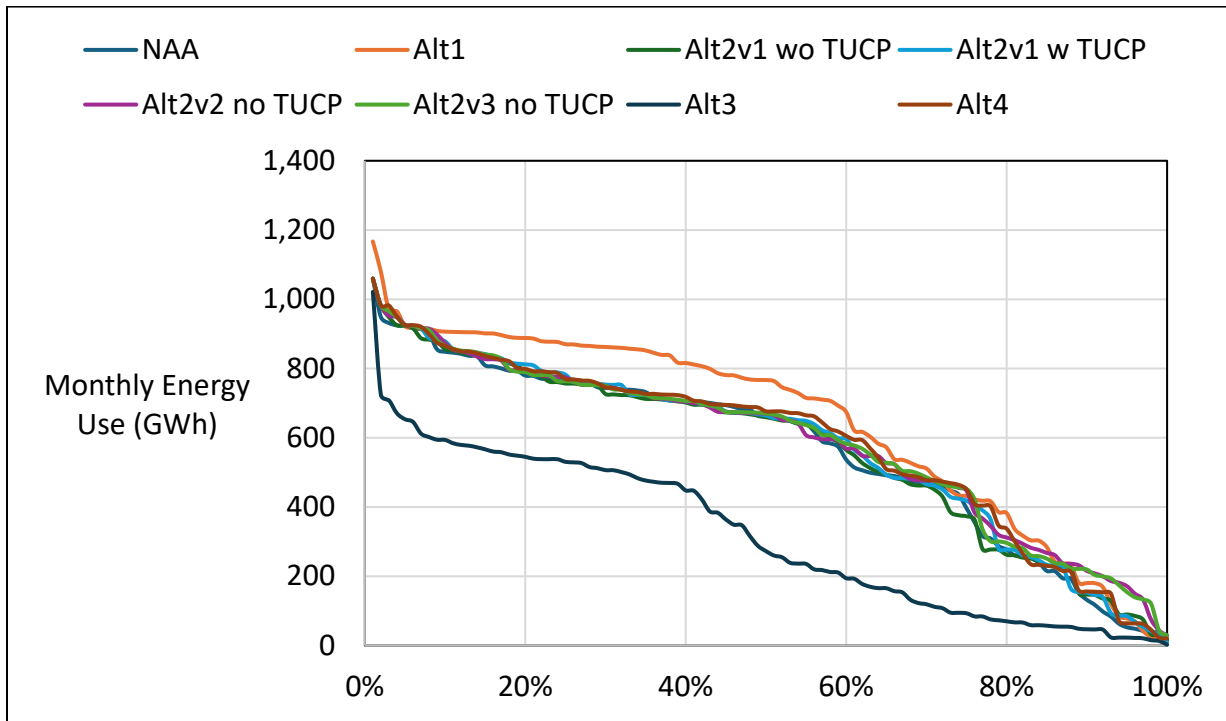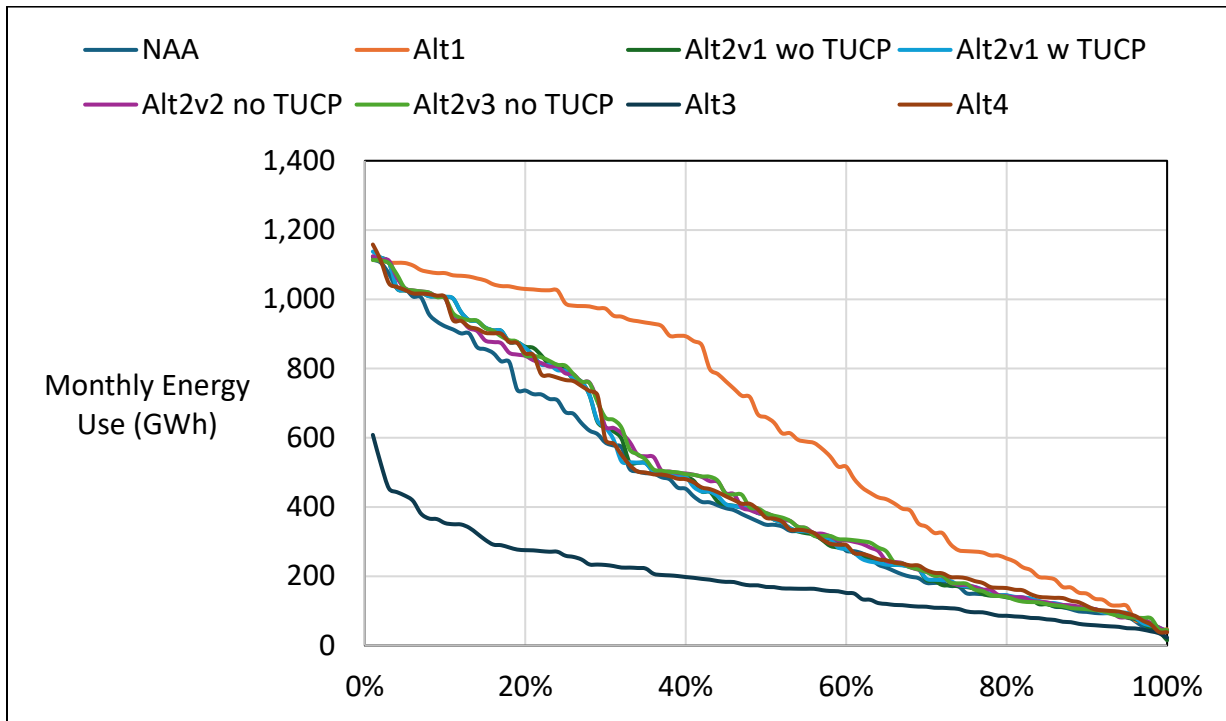
Figure 7-7. SWP Total Energy Use, October



Figure 7-8. SWP Total Energy Use, November
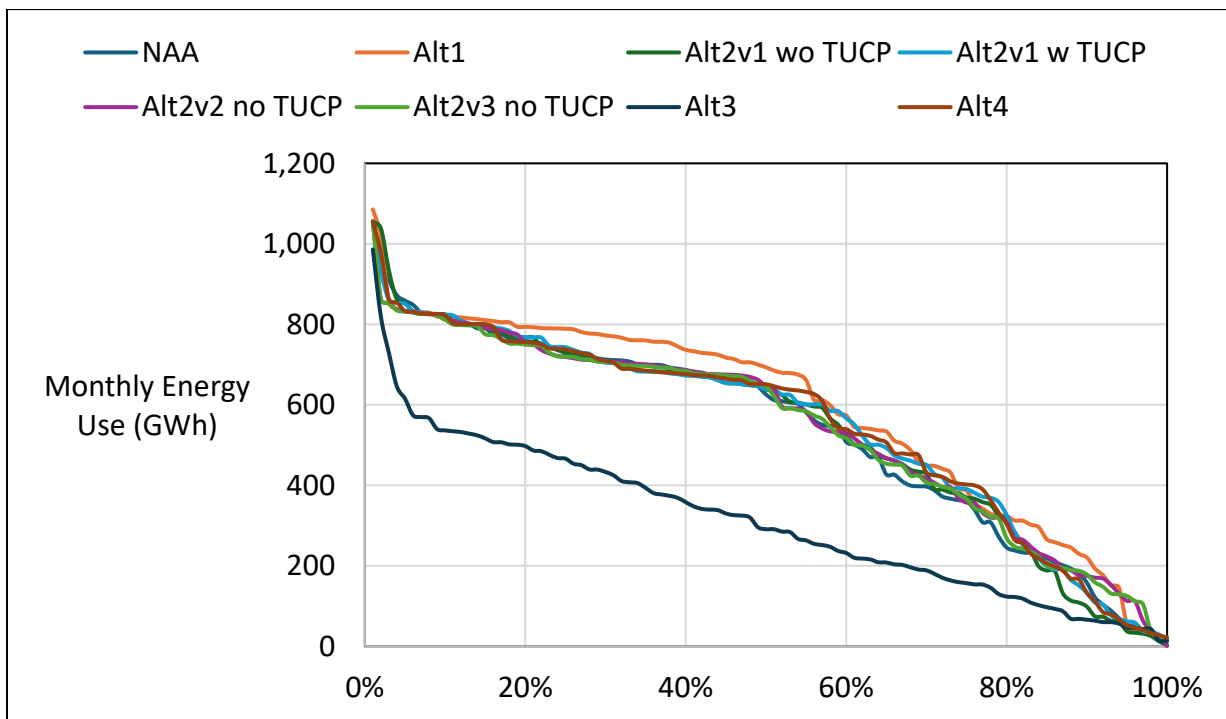
Figure 7-9. SWP Total Energy Use, December
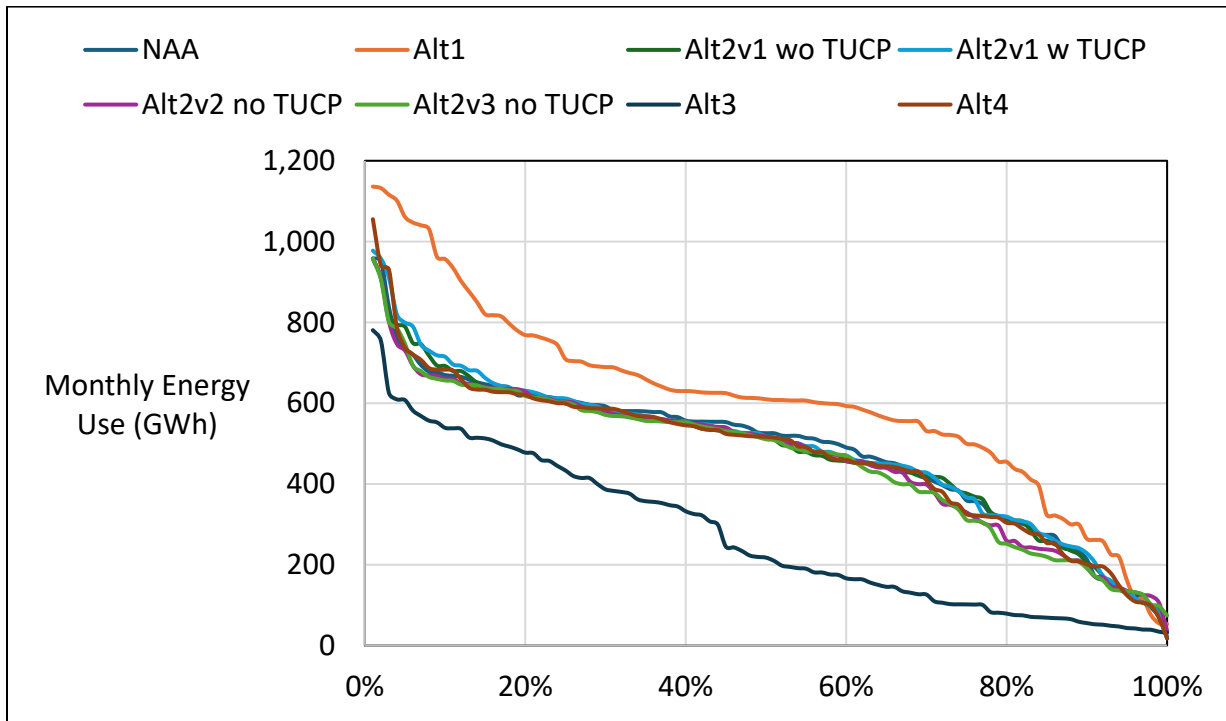


Figure 7-10. SWP Total Energy Use, January
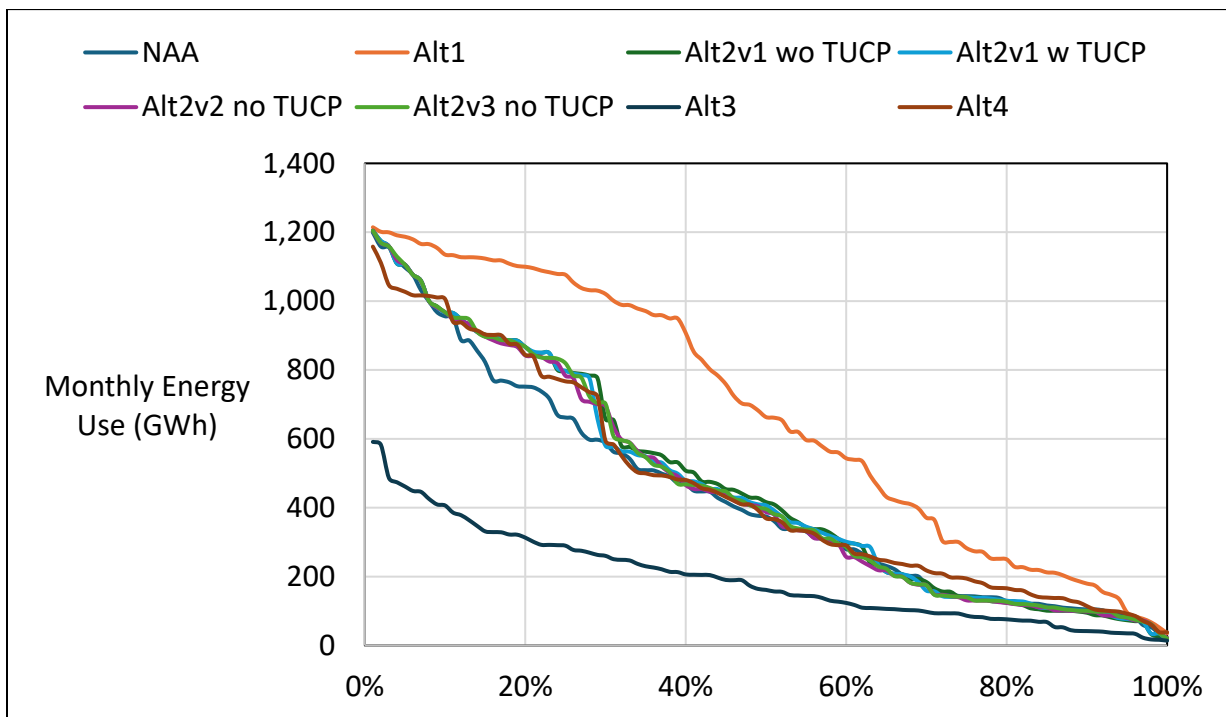
Figure 7-11. SWP Total Energy Use, February
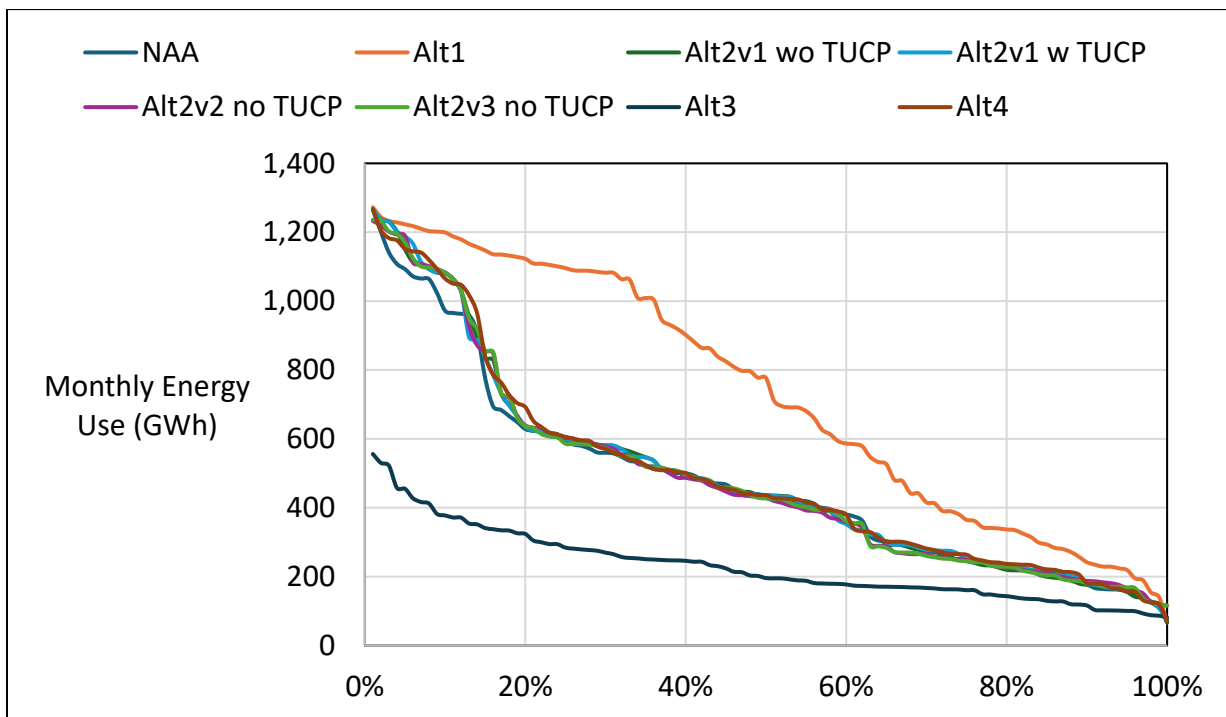


Figure 7-12. SWP Total Energy Use, March
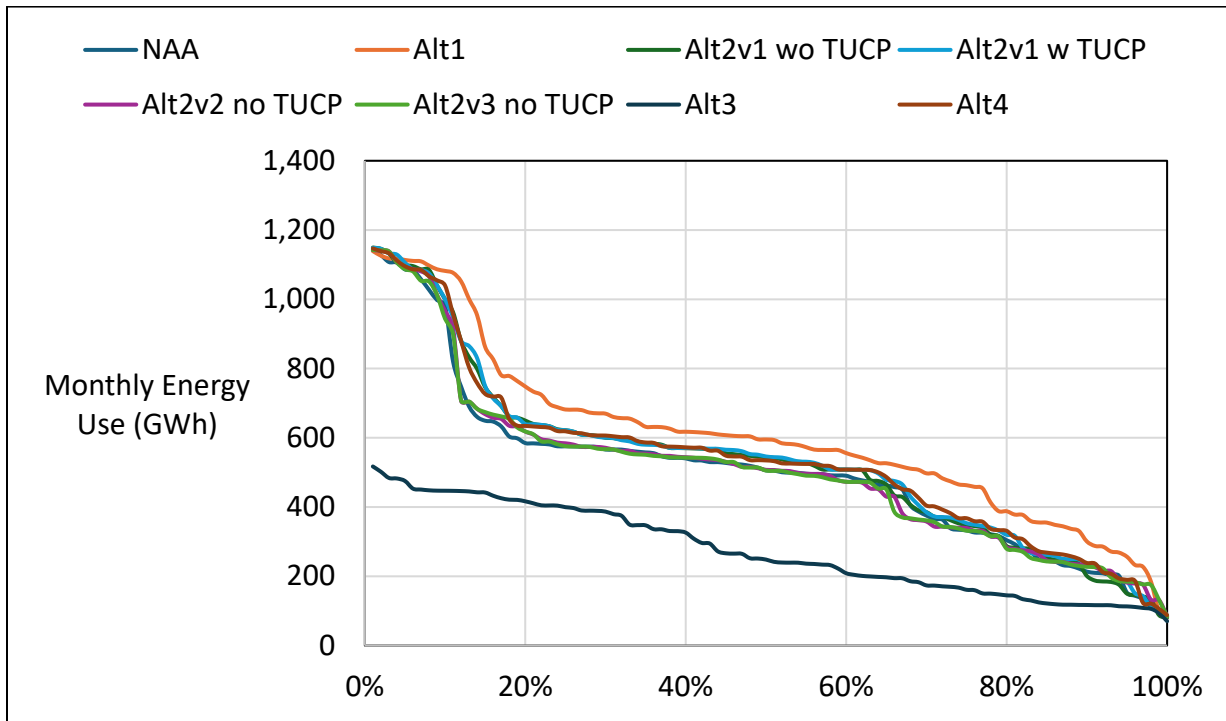
Figure 7-13. SWP Total Energy Use, April



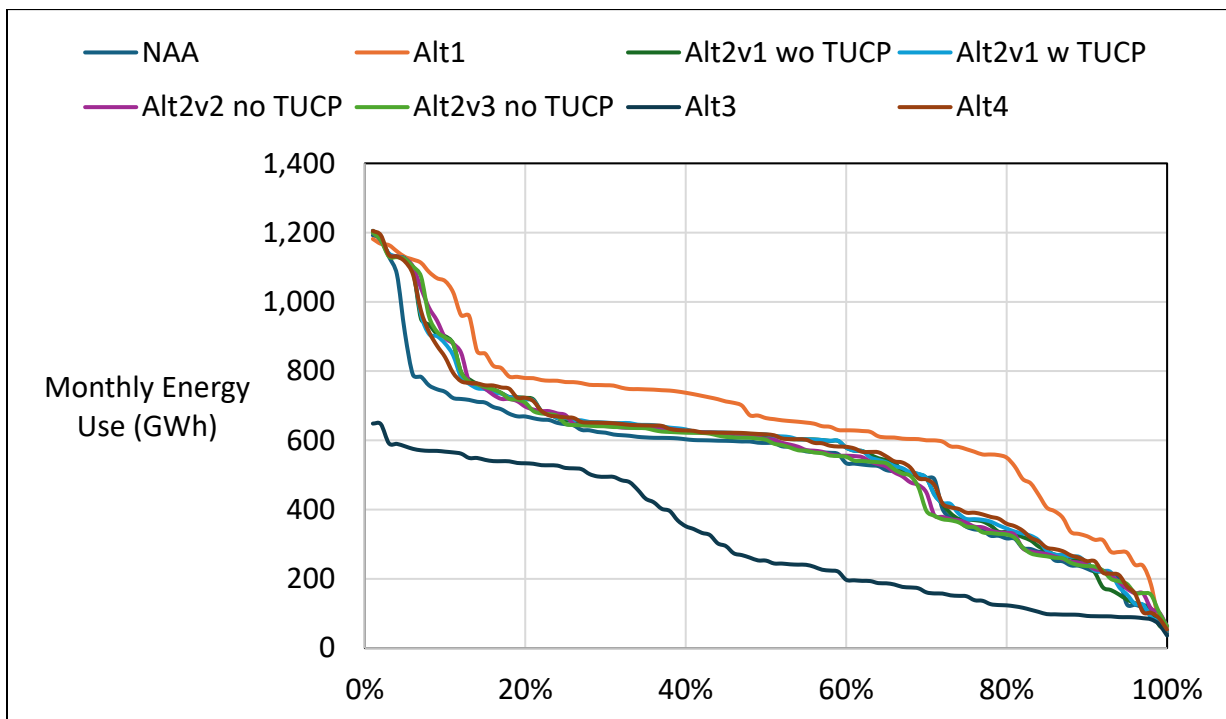Figure 7-14. SWP Total Energy Use, May

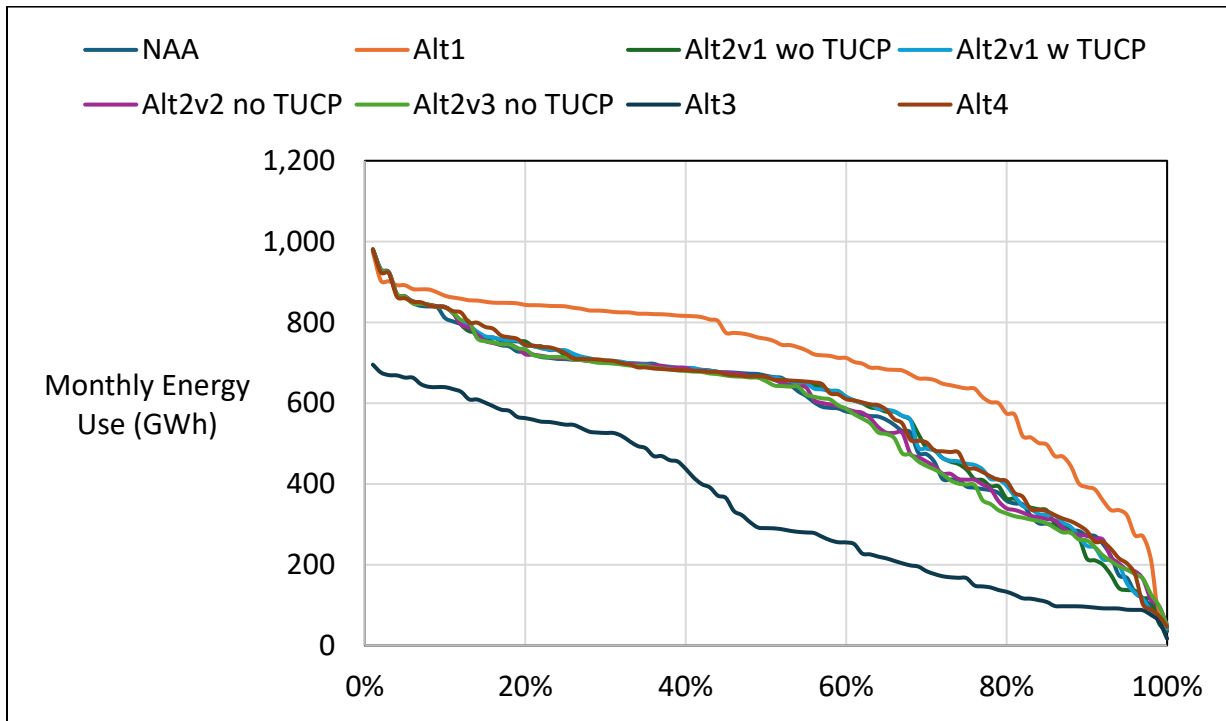Figure 7-15. SWP Total Energy Use, June



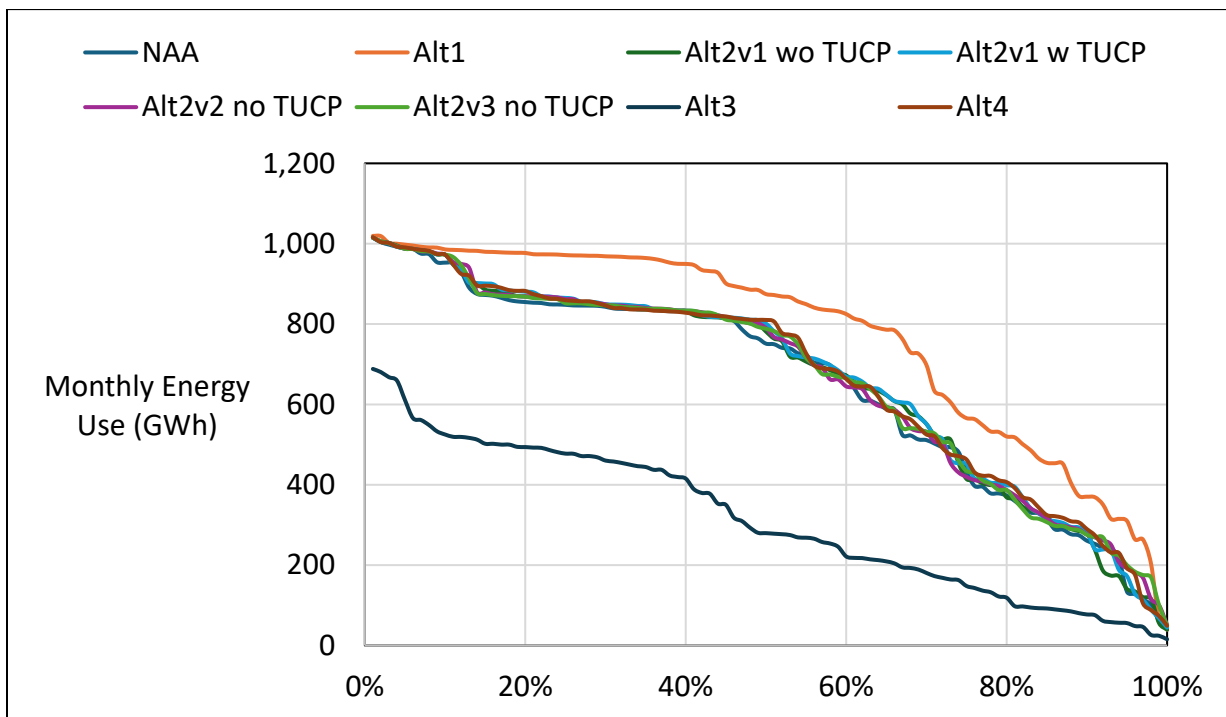Figure 7-16. SWP Total Energy Use, July
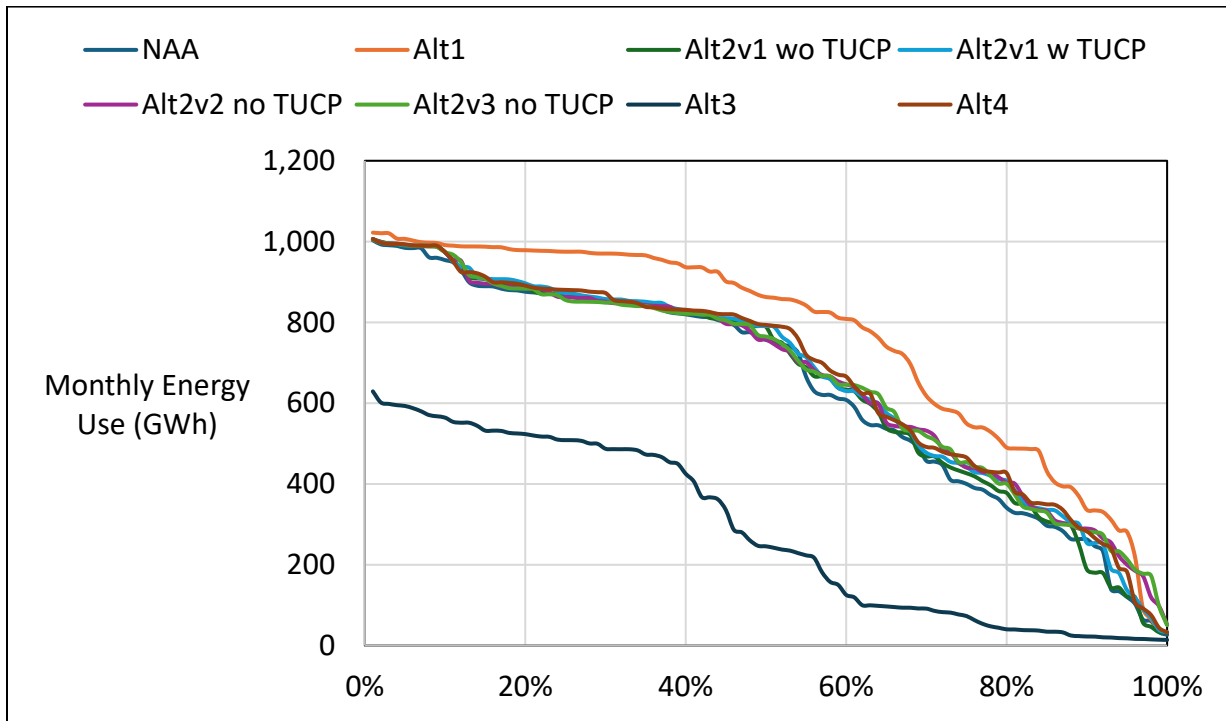
Figure 7-17. SWP Total Energy Use, August



Figure 7-18. SWP Total Energy Use, September

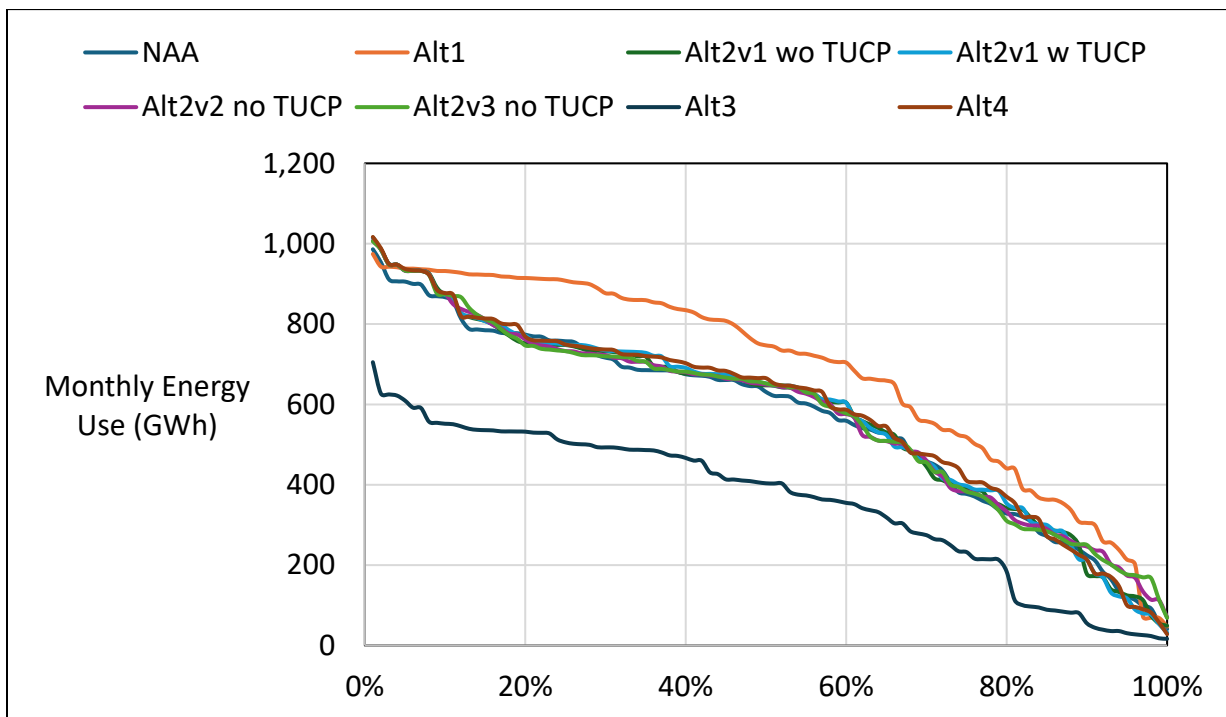## Table 8-1. SWP Net Generation, Monthly Generation

**NAA**

| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Monthly Net Generation (GWh) | | | | | | | |
| **Probability of Exceedance** | | | | | | | | | | | | |
| 10% | -22 | -52 | -46 | -22 | 5 | 78 | -67 | -27 | 44 | 13 | -19 | -121 |
| 20% | -143 | -139 | -140 | -53 | -53 | -72 | -113 | -71 | -19 | -37 | -115 | -188 |
| 30% | -239 | -210 | -199 | -84 | -83 | -104 | -151 | -98 | -86 | -72 | -172 | -236 |
| 40% | -302 | -290 | -254 | -111 | -95 | -136 | -176 | -148 | -152 | -127 | -242 | -306 |
| 50% | -346 | -361 | -293 | -170 | -129 | -157 | -202 | -191 | -198 | -170 | -272 | -330 |
| 60% | -377 | -422 | -326 | -212 | -169 | -174 | -236 | -230 | -217 | -202 | -297 | -355 |
| 70% | -391 | -456 | -342 | -241 | -223 | -215 | -276 | -259 | -248 | -214 | -311 | -384 |
| 80% | -416 | -487 | -379 | -339 | -315 | -274 | -294 | -285 | -279 | -238 | -342 | -429 |
| 90% | -494 | -510 | -419 | -465 | -425 | -339 | -357 | -368 | -341 | -283 | -372 | -472 |
| **Long Term** | | | | | | | | | | | | |
| Full Simulation Period | -301 | -320 | -261 | -198 | -161 | -157 | -211 | -194 | -166 | -152 | -240 | -309 |
| **Water Year Types** | | | | | | | | | | | | |
| Wet (32%) | -356 | -378 | -216 | -202 | -130 | -133 | -244 | -302 | -287 | -259 | -346 | -381 |
| Above Normal (12%) | -339 | -360 | -325 | -226 | -206 | -136 | -228 | -204 | -202 | -192 | -281 | -327 |
| Below Normal (24%) | -295 | -326 | -272 | -260 | -244 | -228 | -282 | -201 | -167 | -157 | -254 | -375 |
| Dry (17%) | -272 | -312 | -310 | -203 | -132 | -154 | -127 | -88 | -33 | -40 | -133 | -224 |
| Critical (15%) | -194 | -163 | -229 | -61 | -92 | -115 | -109 | -66 | -30 | -14 | -84 | -132 |

**Alt1**

| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Monthly Net Generation (GWh) | | | | | | | |
| **Probability of Exceedance** | | | | | | | | | | | | |
| 10% | -78 | -96 | -58 | -96 | -68 | -139 | -109 | -108 | -79 | -93 | -119 | -164 |
| 20% | -172 | -147 | -179 | -155 | -138 | -166 | -174 | -184 | -133 | -157 | -251 | -266 |
| 30% | -272 | -245 | -273 | -205 | -184 | -209 | -218 | -230 | -188 | -211 | -289 | -355 |
| 40% | -364 | -321 | -326 | -285 | -213 | -252 | -245 | -264 | -213 | -252 | -344 | -430 |
| 50% | -434 | -411 | -384 | -349 | -274 | -293 | -271 | -286 | -244 | -279 | -372 | -458 |
| 60% | -477 | -460 | -406 | -448 | -343 | -369 | -315 | -318 | -275 | -296 | -392 | -487 |
| 70% | -495 | -478 | -436 | -561 | -422 | -423 | -356 | -352 | -297 | -305 | -402 | -505 |

| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Monthly Net Generation (GWh) | | | | | | | | | | | |
| 80% | -521 | -509 | -473 | -671 | -532 | -534 | -371 | -392 | -330 | -315 | -414 | -529 |
| 90% | -555 | -533 | -675 | -714 | -624 | -647 | -413 | -457 | -370 | -331 | -446 | -630 |
| **Long Term** | | | | | | | | | | | | |
| Full Simulation Period | -367 | -347 | -357 | -386 | -319 | -344 | -284 | -298 | -235 | -243 | -333 | -414 |
| **Water Year Types** | | | | | | | | | | | | |
| Wet (32%) | -425 | -382 | -330 | -384 | -326 | -361 | -347 | -426 | -330 | -321 | -436 | -555 |
| Above Normal (12%) | -399 | -362 | -521 | -486 | -433 | -480 | -339 | -339 | -282 | -299 | -389 | -482 |
| Below Normal (24%) | -359 | -390 | -378 | -483 | -386 | -427 | -329 | -295 | -246 | -276 | -333 | -418 |
| Dry (17%) | -317 | -311 | -369 | -360 | -262 | -279 | -211 | -201 | -149 | -171 | -267 | -295 |
| Critical (15%) | -288 | -230 | -237 | -183 | -167 | -140 | -119 | -110 | -72 | -63 | -141 | -187 |

**Alt1 minus NAA**

| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Monthly Net Generation (GWh) | | | | | | | | | | | |
| **Probability of Exceedance** | | | | | | | | | | | | |
| 10% | -56 | -44 | -12 | -74 | -72 | -217 | -42 | -80 | -123 | -106 | -100 | -43 |
| 20% | -29 | -8 | -40 | -102 | -85 | -93 | -61 | -113 | -114 | -120 | -136 | -78 |
| 30% | -33 | -36 | -74 | -120 | -102 | -105 | -67 | -132 | -102 | -139 | -117 | -119 |
| 40% | -62 | -30 | -73 | -174 | -118 | -116 | -69 | -116 | -62 | -126 | -101 | -124 |
| 50% | -88 | -50 | -90 | -179 | -145 | -136 | -68 | -94 | -47 | -110 | -100 | -128 |
| 60% | -101 | -38 | -80 | -237 | -174 | -195 | -79 | -88 | -58 | -94 | -95 | -131 |
| 70% | -105 | -22 | -94 | -321 | -199 | -208 | -80 | -94 | -49 | -91 | -91 | -121 |
| 80% | -105 | -22 | -94 | -332 | -217 | -260 | -78 | -107 | -51 | -77 | -73 | -99 |
| 90% | -62 | -22 | -256 | -249 | -198 | -308 | -56 | -89 | -29 | -49 | -74 | -158 |
| **Long Term** | | | | | | | | | | | | |
| Full Simulation Period | -66 | -27 | -97 | -188 | -158 | -187 | -73 | -104 | -69 | -91 | -92 | -105 |
| **Water Year Types** | | | | | | | | | | | | |
| Wet (32%) | -68 | -4 | -115 | -182 | -196 | -228 | -102 | -124 | -44 | -62 | -91 | -174 |
| Above Normal (12%) | -60 | -2 | -196 | -260 | -227 | -344 | -111 | -135 | -80 | -108 | -109 | -155 |
| Below Normal (24%) | -64 | -63 | -106 | -224 | -142 | -198 | -47 | -93 | -80 | -119 | -79 | -43 |
| Dry (17%) | -45 | 1 | -59 | -157 | -130 | -124 | -83 | -113 | -116 | -131 | -134 | -72 |
| Critical (15%) | -94 | -67 | -8 | -122 | -74 | -25 | -10 | -44 | -41 | -49 | -57 | -55 |

Table 8-2. SWP Net Generation, Monthly Generation

**NAA**

| Statistic | Monthly Net Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | -22 | -52 | -46 | -22 | 5 | 78 | -67 | -27 | 44 | 13 | -19 | -121 |
| 20% | -143 | -139 | -140 | -53 | -53 | -72 | -113 | -71 | -19 | -37 | -115 | -188 |
| 30% | -239 | -210 | -199 | -84 | -83 | -104 | -151 | -98 | -86 | -72 | -172 | -236 |
| 40% | -302 | -290 | -254 | -111 | -95 | -136 | -176 | -148 | -152 | -127 | -242 | -306 |
| 50% | -346 | -361 | -293 | -170 | -129 | -157 | -202 | -191 | -198 | -170 | -272 | -330 |
| 60% | -377 | -422 | -326 | -212 | -169 | -174 | -236 | -230 | -217 | -202 | -297 | -355 |
| 70% | -391 | -456 | -342 | -241 | -223 | -215 | -276 | -259 | -248 | -214 | -311 | -384 |
| 80% | -416 | -487 | -379 | -339 | -315 | -274 | -294 | -285 | -279 | -238 | -342 | -429 |
| 90% | -494 | -510 | -419 | -465 | -425 | -339 | -357 | -368 | -341 | -283 | -372 | -472 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | -301 | -320 | -261 | -198 | -161 | -157 | -211 | -194 | -166 | -152 | -240 | -309 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | -356 | -378 | -216 | -202 | -130 | -133 | -244 | -302 | -287 | -259 | -346 | -381 |
| Above Normal (12%) | -339 | -360 | -325 | -226 | -206 | -136 | -228 | -204 | -202 | -192 | -281 | -327 |
| Below Normal (24%) | -295 | -326 | -272 | -260 | -244 | -228 | -282 | -201 | -167 | -157 | -254 | -375 |
| Dry (17%) | -272 | -312 | -310 | -203 | -132 | -154 | -127 | -88 | -33 | -40 | -133 | -224 |
| Critical (15%) | -194 | -163 | -229 | -61 | -92 | -115 | -109 | -66 | -30 | -14 | -84 | -132 |

**Alt2v1 wo TUCP**

| Statistic | Monthly Net Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | -49 | -15 | -39 | -26 | -3 | 28 | -69 | -34 | 50 | 9 | -37 | -101 |
| 20% | -132 | -168 | -142 | -61 | -59 | -72 | -108 | -101 | -48 | -57 | -130 | -187 |
| 30% | -242 | -234 | -206 | -81 | -87 | -107 | -148 | -135 | -88 | -83 | -184 | -245 |
| 40% | -294 | -305 | -259 | -121 | -118 | -137 | -188 | -204 | -166 | -153 | -243 | -309 |
| 50% | -337 | -374 | -291 | -185 | -145 | -157 | -231 | -236 | -192 | -192 | -288 | -340 |
| 60% | -362 | -415 | -324 | -234 | -186 | -175 | -272 | -265 | -214 | -212 | -295 | -355 |
| 70% | -401 | -448 | -342 | -286 | -257 | -203 | -310 | -298 | -249 | -224 | -316 | -395 |

| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Monthly Net Generation (GWh) | | | | | | | |
| 80% | -436 | -482 | -380 | -362 | -345 | -286 | -357 | -343 | -269 | -242 | -351 | -432 |
| 90% | -494 | -510 | -408 | -560 | -458 | -357 | -406 | -425 | -338 | -305 | -391 | -474 |
| **Long Term** | | | | | | | | | | | | |
| Full Simulation Period | -302 | -322 | -258 | -219 | -181 | -166 | -238 | -238 | -168 | -164 | -251 | -316 |
| **Water Year Types** | | | | | | | | | | | | |
| Wet (32%) | -349 | -382 | -209 | -238 | -166 | -157 | -293 | -372 | -285 | -265 | -356 | -388 |
| Above Normal (12%) | -281 | -361 | -352 | -247 | -226 | -156 | -285 | -247 | -195 | -223 | -298 | -339 |
| Below Normal (24%) | -307 | -342 | -286 | -271 | -260 | -235 | -310 | -262 | -185 | -171 | -269 | -382 |
| Dry (17%) | -314 | -306 | -298 | -222 | -150 | -155 | -139 | -100 | -37 | -56 | -146 | -228 |
| Critical (15%) | -194 | -151 | -194 | -68 | -81 | -94 | -81 | -64 | -17 | -10 | -81 | -136 |

**Alt2v1 wo TUCP minus NAA**

| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Monthly Net Generation (GWh) | | | | | | | |
| **Probability of Exceedance** | | | | | | | | | | | | |
| 10% | -27 | 37 | 7 | -5 | -8 | -51 | -2 | -7 | 6 | -4 | -18 | 20 |
| 20% | 11 | -29 | -2 | -8 | -5 | 0 | 5 | -31 | -30 | -20 | -14 | 0 |
| 30% | -3 | -25 | -7 | 3 | -4 | -2 | 3 | -37 | -2 | -11 | -12 | -9 |
| 40% | 8 | -14 | -5 | -11 | -23 | -1 | -12 | -56 | -14 | -26 | -1 | -3 |
| 50% | 9 | -14 | 2 | -15 | -16 | 0 | -28 | -45 | 6 | -22 | -16 | -9 |
| 60% | 15 | 7 | 2 | -23 | -17 | -1 | -36 | -35 | 4 | -10 | 2 | 0 |
| 70% | -11 | 8 | 0 | -46 | -34 | 12 | -34 | -39 | -1 | -10 | -6 | -11 |
| 80% | -19 | 4 | -1 | -23 | -30 | -12 | -63 | -58 | 10 | -4 | -9 | -3 |
| 90% | 0 | 0 | 11 | -94 | -32 | -19 | -49 | -57 | 2 | -23 | -19 | -2 |
| **Long Term** | | | | | | | | | | | | |
| Full Simulation Period | -1 | -2 | 3 | -21 | -19 | -9 | -27 | -44 | -2 | -11 | -11 | -7 |
| **Water Year Types** | | | | | | | | | | | | |
| Wet (32%) | 7 | -4 | 7 | -36 | -36 | -24 | -49 | -71 | 2 | -7 | -11 | -7 |
| Above Normal (12%) | 58 | -1 | -27 | -21 | -21 | -20 | -57 | -43 | 7 | -32 | -17 | -12 |
| Below Normal (24%) | -13 | -15 | -14 | -11 | -16 | -6 | -29 | -61 | -19 | -14 | -15 | -7 |
| Dry (17%) | -43 | 6 | 12 | -18 | -18 | -1 | -12 | -12 | -4 | -16 | -13 | -5 |
| Critical (15%) | 0 | 12 | 35 | -7 | 11 | 21 | 28 | 2 | 14 | 5 | 4 | -4 |

## Table 8-3. SWP Net Generation, Monthly Generation

**NAA**

| Statistic | Monthly Net Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| **Probability of Exceedance** | | | | | | | | | | | | |
| 10% | -22 | -52 | -46 | -22 | 5 | 78 | -67 | -27 | 44 | 13 | -19 | -121 |
| 20% | -143 | -139 | -140 | -53 | -53 | -72 | -113 | -71 | -19 | -37 | -115 | -188 |
| 30% | -239 | -210 | -199 | -84 | -83 | -104 | -151 | -98 | -86 | -72 | -172 | -236 |
| 40% | -302 | -290 | -254 | -111 | -95 | -136 | -176 | -148 | -152 | -127 | -242 | -306 |
| 50% | -346 | -361 | -293 | -170 | -129 | -157 | -202 | -191 | -198 | -170 | -272 | -330 |
| 60% | -377 | -422 | -326 | -212 | -169 | -174 | -236 | -230 | -217 | -202 | -297 | -355 |
| 70% | -391 | -456 | -342 | -241 | -223 | -215 | -276 | -259 | -248 | -214 | -311 | -384 |
| 80% | -416 | -487 | -379 | -339 | -315 | -274 | -294 | -285 | -279 | -238 | -342 | -429 |
| 90% | -494 | -510 | -419 | -465 | -425 | -339 | -357 | -368 | -341 | -283 | -372 | -472 |
| **Long Term** | | | | | | | | | | | | |
| Full Simulation Period | -301 | -320 | -261 | -198 | -161 | -157 | -211 | -194 | -166 | -152 | -240 | -309 |
| **Water Year Types** | | | | | | | | | | | | |
| Wet (32%) | -356 | -378 | -216 | -202 | -130 | -133 | -244 | -302 | -287 | -259 | -346 | -381 |
| Above Normal (12%) | -339 | -360 | -325 | -226 | -206 | -136 | -228 | -204 | -202 | -192 | -281 | -327 |
| Below Normal (24%) | -295 | -326 | -272 | -260 | -244 | -228 | -282 | -201 | -167 | -157 | -254 | -375 |
| Dry (17%) | -272 | -312 | -310 | -203 | -132 | -154 | -127 | -88 | -33 | -40 | -133 | -224 |
| Critical (15%) | -194 | -163 | -229 | -61 | -92 | -115 | -109 | -66 | -30 | -14 | -84 | -132 |

**Alt2v1 w TUCP**

| Statistic | Monthly Net Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| **Probability of Exceedance** | | | | | | | | | | | | |
| 10% | -43 | -41 | -39 | -27 | -11 | 32 | -72 | -49 | 26 | -17 | -69 | -97 |
| 20% | -135 | -172 | -147 | -60 | -61 | -79 | -123 | -97 | -54 | -59 | -144 | -200 |
| 30% | -253 | -242 | -189 | -85 | -84 | -110 | -153 | -141 | -124 | -84 | -194 | -248 |
| 40% | -304 | -327 | -259 | -117 | -120 | -138 | -195 | -204 | -161 | -127 | -251 | -313 |
| 50% | -340 | -380 | -291 | -183 | -147 | -160 | -227 | -233 | -189 | -192 | -288 | -337 |
| 60% | -363 | -416 | -333 | -235 | -187 | -188 | -276 | -255 | -214 | -213 | -295 | -357 |
| 70% | -406 | -448 | -353 | -277 | -259 | -212 | -310 | -300 | -247 | -233 | -319 | -398 |

| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Monthly Net Generation (GWh) | | | | | | | |
| 80% | -441 | -488 | -381 | -345 | -346 | -288 | -356 | -343 | -279 | -255 | -359 | -442 |
| 90% | -511 | -516 | -416 | -562 | -458 | -357 | -406 | -426 | -338 | -303 | -394 | -476 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | -308 | -329 | -263 | -213 | -181 | -167 | -244 | -239 | -171 | -167 | -257 | -317 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | -357 | -381 | -216 | -226 | -167 | -155 | -293 | -373 | -285 | -266 | -357 | -389 |
| Above Normal (12%) | -322 | -376 | -353 | -231 | -216 | -144 | -288 | -248 | -198 | -228 | -302 | -343 |
| Below Normal (24%) | -299 | -348 | -275 | -269 | -260 | -237 | -315 | -258 | -185 | -177 | -285 | -387 |
| Dry (17%) | -318 | -317 | -289 | -221 | -150 | -158 | -142 | -99 | -39 | -56 | -149 | -230 |
| Critical (15%) | -198 | -163 | -240 | -67 | -92 | -112 | -109 | -76 | -35 | -21 | -85 | -126 |

**Alt2v1 w TUCP minus NAA**

| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Monthly Net Generation (GWh) | | | | | | | |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | -21 | 11 | 7 | -5 | -16 | -46 | -4 | -21 | -18 | -31 | -50 | 24 |
| 20% | 8 | -33 | -7 | -7 | -8 | -7 | -10 | -27 | -35 | -22 | -29 | -12 |
| 30% | -14 | -33 | 10 | -1 | -1 | -6 | -1 | -43 | -39 | -12 | -22 | -12 |
| 40% | -2 | -37 | -5 | -7 | -25 | -1 | -19 | -56 | -10 | -1 | -9 | -7 |
| 50% | 6 | -19 | 2 | -14 | -17 | -3 | -25 | -41 | 8 | -22 | -16 | -6 |
| 60% | 13 | 5 | -7 | -23 | -18 | -14 | -40 | -24 | 3 | -11 | 2 | -2 |
| 70% | -15 | 8 | -11 | -36 | -36 | 3 | -34 | -42 | 1 | -19 | -8 | -14 |
| 80% | -25 | -1 | -2 | -6 | -30 | -14 | -62 | -58 | 0 | -17 | -17 | -13 |
| 90% | -17 | -6 | 3 | -97 | -32 | -19 | -49 | -57 | 2 | -20 | -22 | -4 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | -8 | -9 | -2 | -15 | -20 | -10 | -33 | -45 | -5 | -15 | -17 | -8 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 0 | -3 | 0 | -24 | -37 | -21 | -49 | -71 | 1 | -7 | -11 | -8 |
| Above Normal (12%) | 16 | -16 | -27 | -6 | -10 | -8 | -59 | -44 | 4 | -36 | -21 | -16 |
| Below Normal (24%) | -4 | -22 | -3 | -10 | -16 | -9 | -33 | -57 | -18 | -20 | -32 | -12 |
| Dry (17%) | -47 | -5 | 21 | -18 | -18 | -3 | -14 | -10 | -6 | -17 | -17 | -6 |
| Critical (15%) | -4 | 0 | -11 | -6 | 0 | 3 | 1 | -11 | -5 | -6 | -1 | 6 |

Table 8-4. SWP Net Generation, Monthly Generation

**NAA**

| Statistic | Monthly Net Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | -22 | -52 | -46 | -22 | 5 | 78 | -67 | -27 | 44 | 13 | -19 | -121 |
| 20% | -143 | -139 | -140 | -53 | -53 | -72 | -113 | -71 | -19 | -37 | -115 | -188 |
| 30% | -239 | -210 | -199 | -84 | -83 | -104 | -151 | -98 | -86 | -72 | -172 | -236 |
| 40% | -302 | -290 | -254 | -111 | -95 | -136 | -176 | -148 | -152 | -127 | -242 | -306 |
| 50% | -346 | -361 | -293 | -170 | -129 | -157 | -202 | -191 | -198 | -170 | -272 | -330 |
| 60% | -377 | -422 | -326 | -212 | -169 | -174 | -236 | -230 | -217 | -202 | -297 | -355 |
| 70% | -391 | -456 | -342 | -241 | -223 | -215 | -276 | -259 | -248 | -214 | -311 | -384 |
| 80% | -416 | -487 | -379 | -339 | -315 | -274 | -294 | -285 | -279 | -238 | -342 | -429 |
| 90% | -494 | -510 | -419 | -465 | -425 | -339 | -357 | -368 | -341 | -283 | -372 | -472 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | -301 | -320 | -261 | -198 | -161 | -157 | -211 | -194 | -166 | -152 | -240 | -309 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | -356 | -378 | -216 | -202 | -130 | -133 | -244 | -302 | -287 | -259 | -346 | -381 |
| Above Normal (12%) | -339 | -360 | -325 | -226 | -206 | -136 | -228 | -204 | -202 | -192 | -281 | -327 |
| Below Normal (24%) | -295 | -326 | -272 | -260 | -244 | -228 | -282 | -201 | -167 | -157 | -254 | -375 |
| Dry (17%) | -272 | -312 | -310 | -203 | -132 | -154 | -127 | -88 | -33 | -40 | -133 | -224 |
| Critical (15%) | -194 | -163 | -229 | -61 | -92 | -115 | -109 | -66 | -30 | -14 | -84 | -132 |

**Alt2v2 no TUCP**

| Statistic | Monthly Net Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | -97 | -71 | -88 | -31 | -17 | 60 | -70 | -34 | 22 | -3 | -82 | -128 |
| 20% | -167 | -163 | -132 | -60 | -68 | -64 | -112 | -91 | -32 | -43 | -148 | -182 |
| 30% | -265 | -232 | -176 | -80 | -90 | -120 | -143 | -122 | -88 | -90 | -193 | -243 |
| 40% | -306 | -298 | -242 | -104 | -116 | -139 | -165 | -189 | -154 | -141 | -231 | -311 |
| 50% | -338 | -371 | -290 | -174 | -156 | -159 | -200 | -225 | -198 | -195 | -289 | -335 |
| 60% | -369 | -429 | -317 | -215 | -199 | -180 | -233 | -259 | -215 | -209 | -298 | -346 |
| 70% | -390 | -447 | -336 | -282 | -247 | -210 | -280 | -292 | -236 | -225 | -321 | -383 |

| Statistic | | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Monthly Net Generation (GWh) | | | | | | |
| 80% | | -429 | -471 | -373 | -374 | -351 | -270 | -331 | -340 | -265 | -245 | -352 | -432 |
| 90% | | -483 | -513 | -420 | -569 | -453 | -333 | -394 | -435 | -335 | -308 | -390 | -465 |
| Long Term | | | | | | | | | | | | | |
| Full Simulation Period | | -318 | -327 | -252 | -213 | -188 | -163 | -216 | -235 | -165 | -166 | -260 | -315 |
| Water Year Types | | | | | | | | | | | | | |
| Wet (32%) | | -371 | -371 | -214 | -229 | -169 | -157 | -264 | -376 | -286 | -264 | -359 | -389 |
| Above Normal (12%) | | -331 | -371 | -337 | -194 | -244 | -160 | -245 | -241 | -198 | -217 | -298 | -334 |
| Below Normal (24%) | | -313 | -345 | -279 | -284 | -270 | -217 | -277 | -246 | -161 | -173 | -291 | -377 |
| Dry (17%) | | -310 | -327 | -284 | -223 | -153 | -152 | -135 | -95 | -37 | -56 | -144 | -226 |
| Critical (15%) | | -213 | -171 | -187 | -67 | -91 | -101 | -86 | -73 | -33 | -26 | -100 | -146 |

**Alt2v2 no TUCP minus NAA**

| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Monthly Net Generation (GWh) | | | | | | | | |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | -75 | -19 | -42 | -9 | -21 | -18 | -3 | -7 | -22 | -16 | -63 | -8 |
| 20% | -24 | -24 | 8 | -7 | -15 | 8 | 0 | -20 | -14 | -5 | -33 | 6 |
| 30% | -26 | -22 | 23 | 4 | -8 | -16 | 8 | -24 | -2 | -19 | -21 | -8 |
| 40% | -5 | -8 | 12 | 7 | -21 | -3 | 12 | -42 | -2 | -14 | 11 | -4 |
| 50% | 9 | -11 | 3 | -5 | -26 | -2 | 2 | -33 | 0 | -26 | -17 | -5 |
| 60% | 7 | -7 | 9 | -3 | -29 | -6 | 4 | -29 | 2 | -7 | -1 | 9 |
| 70% | 0 | 9 | 6 | -41 | -23 | 5 | -3 | -33 | 12 | -11 | -10 | 1 |
| 80% | -13 | 16 | 6 | -36 | -36 | 4 | -37 | -54 | 14 | -7 | -10 | -3 |
| 90% | 10 | -3 | -1 | -104 | -28 | 6 | -37 | -66 | 6 | -25 | -18 | 7 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | -18 | -7 | 8 | -15 | -27 | -5 | -5 | -41 | 1 | -13 | -20 | -6 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | -15 | 7 | 2 | -26 | -39 | -24 | -20 | -74 | 0 | -6 | -14 | -8 |
| Above Normal (12%) | 8 | -11 | -12 | 32 | -38 | -24 | -17 | -37 | 4 | -25 | -18 | -7 |
| Below Normal (24%) | -19 | -19 | -7 | -24 | -26 | 11 | 5 | -45 | 6 | -16 | -37 | -2 |
| Dry (17%) | -39 | -15 | 26 | -20 | -21 | 3 | -8 | -7 | -4 | -16 | -12 | -3 |
| Critical (15%) | -19 | -8 | 42 | -6 | 1 | 14 | 23 | -7 | -3 | -12 | -16 | -14 |

## Table 8-5. SWP Net Generation, Monthly Generation

**NAA**

| Statistic | Monthly Net Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | -22 | -52 | -46 | -22 | 5 | 78 | -67 | -27 | 44 | 13 | -19 | -121 |
| 20% | -143 | -139 | -140 | -53 | -53 | -72 | -113 | -71 | -19 | -37 | -115 | -188 |
| 30% | -239 | -210 | -199 | -84 | -83 | -104 | -151 | -98 | -86 | -72 | -172 | -236 |
| 40% | -302 | -290 | -254 | -111 | -95 | -136 | -176 | -148 | -152 | -127 | -242 | -306 |
| 50% | -346 | -361 | -293 | -170 | -129 | -157 | -202 | -191 | -198 | -170 | -272 | -330 |
| 60% | -377 | -422 | -326 | -212 | -169 | -174 | -236 | -230 | -217 | -202 | -297 | -355 |
| 70% | -391 | -456 | -342 | -241 | -223 | -215 | -276 | -259 | -248 | -214 | -311 | -384 |
| 80% | -416 | -487 | -379 | -339 | -315 | -274 | -294 | -285 | -279 | -238 | -342 | -429 |
| 90% | -494 | -510 | -419 | -465 | -425 | -339 | -357 | -368 | -341 | -283 | -372 | -472 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | -301 | -320 | -261 | -198 | -161 | -157 | -211 | -194 | -166 | -152 | -240 | -309 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | -356 | -378 | -216 | -202 | -130 | -133 | -244 | -302 | -287 | -259 | -346 | -381 |
| Above Normal (12%) | -339 | -360 | -325 | -226 | -206 | -136 | -228 | -204 | -202 | -192 | -281 | -327 |
| Below Normal (24%) | -295 | -326 | -272 | -260 | -244 | -228 | -282 | -201 | -167 | -157 | -254 | -375 |
| Dry (17%) | -272 | -312 | -310 | -203 | -132 | -154 | -127 | -88 | -33 | -40 | -133 | -224 |
| Critical (15%) | -194 | -163 | -229 | -61 | -92 | -115 | -109 | -66 | -30 | -14 | -84 | -132 |

**Alt2v3 no TUCP**

| Statistic | Monthly Net Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | -91 | -72 | -78 | -28 | -33 | 52 | -54 | -43 | 32 | -5 | -81 | -135 |
| 20% | -149 | -153 | -119 | -57 | -63 | -58 | -101 | -86 | -31 | -48 | -152 | -183 |
| 30% | -264 | -231 | -176 | -80 | -92 | -120 | -134 | -123 | -85 | -95 | -197 | -245 |
| 40% | -310 | -300 | -233 | -104 | -133 | -140 | -148 | -181 | -153 | -148 | -240 | -313 |
| 50% | -346 | -373 | -287 | -170 | -164 | -159 | -185 | -212 | -201 | -190 | -289 | -336 |
| 60% | -372 | -430 | -308 | -227 | -200 | -181 | -221 | -236 | -225 | -213 | -296 | -352 |
| 70% | -402 | -447 | -335 | -287 | -249 | -233 | -269 | -280 | -243 | -226 | -327 | -381 |

| Statistic | Monthly Net Generation (GWh) | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| 80% | -430 | -469 | -380 | -386 | -339 | -274 | -314 | -335 | -278 | -239 | -351 | -431 |
| 90% | -475 | -503 | -413 | -570 | -455 | -340 | -387 | -424 | -340 | -302 | -394 | -471 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | -320 | -325 | -249 | -216 | -191 | -166 | -206 | -229 | -167 | -168 | -262 | -316 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | -374 | -366 | -212 | -232 | -176 | -164 | -259 | -375 | -287 | -267 | -362 | -391 |
| Above Normal (12%) | -334 | -373 | -340 | -183 | -237 | -162 | -231 | -228 | -221 | -213 | -297 | -339 |
| Below Normal (24%) | -311 | -346 | -266 | -298 | -272 | -220 | -261 | -234 | -154 | -181 | -295 | -375 |
| Dry (17%) | -313 | -323 | -283 | -225 | -156 | -149 | -117 | -82 | -38 | -55 | -144 | -220 |
| Critical (15%) | -214 | -172 | -190 | -68 | -93 | -106 | -88 | -74 | -35 | -28 | -103 | -149 |

**Alt2v3 no TUCP minus NAA**

| Statistic | Monthly Net Generation (GWh) | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | -69 | -20 | -32 | -7 | -38 | -26 | 13 | -15 | -12 | -18 | -62 | -14 |
| 20% | -7 | -14 | 21 | -4 | -9 | 14 | 12 | -15 | -13 | -10 | -36 | 4 |
| 30% | -25 | -22 | 23 | 5 | -10 | -15 | 17 | -25 | 1 | -24 | -25 | -9 |
| 40% | -8 | -9 | 21 | 7 | -38 | -4 | 28 | -33 | -2 | -21 | 2 | -7 |
| 50% | 0 | -12 | 6 | 0 | -35 | -2 | 17 | -21 | -3 | -20 | -17 | -5 |
| 60% | 4 | -9 | 18 | -15 | -30 | -6 | 15 | -6 | -8 | -11 | 1 | 4 |
| 70% | -11 | 9 | 6 | -46 | -26 | -18 | 7 | -21 | 5 | -12 | -16 | 2 |
| 80% | -14 | 18 | -1 | -48 | -23 | 0 | -20 | -49 | 1 | -1 | -9 | -1 |
| 90% | 19 | 7 | 6 | -105 | -30 | -1 | -29 | -56 | 1 | -20 | -21 | 1 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | -19 | -5 | 12 | -18 | -29 | -9 | 5 | -34 | -1 | -16 | -22 | -7 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | -17 | 12 | 4 | -30 | -46 | -30 | -15 | -73 | 0 | -8 | -16 | -10 |
| Above Normal (12%) | 5 | -13 | -15 | 43 | -31 | -26 | -3 | -24 | -19 | -21 | -16 | -12 |
| Below Normal (24%) | -17 | -19 | 6 | -38 | -28 | 8 | 21 | -33 | 13 | -24 | -42 | 0 |
| Dry (17%) | -41 | -11 | 28 | -22 | -24 | 5 | 11 | 6 | -5 | -15 | -11 | 3 |
| Critical (15%) | -20 | -9 | 39 | -7 | -1 | 9 | 21 | -9 | -5 | -14 | -18 | -16 |

Table 8-6. SWP Net Generation, Monthly Generation

**NAA**

| Statistic | Monthly Net Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | -22 | -52 | -46 | -22 | 5 | 78 | -67 | -27 | 44 | 13 | -19 | -121 |
| 20% | -143 | -139 | -140 | -53 | -53 | -72 | -113 | -71 | -19 | -37 | -115 | -188 |
| 30% | -239 | -210 | -199 | -84 | -83 | -104 | -151 | -98 | -86 | -72 | -172 | -236 |
| 40% | -302 | -290 | -254 | -111 | -95 | -136 | -176 | -148 | -152 | -127 | -242 | -306 |
| 50% | -346 | -361 | -293 | -170 | -129 | -157 | -202 | -191 | -198 | -170 | -272 | -330 |
| 60% | -377 | -422 | -326 | -212 | -169 | -174 | -236 | -230 | -217 | -202 | -297 | -355 |
| 70% | -391 | -456 | -342 | -241 | -223 | -215 | -276 | -259 | -248 | -214 | -311 | -384 |
| 80% | -416 | -487 | -379 | -339 | -315 | -274 | -294 | -285 | -279 | -238 | -342 | -429 |
| 90% | -494 | -510 | -419 | -465 | -425 | -339 | -357 | -368 | -341 | -283 | -372 | -472 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | -301 | -320 | -261 | -198 | -161 | -157 | -211 | -194 | -166 | -152 | -240 | -309 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | -356 | -378 | -216 | -202 | -130 | -133 | -244 | -302 | -287 | -259 | -346 | -381 |
| Above Normal (12%) | -339 | -360 | -325 | -226 | -206 | -136 | -228 | -204 | -202 | -192 | -281 | -327 |
| Below Normal (24%) | -295 | -326 | -272 | -260 | -244 | -228 | -282 | -201 | -167 | -157 | -254 | -375 |
| Dry (17%) | -272 | -312 | -310 | -203 | -132 | -154 | -127 | -88 | -33 | -40 | -133 | -224 |
| Critical (15%) | -194 | -163 | -229 | -61 | -92 | -115 | -109 | -66 | -30 | -14 | -84 | -132 |

**Alt3**

| Statistic | Monthly Net Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 47 | 26 | 184 | 315 | 318 | 336 | 154 | 129 | 150 | 151 | 167 | -3 |
| 20% | 5 | 1 | 93 | 186 | 231 | 235 | 79 | 100 | 97 | 99 | 135 | -37 |
| 30% | -15 | -25 | 53 | 89 | 97 | 134 | 43 | 61 | 59 | 63 | 88 | -138 |
| 40% | -38 | -89 | 14 | 47 | 37 | 66 | 17 | 37 | 23 | 36 | 44 | -172 |
| 50% | -135 | -126 | -7 | 27 | 14 | 21 | 3 | 23 | -3 | 0 | -11 | -200 |
| 60% | -196 | -173 | -53 | -20 | -26 | -1 | -17 | 3 | -121 | -56 | -107 | -229 |
| 70% | -224 | -211 | -109 | -41 | -45 | -28 | -47 | -15 | -187 | -110 | -190 | -251 |

| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Monthly Net Generation (GWh) | | | | | | | |
| 80% | -250 | -248 | -164 | -79 | -65 | -62 | -67 | -61 | -221 | -132 | -216 | -269 |
| 90% | -281 | -321 | -254 | -148 | -105 | -111 | -111 | -140 | -282 | -150 | -237 | -297 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | -120 | -137 | -23 | 38 | 56 | 78 | 14 | 15 | -59 | -12 | -40 | -179 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | -167 | -144 | 91 | 155 | 221 | 241 | 60 | -18 | -239 | -131 | -212 | -263 |
| Above Normal (12%) | -148 | -145 | -33 | 85 | 12 | 129 | 11 | 34 | -100 | -52 | -79 | -180 |
| Below Normal (24%) | -119 | -190 | -106 | -28 | -24 | -13 | -6 | 29 | 10 | 28 | 39 | -203 |
| Dry (17%) | -94 | -129 | -121 | -31 | -34 | -32 | -8 | 51 | 99 | 100 | 122 | -106 |
| Critical (15%) | -29 | -39 | -13 | -67 | -29 | -38 | -25 | 9 | 71 | 83 | 49 | -45 |

**Alt3 minus NAA**

| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Monthly Net Generation (GWh) | | | | | | | |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 69 | 79 | 230 | 337 | 313 | 257 | 221 | 156 | 106 | 137 | 186 | 118 |
| 20% | 148 | 140 | 233 | 239 | 285 | 307 | 192 | 171 | 115 | 136 | 250 | 150 |
| 30% | 224 | 185 | 252 | 173 | 179 | 238 | 194 | 159 | 144 | 135 | 261 | 98 |
| 40% | 263 | 202 | 268 | 158 | 132 | 202 | 194 | 184 | 174 | 163 | 287 | 134 |
| 50% | 211 | 234 | 287 | 197 | 143 | 178 | 205 | 214 | 194 | 170 | 261 | 130 |
| 60% | 180 | 248 | 273 | 192 | 143 | 173 | 219 | 234 | 96 | 146 | 190 | 126 |
| 70% | 166 | 245 | 232 | 200 | 178 | 187 | 229 | 244 | 61 | 104 | 121 | 133 |
| 80% | 166 | 239 | 215 | 260 | 250 | 212 | 226 | 224 | 58 | 106 | 126 | 160 |
| 90% | 212 | 189 | 164 | 317 | 320 | 227 | 246 | 229 | 59 | 133 | 136 | 175 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 180 | 183 | 238 | 235 | 217 | 235 | 225 | 209 | 107 | 140 | 201 | 130 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 189 | 234 | 307 | 357 | 351 | 374 | 304 | 284 | 47 | 127 | 134 | 118 |
| Above Normal (12%) | 190 | 215 | 292 | 310 | 218 | 265 | 240 | 238 | 102 | 140 | 202 | 147 |
| Below Normal (24%) | 175 | 137 | 166 | 232 | 219 | 215 | 275 | 230 | 177 | 185 | 293 | 172 |
| Dry (17%) | 178 | 183 | 189 | 172 | 98 | 122 | 120 | 140 | 132 | 139 | 255 | 117 |
| Critical (15%) | 165 | 124 | 216 | -6 | 64 | 77 | 84 | 74 | 101 | 97 | 133 | 87 |

Table 8-7. SWP Net Generation, Monthly Generation

**NAA**

| Statistic | Monthly Net Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | -22 | -52 | -46 | -22 | 5 | 78 | -67 | -27 | 44 | 13 | -19 | -121 |
| 20% | -143 | -139 | -140 | -53 | -53 | -72 | -113 | -71 | -19 | -37 | -115 | -188 |
| 30% | -239 | -210 | -199 | -84 | -83 | -104 | -151 | -98 | -86 | -72 | -172 | -236 |
| 40% | -302 | -290 | -254 | -111 | -95 | -136 | -176 | -148 | -152 | -127 | -242 | -306 |
| 50% | -346 | -361 | -293 | -170 | -129 | -157 | -202 | -191 | -198 | -170 | -272 | -330 |
| 60% | -377 | -422 | -326 | -212 | -169 | -174 | -236 | -230 | -217 | -202 | -297 | -355 |
| 70% | -391 | -456 | -342 | -241 | -223 | -215 | -276 | -259 | -248 | -214 | -311 | -384 |
| 80% | -416 | -487 | -379 | -339 | -315 | -274 | -294 | -285 | -279 | -238 | -342 | -429 |
| 90% | -494 | -510 | -419 | -465 | -425 | -339 | -357 | -368 | -341 | -283 | -372 | -472 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | -301 | -320 | -261 | -198 | -161 | -157 | -211 | -194 | -166 | -152 | -240 | -309 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | -356 | -378 | -216 | -202 | -130 | -133 | -244 | -302 | -287 | -259 | -346 | -381 |
| Above Normal (12%) | -339 | -360 | -325 | -226 | -206 | -136 | -228 | -204 | -202 | -192 | -281 | -327 |
| Below Normal (24%) | -295 | -326 | -272 | -260 | -244 | -228 | -282 | -201 | -167 | -157 | -254 | -375 |
| Dry (17%) | -272 | -312 | -310 | -203 | -132 | -154 | -127 | -88 | -33 | -40 | -133 | -224 |
| Critical (15%) | -194 | -163 | -229 | -61 | -92 | -115 | -109 | -66 | -30 | -14 | -84 | -132 |

**Alt4**

| Statistic | Monthly Net Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | -40 | -34 | -26 | -47 | -1 | 43 | -86 | -49 | 7 | -11 | -86 | -92 |
| 20% | -168 | -141 | -118 | -70 | -65 | -78 | -129 | -103 | -64 | -55 | -156 | -191 |
| 30% | -271 | -255 | -175 | -98 | -100 | -113 | -160 | -137 | -119 | -98 | -211 | -278 |
| 40% | -321 | -322 | -249 | -133 | -130 | -145 | -206 | -205 | -160 | -126 | -260 | -317 |
| 50% | -349 | -373 | -280 | -194 | -148 | -165 | -223 | -238 | -193 | -187 | -287 | -334 |
| 60% | -368 | -421 | -328 | -225 | -184 | -185 | -275 | -257 | -216 | -211 | -296 | -358 |
| 70% | -415 | -449 | -358 | -263 | -262 | -224 | -310 | -299 | -248 | -224 | -318 | -390 |

| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Monthly Net Generation (GWh) | | | | | | | |
| 80% | -439 | -485 | -373 | -360 | -351 | -293 | -353 | -341 | -275 | -252 | -355 | -452 |
| 90% | -506 | -507 | -402 | -517 | -458 | -356 | -418 | -436 | -340 | -304 | -397 | -477 |
| **Long Term** | | | | | | | | | | | | |
| Full Simulation Period | -315 | -328 | -251 | -212 | -186 | -171 | -245 | -241 | -174 | -167 | -262 | -321 |
| **Water Year Types** | | | | | | | | | | | | |
| Wet (32%) | -367 | -371 | -205 | -200 | -156 | -165 | -293 | -371 | -285 | -270 | -362 | -392 |
| Above Normal (12%) | -330 | -385 | -333 | -219 | -230 | -138 | -287 | -246 | -202 | -216 | -300 | -339 |
| Below Normal (24%) | -307 | -358 | -260 | -282 | -272 | -239 | -311 | -262 | -183 | -168 | -291 | -399 |
| Dry (17%) | -320 | -315 | -297 | -227 | -160 | -155 | -144 | -100 | -44 | -60 | -154 | -233 |
| Critical (15%) | -200 | -157 | -216 | -102 | -104 | -120 | -117 | -82 | -48 | -29 | -93 | -126 |

**Alt4 minus NAA**

| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Monthly Net Generation (GWh) | | | | | | | |
| **Probability of Exceedance** | | | | | | | | | | | | |
| 10% | -18 | 18 | 20 | -26 | -6 | -35 | -19 | -22 | -37 | -25 | -68 | 29 |
| 20% | -25 | -2 | 22 | -16 | -11 | -5 | -16 | -32 | -45 | -18 | -41 | -3 |
| 30% | -32 | -45 | 25 | -14 | -18 | -9 | -9 | -39 | -33 | -27 | -39 | -43 |
| 40% | -19 | -31 | 5 | -23 | -35 | -9 | -29 | -57 | -9 | 1 | -18 | -11 |
| 50% | -3 | -13 | 13 | -24 | -19 | -8 | -20 | -47 | 5 | -17 | -15 | -4 |
| 60% | 8 | 1 | -2 | -13 | -14 | -11 | -38 | -27 | 1 | -9 | 1 | -3 |
| 70% | -25 | 7 | -16 | -22 | -38 | -9 | -34 | -40 | 0 | -9 | -7 | -7 |
| 80% | -23 | 2 | 5 | -21 | -35 | -19 | -59 | -56 | 4 | -14 | -14 | -23 |
| 90% | -13 | 3 | 17 | -51 | -33 | -18 | -61 | -67 | 1 | -21 | -25 | -5 |
| **Long Term** | | | | | | | | | | | | |
| Full Simulation Period | -14 | -8 | 10 | -14 | -24 | -14 | -34 | -46 | -8 | -15 | -21 | -12 |
| **Water Year Types** | | | | | | | | | | | | |
| Wet (32%) | -10 | 7 | 11 | 2 | -26 | -32 | -49 | -70 | 2 | -11 | -17 | -12 |
| Above Normal (12%) | 9 | -25 | -8 | 7 | -25 | -2 | -59 | -42 | 0 | -25 | -19 | -12 |
| Below Normal (24%) | -12 | -32 | 12 | -22 | -28 | -10 | -29 | -60 | -16 | -11 | -37 | -24 |
| Dry (17%) | -48 | -3 | 13 | -23 | -28 | 0 | -17 | -12 | -10 | -20 | -21 | -9 |
| Critical (15%) | -7 | 6 | 13 | -41 | -11 | -5 | -7 | -17 | -18 | -15 | -9 | 6 |

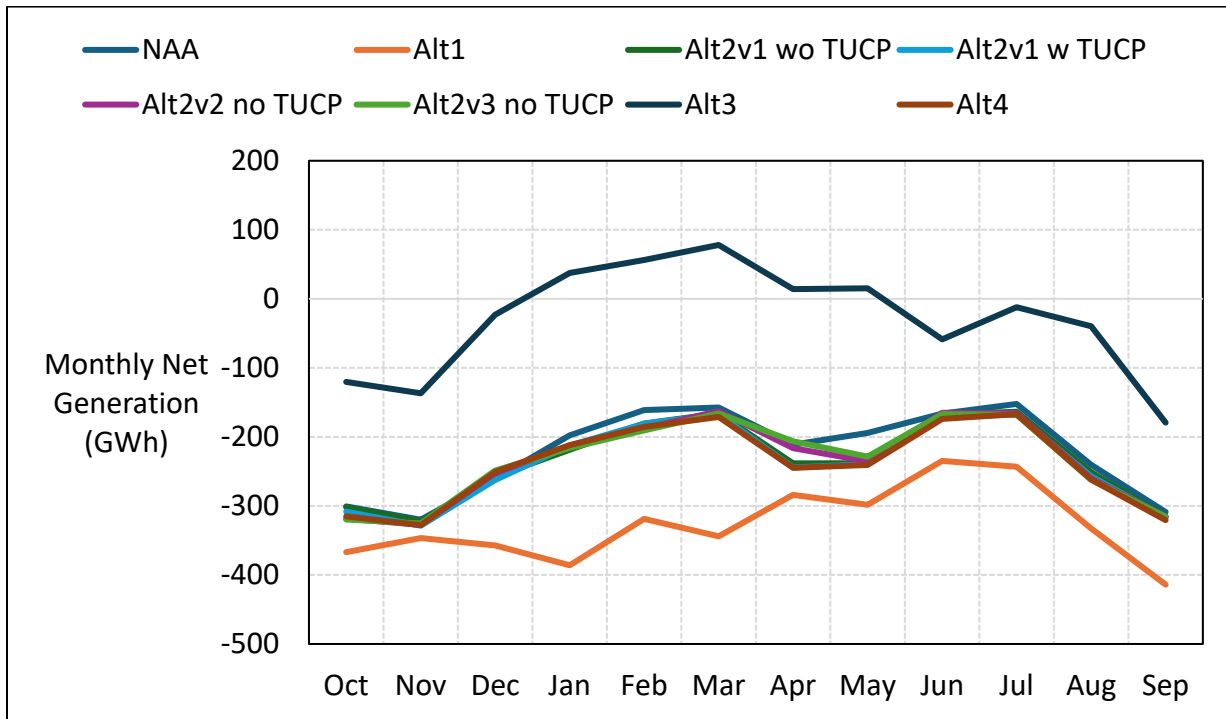Figure 8-1. SWP Net Generation, Long-Term Average Generation



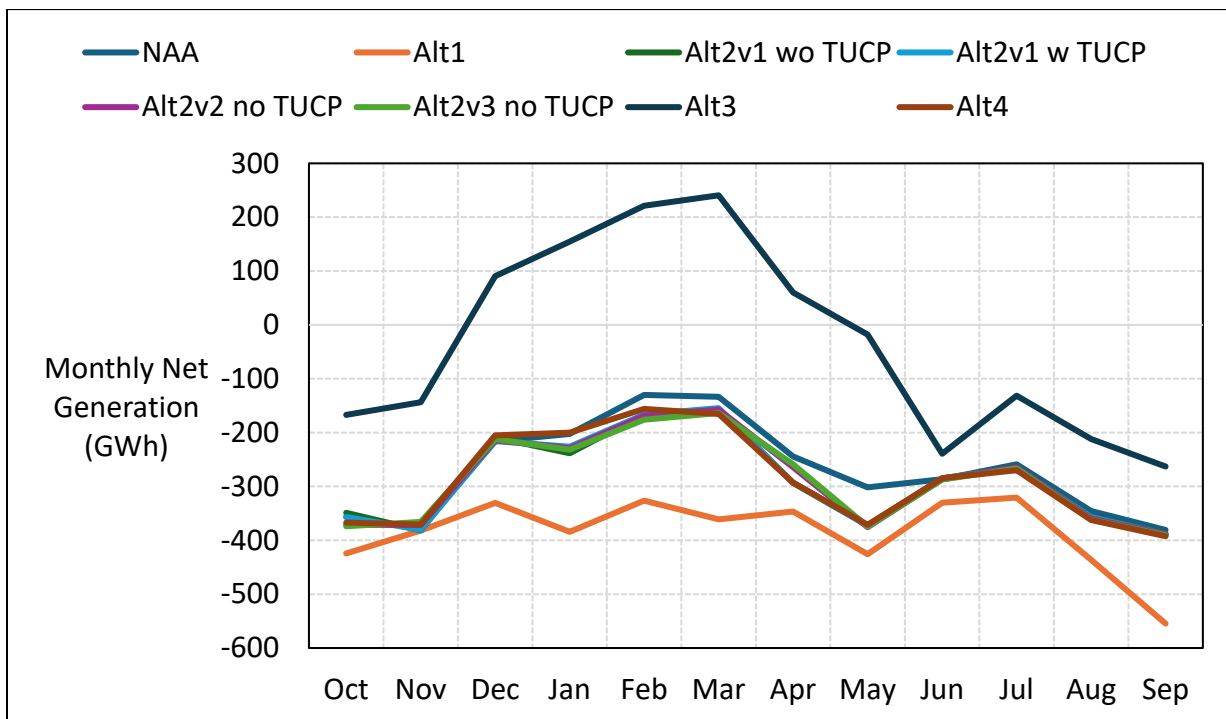Figure 8-2. SWP Net Generation, Wet Year Average Generation

Figure 8-3. SWP Net Generation, Above Normal Year Average Generation
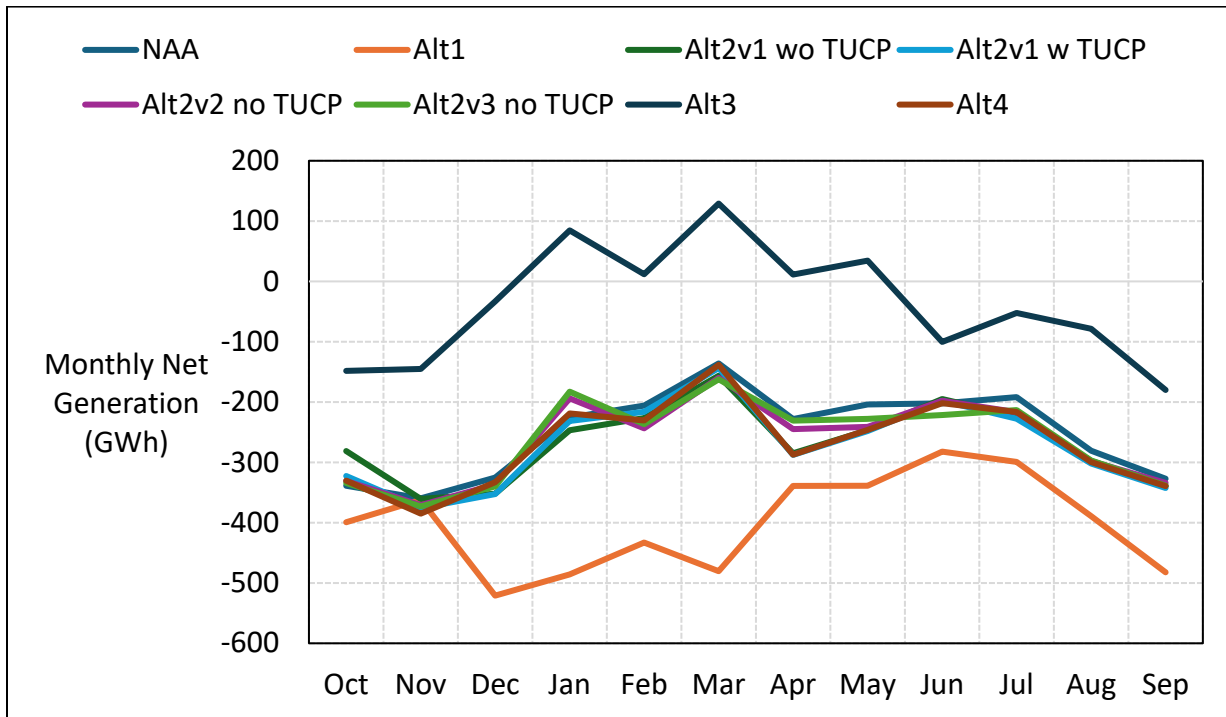


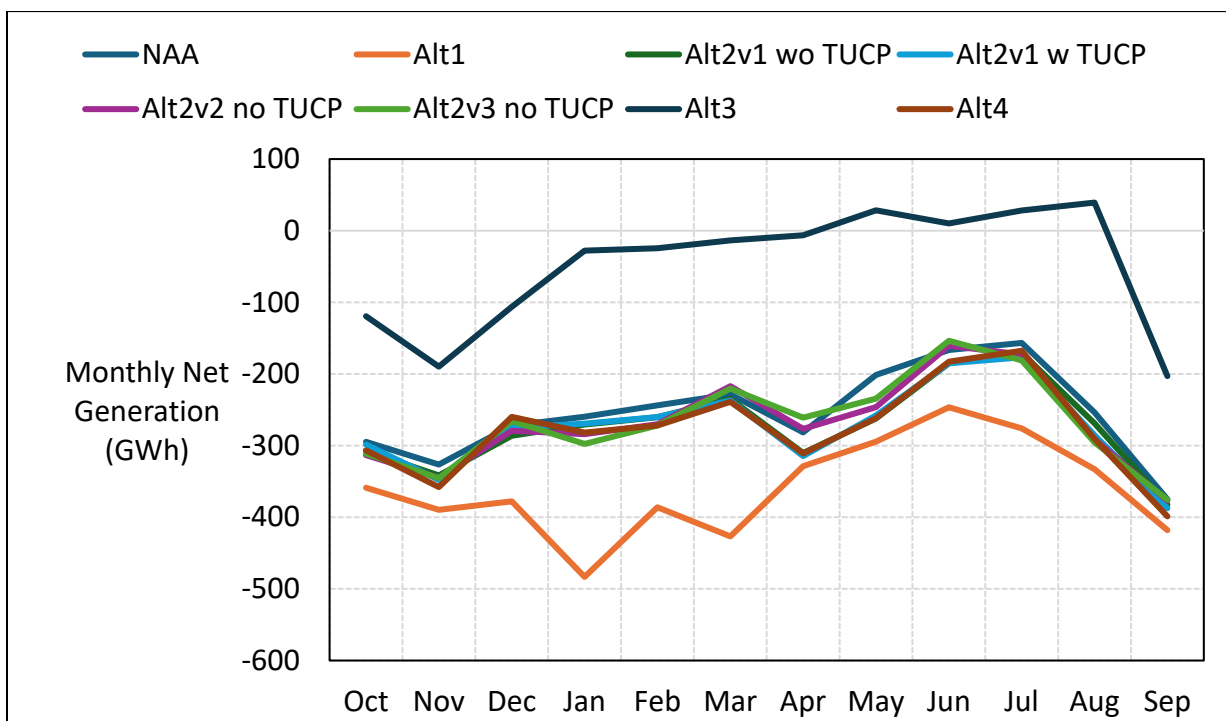Figure 8-4. SWP Net Generation, Below Normal Year Average Generation

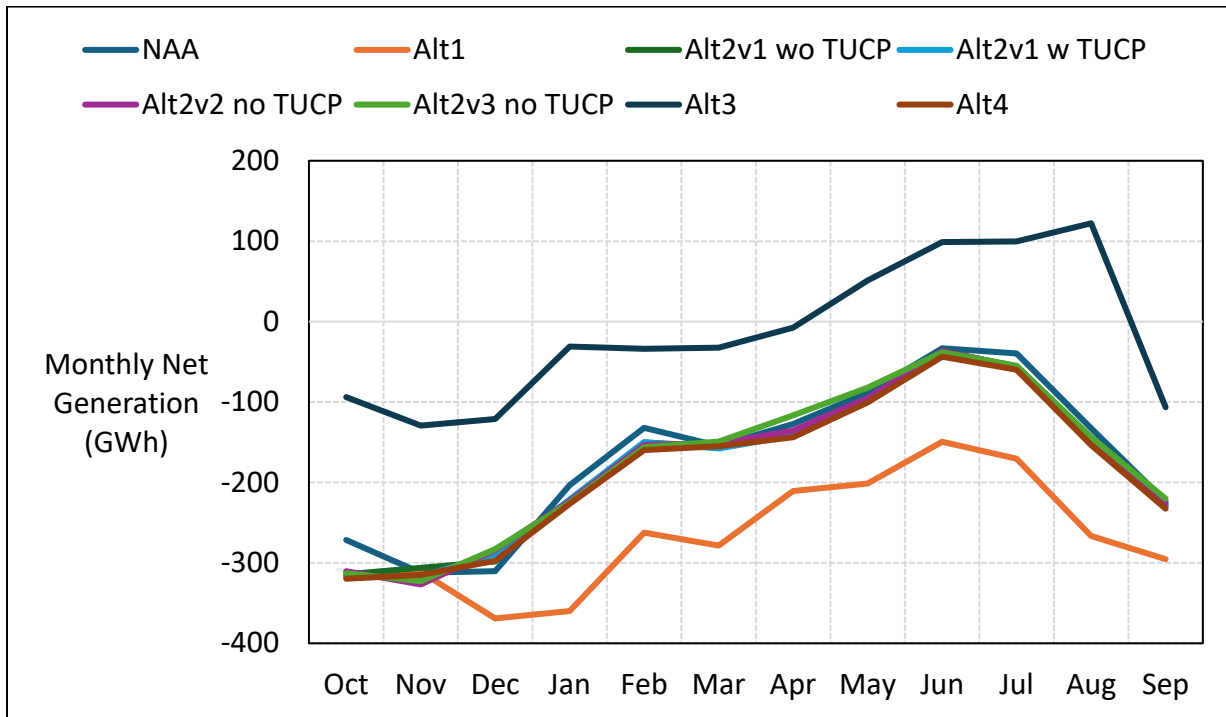Figure 8-5. SWP Net Generation, Dry Year Average Generation



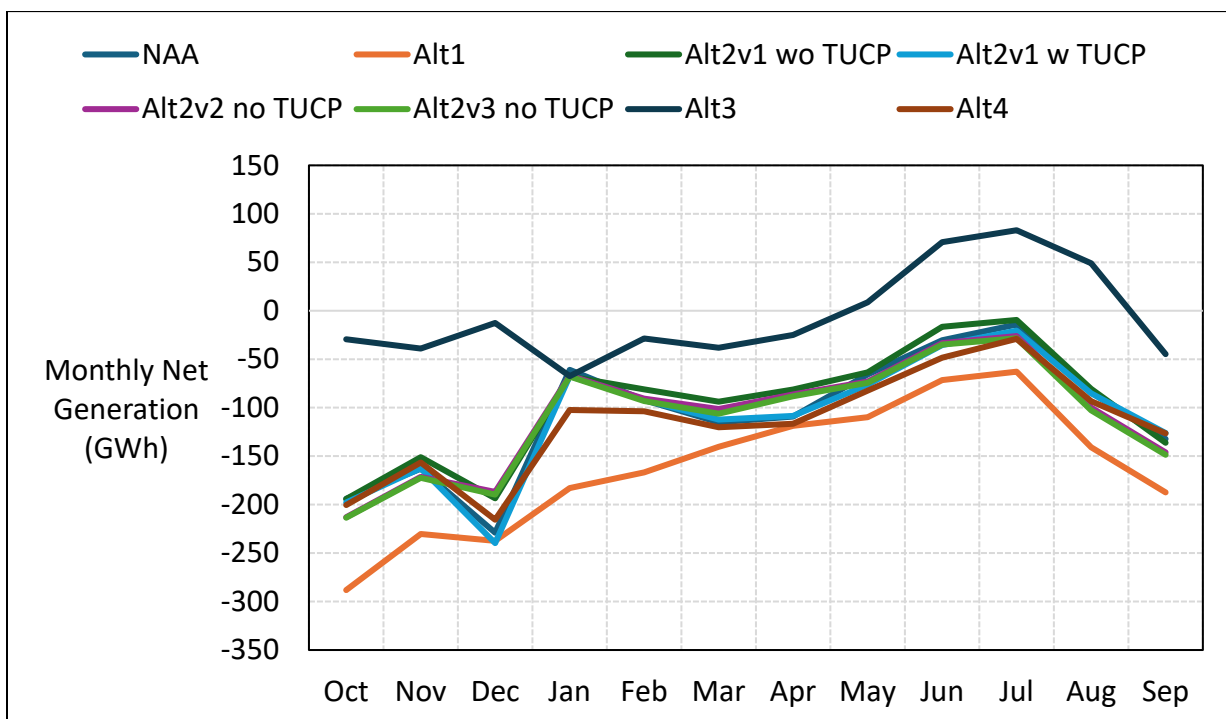Figure 8-6. SWP Net Generation, Critical Year Average Generation
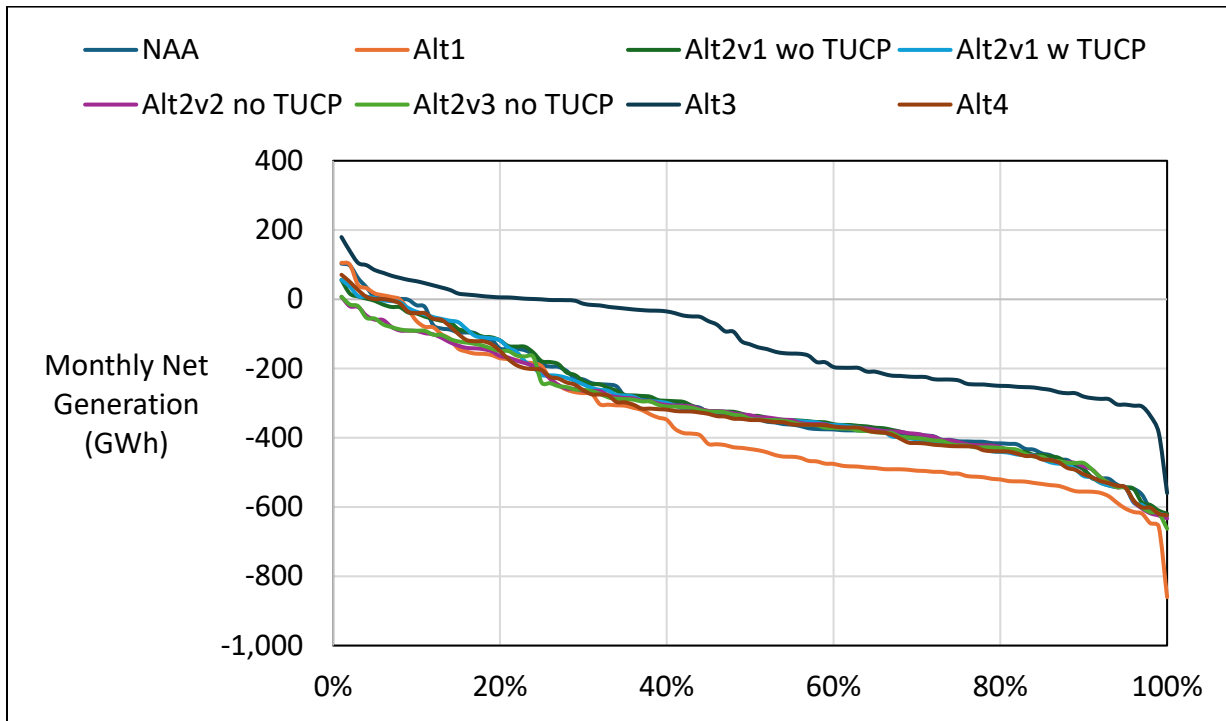
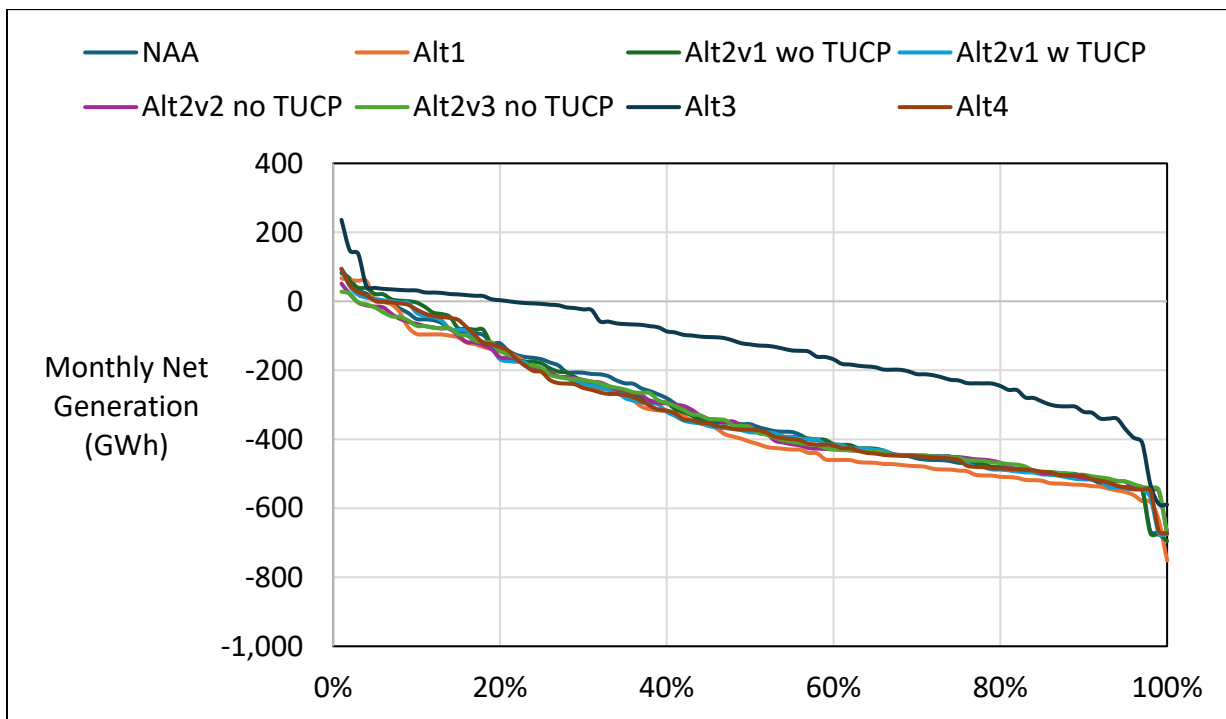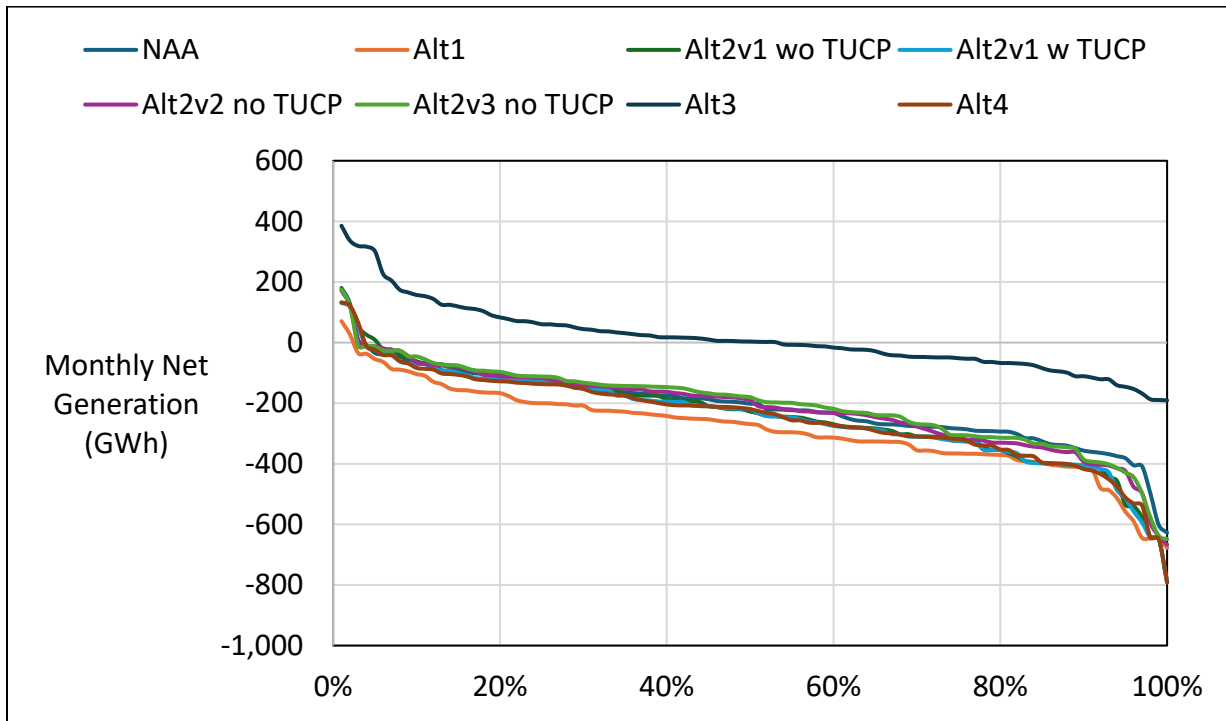Figure 8-7. SWP Net Generation, October



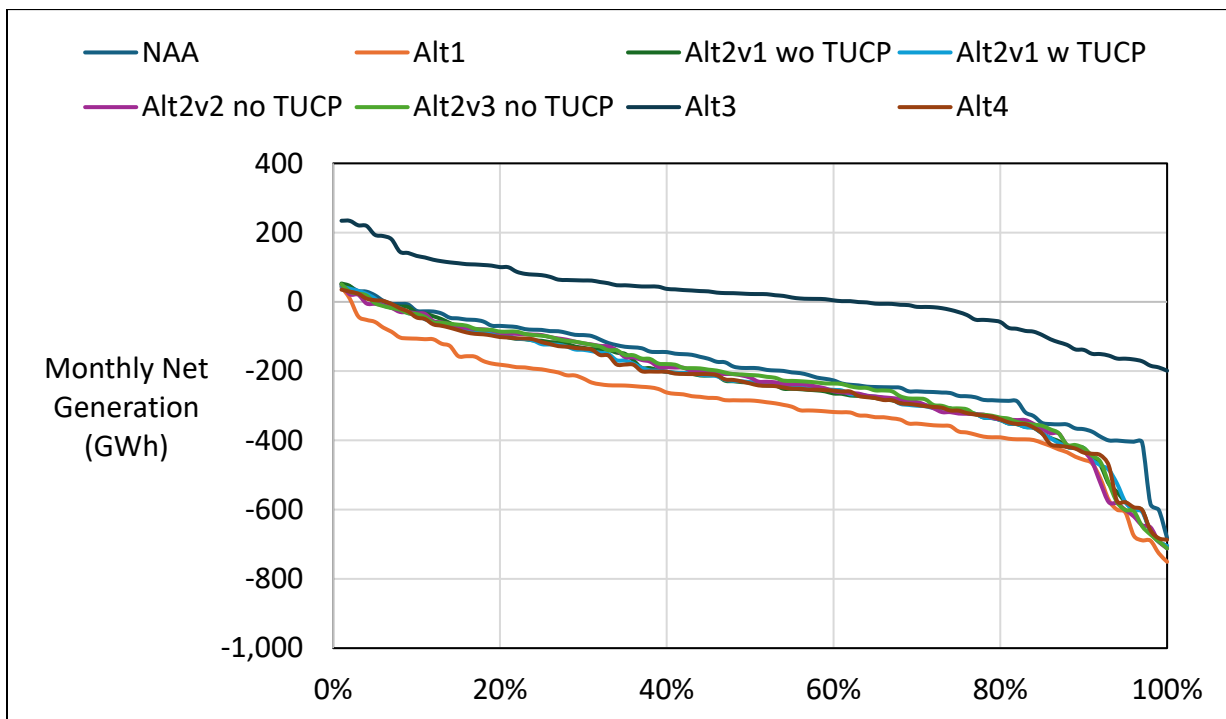Figure 8-8. SWP Net Generation, November
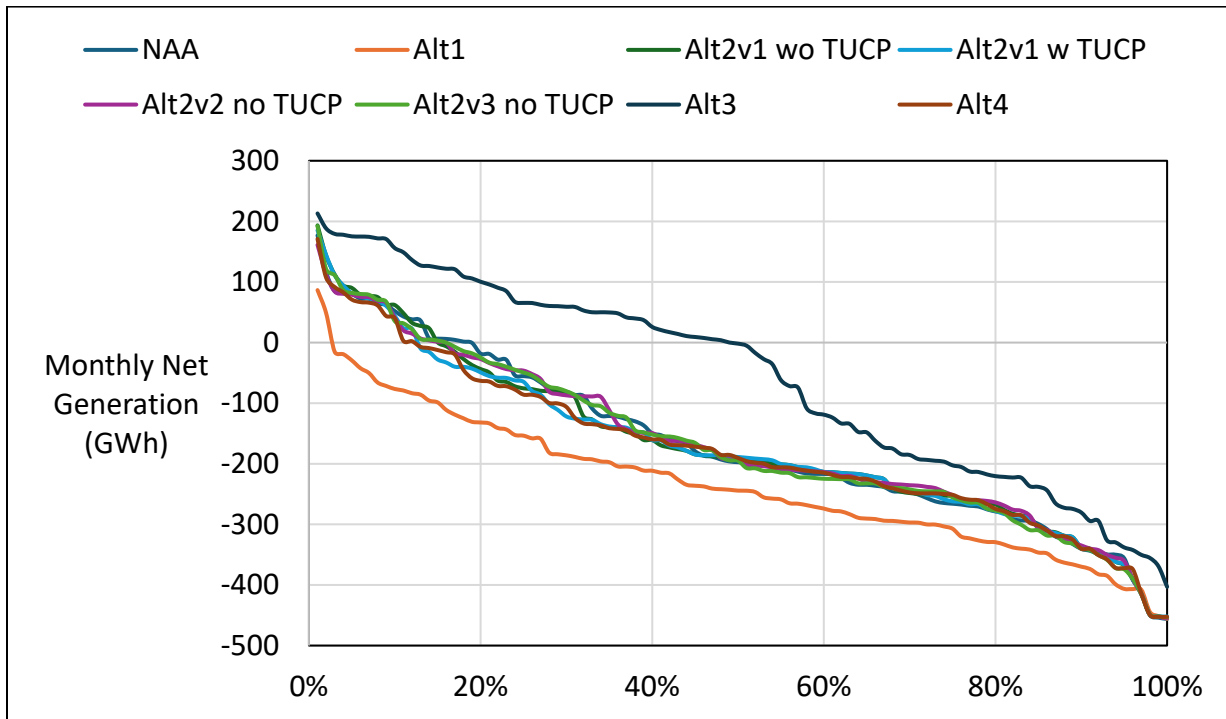
Figure 8-9. SWP Net Generation, December
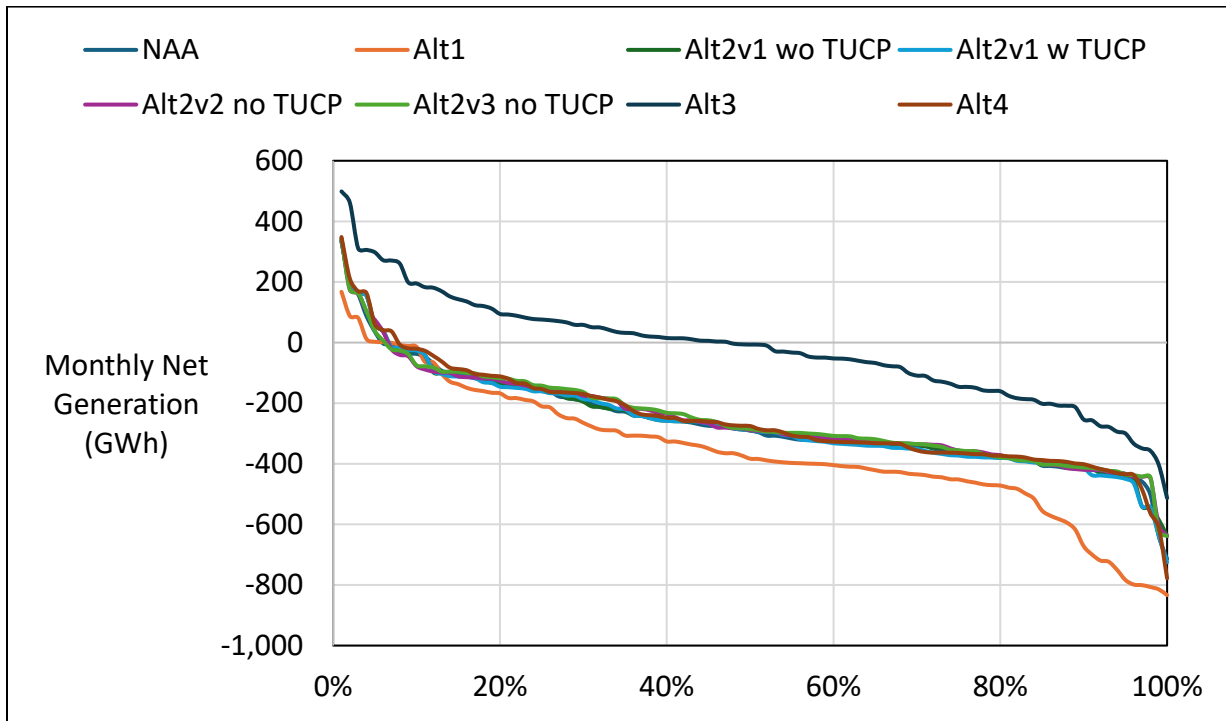


Figure 8-10. SWP Net Generation, January
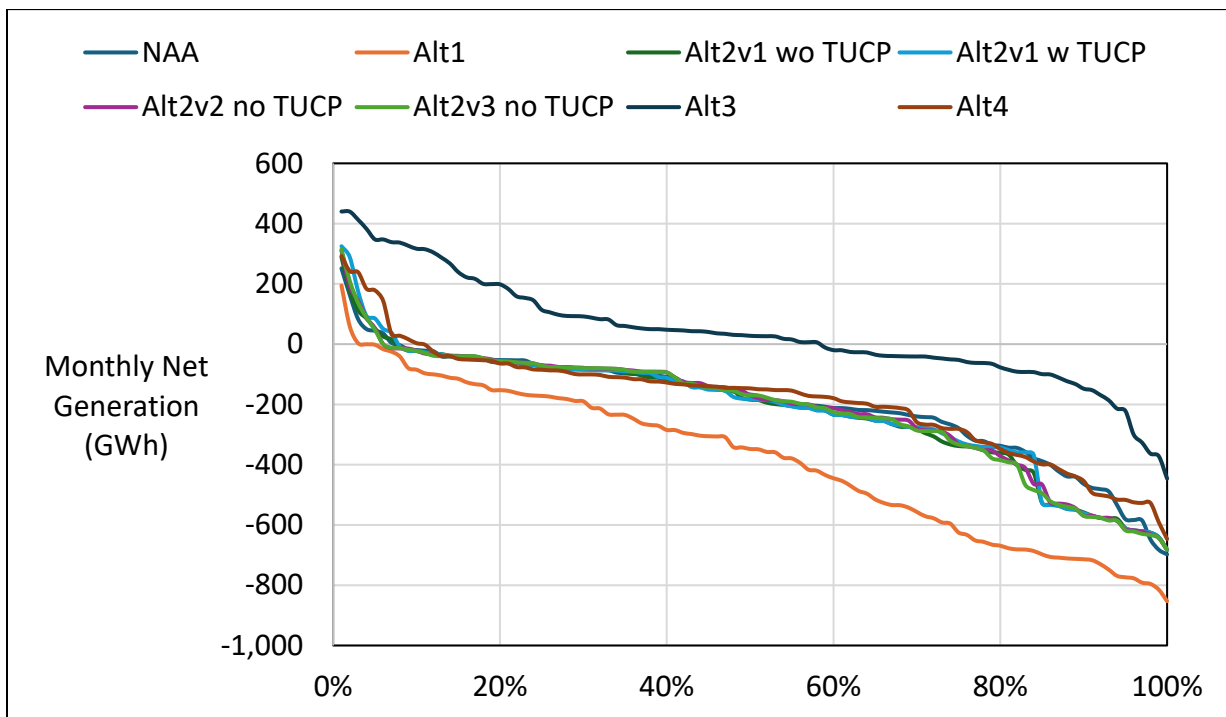
Figure 8-11. SWP Net Generation, February
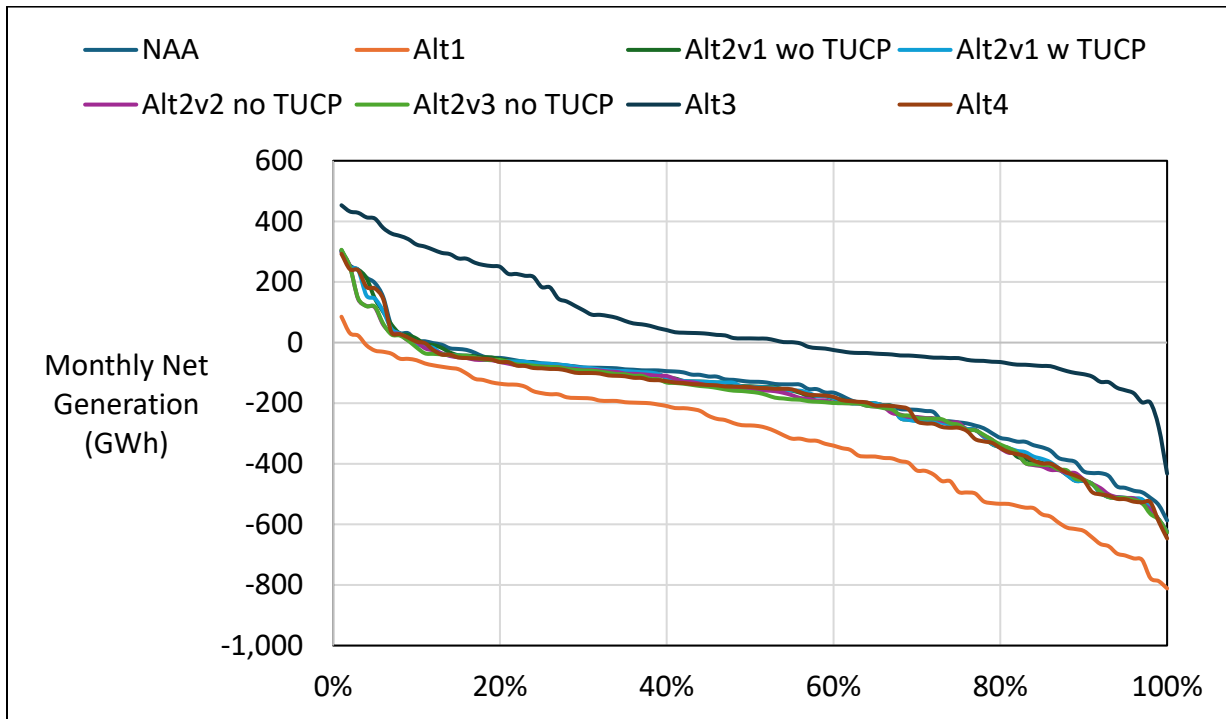


Figure 8-12. SWP Net Generation, March
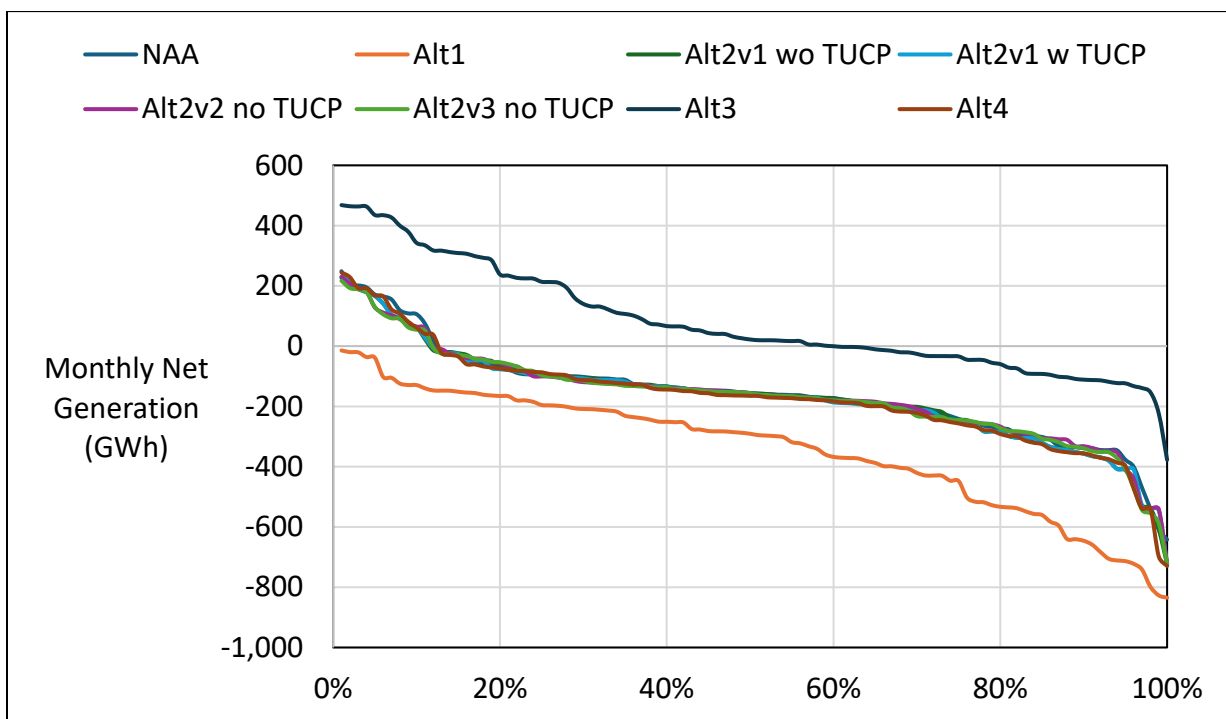
Figure 8-13. SWP Net Generation, April



Figure 8-14. SWP Net Generation, May

Figure 8-15. SWP Net Generation, June


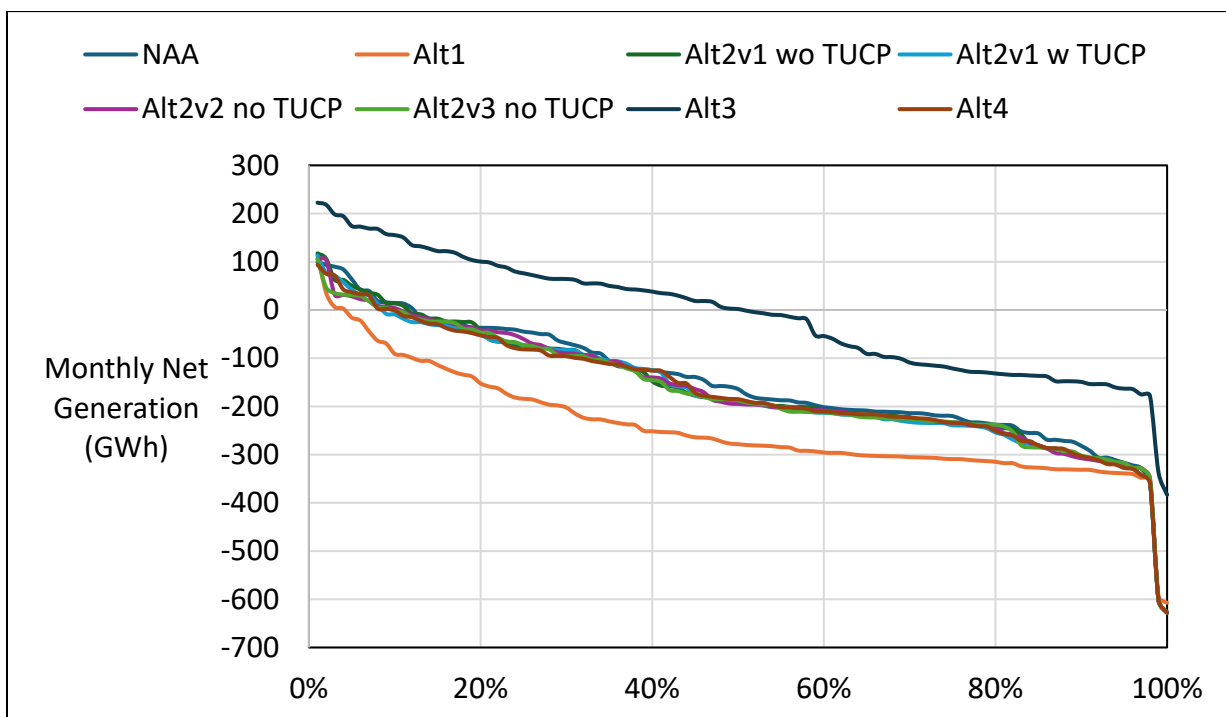
Figure 8-16. SWP Net Generation, July

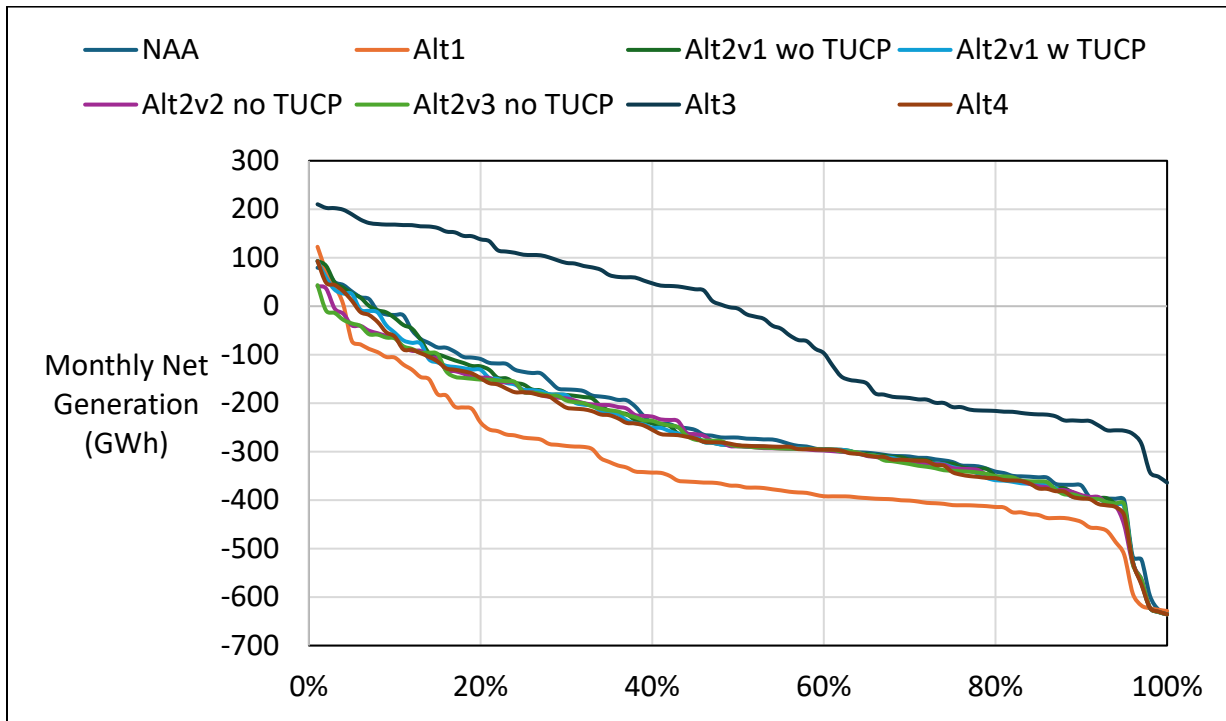Figure 8-17. SWP Net Generation, August
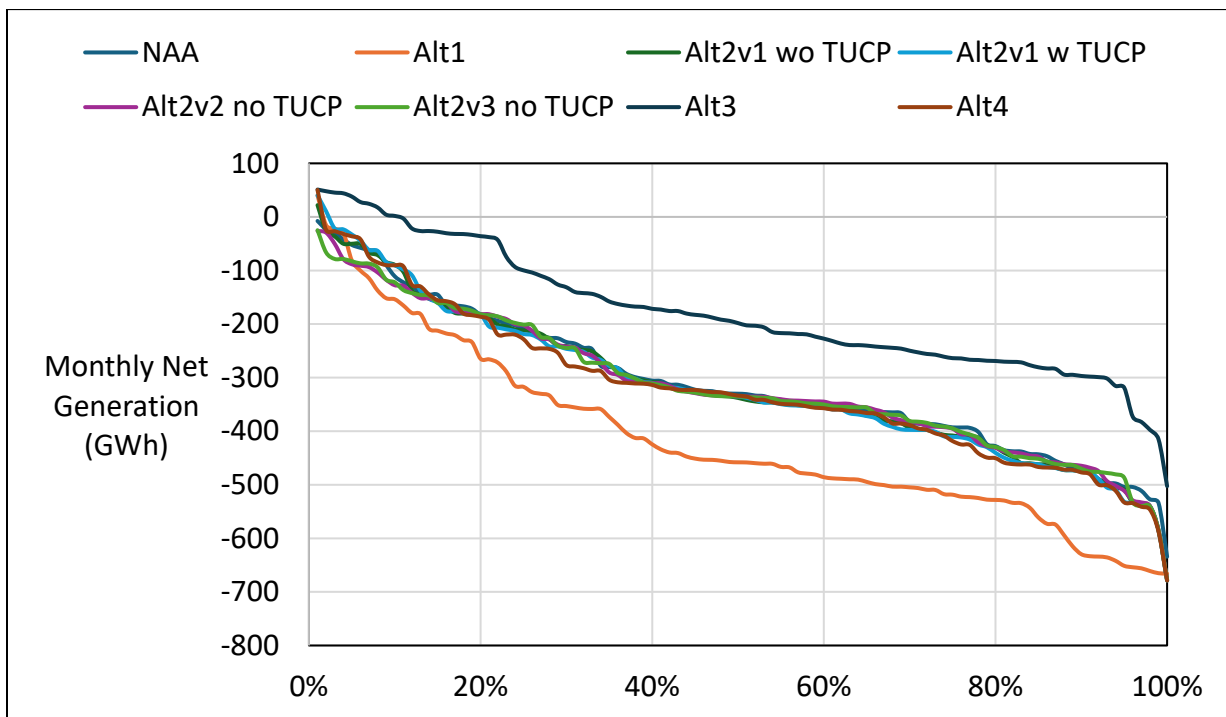


Figure 8-18. SWP Net Generation, September

Table 9-1. CVP and SWP Net Generation, Monthly Generation

**NAA**

| Statistic | Monthly Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 65 | 29 | 236 | 466 | 477 | 552 | 206 | 343 | 433 | 514 | 298 | 47 |
| 20% | 7 | -29 | 8 | 202 | 385 | 244 | 135 | 301 | 356 | 452 | 221 | 12 |
| 30% | -50 | -122 | -103 | 46 | 96 | 92 | 74 | 245 | 300 | 402 | 178 | -24 |
| 40% | -115 | -199 | -137 | -7 | 7 | -7 | 41 | 199 | 239 | 370 | 128 | -40 |
| 50% | -167 | -307 | -191 | -48 | -45 | -75 | -1 | 160 | 201 | 335 | 102 | -80 |
| 60% | -194 | -350 | -220 | -78 | -95 | -100 | -40 | 123 | 156 | 294 | 67 | -116 |
| 70% | -217 | -390 | -274 | -133 | -141 | -123 | -79 | 91 | 100 | 252 | 19 | -166 |
| 80% | -252 | -417 | -346 | -209 | -181 | -149 | -139 | 18 | 34 | 211 | -26 | -234 |
| 90% | -328 | -464 | -397 | -354 | -331 | -247 | -176 | -31 | -79 | 152 | -77 | -295 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | -137 | -240 | -122 | -3 | 39 | 47 | 10 | 155 | 187 | 325 | 100 | -101 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | -186 | -269 | 87 | 199 | 294 | 276 | 34 | 56 | 26 | 239 | 21 | -85 |
| Above Normal (12%) | -156 | -311 | -270 | 24 | 12 | 79 | -38 | 194 | 148 | 347 | 84 | -46 |
| Below Normal (24%) | -126 | -268 | -187 | -182 | -139 | -125 | -88 | 167 | 215 | 351 | 97 | -223 |
| Dry (17%) | -102 | -238 | -265 | -156 | -103 | -72 | 97 | 261 | 403 | 456 | 218 | -66 |
| Critical (15%) | -74 | -80 | -183 | 6 | -37 | -59 | 56 | 194 | 277 | 302 | 155 | -25 |

**Alt1**

| Statistic | Monthly Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 20 | 15 | 221 | 287 | 345 | 359 | 132 | 240 | 329 | 379 | 168 | -17 |
| 20% | -86 | -79 | -46 | 38 | 165 | 64 | 82 | 184 | 292 | 318 | 98 | -86 |
| 30% | -144 | -141 | -157 | -87 | 7 | -31 | 40 | 152 | 248 | 287 | 53 | -207 |
| 40% | -235 | -261 | -233 | -142 | -98 | -128 | -6 | 122 | 211 | 260 | -13 | -249 |
| 50% | -287 | -317 | -289 | -210 | -154 | -183 | -62 | 82 | 161 | 221 | -36 | -283 |
| 60% | -321 | -369 | -320 | -299 | -226 | -251 | -119 | 21 | 134 | 202 | -57 | -310 |
| 70% | -333 | -397 | -383 | -429 | -358 | -318 | -166 | -22 | 81 | 164 | -85 | -337 |

| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Monthly Generation (GWh) | | | | | | | |
| 80% | -389 | -416 | -456 | -526 | -454 | -423 | -200 | -54 | 4 | 131 | -103 | -370 |
| 90% | -432 | -472 | -605 | -681 | -537 | -558 | -287 | -135 | -114 | 99 | -161 | -406 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | -236 | -259 | -221 | -207 | -132 | -160 | -64 | 54 | 142 | 226 | -7 | -245 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | -280 | -266 | -15 | 1 | 82 | 25 | -83 | -65 | 14 | 169 | -92 | -326 |
| Above Normal (12%) | -286 | -288 | -461 | -260 | -225 | -312 | -160 | 62 | 87 | 215 | -77 | -330 |
| Below Normal (24%) | -224 | -324 | -299 | -425 | -282 | -348 | -134 | 74 | 163 | 209 | 18 | -274 |
| Dry (17%) | -192 | -225 | -341 | -323 | -246 | -217 | 16 | 149 | 302 | 310 | 85 | -130 |
| Critical (15%) | -173 | -157 | -209 | -131 | -144 | -63 | 75 | 161 | 242 | 292 | 87 | -90 |

**Alt1 minus NAA**

| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Monthly Generation (GWh) | | | | | | | |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | -45 | -14 | -15 | -179 | -132 | -193 | -73 | -103 | -104 | -136 | -130 | -63 |
| 20% | -93 | -51 | -54 | -164 | -220 | -179 | -53 | -117 | -64 | -134 | -123 | -98 |
| 30% | -94 | -19 | -54 | -133 | -88 | -123 | -35 | -93 | -52 | -115 | -125 | -184 |
| 40% | -119 | -62 | -96 | -135 | -106 | -122 | -46 | -77 | -28 | -110 | -141 | -209 |
| 50% | -120 | -9 | -98 | -161 | -109 | -108 | -61 | -78 | -40 | -114 | -138 | -204 |
| 60% | -127 | -19 | -99 | -221 | -131 | -151 | -79 | -102 | -22 | -91 | -125 | -194 |
| 70% | -116 | -7 | -108 | -296 | -217 | -194 | -87 | -113 | -20 | -88 | -104 | -170 |
| 80% | -137 | 0 | -110 | -318 | -273 | -274 | -60 | -73 | -30 | -79 | -78 | -136 |
| 90% | -104 | -9 | -208 | -327 | -206 | -312 | -111 | -104 | -35 | -53 | -84 | -111 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | -99 | -19 | -99 | -204 | -171 | -206 | -74 | -101 | -46 | -99 | -108 | -144 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | -94 | 3 | -102 | -197 | -213 | -251 | -116 | -121 | -11 | -70 | -113 | -241 |
| Above Normal (12%) | -130 | 23 | -191 | -284 | -237 | -390 | -122 | -133 | -61 | -132 | -160 | -284 |
| Below Normal (24%) | -98 | -56 | -112 | -243 | -143 | -224 | -46 | -93 | -51 | -142 | -79 | -51 |
| Dry (17%) | -89 | 13 | -76 | -167 | -143 | -145 | -81 | -112 | -101 | -146 | -133 | -64 |
| Critical (15%) | -99 | -78 | -26 | -136 | -107 | -5 | 19 | -33 | -35 | -10 | -69 | -65 |

Table 9-2. CVP and SWP Net Generation, Monthly Generation

**NAA**

| | Monthly Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 65 | 29 | 236 | 466 | 477 | 552 | 206 | 343 | 433 | 514 | 298 | 47 |
| 20% | 7 | -29 | 8 | 202 | 385 | 244 | 135 | 301 | 356 | 452 | 221 | 12 |
| 30% | -50 | -122 | -103 | 46 | 96 | 92 | 74 | 245 | 300 | 402 | 178 | -24 |
| 40% | -115 | -199 | -137 | -7 | 7 | -7 | 41 | 199 | 239 | 370 | 128 | -40 |
| 50% | -167 | -307 | -191 | -48 | -45 | -75 | -1 | 160 | 201 | 335 | 102 | -80 |
| 60% | -194 | -350 | -220 | -78 | -95 | -100 | -40 | 123 | 156 | 294 | 67 | -116 |
| 70% | -217 | -390 | -274 | -133 | -141 | -123 | -79 | 91 | 100 | 252 | 19 | -166 |
| 80% | -252 | -417 | -346 | -209 | -181 | -149 | -139 | 18 | 34 | 211 | -26 | -234 |
| 90% | -328 | -464 | -397 | -354 | -331 | -247 | -176 | -31 | -79 | 152 | -77 | -295 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | -137 | -240 | -122 | -3 | 39 | 47 | 10 | 155 | 187 | 325 | 100 | -101 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | -186 | -269 | 87 | 199 | 294 | 276 | 34 | 56 | 26 | 239 | 21 | -85 |
| Above Normal (12%) | -156 | -311 | -270 | 24 | 12 | 79 | -38 | 194 | 148 | 347 | 84 | -46 |
| Below Normal (24%) | -126 | -268 | -187 | -182 | -139 | -125 | -88 | 167 | 215 | 351 | 97 | -223 |
| Dry (17%) | -102 | -238 | -265 | -156 | -103 | -72 | 97 | 261 | 403 | 456 | 218 | -66 |
| Critical (15%) | -74 | -80 | -183 | 6 | -37 | -59 | 56 | 194 | 277 | 302 | 155 | -25 |

**Alt2v1 wo TUCP**

| | Monthly Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 84 | 67 | 188 | 432 | 435 | 500 | 217 | 348 | 464 | 498 | 225 | 27 |
| 20% | 2 | -28 | -47 | 150 | 338 | 161 | 136 | 265 | 340 | 462 | 200 | -8 |
| 30% | -36 | -131 | -84 | 64 | 100 | 108 | 72 | 221 | 303 | 429 | 162 | -43 |
| 40% | -103 | -222 | -146 | -8 | 13 | 21 | 30 | 160 | 248 | 375 | 124 | -61 |
| 50% | -161 | -307 | -177 | -31 | -48 | -46 | -10 | 141 | 185 | 343 | 87 | -86 |
| 60% | -186 | -353 | -226 | -77 | -81 | -94 | -49 | 79 | 145 | 282 | 57 | -121 |
| 70% | -215 | -375 | -279 | -126 | -131 | -122 | -101 | 32 | 116 | 238 | 9 | -181 |

| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Monthly Generation (GWh) | | | | | | |
| 80% | -265 | -417 | -341 | -309 | -222 | -148 | -178 | -29 | 57 | 199 | -29 | -241 |
| 90% | -329 | -466 | -399 | -417 | -395 | -264 | -277 | -130 | -72 | 138 | -100 | -313 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | -133 | -238 | -119 | -22 | 25 | 35 | -21 | 113 | 196 | 321 | 85 | -118 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | -176 | -269 | 99 | 166 | 251 | 237 | -33 | -18 | 36 | 238 | 19 | -103 |
| Above Normal (12%) | -94 | -307 | -308 | -13 | -8 | 25 | -106 | 145 | 167 | 314 | 65 | -68 |
| Below Normal (24%) | -135 | -282 | -204 | -186 | -135 | -132 | -117 | 120 | 205 | 344 | 74 | -234 |
| Dry (17%) | -142 | -232 | -250 | -172 | -110 | -72 | 86 | 268 | 417 | 455 | 206 | -74 |
| Critical (15%) | -62 | -54 | -149 | 2 | -22 | 4 | 102 | 180 | 292 | 315 | 125 | -58 |

**Alt2v1 wo TUCP minus NAA**

| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Monthly Generation (GWh) | | | | | | |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 19 | 37 | -48 | -34 | -42 | -53 | 11 | 5 | 31 | -16 | -74 | -20 |
| 20% | -6 | 1 | -55 | -52 | -47 | -83 | 1 | -36 | -16 | 10 | -22 | -21 |
| 30% | 14 | -9 | 19 | 17 | 5 | 15 | -2 | -24 | 3 | 28 | -17 | -20 |
| 40% | 12 | -24 | -9 | 0 | 6 | 28 | -11 | -39 | 9 | 5 | -3 | -21 |
| 50% | 6 | 0 | 14 | 17 | -3 | 29 | -9 | -19 | -16 | 8 | -15 | -6 |
| 60% | 9 | -3 | -6 | 0 | 14 | 6 | -9 | -43 | -11 | -11 | -10 | -5 |
| 70% | 2 | 15 | -5 | 8 | 10 | 1 | -21 | -59 | 16 | -14 | -10 | -14 |
| 80% | -13 | -1 | 5 | -100 | -41 | 1 | -39 | -47 | 23 | -11 | -3 | -7 |
| 90% | -1 | -3 | -2 | -63 | -64 | -17 | -101 | -99 | 7 | -14 | -23 | -19 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | 4 | 2 | 3 | -19 | -14 | -11 | -31 | -42 | 8 | -4 | -15 | -17 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 10 | 0 | 12 | -33 | -43 | -39 | -66 | -74 | 10 | -1 | -2 | -17 |
| Above Normal (12%) | 62 | 4 | -38 | -37 | -20 | -54 | -68 | -49 | 20 | -33 | -19 | -22 |
| Below Normal (24%) | -9 | -14 | -17 | -4 | 3 | -8 | -29 | -47 | -9 | -7 | -23 | -11 |
| Dry (17%) | -40 | 6 | 15 | -15 | -7 | 0 | -11 | 6 | 14 | -1 | -11 | -7 |
| Critical (15%) | 12 | 26 | 34 | -4 | 15 | 62 | 46 | -14 | 16 | 14 | -30 | -33 |

Table 9-3. CVP and SWP Net Generation, Monthly Generation

**NAA**

| | Monthly Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 65 | 29 | 236 | 466 | 477 | 552 | 206 | 343 | 433 | 514 | 298 | 47 |
| 20% | 7 | -29 | 8 | 202 | 385 | 244 | 135 | 301 | 356 | 452 | 221 | 12 |
| 30% | -50 | -122 | -103 | 46 | 96 | 92 | 74 | 245 | 300 | 402 | 178 | -24 |
| 40% | -115 | -199 | -137 | -7 | 7 | -7 | 41 | 199 | 239 | 370 | 128 | -40 |
| 50% | -167 | -307 | -191 | -48 | -45 | -75 | -1 | 160 | 201 | 335 | 102 | -80 |
| 60% | -194 | -350 | -220 | -78 | -95 | -100 | -40 | 123 | 156 | 294 | 67 | -116 |
| 70% | -217 | -390 | -274 | -133 | -141 | -123 | -79 | 91 | 100 | 252 | 19 | -166 |
| 80% | -252 | -417 | -346 | -209 | -181 | -149 | -139 | 18 | 34 | 211 | -26 | -234 |
| 90% | -328 | -464 | -397 | -354 | -331 | -247 | -176 | -31 | -79 | 152 | -77 | -295 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | -137 | -240 | -122 | -3 | 39 | 47 | 10 | 155 | 187 | 325 | 100 | -101 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | -186 | -269 | 87 | 199 | 294 | 276 | 34 | 56 | 26 | 239 | 21 | -85 |
| Above Normal (12%) | -156 | -311 | -270 | 24 | 12 | 79 | -38 | 194 | 148 | 347 | 84 | -46 |
| Below Normal (24%) | -126 | -268 | -187 | -182 | -139 | -125 | -88 | 167 | 215 | 351 | 97 | -223 |
| Dry (17%) | -102 | -238 | -265 | -156 | -103 | -72 | 97 | 261 | 403 | 456 | 218 | -66 |
| Critical (15%) | -74 | -80 | -183 | 6 | -37 | -59 | 56 | 194 | 277 | 302 | 155 | -25 |

**Alt2v1 w TUCP**

| | Monthly Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 90 | 61 | 186 | 425 | 434 | 501 | 214 | 326 | 464 | 493 | 260 | 40 |
| 20% | 12 | -40 | -47 | 165 | 338 | 177 | 103 | 259 | 336 | 449 | 192 | 1 |
| 30% | -35 | -139 | -95 | 79 | 87 | 74 | 55 | 222 | 281 | 430 | 153 | -43 |
| 40% | -123 | -231 | -142 | 7 | 12 | 2 | 13 | 163 | 249 | 369 | 118 | -65 |
| 50% | -162 | -321 | -165 | -28 | -47 | -54 | -25 | 137 | 184 | 323 | 83 | -88 |
| 60% | -190 | -353 | -231 | -75 | -68 | -97 | -53 | 78 | 141 | 278 | 56 | -119 |
| 70% | -226 | -382 | -291 | -118 | -124 | -120 | -113 | 44 | 107 | 234 | 26 | -173 |

| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Monthly Generation (GWh) | | | | | | | |
| 80% | -272 | -419 | -343 | -226 | -222 | -146 | -179 | -32 | 58 | 198 | -28 | -251 |
| 90% | -330 | -473 | -399 | -424 | -347 | -267 | -286 | -136 | -72 | 153 | -104 | -310 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | -138 | -244 | -122 | -10 | 25 | 32 | -32 | 111 | 190 | 318 | 84 | -114 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | -183 | -268 | 93 | 184 | 252 | 238 | -32 | -19 | 35 | 237 | 18 | -104 |
| Above Normal (12%) | -137 | -321 | -309 | 5 | 1 | 57 | -110 | 142 | 164 | 310 | 62 | -66 |
| Below Normal (24%) | -118 | -285 | -189 | -183 | -133 | -130 | -124 | 124 | 205 | 340 | 66 | -237 |
| Dry (17%) | -146 | -243 | -244 | -173 | -106 | -75 | 84 | 271 | 415 | 454 | 204 | -75 |
| Critical (15%) | -64 | -67 | -186 | 23 | -36 | -48 | 43 | 163 | 267 | 307 | 133 | -21 |

**Alt2v1 w TUCP minus NAA**

| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Monthly Generation (GWh) | | | | | | | |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 25 | 32 | -50 | -41 | -43 | -51 | 8 | -17 | 31 | -22 | -38 | -6 |
| 20% | 5 | -12 | -56 | -37 | -47 | -67 | -32 | -42 | -20 | -3 | -29 | -12 |
| 30% | 16 | -17 | 8 | 33 | -9 | -18 | -19 | -23 | -19 | 29 | -25 | -20 |
| 40% | -8 | -32 | -5 | 14 | 4 | 8 | -28 | -35 | 9 | 0 | -9 | -25 |
| 50% | 5 | -14 | 26 | 20 | -2 | 20 | -24 | -23 | -17 | -12 | -19 | -8 |
| 60% | 4 | -3 | -11 | 2 | 27 | 3 | -13 | -45 | -15 | -16 | -11 | -4 |
| 70% | -10 | 7 | -17 | 15 | 16 | 3 | -34 | -47 | 7 | -18 | 6 | -7 |
| 80% | -20 | -3 | 3 | -17 | -41 | 3 | -39 | -51 | 24 | -13 | -3 | -16 |
| 90% | -2 | -10 | -1 | -70 | -16 | -20 | -110 | -104 | 7 | 0 | -27 | -16 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | -1 | -4 | 0 | -8 | -14 | -15 | -42 | -44 | 3 | -7 | -17 | -13 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | 2 | 1 | 7 | -15 | -43 | -37 | -66 | -75 | 9 | -1 | -3 | -19 |
| Above Normal (12%) | 19 | -10 | -39 | -19 | -10 | -22 | -72 | -52 | 16 | -37 | -22 | -21 |
| Below Normal (24%) | 8 | -17 | -2 | -2 | 6 | -6 | -36 | -43 | -10 | -11 | -31 | -14 |
| Dry (17%) | -43 | -5 | 21 | -16 | -3 | -3 | -13 | 9 | 11 | -2 | -13 | -9 |
| Critical (15%) | 10 | 13 | -3 | 18 | 1 | 10 | -13 | -31 | -10 | 6 | -23 | 4 |

Table 9-4. CVP and SWP Net Generation, Monthly Generation

**NAA**

| Statistic | Monthly Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 65 | 29 | 236 | 466 | 477 | 552 | 206 | 343 | 433 | 514 | 298 | 47 |
| 20% | 7 | -29 | 8 | 202 | 385 | 244 | 135 | 301 | 356 | 452 | 221 | 12 |
| 30% | -50 | -122 | -103 | 46 | 96 | 92 | 74 | 245 | 300 | 402 | 178 | -24 |
| 40% | -115 | -199 | -137 | -7 | 7 | -7 | 41 | 199 | 239 | 370 | 128 | -40 |
| 50% | -167 | -307 | -191 | -48 | -45 | -75 | -1 | 160 | 201 | 335 | 102 | -80 |
| 60% | -194 | -350 | -220 | -78 | -95 | -100 | -40 | 123 | 156 | 294 | 67 | -116 |
| 70% | -217 | -390 | -274 | -133 | -141 | -123 | -79 | 91 | 100 | 252 | 19 | -166 |
| 80% | -252 | -417 | -346 | -209 | -181 | -149 | -139 | 18 | 34 | 211 | -26 | -234 |
| 90% | -328 | -464 | -397 | -354 | -331 | -247 | -176 | -31 | -79 | 152 | -77 | -295 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | -137 | -240 | -122 | -3 | 39 | 47 | 10 | 155 | 187 | 325 | 100 | -101 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | -186 | -269 | 87 | 199 | 294 | 276 | 34 | 56 | 26 | 239 | 21 | -85 |
| Above Normal (12%) | -156 | -311 | -270 | 24 | 12 | 79 | -38 | 194 | 148 | 347 | 84 | -46 |
| Below Normal (24%) | -126 | -268 | -187 | -182 | -139 | -125 | -88 | 167 | 215 | 351 | 97 | -223 |
| Dry (17%) | -102 | -238 | -265 | -156 | -103 | -72 | 97 | 261 | 403 | 456 | 218 | -66 |
| Critical (15%) | -74 | -80 | -183 | 6 | -37 | -59 | 56 | 194 | 277 | 302 | 155 | -25 |

**Alt2v2 no TUCP**

| Statistic | Monthly Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 57 | 45 | 221 | 424 | 425 | 567 | 236 | 348 | 484 | 504 | 231 | 18 |
| 20% | -17 | -38 | -20 | 204 | 338 | 235 | 140 | 275 | 353 | 456 | 176 | -20 |
| 30% | -74 | -124 | -90 | 58 | 89 | 120 | 92 | 230 | 287 | 418 | 138 | -47 |
| 40% | -139 | -221 | -140 | -12 | 23 | 74 | 51 | 184 | 241 | 381 | 113 | -65 |
| 50% | -162 | -291 | -180 | -32 | -40 | 10 | 12 | 132 | 203 | 347 | 86 | -86 |
| 60% | -195 | -329 | -210 | -77 | -80 | -52 | -8 | 100 | 148 | 283 | 55 | -125 |
| 70% | -218 | -382 | -267 | -128 | -161 | -109 | -56 | 59 | 116 | 244 | 22 | -163 |

| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Monthly Generation (GWh) | | | | | | |
| 80% | -253 | -411 | -331 | -311 | -217 | -144 | -131 | -27 | 57 | 208 | -41 | -238 |
| 90% | -320 | -459 | -400 | -421 | -395 | -200 | -222 | -142 | -74 | 160 | -101 | -290 |
| **Long Term** | | | | | | | | | | | | |
| Full Simulation Period | -150 | -240 | -115 | -18 | 16 | 68 | 18 | 117 | 198 | 323 | 77 | -118 |
| **Water Year Types** | | | | | | | | | | | | |
| Wet (32%) | -197 | -258 | 93 | 176 | 247 | 246 | 33 | -24 | 33 | 241 | 17 | -103 |
| Above Normal (12%) | -145 | -318 | -293 | 39 | -27 | 90 | -32 | 158 | 159 | 323 | 69 | -59 |
| Below Normal (24%) | -141 | -277 | -198 | -204 | -147 | -62 | -77 | 138 | 231 | 345 | 52 | -227 |
| Dry (17%) | -139 | -245 | -237 | -174 | -111 | -40 | 89 | 273 | 418 | 459 | 204 | -74 |
| Critical (15%) | -81 | -75 | -145 | -3 | -37 | -3 | 96 | 172 | 277 | 310 | 106 | -70 |

**Alt2v2 no TUCP minus NAA**

| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Monthly Generation (GWh) | | | | | | |
| **Probability of Exceedance** | | | | | | | | | | | | |
| 10% | -8 | 15 | -15 | -42 | -53 | 14 | 30 | 5 | 52 | -10 | -68 | -28 |
| 20% | -24 | -10 | -28 | 2 | -47 | -8 | 5 | -25 | -3 | 4 | -45 | -32 |
| 30% | -24 | -3 | 13 | 11 | -7 | 28 | 18 | -14 | -13 | 16 | -40 | -23 |
| 40% | -23 | -22 | -2 | -5 | 15 | 80 | 11 | -14 | 1 | 11 | -14 | -25 |
| 50% | 5 | 16 | 10 | 17 | 5 | 84 | 13 | -28 | 2 | 12 | -16 | -7 |
| 60% | -1 | 21 | 10 | 1 | 15 | 48 | 32 | -23 | -8 | -11 | -13 | -10 |
| 70% | -1 | 7 | 8 | 5 | -21 | 14 | 24 | -32 | 16 | -7 | 3 | 4 |
| 80% | -1 | 6 | 15 | -102 | -36 | 5 | 8 | -45 | 23 | -2 | -15 | -4 |
| 90% | 8 | 5 | -3 | -67 | -64 | 47 | -45 | -110 | 5 | 8 | -24 | 4 |
| **Long Term** | | | | | | | | | | | | |
| Full Simulation Period | -13 | 0 | 7 | -15 | -23 | 21 | 8 | -38 | 10 | -2 | -23 | -17 |
| **Water Year Types** | | | | | | | | | | | | |
| Wet (32%) | -11 | 11 | 6 | -23 | -47 | -29 | -1 | -80 | 7 | 2 | -4 | -18 |
| Above Normal (12%) | 11 | -7 | -23 | 14 | -39 | 12 | 6 | -36 | 11 | -24 | -14 | -13 |
| Below Normal (24%) | -15 | -8 | -11 | -22 | -8 | 63 | 11 | -29 | 16 | -6 | -45 | -4 |
| Dry (17%) | -36 | -6 | 27 | -18 | -8 | 32 | -7 | 12 | 15 | 3 | -13 | -8 |
| Critical (15%) | -7 | 5 | 38 | -9 | 0 | 56 | 40 | -22 | 0 | 8 | -50 | -45 |

Table 9-5. CVP and SWP Net Generation, Monthly Generation

**NAA**

| Statistic | Monthly Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 65 | 29 | 236 | 466 | 477 | 552 | 206 | 343 | 433 | 514 | 298 | 47 |
| 20% | 7 | -29 | 8 | 202 | 385 | 244 | 135 | 301 | 356 | 452 | 221 | 12 |
| 30% | -50 | -122 | -103 | 46 | 96 | 92 | 74 | 245 | 300 | 402 | 178 | -24 |
| 40% | -115 | -199 | -137 | -7 | 7 | -7 | 41 | 199 | 239 | 370 | 128 | -40 |
| 50% | -167 | -307 | -191 | -48 | -45 | -75 | -1 | 160 | 201 | 335 | 102 | -80 |
| 60% | -194 | -350 | -220 | -78 | -95 | -100 | -40 | 123 | 156 | 294 | 67 | -116 |
| 70% | -217 | -390 | -274 | -133 | -141 | -123 | -79 | 91 | 100 | 252 | 19 | -166 |
| 80% | -252 | -417 | -346 | -209 | -181 | -149 | -139 | 18 | 34 | 211 | -26 | -234 |
| 90% | -328 | -464 | -397 | -354 | -331 | -247 | -176 | -31 | -79 | 152 | -77 | -295 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | -137 | -240 | -122 | -3 | 39 | 47 | 10 | 155 | 187 | 325 | 100 | -101 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | -186 | -269 | 87 | 199 | 294 | 276 | 34 | 56 | 26 | 239 | 21 | -85 |
| Above Normal (12%) | -156 | -311 | -270 | 24 | 12 | 79 | -38 | 194 | 148 | 347 | 84 | -46 |
| Below Normal (24%) | -126 | -268 | -187 | -182 | -139 | -125 | -88 | 167 | 215 | 351 | 97 | -223 |
| Dry (17%) | -102 | -238 | -265 | -156 | -103 | -72 | 97 | 261 | 403 | 456 | 218 | -66 |
| Critical (15%) | -74 | -80 | -183 | 6 | -37 | -59 | 56 | 194 | 277 | 302 | 155 | -25 |

**Alt2v3 no TUCP**

| Statistic | Monthly Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 38 | 22 | 220 | 409 | 399 | 566 | 248 | 338 | 452 | 485 | 223 | 17 |
| 20% | -17 | -27 | -12 | 227 | 339 | 229 | 168 | 279 | 350 | 436 | 166 | -32 |
| 30% | -69 | -138 | -81 | 64 | 90 | 123 | 100 | 233 | 284 | 402 | 133 | -52 |
| 40% | -139 | -223 | -130 | -5 | 35 | 73 | 73 | 175 | 226 | 368 | 105 | -66 |
| 50% | -168 | -290 | -174 | -31 | -26 | 6 | 43 | 143 | 174 | 350 | 79 | -85 |
| 60% | -202 | -331 | -211 | -78 | -84 | -45 | 3 | 106 | 135 | 289 | 62 | -121 |
| 70% | -224 | -379 | -266 | -142 | -161 | -98 | -22 | 71 | 93 | 235 | 18 | -158 |

| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Monthly Generation (GWh) | | | | | | | |
| 80% | -266 | -406 | -345 | -318 | -216 | -145 | -100 | -5 | 56 | 216 | -40 | -237 |
| 90% | -326 | -456 | -394 | -444 | -402 | -212 | -209 | -78 | -76 | 143 | -109 | -290 |
| **Long Term** | | | | | | | | | | | | |
| Full Simulation Period | -153 | -237 | -110 | -22 | 15 | 66 | 38 | 125 | 186 | 315 | 72 | -118 |
| **Water Year Types** | | | | | | | | | | | | |
| Wet (32%) | -201 | -247 | 95 | 173 | 240 | 240 | 43 | -21 | 29 | 238 | 13 | -105 |
| Above Normal (12%) | -153 | -317 | -296 | 52 | -17 | 90 | 7 | 183 | 119 | 318 | 66 | -74 |
| Below Normal (24%) | -140 | -278 | -180 | -217 | -146 | -62 | -48 | 156 | 222 | 328 | 41 | -225 |
| Dry (17%) | -144 | -243 | -233 | -183 | -113 | -32 | 109 | 273 | 398 | 446 | 197 | -66 |
| Critical (15%) | -83 | -77 | -148 | -6 | -40 | -6 | 105 | 176 | 275 | 309 | 111 | -71 |

**Alt2v3 no TUCP minus NAA**

| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Monthly Generation (GWh) | | | | | | | |
| **Probability of Exceedance** | | | | | | | | | | | | |
| 10% | -27 | -8 | -16 | -57 | -79 | 14 | 42 | -5 | 19 | -29 | -75 | -30 |
| 20% | -24 | 1 | -20 | 25 | -46 | -14 | 32 | -22 | -6 | -16 | -55 | -44 |
| 30% | -19 | -17 | 22 | 17 | -6 | 31 | 25 | -12 | -16 | 0 | -45 | -28 |
| 40% | -23 | -25 | 8 | 2 | 28 | 80 | 32 | -23 | -13 | -2 | -22 | -26 |
| 50% | 0 | 18 | 16 | 17 | 19 | 80 | 44 | -17 | -27 | 14 | -23 | -5 |
| 60% | -8 | 19 | 9 | 0 | 11 | 55 | 43 | -17 | -21 | -4 | -5 | -6 |
| 70% | -7 | 11 | 9 | -9 | -20 | 25 | 58 | -20 | -8 | -16 | -1 | 9 |
| 80% | -14 | 10 | 1 | -110 | -35 | 4 | 39 | -24 | 22 | 5 | -14 | -2 |
| 90% | 2 | 7 | 4 | -90 | -71 | 35 | -33 | -46 | 4 | -10 | -32 | 5 |
| **Long Term** | | | | | | | | | | | | |
| Full Simulation Period | -16 | 3 | 12 | -19 | -25 | 20 | 28 | -30 | -2 | -10 | -28 | -17 |
| **Water Year Types** | | | | | | | | | | | | |
| Wet (32%) | -15 | 21 | 9 | -25 | -54 | -35 | 10 | -77 | 3 | -1 | -8 | -20 |
| Above Normal (12%) | 3 | -6 | -27 | 28 | -29 | 12 | 45 | -12 | -29 | -30 | -18 | -28 |
| Below Normal (24%) | -14 | -10 | 7 | -35 | -7 | 62 | 40 | -11 | 7 | -23 | -56 | -2 |
| Dry (17%) | -42 | -5 | 32 | -26 | -10 | 39 | 13 | 11 | -5 | -10 | -21 | 0 |
| Critical (15%) | -8 | 3 | 35 | -11 | -3 | 53 | 49 | -17 | -1 | 7 | -45 | -46 |

Table 9-6. CVP and SWP Net Generation, Monthly Generation

**NAA**

| Statistic | Monthly Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 65 | 29 | 236 | 466 | 477 | 552 | 206 | 343 | 433 | 514 | 298 | 47 |
| 20% | 7 | -29 | 8 | 202 | 385 | 244 | 135 | 301 | 356 | 452 | 221 | 12 |
| 30% | -50 | -122 | -103 | 46 | 96 | 92 | 74 | 245 | 300 | 402 | 178 | -24 |
| 40% | -115 | -199 | -137 | -7 | 7 | -7 | 41 | 199 | 239 | 370 | 128 | -40 |
| 50% | -167 | -307 | -191 | -48 | -45 | -75 | -1 | 160 | 201 | 335 | 102 | -80 |
| 60% | -194 | -350 | -220 | -78 | -95 | -100 | -40 | 123 | 156 | 294 | 67 | -116 |
| 70% | -217 | -390 | -274 | -133 | -141 | -123 | -79 | 91 | 100 | 252 | 19 | -166 |
| 80% | -252 | -417 | -346 | -209 | -181 | -149 | -139 | 18 | 34 | 211 | -26 | -234 |
| 90% | -328 | -464 | -397 | -354 | -331 | -247 | -176 | -31 | -79 | 152 | -77 | -295 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | -137 | -240 | -122 | -3 | 39 | 47 | 10 | 155 | 187 | 325 | 100 | -101 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | -186 | -269 | 87 | 199 | 294 | 276 | 34 | 56 | 26 | 239 | 21 | -85 |
| Above Normal (12%) | -156 | -311 | -270 | 24 | 12 | 79 | -38 | 194 | 148 | 347 | 84 | -46 |
| Below Normal (24%) | -126 | -268 | -187 | -182 | -139 | -125 | -88 | 167 | 215 | 351 | 97 | -223 |
| Dry (17%) | -102 | -238 | -265 | -156 | -103 | -72 | 97 | 261 | 403 | 456 | 218 | -66 |
| Critical (15%) | -74 | -80 | -183 | 6 | -37 | -59 | 56 | 194 | 277 | 302 | 155 | -25 |

**Alt3**

| Statistic | Monthly Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 266 | 192 | 762 | 934 | 938 | 944 | 614 | 777 | 596 | 700 | 649 | 213 |
| 20% | 186 | 145 | 457 | 641 | 820 | 681 | 451 | 604 | 492 | 614 | 591 | 153 |
| 30% | 148 | 97 | 257 | 351 | 344 | 427 | 335 | 525 | 436 | 545 | 502 | 119 |
| 40% | 121 | 44 | 153 | 226 | 210 | 301 | 283 | 476 | 372 | 504 | 397 | 86 |
| 50% | 97 | -17 | 103 | 148 | 151 | 212 | 252 | 431 | 314 | 470 | 304 | 69 |
| 60% | 30 | -51 | 70 | 109 | 104 | 158 | 216 | 401 | 251 | 441 | 237 | 48 |
| 70% | -16 | -108 | 26 | 64 | 65 | 133 | 187 | 366 | 169 | 396 | 206 | 12 |

| | Monthly Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| 80% | -54 | -151 | -51 | -17 | 9 | 19 | 156 | 311 | 86 | 352 | 189 | -41 |
| 90% | -101 | -231 | -152 | -83 | -36 | -59 | 112 | 250 | -15 | 309 | 153 | -97 |
| **Long Term** | | | | | | | | | | | | |
| Full Simulation Period | 75 | -4 | 192 | 281 | 318 | 343 | 314 | 469 | 293 | 481 | 359 | 62 |
| **Water Year Types** | | | | | | | | | | | | |
| Wet (32%) | 41 | 14 | 488 | 623 | 718 | 735 | 479 | 577 | 74 | 392 | 198 | 66 |
| Above Normal (12%) | 68 | -23 | 135 | 377 | 289 | 420 | 318 | 563 | 231 | 475 | 345 | 138 |
| Below Normal (24%) | 80 | -73 | 45 | 105 | 155 | 141 | 247 | 441 | 385 | 545 | 487 | -12 |
| Dry (17%) | 98 | 3 | -21 | 45 | 46 | 92 | 235 | 420 | 541 | 626 | 556 | 84 |
| Critical (15%) | 120 | 77 | 82 | 24 | 55 | 53 | 153 | 267 | 381 | 413 | 286 | 82 |

**Alt3 minus NAA**

| | Monthly Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Statistic | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| **Probability of Exceedance** | | | | | | | | | | | | |
| 10% | 201 | 163 | 526 | 468 | 461 | 392 | 409 | 434 | 163 | 186 | 351 | 166 |
| 20% | 178 | 173 | 449 | 439 | 435 | 437 | 316 | 303 | 136 | 161 | 370 | 141 |
| 30% | 199 | 219 | 360 | 304 | 249 | 335 | 260 | 280 | 136 | 143 | 324 | 143 |
| 40% | 236 | 243 | 290 | 233 | 203 | 308 | 242 | 277 | 133 | 134 | 269 | 127 |
| 50% | 264 | 291 | 293 | 197 | 196 | 287 | 252 | 271 | 113 | 134 | 202 | 148 |
| 60% | 224 | 299 | 290 | 186 | 199 | 258 | 256 | 278 | 95 | 147 | 170 | 164 |
| 70% | 200 | 281 | 300 | 197 | 205 | 256 | 266 | 275 | 68 | 145 | 187 | 179 |
| 80% | 198 | 266 | 295 | 192 | 190 | 169 | 295 | 293 | 52 | 141 | 214 | 194 |
| 90% | 227 | 233 | 245 | 271 | 295 | 188 | 289 | 281 | 64 | 157 | 230 | 197 |
| **Long Term** | | | | | | | | | | | | |
| Full Simulation Period | 212 | 236 | 314 | 284 | 279 | 296 | 304 | 315 | 106 | 156 | 258 | 163 |
| **Water Year Types** | | | | | | | | | | | | |
| Wet (32%) | 227 | 282 | 401 | 424 | 424 | 459 | 445 | 521 | 49 | 153 | 176 | 151 |
| Above Normal (12%) | 224 | 288 | 405 | 352 | 277 | 341 | 356 | 369 | 84 | 128 | 261 | 183 |
| Below Normal (24%) | 206 | 195 | 232 | 286 | 294 | 266 | 335 | 275 | 170 | 194 | 390 | 211 |
| Dry (17%) | 200 | 241 | 244 | 201 | 149 | 164 | 138 | 159 | 137 | 170 | 338 | 151 |
| Critical (15%) | 194 | 157 | 265 | 18 | 92 | 112 | 97 | 73 | 105 | 111 | 130 | 107 |

Table 9-7. CVP and SWP Net Generation, Monthly Generation

**NAA**

| Statistic | Monthly Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 65 | 29 | 236 | 466 | 477 | 552 | 206 | 343 | 433 | 514 | 298 | 47 |
| 20% | 7 | -29 | 8 | 202 | 385 | 244 | 135 | 301 | 356 | 452 | 221 | 12 |
| 30% | -50 | -122 | -103 | 46 | 96 | 92 | 74 | 245 | 300 | 402 | 178 | -24 |
| 40% | -115 | -199 | -137 | -7 | 7 | -7 | 41 | 199 | 239 | 370 | 128 | -40 |
| 50% | -167 | -307 | -191 | -48 | -45 | -75 | -1 | 160 | 201 | 335 | 102 | -80 |
| 60% | -194 | -350 | -220 | -78 | -95 | -100 | -40 | 123 | 156 | 294 | 67 | -116 |
| 70% | -217 | -390 | -274 | -133 | -141 | -123 | -79 | 91 | 100 | 252 | 19 | -166 |
| 80% | -252 | -417 | -346 | -209 | -181 | -149 | -139 | 18 | 34 | 211 | -26 | -234 |
| 90% | -328 | -464 | -397 | -354 | -331 | -247 | -176 | -31 | -79 | 152 | -77 | -295 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | -137 | -240 | -122 | -3 | 39 | 47 | 10 | 155 | 187 | 325 | 100 | -101 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | -186 | -269 | 87 | 199 | 294 | 276 | 34 | 56 | 26 | 239 | 21 | -85 |
| Above Normal (12%) | -156 | -311 | -270 | 24 | 12 | 79 | -38 | 194 | 148 | 347 | 84 | -46 |
| Below Normal (24%) | -126 | -268 | -187 | -182 | -139 | -125 | -88 | 167 | 215 | 351 | 97 | -223 |
| Dry (17%) | -102 | -238 | -265 | -156 | -103 | -72 | 97 | 261 | 403 | 456 | 218 | -66 |
| Critical (15%) | -74 | -80 | -183 | 6 | -37 | -59 | 56 | 194 | 277 | 302 | 155 | -25 |

**Alt4**

| Statistic | Monthly Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 88 | 79 | 220 | 438 | 478 | 531 | 205 | 328 | 430 | 505 | 233 | 45 |
| 20% | -9 | -42 | 40 | 186 | 337 | 192 | 116 | 256 | 341 | 465 | 176 | -15 |
| 30% | -59 | -142 | -69 | 44 | 70 | 64 | 51 | 226 | 299 | 403 | 146 | -44 |
| 40% | -137 | -231 | -122 | -13 | -9 | -18 | 19 | 172 | 229 | 383 | 105 | -62 |
| 50% | -170 | -324 | -159 | -46 | -50 | -63 | -30 | 132 | 180 | 324 | 77 | -89 |
| 60% | -196 | -354 | -204 | -80 | -100 | -97 | -66 | 77 | 141 | 291 | 48 | -135 |
| 70% | -220 | -382 | -283 | -153 | -151 | -122 | -118 | 23 | 104 | 240 | 22 | -184 |

| Statistic | Monthly Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| 80% | -272 | -420 | -343 | -252 | -217 | -186 | -172 | -20 | 60 | 194 | -39 | -252 |
| 90% | -341 | -478 | -388 | -379 | -398 | -273 | -305 | -112 | -75 | 148 | -107 | -308 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | -146 | -244 | -106 | -15 | 15 | 23 | -33 | 111 | 189 | 321 | 76 | -120 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | -196 | -257 | 108 | 205 | 262 | 220 | -34 | -18 | 35 | 233 | 12 | -109 |
| Above Normal (12%) | -144 | -333 | -281 | 25 | -18 | 59 | -110 | 142 | 157 | 323 | 64 | -65 |
| Below Normal (24%) | -128 | -295 | -170 | -199 | -153 | -135 | -123 | 117 | 210 | 352 | 51 | -250 |
| Dry (17%) | -148 | -241 | -248 | -188 | -127 | -72 | 82 | 270 | 407 | 452 | 198 | -81 |
| Critical (15%) | -68 | -64 | -159 | -26 | -54 | -65 | 42 | 172 | 262 | 307 | 123 | -22 |

**Alt4 minus NAA**

| Statistic | Monthly Generation (GWh) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| Probability of Exceedance | | | | | | | | | | | | |
| 10% | 23 | 50 | -16 | -28 | 1 | -22 | -1 | -15 | -2 | -10 | -65 | -2 |
| 20% | -16 | -13 | 32 | -16 | -48 | -52 | -19 | -45 | -15 | 12 | -45 | -27 |
| 30% | -9 | -20 | 35 | -2 | -25 | -28 | -24 | -18 | -1 | 1 | -32 | -21 |
| 40% | -22 | -33 | 15 | -6 | -16 | -12 | -22 | -27 | -11 | 13 | -22 | -21 |
| 50% | -2 | -17 | 32 | 2 | -5 | 12 | -30 | -28 | -21 | -11 | -24 | -9 |
| 60% | -2 | -4 | 16 | -2 | -5 | 3 | -26 | -46 | -15 | -3 | -19 | -20 |
| 70% | -3 | 8 | -8 | -20 | -11 | 2 | -38 | -68 | 4 | -12 | 3 | -18 |
| 80% | -20 | -3 | 3 | -44 | -36 | -36 | -33 | -38 | 25 | -16 | -13 | -17 |
| 90% | -14 | -15 | 9 | -25 | -67 | -26 | -129 | -80 | 4 | -4 | -30 | -14 |
| Long Term | | | | | | | | | | | | |
| Full Simulation Period | -9 | -3 | 16 | -12 | -24 | -23 | -43 | -44 | 1 | -4 | -24 | -19 |
| Water Year Types | | | | | | | | | | | | |
| Wet (32%) | -11 | 11 | 21 | 7 | -33 | -55 | -68 | -74 | 10 | -6 | -9 | -24 |
| Above Normal (12%) | 12 | -22 | -11 | 1 | -30 | -19 | -72 | -52 | 9 | -24 | -20 | -20 |
| Below Normal (24%) | -2 | -26 | 17 | -17 | -15 | -10 | -35 | -50 | -5 | 1 | -46 | -27 |
| Dry (17%) | -46 | -2 | 17 | -32 | -24 | 0 | -15 | 9 | 4 | -4 | -19 | -15 |
| Critical (15%) | 6 | 16 | 24 | -32 | -17 | -6 | -14 | -22 | -15 | 6 | -33 | 2 |

Figure 9-1. CVP and SWP Net Generation, Long-Term Average Generation
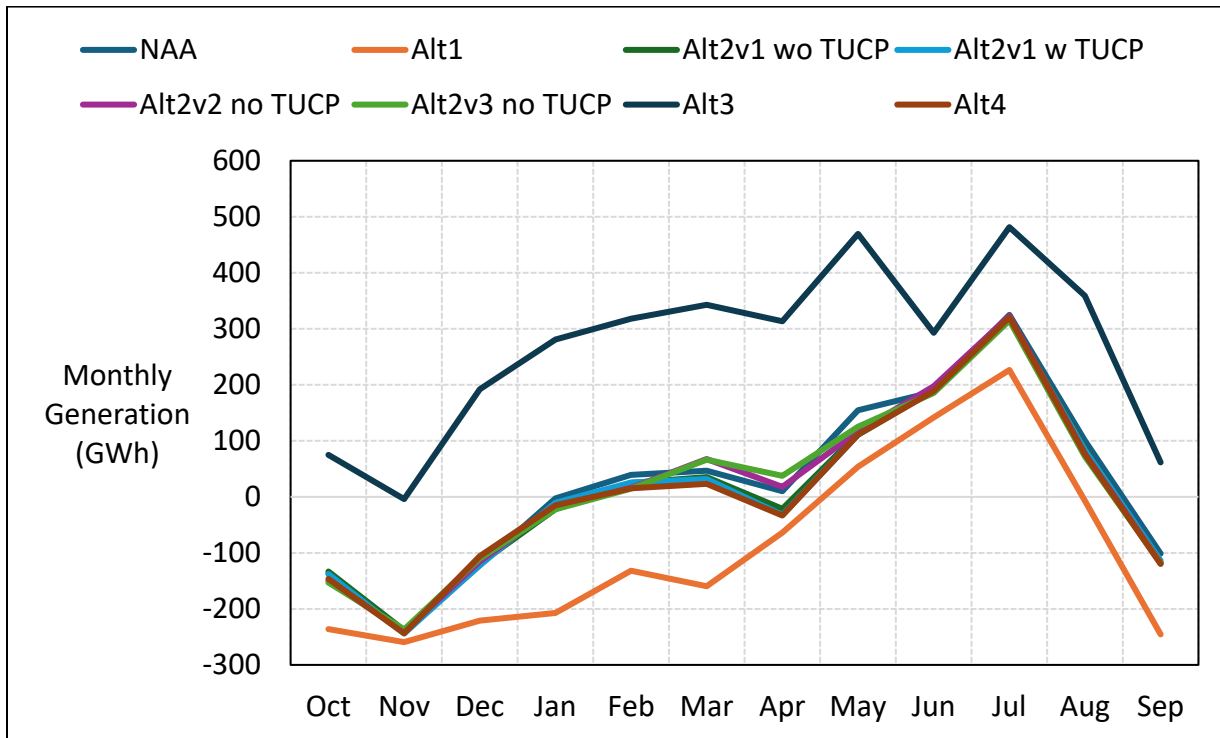


Figure 9-2. CVP and SWP Net Generation, Wet Year Average Generation
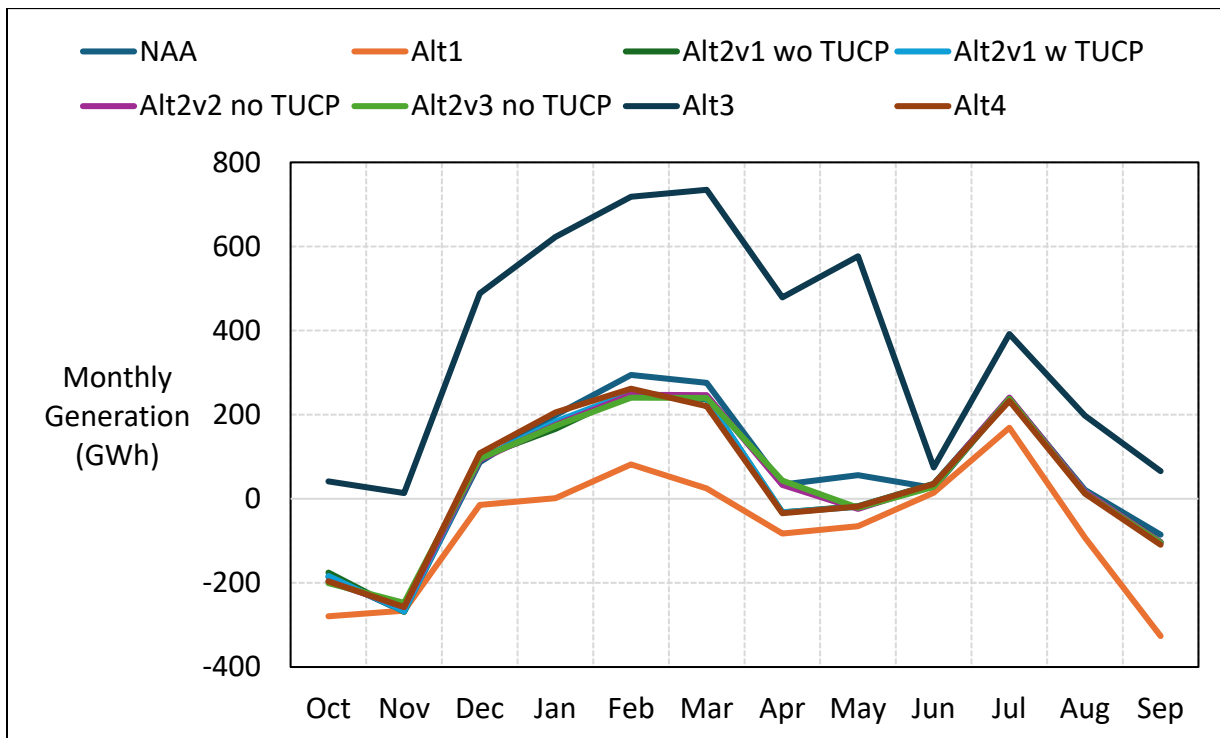
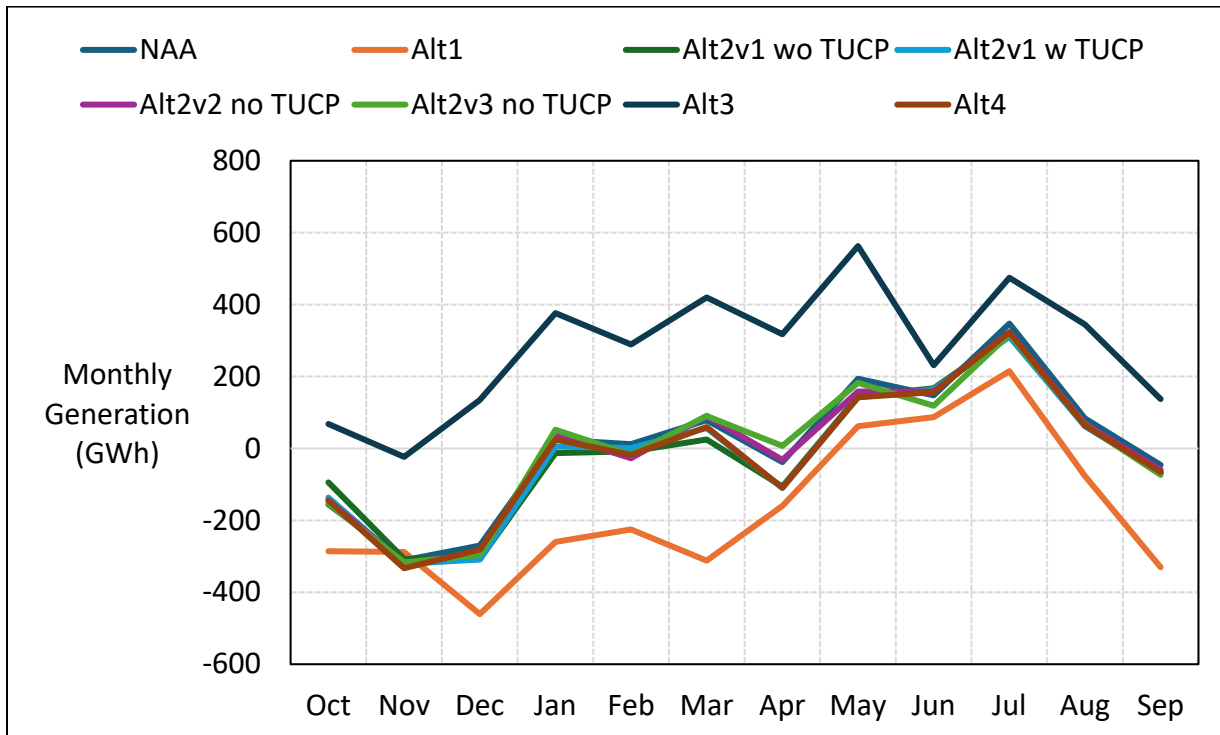Figure 9-3. CVP and SWP Net Generation, Above Normal Year Average Generation



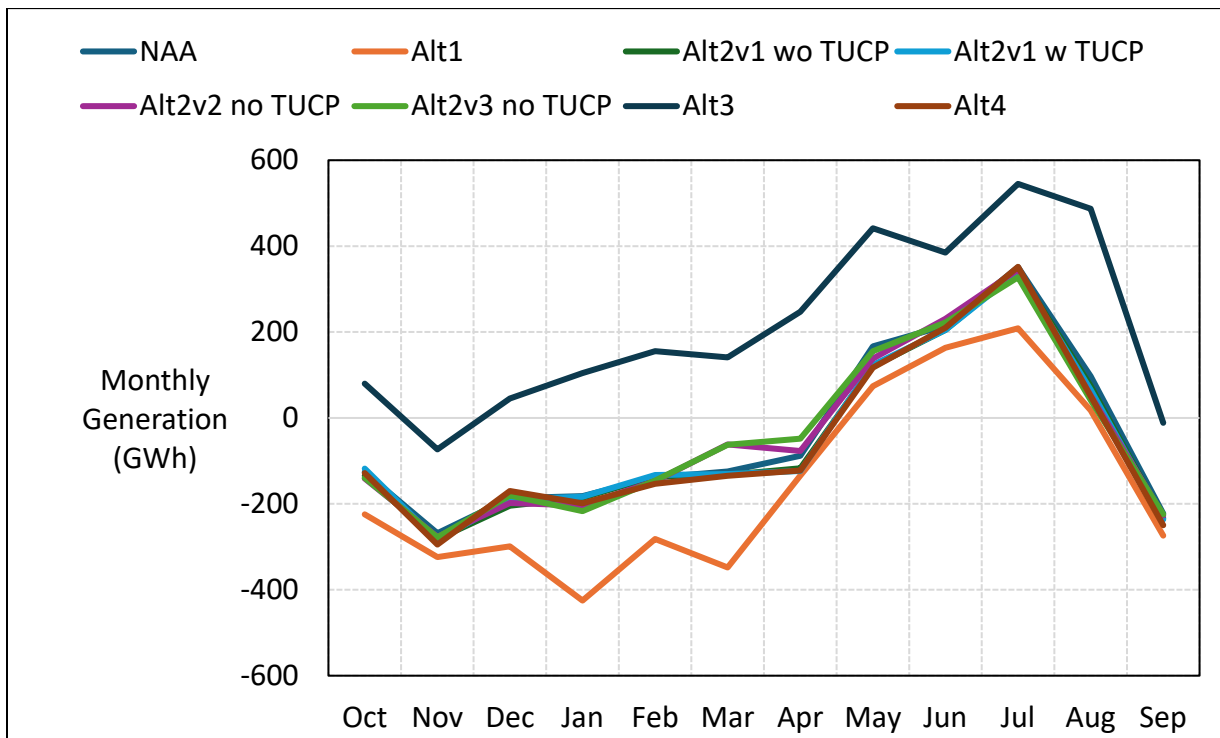Figure 9-4. CVP and SWP Net Generation, Below Normal Year Average Generation

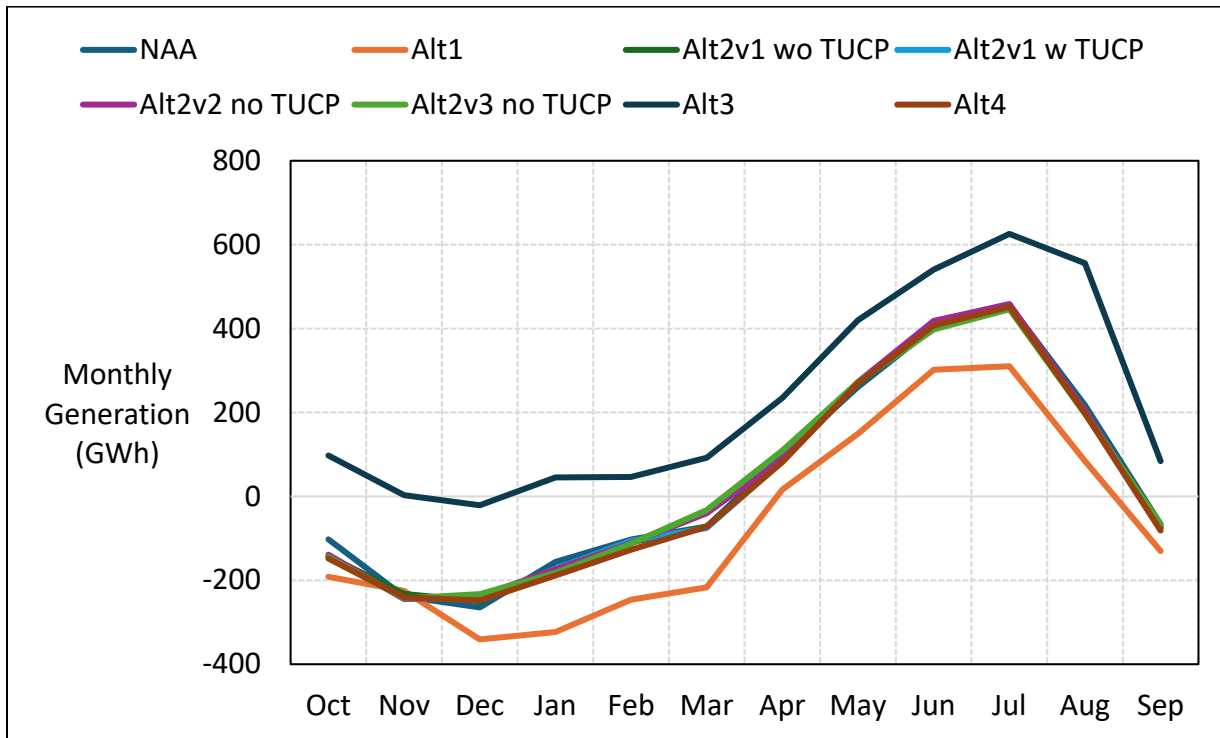Figure 9-5. CVP and SWP Net Generation, Dry Year Average Generation



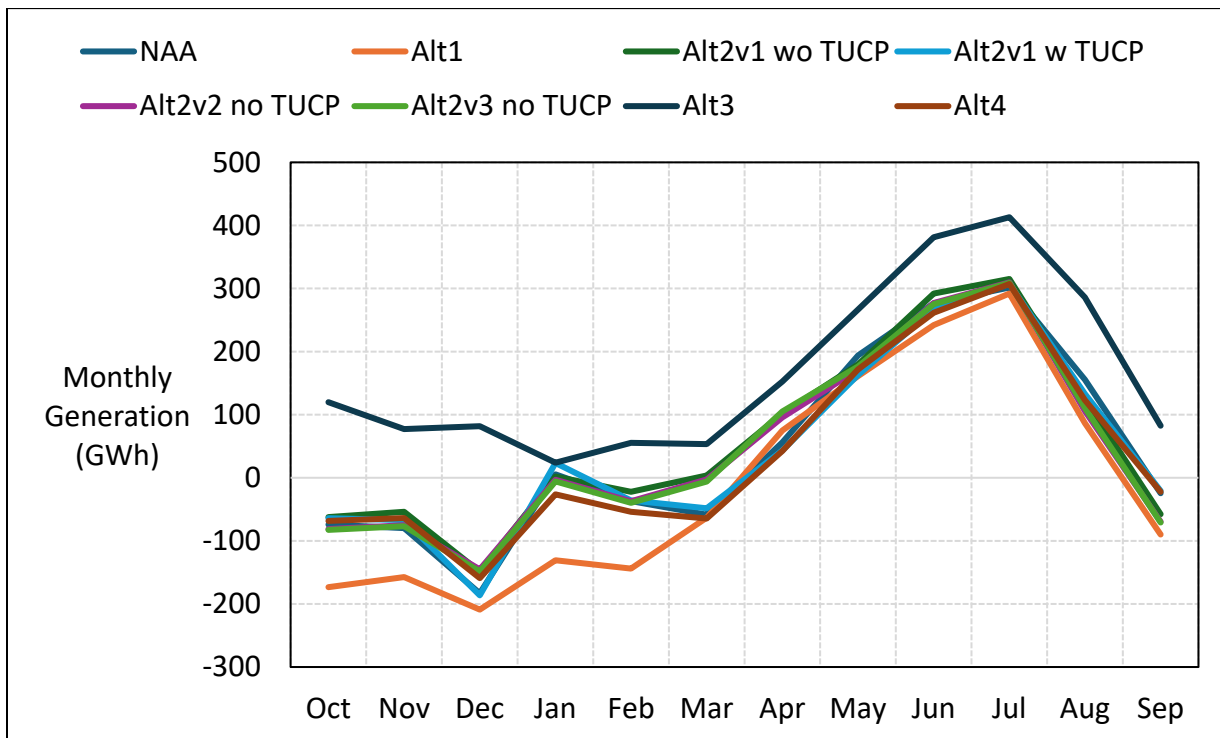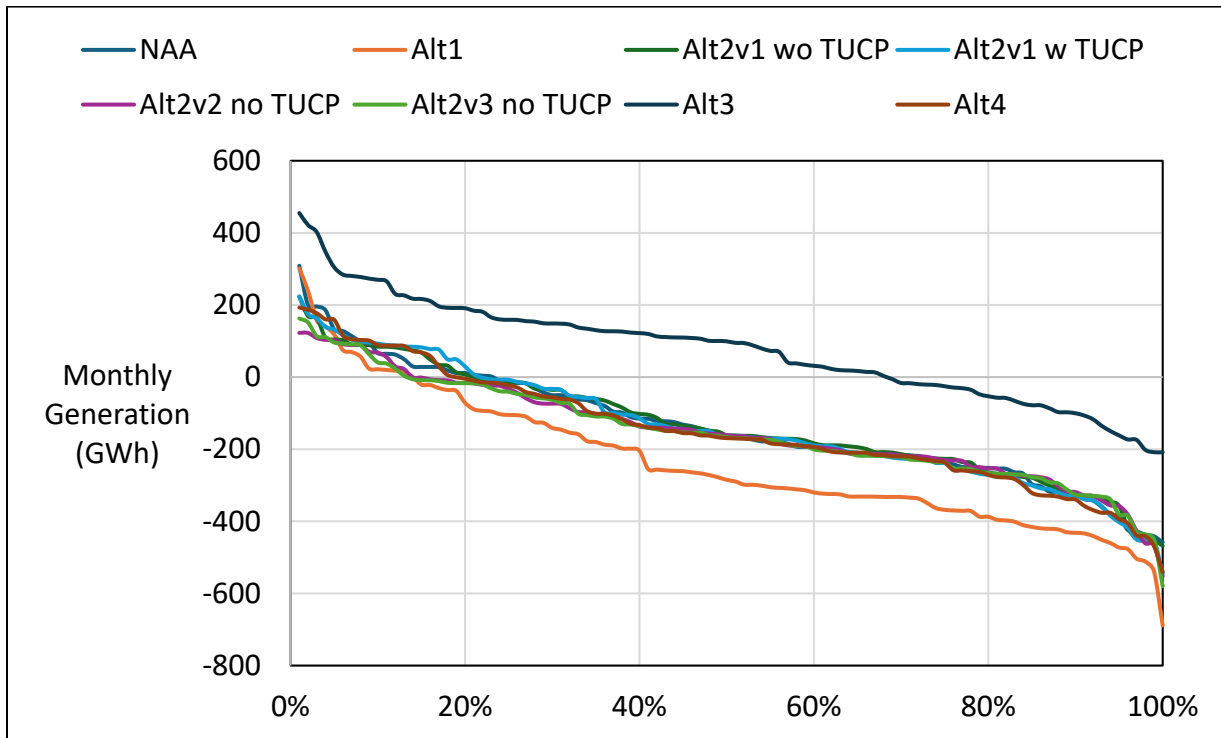Figure 9-6. CVP and SWP Net Generation, Critical Year Average Generation

Figure 9-7. CVP and SWP Net Generation, October



Figure 9-8. CVP and SWP Net Generation, November
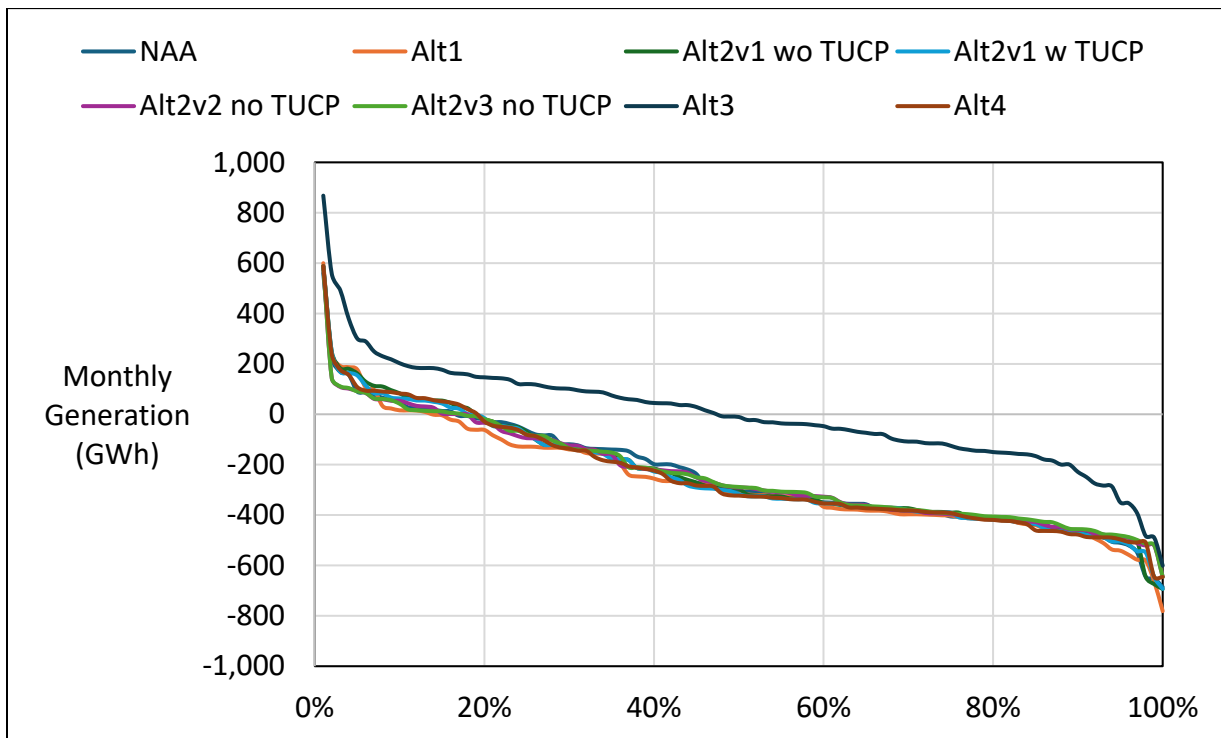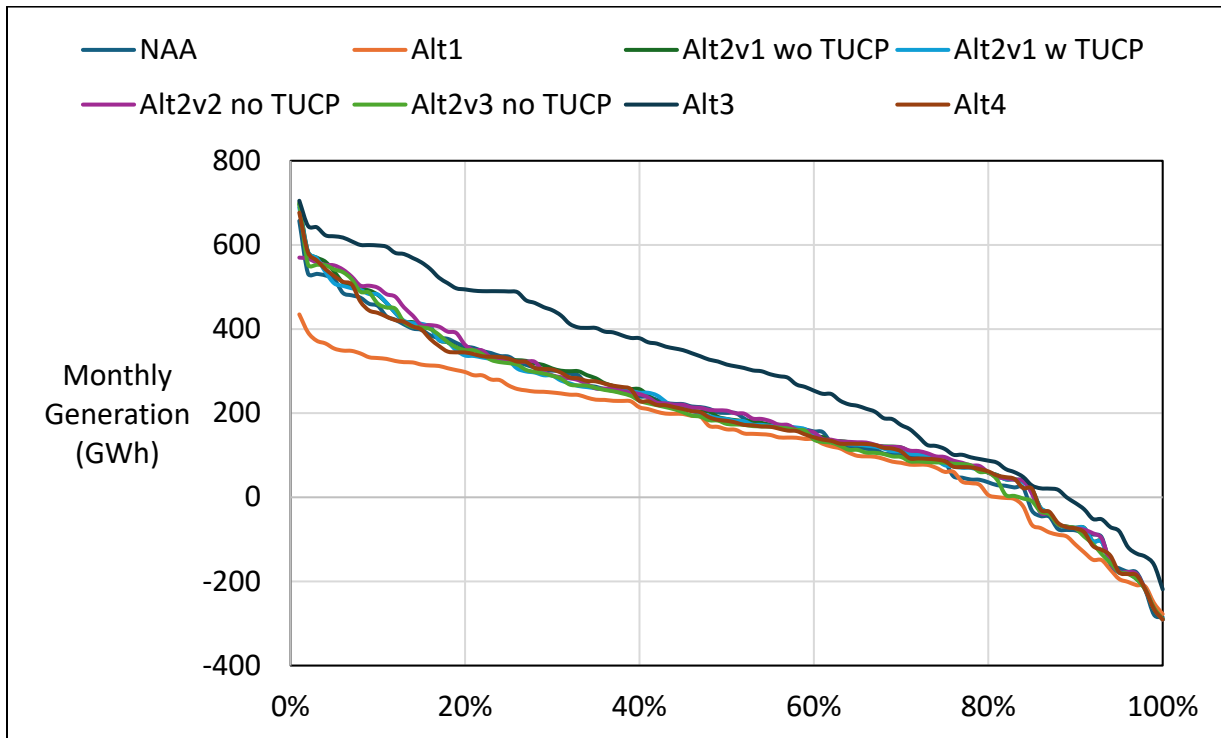
Figure 9-9. CVP and SWP Net Generation, December
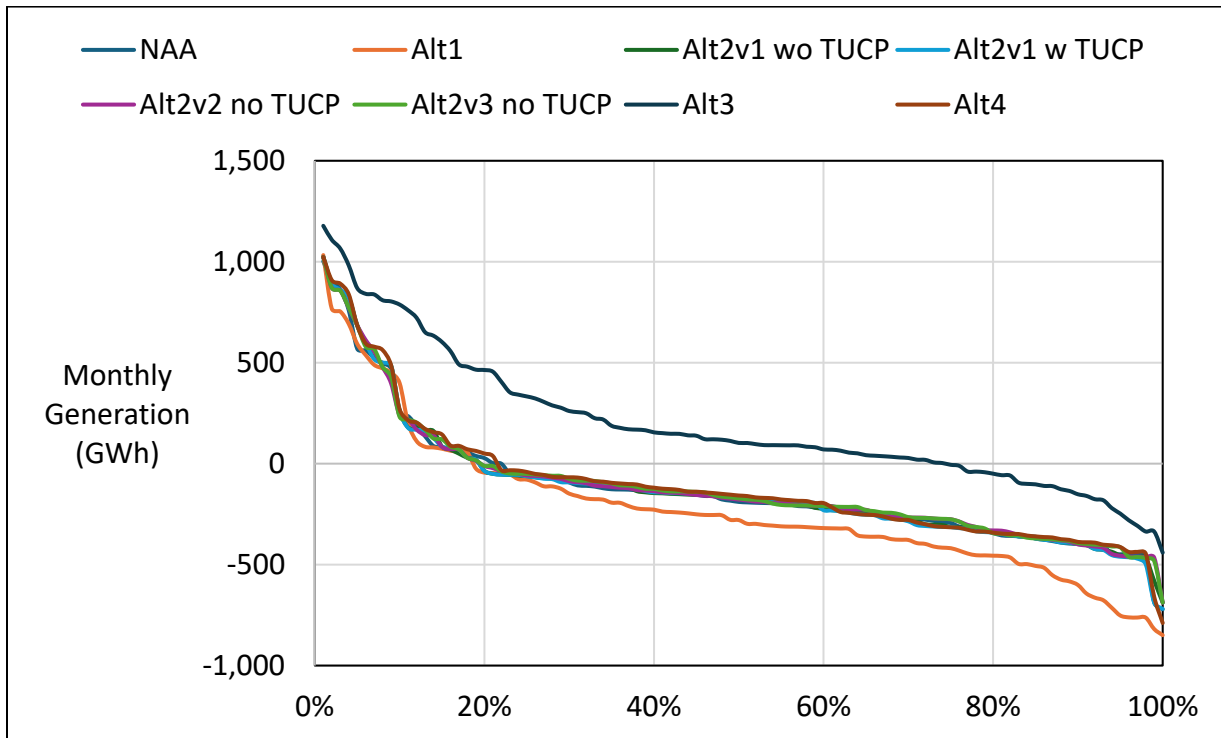


Figure 9-10. CVP and SWP Net Generation, January
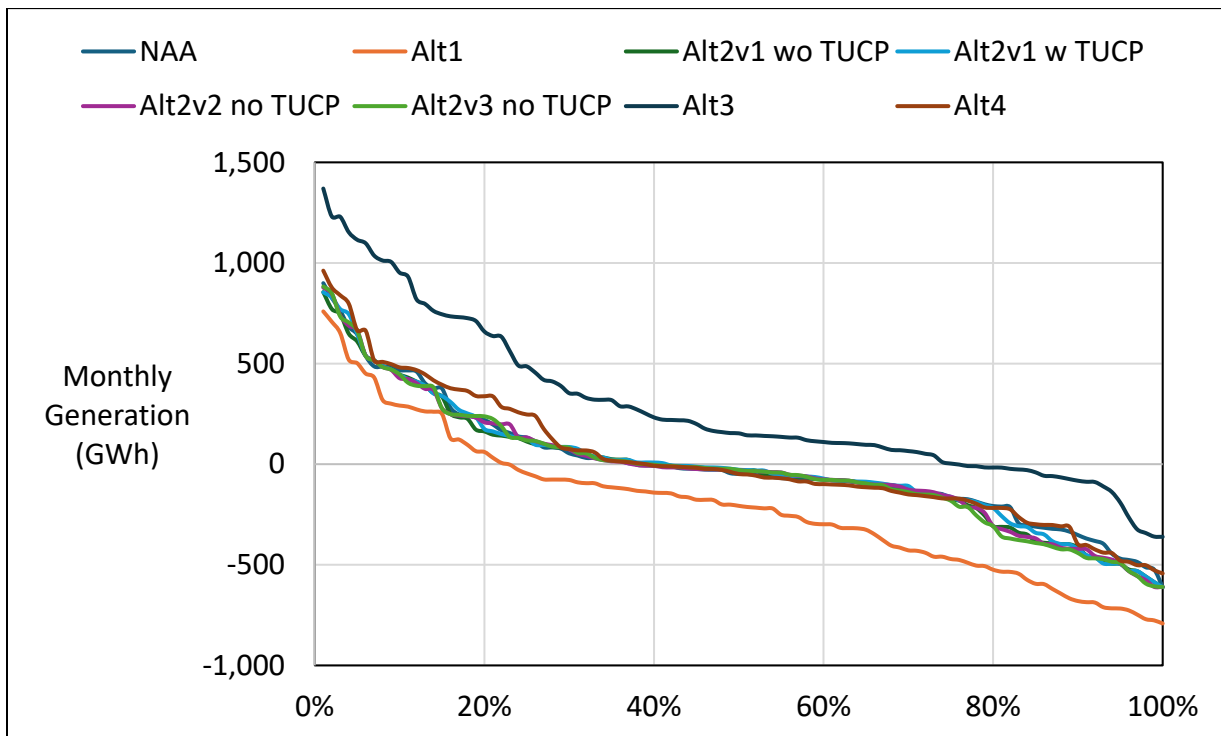
Figure 9-11. CVP and SWP Net Generation, February
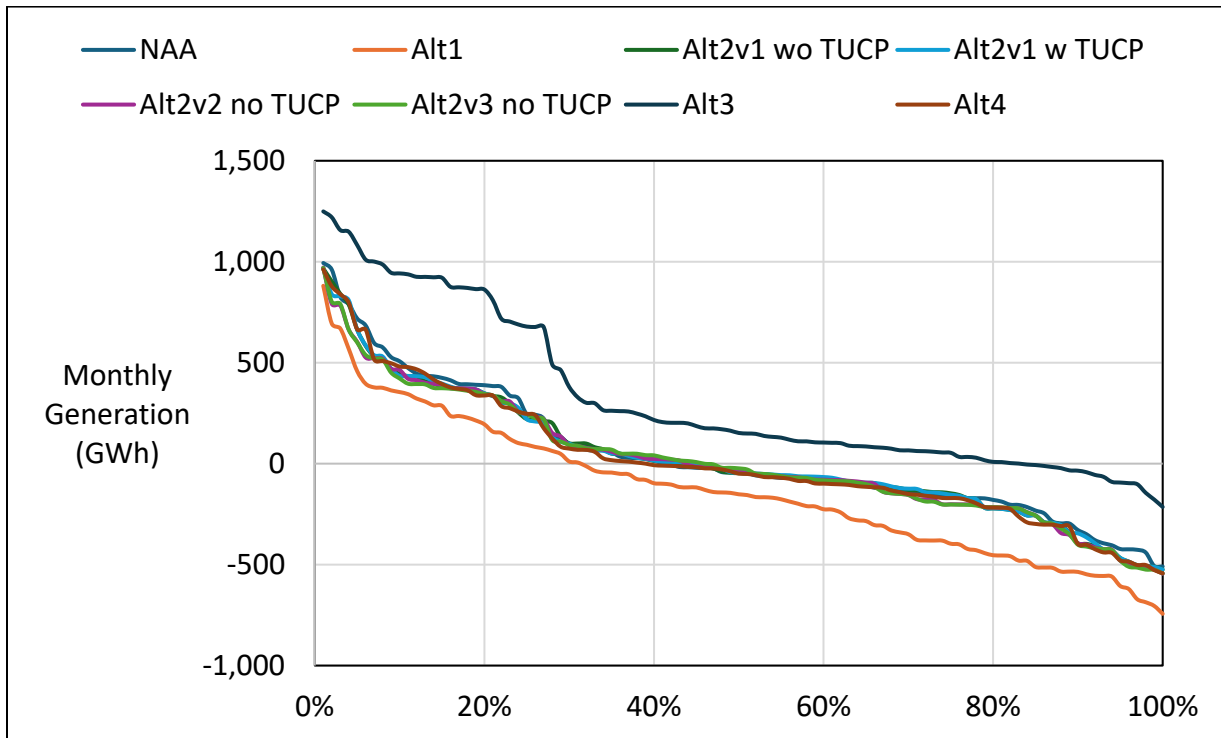


Figure 9-12. CVP and SWP Net Generation, March
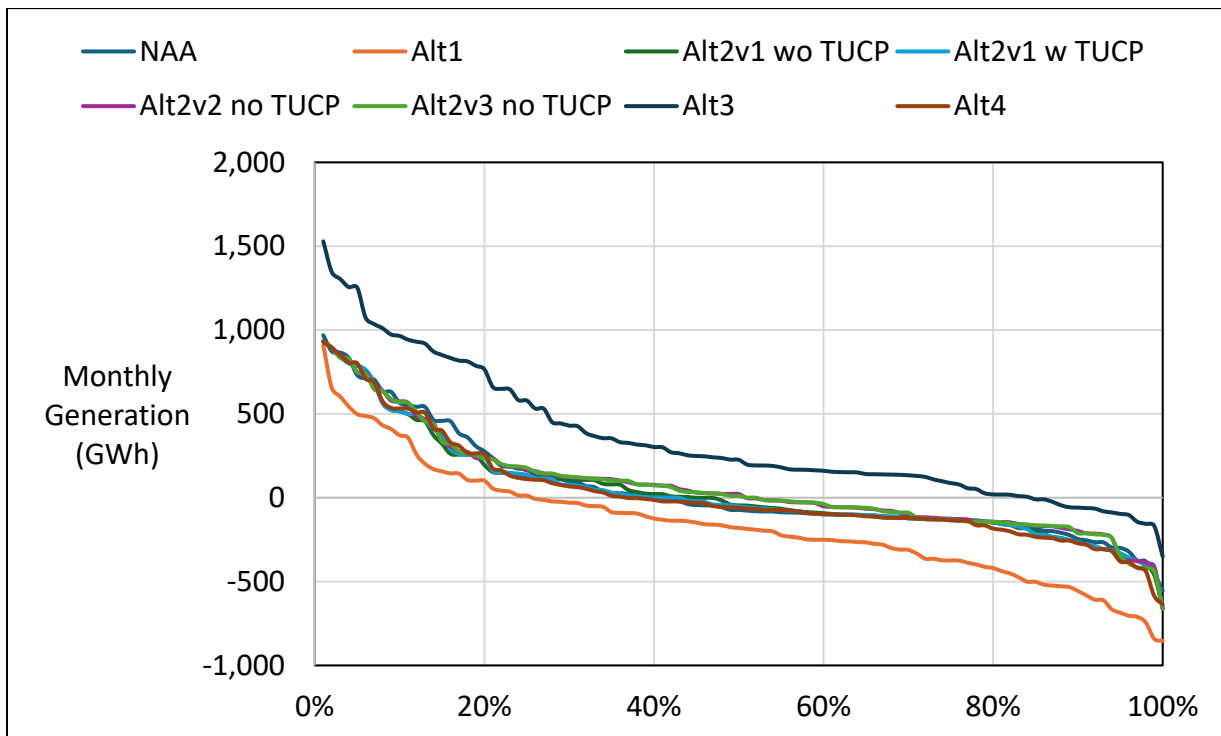
Figure 9-13. CVP and SWP Net Generation, April
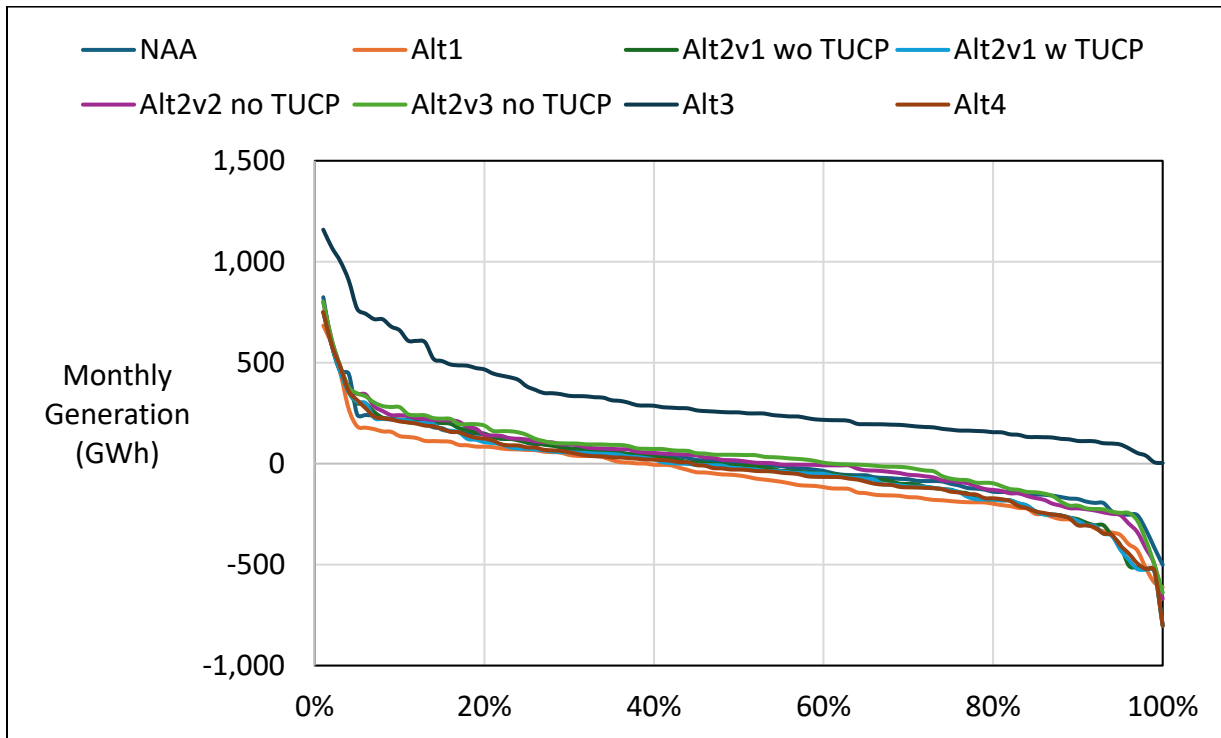


Figure 9-14. CVP and SWP Net Generation, May
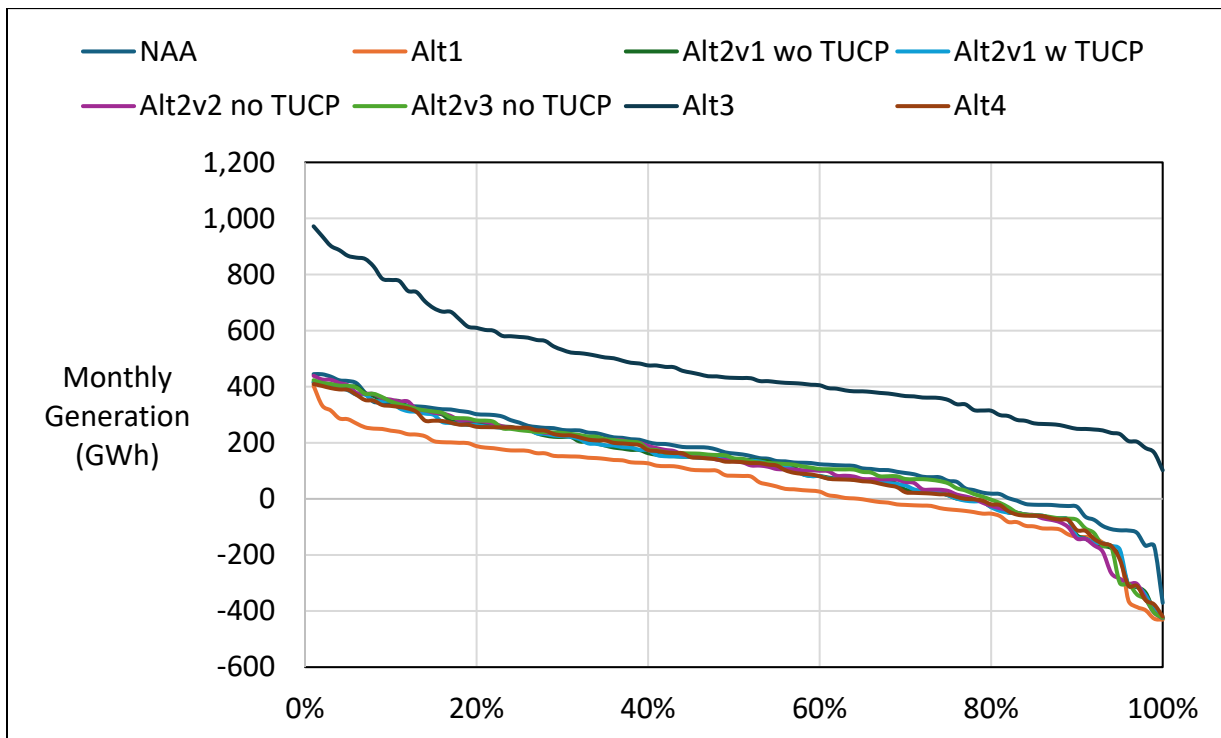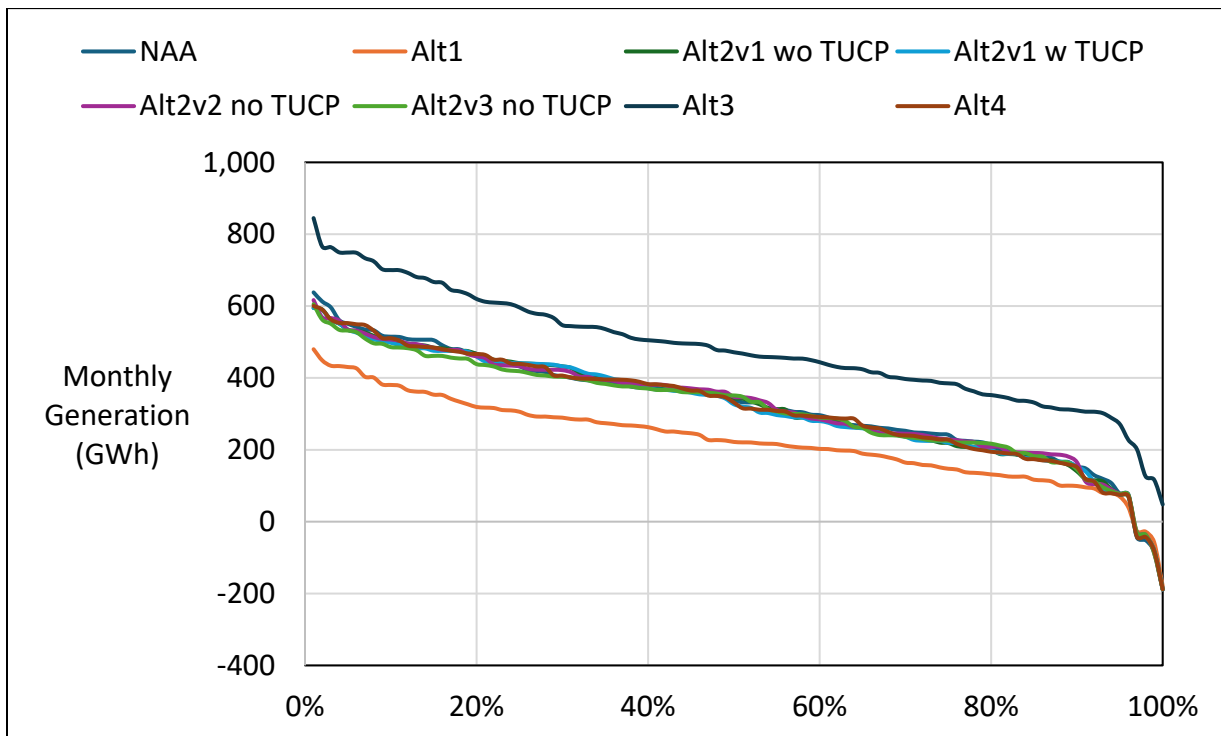
Figure 9-15. CVP and SWP Net Generation, June



Figure 9-16. CVP and SWP Net Generation, July
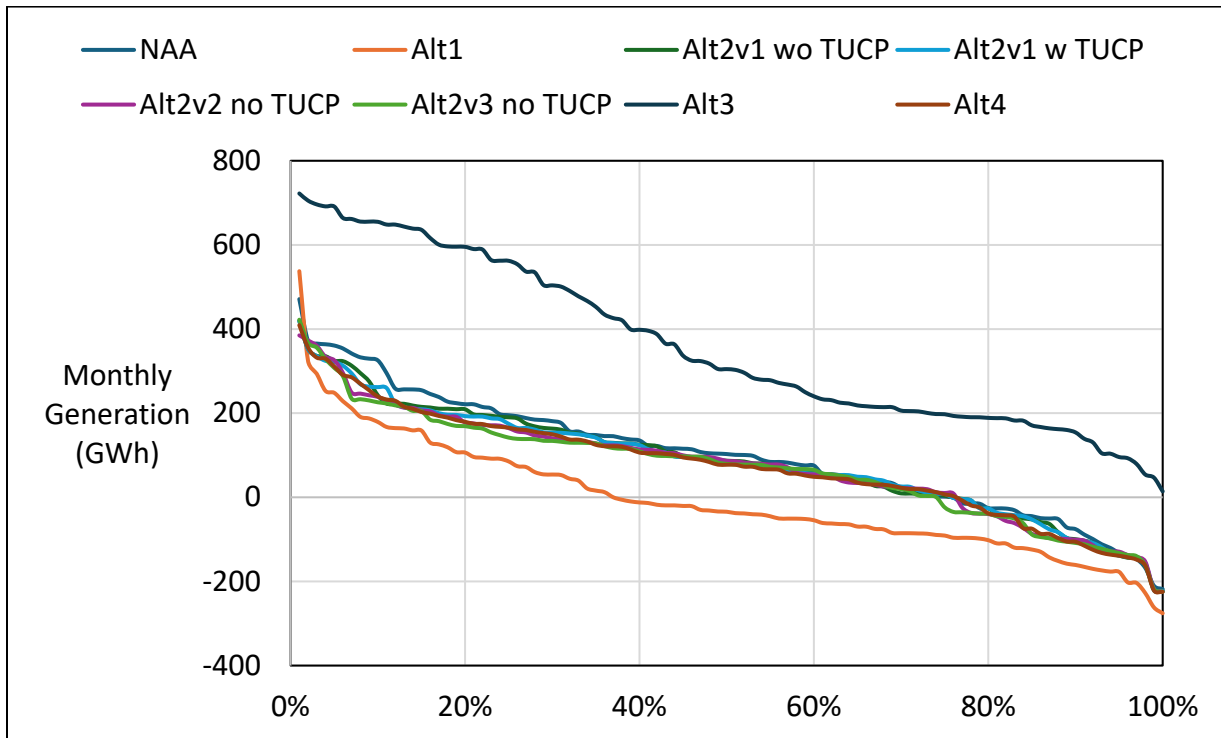
Figure 9-17. CVP and SWP Net Generation, August



Figure 9-18. CVP and SWP Net Generation, September
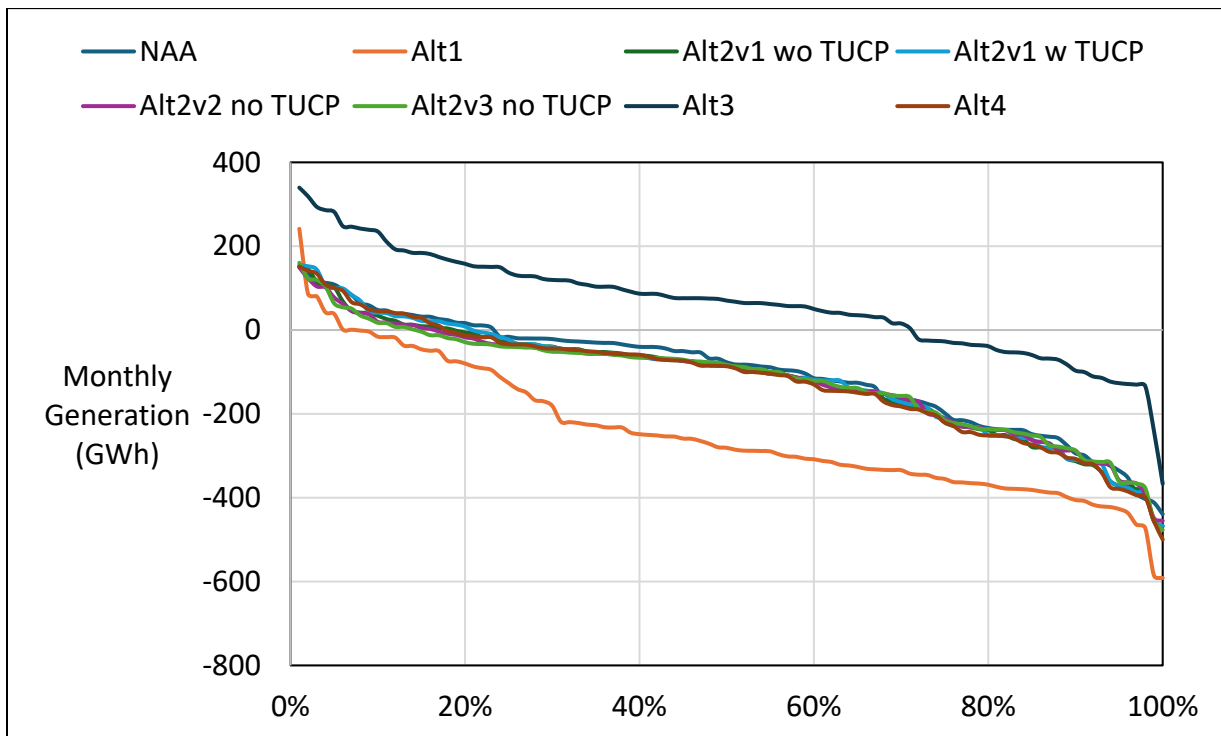
## Table 2a-1. Annual CVP Total Generation

**NAA**

| Statistic | Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 6,211 |
| 20% | 5,498 |
| 30% | 5,194 |
| 40% | 4,852 |
| 50% | 4,349 |
| 60% | 4,005 |
| 70% | 3,759 |
| 80% | 3,316 |
| 90% | 2,663 |
| Long Term | |
| Full Simulation Period | 4,462 |
| Water Year Types | |
| Wet (32%) | 5,875 |
| Above Normal (12%) | 4,786 |
| Below Normal (24%) | 4,081 |
| Dry (17%) | 3,748 |
| Critical (15%) | 2,608 |

**Alt1**

| Statistic | Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 6,247 |
| 20% | 5,714 |
| 30% | 5,224 |
| 40% | 4,958 |
| 50% | 4,469 |
| 60% | 4,061 |
| 70% | 3,697 |
| 80% | 3,416 |
| 90% | 2,769 |
| Long Term | |
| Full Simulation Period | 4,537 |
| Water Year Types | |
| Wet (32%) | 5,920 |
| Above Normal (12%) | 4,813 |
| Below Normal (24%) | 4,197 |
| Dry (17%) | 3,804 |
| Critical (15%) | 2,736 |

**Alt1 minus NAA**

| Statistic | Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 35 |
| 20% | 216 |
| 30% | 30 |

| Statistic | Generation (GWh) |
|---|---:|
| 40% | 105 |
| 50% | 120 |
| 60% | 56 |
| 70% | -63 |
| 80% | 100 |
| 90% | 106 |
| Long Term | |
| Full Simulation Period | 74 |
| Water Year Types | |
| Wet (32%) | 45 |
| Above Normal (12%) | 26 |
| Below Normal (24%) | 116 |
| Dry (17%) | 56 |
| Critical (15%) | 129 |

Table 2a-2. Annual CVP Total Generation

**NAA**

| Statistic | Generation (GWh) |
|---|---:|
| Probability of Exceedance | |
| 10% | 6,211 |
| 20% | 5,498 |
| 30% | 5,194 |
| 40% | 4,852 |
| 50% | 4,349 |
| 60% | 4,005 |
| 70% | 3,759 |
| 80% | 3,316 |
| 90% | 2,663 |
| Long Term | |
| Full Simulation Period | 4,462 |
| Water Year Types | |
| Wet (32%) | 5,875 |
| Above Normal (12%) | 4,786 |
| Below Normal (24%) | 4,081 |
| Dry (17%) | 3,748 |
| Critical (15%) | 2,608 |

**Alt2v1 wo TUCP**

| Statistic | Generation (GWh) |
|---|---:|
| Probability of Exceedance | |
| 10% | 6,327 |
| 20% | 5,494 |
| 30% | 5,179 |
| 40% | 4,874 |
| 50% | 4,448 |
| 60% | 4,008 |

| Statistic | Generation (GWh) |
|---|---|
| 70% | 3,720 |
| 80% | 3,250 |
| 90% | 2,735 |
| Long Term | |
| Full Simulation Period | 4,480 |
| Water Year Types | |
| Wet (32%) | 5,899 |
| Above Normal (12%) | 4,745 |
| Below Normal (24%) | 4,114 |
| Dry (17%) | 3,753 |
| Critical (15%) | 2,653 |

**Alt2v1 wo TUCP minus NAA**

| Statistic | Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 115 |
| 20% | -4 |
| 30% | -15 |
| 40% | 22 |
| 50% | 99 |
| 60% | 3 |
| 70% | -40 |
| 80% | -66 |
| 90% | 73 |
| Long Term | |
| Full Simulation Period | 18 |
| Water Year Types | |
| Wet (32%) | 24 |
| Above Normal (12%) | -41 |
| Below Normal (24%) | 33 |
| Dry (17%) | 5 |
| Critical (15%) | 45 |

Table 2a-3. Annual CVP Total Generation

**NAA**

| Statistic | Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 6,211 |
| 20% | 5,498 |
| 30% | 5,194 |
| 40% | 4,852 |
| 50% | 4,349 |
| 60% | 4,005 |
| 70% | 3,759 |
| 80% | 3,316 |
| 90% | 2,663 |

| Statistic | Generation (GWh) |
|---|---|
| Long Term | |
| Full Simulation Period | 4,462 |
| Water Year Types | |
| Wet (32%) | 5,875 |
| Above Normal (12%) | 4,786 |
| Below Normal (24%) | 4,081 |
| Dry (17%) | 3,748 |
| Critical (15%) | 2,608 |

**Alt2v1 w TUCP**

| Statistic | Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 6,327 |
| 20% | 5,495 |
| 30% | 5,189 |
| 40% | 4,874 |
| 50% | 4,494 |
| 60% | 4,026 |
| 70% | 3,755 |
| 80% | 3,367 |
| 90% | 2,646 |
| Long Term | |
| Full Simulation Period | 4,494 |
| Water Year Types | |
| Wet (32%) | 5,907 |
| Above Normal (12%) | 4,799 |
| Below Normal (24%) | 4,153 |
| Dry (17%) | 3,763 |
| Critical (15%) | 2,611 |

**Alt2v1 w TUCP minus NAA**

| Statistic | Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 116 |
| 20% | -3 |
| 30% | -4 |
| 40% | 22 |
| 50% | 145 |
| 60% | 21 |
| 70% | -4 |
| 80% | 50 |
| 90% | -17 |
| Long Term | |
| Full Simulation Period | 32 |
| Water Year Types | |
| Wet (32%) | 32 |
| Above Normal (12%) | 13 |
| Below Normal (24%) | 72 |
| Dry (17%) | 15 |

| Statistic | Generation (GWh) |
|---|---|
| Critical (15%) | 4 |

## Table 2a-4. Annual CVP Total Generation

**NAA**

| Statistic | Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 6,211 |
| 20% | 5,498 |
| 30% | 5,194 |
| 40% | 4,852 |
| 50% | 4,349 |
| 60% | 4,005 |
| 70% | 3,759 |
| 80% | 3,316 |
| 90% | 2,663 |
| Long Term | |
| Full Simulation Period | 4,462 |
| Water Year Types | |
| Wet (32%) | 5,875 |
| Above Normal (12%) | 4,786 |
| Below Normal (24%) | 4,081 |
| Dry (17%) | 3,748 |
| Critical (15%) | 2,608 |

**Alt2v2 no TUCP**

| Statistic | Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 6,284 |
| 20% | 5,505 |
| 30% | 5,115 |
| 40% | 4,854 |
| 50% | 4,454 |
| 60% | 3,990 |
| 70% | 3,725 |
| 80% | 3,233 |
| 90% | 2,739 |
| Long Term | |
| Full Simulation Period | 4,478 |
| Water Year Types | |
| Wet (32%) | 5,897 |
| Above Normal (12%) | 4,756 |
| Below Normal (24%) | 4,106 |
| Dry (17%) | 3,749 |
| Critical (15%) | 2,652 |

**Alt2v2 no TUCP minus NAA**

| Statistic | Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 73 |
| 20% | 7 |
| 30% | -79 |
| 40% | 1 |
| 50% | 105 |
| 60% | -15 |
| 70% | -34 |
| 80% | -84 |
| 90% | 76 |
| Long Term | |
| Full Simulation Period | 16 |
| Water Year Types | |
| Wet (32%) | 22 |
| Above Normal (12%) | -30 |
| Below Normal (24%) | 25 |
| Dry (17%) | 1 |
| Critical (15%) | 44 |

Table 2a-5. Annual CVP Total Generation

**NAA**

| Statistic | Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 6,211 |
| 20% | 5,498 |
| 30% | 5,194 |
| 40% | 4,852 |
| 50% | 4,349 |
| 60% | 4,005 |
| 70% | 3,759 |
| 80% | 3,316 |
| 90% | 2,663 |
| Long Term | |
| Full Simulation Period | 4,462 |
| Water Year Types | |
| Wet (32%) | 5,875 |
| Above Normal (12%) | 4,786 |
| Below Normal (24%) | 4,081 |
| Dry (17%) | 3,748 |
| Critical (15%) | 2,608 |

**Alt2v3 no TUCP**

| Statistic | Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 6,323 |

| Statistic | Generation (GWh) |
|---|---|
| 20% | 5,502 |
| 30% | 5,139 |
| 40% | 4,862 |
| 50% | 4,435 |
| 60% | 3,982 |
| 70% | 3,667 |
| 80% | 3,313 |
| 90% | 2,725 |
| Long Term | |
| Full Simulation Period | 4,479 |
| Water Year Types | |
| Wet (32%) | 5,907 |
| Above Normal (12%) | 4,762 |
| Below Normal (24%) | 4,110 |
| Dry (17%) | 3,703 |
| Critical (15%) | 2,677 |

**Alt2v3 no TUCP minus NAA**

| Statistic | Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 112 |
| 20% | 4 |
| 30% | -54 |
| 40% | 10 |
| 50% | 86 |
| 60% | -23 |
| 70% | -93 |
| 80% | -3 |
| 90% | 62 |
| Long Term | |
| Full Simulation Period | 17 |
| Water Year Types | |
| Wet (32%) | 32 |
| Above Normal (12%) | -24 |
| Below Normal (24%) | 29 |
| Dry (17%) | -45 |
| Critical (15%) | 70 |

Table 2a-6. Annual CVP Total Generation

**NAA**

| Statistic | Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 6,211 |
| 20% | 5,498 |
| 30% | 5,194 |
| 40% | 4,852 |

| Statistic | Generation (GWh) |
|---|---|
| 50% | 4,349 |
| 60% | 4,005 |
| 70% | 3,759 |
| 80% | 3,316 |
| 90% | 2,663 |
| Long Term | |
| Full Simulation Period | 4,462 |
| Water Year Types | |
| Wet (32%) | 5,875 |
| Above Normal (12%) | 4,786 |
| Below Normal (24%) | 4,081 |
| Dry (17%) | 3,748 |
| Critical (15%) | 2,608 |

**Alt3**

| Statistic | Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 6,262 |
| 20% | 5,631 |
| 30% | 5,268 |
| 40% | 4,791 |
| 50% | 4,300 |
| 60% | 3,917 |
| 70% | 3,653 |
| 80% | 3,292 |
| 90% | 2,657 |
| Long Term | |
| Full Simulation Period | 4,482 |
| Water Year Types | |
| Wet (32%) | 6,001 |
| Above Normal (12%) | 4,783 |
| Below Normal (24%) | 4,000 |
| Dry (17%) | 3,697 |
| Critical (15%) | 2,662 |

**Alt3 minus NAA**

| Statistic | Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 51 |
| 20% | 133 |
| 30% | 74 |
| 40% | -62 |
| 50% | -49 |
| 60% | -88 |
| 70% | -106 |
| 80% | -24 |
| 90% | -6 |
| Long Term | |
| Full Simulation Period | 20 |

| Statistic | Generation (GWh) |
|---|---|
| Water Year Types | |
| Wet (32%) | 125 |
| Above Normal (12%) | -3 |
| Below Normal (24%) | -81 |
| Dry (17%) | -51 |
| Critical (15%) | 54 |

Table 2a-7. Annual CVP Total Generation

**NAA**

| Statistic | Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 6,211 |
| 20% | 5,498 |
| 30% | 5,194 |
| 40% | 4,852 |
| 50% | 4,349 |
| 60% | 4,005 |
| 70% | 3,759 |
| 80% | 3,316 |
| 90% | 2,663 |
| Long Term | |
| Full Simulation Period | 4,462 |
| Water Year Types | |
| Wet (32%) | 5,875 |
| Above Normal (12%) | 4,786 |
| Below Normal (24%) | 4,081 |
| Dry (17%) | 3,748 |
| Critical (15%) | 2,608 |

**Alt4**

| Statistic | Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 6,325 |
| 20% | 5,487 |
| 30% | 5,177 |
| 40% | 4,874 |
| 50% | 4,422 |
| 60% | 4,055 |
| 70% | 3,775 |
| 80% | 3,334 |
| 90% | 2,597 |
| Long Term | |
| Full Simulation Period | 4,494 |
| Water Year Types | |
| Wet (32%) | 5,897 |
| Above Normal (12%) | 4,791 |

| Statistic | Generation (GWh) |
|---|---|
| Below Normal (24%) | 4,145 |
| Dry (17%) | 3,770 |
| Critical (15%) | 2,641 |

**Alt4 minus NAA**

| Statistic | Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 113 |
| 20% | -11 |
| 30% | -16 |
| 40% | 22 |
| 50% | 73 |
| 60% | 50 |
| 70% | 16 |
| 80% | 18 |
| 90% | -66 |
| Long Term | |
| Full Simulation Period | 32 |
| Water Year Types | |
| Wet (32%) | 22 |
| Above Normal (12%) | 5 |
| Below Normal (24%) | 64 |
| Dry (17%) | 22 |
| Critical (15%) | 33 |

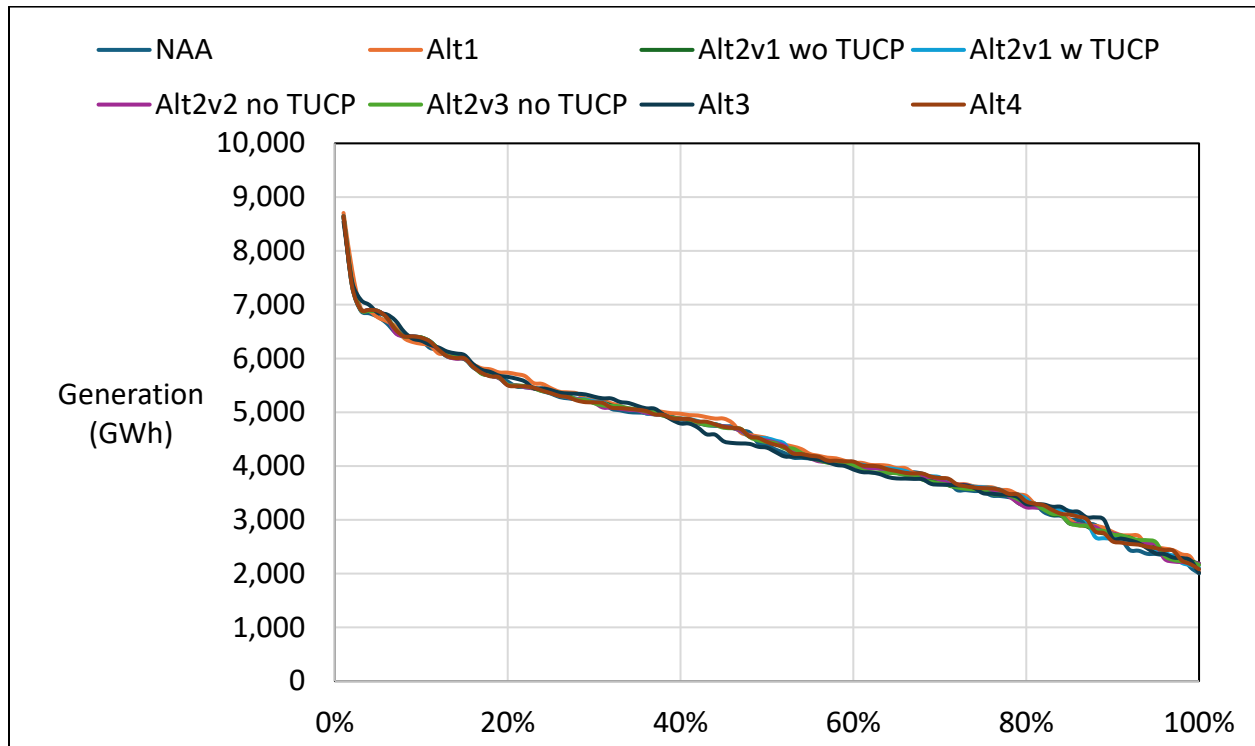## Figure 2a-1. October-September CVP Total Generation



## Table 3a-1. Annual CVP Total Energy Use

**NAA**

| Statistic | Energy Use (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 2,095 |
| 20% | 1,957 |
| 30% | 1,830 |
| 40% | 1,720 |
| 50% | 1,608 |
| 60% | 1,440 |
| 70% | 1,310 |
| 80% | 1,104 |
| 90% | 863 |
| Long Term | |
| Full Simulation Period | 1,531 |
| Water Year Types | |
| Wet (32%) | 1,950 |
| Above Normal (12%) | 1,694 |
| Below Normal (24%) | 1,529 |
| Dry (17%) | 1,287 |
| Critical (15%) | 786 |

**Alt1**

| Statistic | Energy Use (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 2,228 |
| 20% | 2,166 |
| 30% | 2,090 |
| 40% | 2,017 |
| 50% | 1,834 |
| 60% | 1,676 |
| 70% | 1,444 |
| 80% | 1,262 |
| 90% | 1,013 |
| Long Term | |
| Full Simulation Period | 1,719 |
| Water Year Types | |
| Wet (32%) | 2,133 |
| Above Normal (12%) | 2,034 |
| Below Normal (24%) | 1,726 |
| Dry (17%) | 1,424 |
| Critical (15%) | 911 |

**Alt1 minus NAA**

| Statistic | Energy Use (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 133 |
| 20% | 209 |
| 30% | 260 |
| 40% | 297 |
| 50% | 226 |
| 60% | 237 |
| 70% | 134 |
| 80% | 158 |
| 90% | 149 |
| Long Term | |
| Full Simulation Period | 189 |
| Water Year Types | |
| Wet (32%) | 183 |
| Above Normal (12%) | 340 |
| Below Normal (24%) | 197 |
| Dry (17%) | 137 |
| Critical (15%) | 125 |

Table 3a-2. Annual CVP Total Energy Use

**NAA**

| Statistic | Energy Use (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 2,095 |

| Statistic | Energy Use (GWh) |
|---|---|
| 20% | 1,957 |
| 30% | 1,830 |
| 40% | 1,720 |
| 50% | 1,608 |
| 60% | 1,440 |
| 70% | 1,310 |
| 80% | 1,104 |
| 90% | 863 |
| Long Term | |
| Full Simulation Period | 1,531 |
| Water Year Types | |
| Wet (32%) | 1,950 |
| Above Normal (12%) | 1,694 |
| Below Normal (24%) | 1,529 |
| Dry (17%) | 1,287 |
| Critical (15%) | 786 |

**Alt2v1 wo TUCP**

| Statistic | Energy Use (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 2,146 |
| 20% | 1,988 |
| 30% | 1,847 |
| 40% | 1,741 |
| 50% | 1,593 |
| 60% | 1,428 |
| 70% | 1,257 |
| 80% | 1,099 |
| 90% | 839 |
| Long Term | |
| Full Simulation Period | 1,536 |
| Water Year Types | |
| Wet (32%) | 1,989 |
| Above Normal (12%) | 1,722 |
| Below Normal (24%) | 1,516 |
| Dry (17%) | 1,221 |
| Critical (15%) | 810 |

**Alt2v1 wo TUCP minus NAA**

| Statistic | Energy Use (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 51 |
| 20% | 31 |
| 30% | 17 |
| 40% | 21 |
| 50% | -15 |
| 60% | -11 |
| 70% | -53 |
| 80% | -5 |

| Statistic | Energy Use (GWh) |
|---|---|
| 90% | -24 |
| Long Term | |
| Full Simulation Period | 5 |
| Water Year Types | |
| Wet (32%) | 40 |
| Above Normal (12%) | 28 |
| Below Normal (24%) | -12 |
| Dry (17%) | -66 |
| Critical (15%) | 24 |

## Table 3a-3. Annual CVP Total Energy Use

**NAA**

| Statistic | Energy Use (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 2,095 |
| 20% | 1,957 |
| 30% | 1,830 |
| 40% | 1,720 |
| 50% | 1,608 |
| 60% | 1,440 |
| 70% | 1,310 |
| 80% | 1,104 |
| 90% | 863 |
| Long Term | |
| Full Simulation Period | 1,531 |
| Water Year Types | |
| Wet (32%) | 1,950 |
| Above Normal (12%) | 1,694 |
| Below Normal (24%) | 1,529 |
| Dry (17%) | 1,287 |
| Critical (15%) | 786 |

**Alt2v1 w TUCP**

| Statistic | Energy Use (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 2,146 |
| 20% | 1,986 |
| 30% | 1,847 |
| 40% | 1,744 |
| 50% | 1,605 |
| 60% | 1,452 |
| 70% | 1,259 |
| 80% | 1,096 |
| 90% | 813 |
| Long Term | |

| Statistic | Energy Use (GWh) |
|---|---|
| Full Simulation Period | 1,538 |
| Water Year Types | |
| Wet (32%) | 1,992 |
| Above Normal (12%) | 1,752 |
| Below Normal (24%) | 1,523 |
| Dry (17%) | 1,229 |
| Critical (15%) | 773 |

**Alt2v1 w TUCP minus NAA**

| Statistic | Energy Use (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 51 |
| 20% | 29 |
| 30% | 17 |
| 40% | 24 |
| 50% | -3 |
| 60% | 12 |
| 70% | -52 |
| 80% | -8 |
| 90% | -50 |
| Long Term | |
| Full Simulation Period | 8 |
| Water Year Types | |
| Wet (32%) | 43 |
| Above Normal (12%) | 58 |
| Below Normal (24%) | -5 |
| Dry (17%) | -58 |
| Critical (15%) | -13 |

Table 3a-4. Annual CVP Total Energy Use

**NAA**

| Statistic | Energy Use (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 2,095 |
| 20% | 1,957 |
| 30% | 1,830 |
| 40% | 1,720 |
| 50% | 1,608 |
| 60% | 1,440 |
| 70% | 1,310 |
| 80% | 1,104 |
| 90% | 863 |
| Long Term | |
| Full Simulation Period | 1,531 |
| Water Year Types | |
| Wet (32%) | 1,950 |

| Statistic | Energy Use (GWh) |
|---|---|
| Above Normal (12%) | 1,694 |
| Below Normal (24%) | 1,529 |
| Dry (17%) | 1,287 |
| Critical (15%) | 786 |

**Alt2v2 no TUCP**

| Statistic | Energy Use (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 2,087 |
| 20% | 1,924 |
| 30% | 1,767 |
| 40% | 1,624 |
| 50% | 1,486 |
| 60% | 1,359 |
| 70% | 1,198 |
| 80% | 1,056 |
| 90% | 859 |
| Long Term | |
| Full Simulation Period | 1,485 |
| Water Year Types | |
| Wet (32%) | 1,942 |
| Above Normal (12%) | 1,623 |
| Below Normal (24%) | 1,440 |
| Dry (17%) | 1,183 |
| Critical (15%) | 811 |

**Alt2v2 no TUCP minus NAA**

| Statistic | Energy Use (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | -8 |
| 20% | -33 |
| 30% | -63 |
| 40% | -96 |
| 50% | -122 |
| 60% | -81 |
| 70% | -112 |
| 80% | -49 |
| 90% | -4 |
| Long Term | |
| Full Simulation Period | -46 |
| Water Year Types | |
| Wet (32%) | -7 |
| Above Normal (12%) | -71 |
| Below Normal (24%) | -89 |
| Dry (17%) | -104 |
| Critical (15%) | 25 |

Table 3a-5. Annual CVP Total Energy Use

**NAA**

| Statistic | Energy Use (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 2,095 |
| 20% | 1,957 |
| 30% | 1,830 |
| 40% | 1,720 |
| 50% | 1,608 |
| 60% | 1,440 |
| 70% | 1,310 |
| 80% | 1,104 |
| 90% | 863 |
| Long Term | |
| Full Simulation Period | 1,531 |
| Water Year Types | |
| Wet (32%) | 1,950 |
| Above Normal (12%) | 1,694 |
| Below Normal (24%) | 1,529 |
| Dry (17%) | 1,287 |
| Critical (15%) | 786 |

**Alt2v3 no TUCP**

| Statistic | Energy Use (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 2,089 |
| 20% | 1,941 |
| 30% | 1,763 |
| 40% | 1,629 |
| 50% | 1,487 |
| 60% | 1,359 |
| 70% | 1,210 |
| 80% | 1,057 |
| 90% | 848 |
| Long Term | |
| Full Simulation Period | 1,489 |
| Water Year Types | |
| Wet (32%) | 1,946 |
| Above Normal (12%) | 1,626 |
| Below Normal (24%) | 1,446 |
| Dry (17%) | 1,190 |
| Critical (15%) | 812 |

**Alt2v3 no TUCP minus NAA**

| Statistic | Energy Use (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | -6 |
| 20% | -16 |
| 30% | -66 |

| Statistic | Energy Use (GWh) |
|---|---|
| 40% | -91 |
| 50% | -121 |
| 60% | -81 |
| 70% | -100 |
| 80% | -48 |
| 90% | -16 |
| Long Term | |
| Full Simulation Period | -41 |
| Water Year Types | |
| Wet (32%) | -3 |
| Above Normal (12%) | -68 |
| Below Normal (24%) | -82 |
| Dry (17%) | -97 |
| Critical (15%) | 26 |

Table 3a-6. Annual CVP Total Energy Use

**NAA**

| Statistic | Energy Use (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 2,095 |
| 20% | 1,957 |
| 30% | 1,830 |
| 40% | 1,720 |
| 50% | 1,608 |
| 60% | 1,440 |
| 70% | 1,310 |
| 80% | 1,104 |
| 90% | 863 |
| Long Term | |
| Full Simulation Period | 1,531 |
| Water Year Types | |
| Wet (32%) | 1,950 |
| Above Normal (12%) | 1,694 |
| Below Normal (24%) | 1,529 |
| Dry (17%) | 1,287 |
| Critical (15%) | 786 |

**Alt3**

| Statistic | Energy Use (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 1,282 |
| 20% | 1,178 |
| 30% | 1,062 |
| 40% | 974 |
| 50% | 884 |
| 60% | 824 |

| Statistic | Energy Use (GWh) |
|---|---|
| 70% | 750 |
| 80% | 714 |
| 90% | 607 |
| Long Term | |
| Full Simulation Period | 931 |
| Water Year Types | |
| Wet (32%) | 1,189 |
| Above Normal (12%) | 982 |
| Below Normal (24%) | 870 |
| Dry (17%) | 789 |
| Critical (15%) | 595 |

**Alt3 minus NAA**

| Statistic | Energy Use (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | -813 |
| 20% | -779 |
| 30% | -768 |
| 40% | -746 |
| 50% | -725 |
| 60% | -616 |
| 70% | -561 |
| 80% | -391 |
| 90% | -256 |
| Long Term | |
| Full Simulation Period | -600 |
| Water Year Types | |
| Wet (32%) | -760 |
| Above Normal (12%) | -712 |
| Below Normal (24%) | -659 |
| Dry (17%) | -498 |
| Critical (15%) | -191 |

Table 3a-7. Annual CVP Total Energy Use

**NAA**

| Statistic | Energy Use (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 2,095 |
| 20% | 1,957 |
| 30% | 1,830 |
| 40% | 1,720 |
| 50% | 1,608 |
| 60% | 1,440 |
| 70% | 1,310 |
| 80% | 1,104 |
| 90% | 863 |

| Statistic | Energy Use (GWh) |
|---|---|
| Long Term | |
| Full Simulation Period | 1,531 |
| Water Year Types | |
| Wet (32%) | 1,950 |
| Above Normal (12%) | 1,694 |
| Below Normal (24%) | 1,529 |
| Dry (17%) | 1,287 |
| Critical (15%) | 786 |

**Alt4**

| Statistic | Energy Use (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 2,146 |
| 20% | 2,018 |
| 30% | 1,861 |
| 40% | 1,738 |
| 50% | 1,629 |
| 60% | 1,464 |
| 70% | 1,302 |
| 80% | 1,102 |
| 90% | 820 |
| Long Term | |
| Full Simulation Period | 1,552 |
| Water Year Types | |
| Wet (32%) | 1,999 |
| Above Normal (12%) | 1,745 |
| Below Normal (24%) | 1,537 |
| Dry (17%) | 1,259 |
| Critical (15%) | 798 |

**Alt4 minus NAA**

| Statistic | Energy Use (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 51 |
| 20% | 61 |
| 30% | 31 |
| 40% | 18 |
| 50% | 21 |
| 60% | 24 |
| 70% | -8 |
| 80% | -2 |
| 90% | -43 |
| Long Term | |
| Full Simulation Period | 21 |
| Water Year Types | |
| Wet (32%) | 49 |
| Above Normal (12%) | 51 |
| Below Normal (24%) | 9 |
| Dry (17%) | -28 |

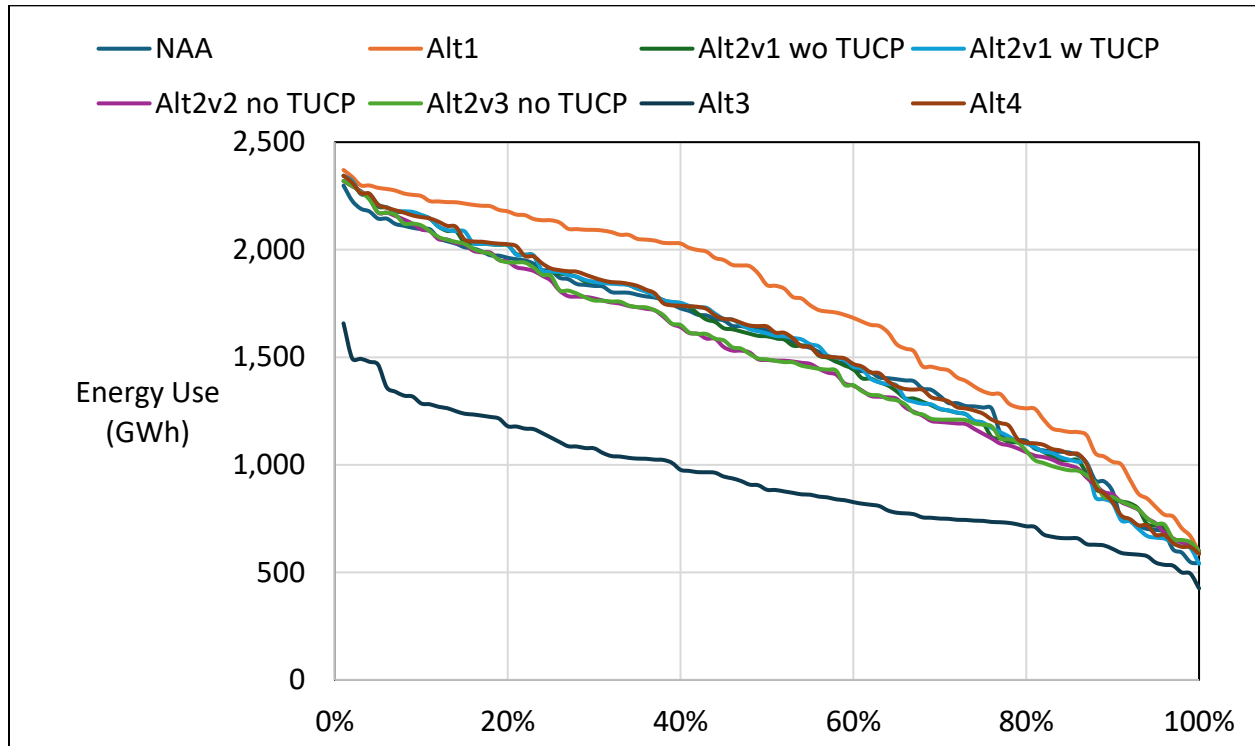| Statistic | Energy Use (GWh) |
|---|---|
| Critical (15%) | 12 |

Figure 3a-1. October-September CVP Total Energy Use



Table 4a-1. Annual CVP Net Generation

**NAA**

| Statistic | Net Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 4,253 |
| 20% | 3,611 |
| 30% | 3,354 |
| 40% | 3,148 |
| 50% | 2,827 |
| 60% | 2,578 |
| 70% | 2,366 |
| 80% | 2,000 |
| 90% | 1,821 |
| Long Term | |
| Full Simulation Period | 2,931 |
| Water Year Types | |
| Wet (32%) | 3,926 |

| Statistic | Net Generation (GWh) |
|---|---|
| Above Normal (12%) | 3,093 |
| Below Normal (24%) | 2,552 |
| Dry (17%) | 2,461 |
| Critical (15%) | 1,822 |

**Alt1**

| Statistic | Net Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 4,000 |
| 20% | 3,523 |
| 30% | 3,214 |
| 40% | 2,957 |
| 50% | 2,817 |
| 60% | 2,435 |
| 70% | 2,211 |
| 80% | 1,942 |
| 90% | 1,785 |
| Long Term | |
| Full Simulation Period | 2,817 |
| Water Year Types | |
| Wet (32%) | 3,787 |
| Above Normal (12%) | 2,779 |
| Below Normal (24%) | 2,472 |
| Dry (17%) | 2,380 |
| Critical (15%) | 1,826 |

**Alt1 minus NAA**

| Statistic | Net Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | -253 |
| 20% | -88 |
| 30% | -139 |
| 40% | -190 |
| 50% | -10 |
| 60% | -143 |
| 70% | -155 |
| 80% | -57 |
| 90% | -36 |
| Long Term | |
| Full Simulation Period | -114 |
| Water Year Types | |
| Wet (32%) | -138 |
| Above Normal (12%) | -313 |
| Below Normal (24%) | -81 |
| Dry (17%) | -81 |
| Critical (15%) | 4 |

## Table 4a-2. Annual CVP Net Generation

**NAA**

| Statistic | Net Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 4,253 |
| 20% | 3,611 |
| 30% | 3,354 |
| 40% | 3,148 |
| 50% | 2,827 |
| 60% | 2,578 |
| 70% | 2,366 |
| 80% | 2,000 |
| 90% | 1,821 |
| Long Term | |
| Full Simulation Period | 2,931 |
| Water Year Types | |
| Wet (32%) | 3,926 |
| Above Normal (12%) | 3,093 |
| Below Normal (24%) | 2,552 |
| Dry (17%) | 2,461 |
| Critical (15%) | 1,822 |

**Alt2v1 wo TUCP**

| Statistic | Net Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 4,271 |
| 20% | 3,650 |
| 30% | 3,333 |
| 40% | 3,115 |
| 50% | 2,881 |
| 60% | 2,625 |
| 70% | 2,339 |
| 80% | 2,050 |
| 90% | 1,795 |
| Long Term | |
| Full Simulation Period | 2,944 |
| Water Year Types | |
| Wet (32%) | 3,910 |
| Above Normal (12%) | 3,024 |
| Below Normal (24%) | 2,598 |
| Dry (17%) | 2,532 |
| Critical (15%) | 1,844 |

**Alt2v1 wo TUCP minus NAA**

| Statistic | Net Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 18 |
| 20% | 39 |
| 30% | -21 |

| Statistic | Net Generation (GWh) |
|---|---:|
| 40% | -33 |
| 50% | 54 |
| 60% | 47 |
| 70% | -28 |
| 80% | 50 |
| 90% | -26 |
| Long Term | |
| Full Simulation Period | 13 |
| Water Year Types | |
| Wet (32%) | -16 |
| Above Normal (12%) | -69 |
| Below Normal (24%) | 45 |
| Dry (17%) | 71 |
| Critical (15%) | 22 |

Table 4a-3. Annual CVP Net Generation

**NAA**

| Statistic | Net Generation (GWh) |
|---|---:|
| Probability of Exceedance | |
| 10% | 4,253 |
| 20% | 3,611 |
| 30% | 3,354 |
| 40% | 3,148 |
| 50% | 2,827 |
| 60% | 2,578 |
| 70% | 2,366 |
| 80% | 2,000 |
| 90% | 1,821 |
| Long Term | |
| Full Simulation Period | 2,931 |
| Water Year Types | |
| Wet (32%) | 3,926 |
| Above Normal (12%) | 3,093 |
| Below Normal (24%) | 2,552 |
| Dry (17%) | 2,461 |
| Critical (15%) | 1,822 |

**Alt2v1 w TUCP**

| Statistic | Net Generation (GWh) |
|---|---:|
| Probability of Exceedance | |
| 10% | 4,268 |
| 20% | 3,643 |
| 30% | 3,320 |
| 40% | 3,115 |
| 50% | 2,876 |
| 60% | 2,623 |

| Statistic | Net Generation (GWh) |
|---|---|
| 70% | 2,344 |
| 80% | 2,106 |
| 90% | 1,848 |
| Long Term | |
| Full Simulation Period | 2,956 |
| Water Year Types | |
| Wet (32%) | 3,915 |
| Above Normal (12%) | 3,048 |
| Below Normal (24%) | 2,629 |
| Dry (17%) | 2,534 |
| Critical (15%) | 1,838 |

**Alt2v1 w TUCP minus NAA**

| Statistic | Net Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 16 |
| 20% | 32 |
| 30% | -34 |
| 40% | -33 |
| 50% | 49 |
| 60% | 44 |
| 70% | -22 |
| 80% | 106 |
| 90% | 27 |
| Long Term | |
| Full Simulation Period | 24 |
| Water Year Types | |
| Wet (32%) | -11 |
| Above Normal (12%) | -45 |
| Below Normal (24%) | 77 |
| Dry (17%) | 73 |
| Critical (15%) | 16 |

Table 4a-4. Annual CVP Net Generation

**NAA**

| Statistic | Net Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 4,253 |
| 20% | 3,611 |
| 30% | 3,354 |
| 40% | 3,148 |
| 50% | 2,827 |
| 60% | 2,578 |
| 70% | 2,366 |
| 80% | 2,000 |
| 90% | 1,821 |

| Statistic | Net Generation (GWh) |
|---|---|
| Long Term | |
| Full Simulation Period | 2,931 |
| Water Year Types | |
| Wet (32%) | 3,926 |
| Above Normal (12%) | 3,093 |
| Below Normal (24%) | 2,552 |
| Dry (17%) | 2,461 |
| Critical (15%) | 1,822 |

**Alt2v2 no TUCP**

| Statistic | Net Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 4,294 |
| 20% | 3,707 |
| 30% | 3,431 |
| 40% | 3,231 |
| 50% | 2,939 |
| 60% | 2,692 |
| 70% | 2,402 |
| 80% | 2,139 |
| 90% | 1,823 |
| Long Term | |
| Full Simulation Period | 2,994 |
| Water Year Types | |
| Wet (32%) | 3,955 |
| Above Normal (12%) | 3,133 |
| Below Normal (24%) | 2,666 |
| Dry (17%) | 2,566 |
| Critical (15%) | 1,841 |

**Alt2v2 no TUCP minus NAA**

| Statistic | Net Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 41 |
| 20% | 96 |
| 30% | 78 |
| 40% | 83 |
| 50% | 113 |
| 60% | 113 |
| 70% | 35 |
| 80% | 140 |
| 90% | 2 |
| Long Term | |
| Full Simulation Period | 62 |
| Water Year Types | |
| Wet (32%) | 29 |
| Above Normal (12%) | 41 |
| Below Normal (24%) | 114 |
| Dry (17%) | 105 |

| Statistic | Net Generation (GWh) |
|---|---|
| Critical (15%) | 19 |

## Table 4a-5. Annual CVP Net Generation

**NAA**

| Statistic | Net Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 4,253 |
| 20% | 3,611 |
| 30% | 3,354 |
| 40% | 3,148 |
| 50% | 2,827 |
| 60% | 2,578 |
| 70% | 2,366 |
| 80% | 2,000 |
| 90% | 1,821 |
| Long Term | |
| Full Simulation Period | 2,931 |
| Water Year Types | |
| Wet (32%) | 3,926 |
| Above Normal (12%) | 3,093 |
| Below Normal (24%) | 2,552 |
| Dry (17%) | 2,461 |
| Critical (15%) | 1,822 |

**Alt2v3 no TUCP**

| Statistic | Net Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 4,294 |
| 20% | 3,703 |
| 30% | 3,425 |
| 40% | 3,208 |
| 50% | 2,942 |
| 60% | 2,640 |
| 70% | 2,381 |
| 80% | 2,100 |
| 90% | 1,849 |
| Long Term | |
| Full Simulation Period | 2,990 |
| Water Year Types | |
| Wet (32%) | 3,960 |
| Above Normal (12%) | 3,136 |
| Below Normal (24%) | 2,664 |
| Dry (17%) | 2,513 |
| Critical (15%) | 1,866 |

**Alt2v3 no TUCP minus NAA**

| Statistic | Net Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 41 |
| 20% | 92 |
| 30% | 71 |
| 40% | 60 |
| 50% | 116 |
| 60% | 62 |
| 70% | 15 |
| 80% | 100 |
| 90% | 29 |
| Long Term | |
| Full Simulation Period | 59 |
| Water Year Types | |
| Wet (32%) | 35 |
| Above Normal (12%) | 43 |
| Below Normal (24%) | 111 |
| Dry (17%) | 52 |
| Critical (15%) | 44 |

Table 4a-6. Annual CVP Net Generation

**NAA**

| Statistic | Net Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 4,253 |
| 20% | 3,611 |
| 30% | 3,354 |
| 40% | 3,148 |
| 50% | 2,827 |
| 60% | 2,578 |
| 70% | 2,366 |
| 80% | 2,000 |
| 90% | 1,821 |
| Long Term | |
| Full Simulation Period | 2,931 |
| Water Year Types | |
| Wet (32%) | 3,926 |
| Above Normal (12%) | 3,093 |
| Below Normal (24%) | 2,552 |
| Dry (17%) | 2,461 |
| Critical (15%) | 1,822 |

**Alt3**

| Statistic | Net Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 5,119 |

| Statistic | Net Generation (GWh) |
|---|---|
| 20% | 4,496 |
| 30% | 4,193 |
| 40% | 3,820 |
| 50% | 3,376 |
| 60% | 3,096 |
| 70% | 2,808 |
| 80% | 2,601 |
| 90% | 2,086 |
| Long Term | |
| Full Simulation Period | 3,552 |
| Water Year Types | |
| Wet (32%) | 4,811 |
| Above Normal (12%) | 3,801 |
| Below Normal (24%) | 3,131 |
| Dry (17%) | 2,908 |
| Critical (15%) | 2,067 |

**Alt3 minus NAA**

| Statistic | Net Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 866 |
| 20% | 885 |
| 30% | 839 |
| 40% | 672 |
| 50% | 549 |
| 60% | 517 |
| 70% | 442 |
| 80% | 601 |
| 90% | 265 |
| Long Term | |
| Full Simulation Period | 620 |
| Water Year Types | |
| Wet (32%) | 885 |
| Above Normal (12%) | 709 |
| Below Normal (24%) | 578 |
| Dry (17%) | 447 |
| Critical (15%) | 245 |

Table 4a-7. Annual CVP Net Generation

**NAA**

| Statistic | Net Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 4,253 |
| 20% | 3,611 |
| 30% | 3,354 |
| 40% | 3,148 |

| Statistic | Net Generation (GWh) |
|---|---|
| 50% | 2,827 |
| 60% | 2,578 |
| 70% | 2,366 |
| 80% | 2,000 |
| 90% | 1,821 |
| Long Term | |
| Full Simulation Period | 2,931 |
| Water Year Types | |
| Wet (32%) | 3,926 |
| Above Normal (12%) | 3,093 |
| Below Normal (24%) | 2,552 |
| Dry (17%) | 2,461 |
| Critical (15%) | 1,822 |

**Alt4**

| Statistic | Net Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 4,264 |
| 20% | 3,636 |
| 30% | 3,318 |
| 40% | 3,101 |
| 50% | 2,883 |
| 60% | 2,616 |
| 70% | 2,391 |
| 80% | 2,036 |
| 90% | 1,820 |
| Long Term | |
| Full Simulation Period | 2,942 |
| Water Year Types | |
| Wet (32%) | 3,899 |
| Above Normal (12%) | 3,046 |
| Below Normal (24%) | 2,607 |
| Dry (17%) | 2,511 |
| Critical (15%) | 1,843 |

**Alt4 minus NAA**

| Statistic | Net Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 11 |
| 20% | 25 |
| 30% | -36 |
| 40% | -47 |
| 50% | 57 |
| 60% | 37 |
| 70% | 24 |
| 80% | 36 |
| 90% | -1 |
| Long Term | |
| Full Simulation Period | 11 |

| Statistic | Net Generation (GWh) |
|---|---|
| Water Year Types | |
| Wet (32%) | -27 |
| Above Normal (12%) | -47 |
| Below Normal (24%) | 55 |
| Dry (17%) | 50 |
| Critical (15%) | 21 |

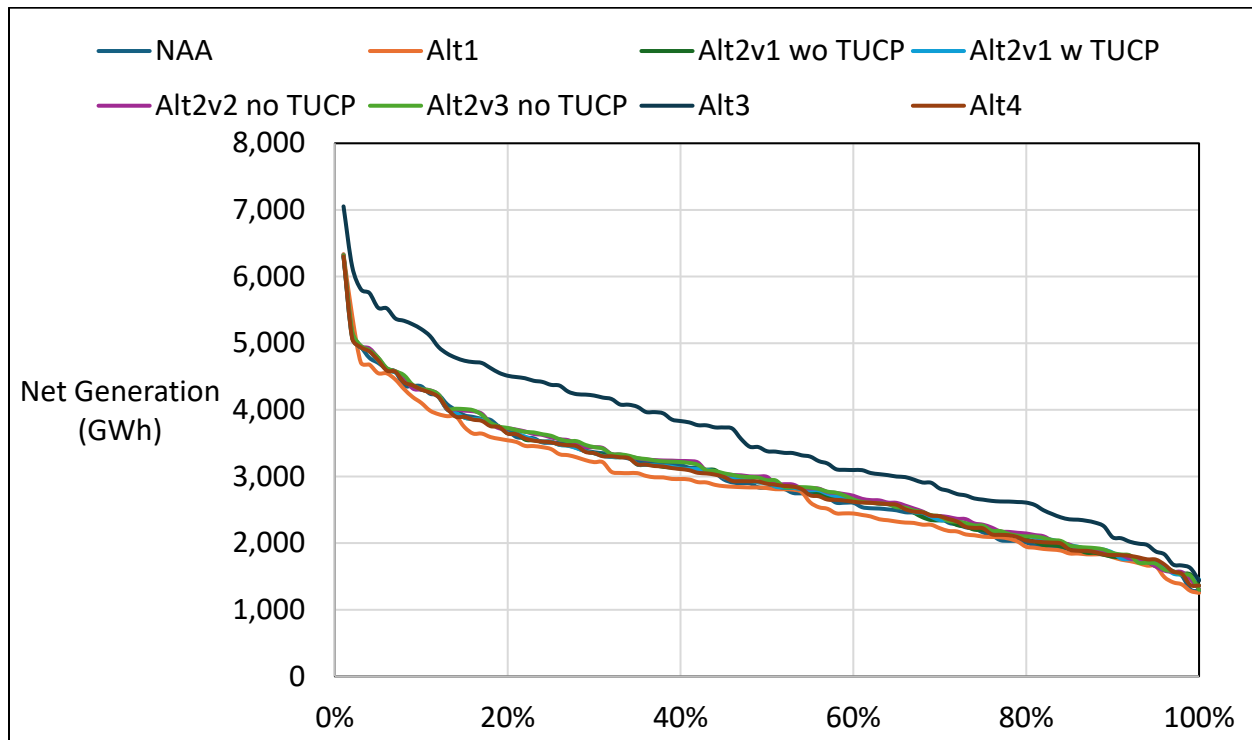Figure 4a-1. October-September CVP Net Generation



Table 6a-1. Annual SWP Total Generation

**NAA**

| Statistic | Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 5,848 |
| 20% | 5,269 |
| 30% | 4,631 |
| 40% | 4,143 |
| 50% | 3,640 |
| 60% | 3,068 |
| 70% | 2,775 |
| 80% | 2,344 |

| Statistic | Generation (GWh) |
|---|---|
| 90% | 1,719 |
| Long Term | |
| Full Simulation Period | 3,732 |
| Water Year Types | |
| Wet (32%) | 5,391 |
| Above Normal (12%) | 4,295 |
| Below Normal (24%) | 3,347 |
| Dry (17%) | 2,553 |
| Critical (15%) | 1,696 |

**Alt1**

| Statistic | Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 6,002 |
| 20% | 5,540 |
| 30% | 5,103 |
| 40% | 4,680 |
| 50% | 4,251 |
| 60% | 3,561 |
| 70% | 3,092 |
| 80% | 2,711 |
| 90% | 2,148 |
| Long Term | |
| Full Simulation Period | 4,116 |
| Water Year Types | |
| Wet (32%) | 5,669 |
| Above Normal (12%) | 4,760 |
| Below Normal (24%) | 3,826 |
| Dry (17%) | 3,016 |
| Critical (15%) | 1,999 |

**Alt1 minus NAA**

| Statistic | Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 154 |
| 20% | 271 |
| 30% | 472 |
| 40% | 537 |
| 50% | 611 |
| 60% | 493 |
| 70% | 316 |
| 80% | 367 |
| 90% | 429 |
| Long Term | |
| Full Simulation Period | 384 |
| Water Year Types | |
| Wet (32%) | 278 |
| Above Normal (12%) | 465 |
| Below Normal (24%) | 480 |

| Statistic | Generation (GWh) |
|---|---|
| Dry (17%) | 463 |
| Critical (15%) | 303 |

## Table 6a-2. Annual SWP Total Generation

**NAA**

| Statistic | Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 5,848 |
| 20% | 5,269 |
| 30% | 4,631 |
| 40% | 4,143 |
| 50% | 3,640 |
| 60% | 3,068 |
| 70% | 2,775 |
| 80% | 2,344 |
| 90% | 1,719 |
| Long Term | |
| Full Simulation Period | 3,732 |
| Water Year Types | |
| Wet (32%) | 5,391 |
| Above Normal (12%) | 4,295 |
| Below Normal (24%) | 3,347 |
| Dry (17%) | 2,553 |
| Critical (15%) | 1,696 |

**Alt2v1 wo TUCP**

| Statistic | Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 5,699 |
| 20% | 5,290 |
| 30% | 4,727 |
| 40% | 4,165 |
| 50% | 3,669 |
| 60% | 3,073 |
| 70% | 2,758 |
| 80% | 2,347 |
| 90% | 1,820 |
| Long Term | |
| Full Simulation Period | 3,744 |
| Water Year Types | |
| Wet (32%) | 5,427 |
| Above Normal (12%) | 4,255 |
| Below Normal (24%) | 3,375 |
| Dry (17%) | 2,552 |
| Critical (15%) | 1,688 |

**Alt2v1 wo TUCP minus NAA**

| Statistic | Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | -149 |
| 20% | 22 |
| 30% | 96 |
| 40% | 22 |
| 50% | 29 |
| 60% | 5 |
| 70% | -18 |
| 80% | 3 |
| 90% | 101 |
| Long Term | |
| Full Simulation Period | 12 |
| Water Year Types | |
| Wet (32%) | 36 |
| Above Normal (12%) | -41 |
| Below Normal (24%) | 29 |
| Dry (17%) | -1 |
| Critical (15%) | -8 |

Table 6a-3. Annual SWP Total Generation

**NAA**

| Statistic | Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 5,848 |
| 20% | 5,269 |
| 30% | 4,631 |
| 40% | 4,143 |
| 50% | 3,640 |
| 60% | 3,068 |
| 70% | 2,775 |
| 80% | 2,344 |
| 90% | 1,719 |
| Long Term | |
| Full Simulation Period | 3,732 |
| Water Year Types | |
| Wet (32%) | 5,391 |
| Above Normal (12%) | 4,295 |
| Below Normal (24%) | 3,347 |
| Dry (17%) | 2,553 |
| Critical (15%) | 1,696 |

**Alt2v1 w TUCP**

| Statistic | Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 5,691 |

| Statistic | Generation (GWh) |
|---|---|
| 20% | 5,293 |
| 30% | 4,728 |
| 40% | 4,188 |
| 50% | 3,704 |
| 60% | 3,133 |
| 70% | 2,778 |
| 80% | 2,428 |
| 90% | 1,757 |
| Long Term | |
| Full Simulation Period | 3,768 |
| Water Year Types | |
| Wet (32%) | 5,433 |
| Above Normal (12%) | 4,302 |
| Below Normal (24%) | 3,409 |
| Dry (17%) | 2,563 |
| Critical (15%) | 1,731 |

**Alt2v1 w TUCP minus NAA**

| Statistic | Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | -157 |
| 20% | 24 |
| 30% | 97 |
| 40% | 45 |
| 50% | 64 |
| 60% | 65 |
| 70% | 3 |
| 80% | 84 |
| 90% | 38 |
| Long Term | |
| Full Simulation Period | 36 |
| Water Year Types | |
| Wet (32%) | 42 |
| Above Normal (12%) | 7 |
| Below Normal (24%) | 63 |
| Dry (17%) | 9 |
| Critical (15%) | 35 |

Table 6a-4. Annual SWP Total Generation

**NAA**

| Statistic | Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 5,848 |
| 20% | 5,269 |
| 30% | 4,631 |
| 40% | 4,143 |

| Statistic | Generation (GWh) |
|---|---|
| 50% | 3,640 |
| 60% | 3,068 |
| 70% | 2,775 |
| 80% | 2,344 |
| 90% | 1,719 |
| Long Term | |
| Full Simulation Period | 3,732 |
| Water Year Types | |
| Wet (32%) | 5,391 |
| Above Normal (12%) | 4,295 |
| Below Normal (24%) | 3,347 |
| Dry (17%) | 2,553 |
| Critical (15%) | 1,696 |

**Alt2v2 no TUCP**

| Statistic | Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 5,712 |
| 20% | 5,302 |
| 30% | 4,695 |
| 40% | 4,132 |
| 50% | 3,663 |
| 60% | 3,099 |
| 70% | 2,773 |
| 80% | 2,359 |
| 90% | 1,743 |
| Long Term | |
| Full Simulation Period | 3,737 |
| Water Year Types | |
| Wet (32%) | 5,416 |
| Above Normal (12%) | 4,246 |
| Below Normal (24%) | 3,345 |
| Dry (17%) | 2,561 |
| Critical (15%) | 1,706 |

**Alt2v2 no TUCP minus NAA**

| Statistic | Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | -137 |
| 20% | 34 |
| 30% | 64 |
| 40% | -11 |
| 50% | 23 |
| 60% | 31 |
| 70% | -2 |
| 80% | 15 |
| 90% | 24 |
| Long Term | |
| Full Simulation Period | 5 |

| Statistic | Generation (GWh) |
|---|---|
| Water Year Types | |
| Wet (32%) | 25 |
| Above Normal (12%) | -49 |
| Below Normal (24%) | -1 |
| Dry (17%) | 8 |
| Critical (15%) | 11 |

## Table 6a-5. Annual SWP Total Generation

**NAA**

| Statistic | Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 5,848 |
| 20% | 5,269 |
| 30% | 4,631 |
| 40% | 4,143 |
| 50% | 3,640 |
| 60% | 3,068 |
| 70% | 2,775 |
| 80% | 2,344 |
| 90% | 1,719 |
| Long Term | |
| Full Simulation Period | 3,732 |
| Water Year Types | |
| Wet (32%) | 5,391 |
| Above Normal (12%) | 4,295 |
| Below Normal (24%) | 3,347 |
| Dry (17%) | 2,553 |
| Critical (15%) | 1,696 |

**Alt2v3 no TUCP**

| Statistic | Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 5,717 |
| 20% | 5,238 |
| 30% | 4,712 |
| 40% | 4,133 |
| 50% | 3,660 |
| 60% | 3,070 |
| 70% | 2,762 |
| 80% | 2,316 |
| 90% | 1,781 |
| Long Term | |
| Full Simulation Period | 3,735 |
| Water Year Types | |
| Wet (32%) | 5,413 |
| Above Normal (12%) | 4,249 |

| Statistic | Generation (GWh) |
|---|---|
| Below Normal (24%) | 3,351 |
| Dry (17%) | 2,546 |
| Critical (15%) | 1,706 |

**Alt2v3 no TUCP minus NAA**

| Statistic | Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | -131 |
| 20% | -30 |
| 30% | 81 |
| 40% | -10 |
| 50% | 19 |
| 60% | 1 |
| 70% | -13 |
| 80% | -28 |
| 90% | 62 |
| Long Term | |
| Full Simulation Period | 3 |
| Water Year Types | |
| Wet (32%) | 22 |
| Above Normal (12%) | -46 |
| Below Normal (24%) | 4 |
| Dry (17%) | -7 |
| Critical (15%) | 10 |

Table 6a-6. Annual SWP Total Generation

**NAA**

| Statistic | Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 5,848 |
| 20% | 5,269 |
| 30% | 4,631 |
| 40% | 4,143 |
| 50% | 3,640 |
| 60% | 3,068 |
| 70% | 2,775 |
| 80% | 2,344 |
| 90% | 1,719 |
| Long Term | |
| Full Simulation Period | 3,732 |
| Water Year Types | |
| Wet (32%) | 5,391 |
| Above Normal (12%) | 4,295 |
| Below Normal (24%) | 3,347 |
| Dry (17%) | 2,553 |
| Critical (15%) | 1,696 |

**Alt3**

| Statistic | Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 4,848 |
| 20% | 4,281 |
| 30% | 3,812 |
| 40% | 3,202 |
| 50% | 2,649 |
| 60% | 2,411 |
| 70% | 2,221 |
| 80% | 1,941 |
| 90% | 1,436 |
| Long Term | |
| Full Simulation Period | 3,027 |
| Water Year Types | |
| Wet (32%) | 4,514 |
| Above Normal (12%) | 3,281 |
| Below Normal (24%) | 2,544 |
| Dry (17%) | 2,174 |
| Critical (15%) | 1,387 |

**Alt3 minus NAA**

| Statistic | Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | -1,000 |
| 20% | -987 |
| 30% | -819 |
| 40% | -941 |
| 50% | -991 |
| 60% | -657 |
| 70% | -554 |
| 80% | -403 |
| 90% | -283 |
| Long Term | |
| Full Simulation Period | -706 |
| Water Year Types | |
| Wet (32%) | -877 |
| Above Normal (12%) | -1,014 |
| Below Normal (24%) | -802 |
| Dry (17%) | -379 |
| Critical (15%) | -308 |

Table 6a-7. Annual SWP Total Generation

**NAA**

| Statistic | Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 5,848 |

| Statistic | Generation (GWh) |
|---|---|
| 20% | 5,269 |
| 30% | 4,631 |
| 40% | 4,143 |
| 50% | 3,640 |
| 60% | 3,068 |
| 70% | 2,775 |
| 80% | 2,344 |
| 90% | 1,719 |
| Long Term | |
| Full Simulation Period | 3,732 |
| Water Year Types | |
| Wet (32%) | 5,391 |
| Above Normal (12%) | 4,295 |
| Below Normal (24%) | 3,347 |
| Dry (17%) | 2,553 |
| Critical (15%) | 1,696 |

**Alt4**

| Statistic | Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 5,631 |
| 20% | 5,267 |
| 30% | 4,700 |
| 40% | 4,156 |
| 50% | 3,734 |
| 60% | 3,129 |
| 70% | 2,840 |
| 80% | 2,403 |
| 90% | 1,836 |
| Long Term | |
| Full Simulation Period | 3,773 |
| Water Year Types | |
| Wet (32%) | 5,425 |
| Above Normal (12%) | 4,296 |
| Below Normal (24%) | 3,413 |
| Dry (17%) | 2,579 |
| Critical (15%) | 1,760 |

**Alt4 minus NAA**

| Statistic | Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | -218 |
| 20% | -1 |
| 30% | 70 |
| 40% | 13 |
| 50% | 94 |
| 60% | 61 |
| 70% | 65 |
| 80% | 59 |

| Statistic | Generation (GWh) |
|---|---|
| 90% | 117 |
| Long Term | |
| Full Simulation Period | 41 |
| Water Year Types | |
| Wet (32%) | 34 |
| Above Normal (12%) | 1 |
| Below Normal (24%) | 66 |
| Dry (17%) | 26 |
| Critical (15%) | 64 |

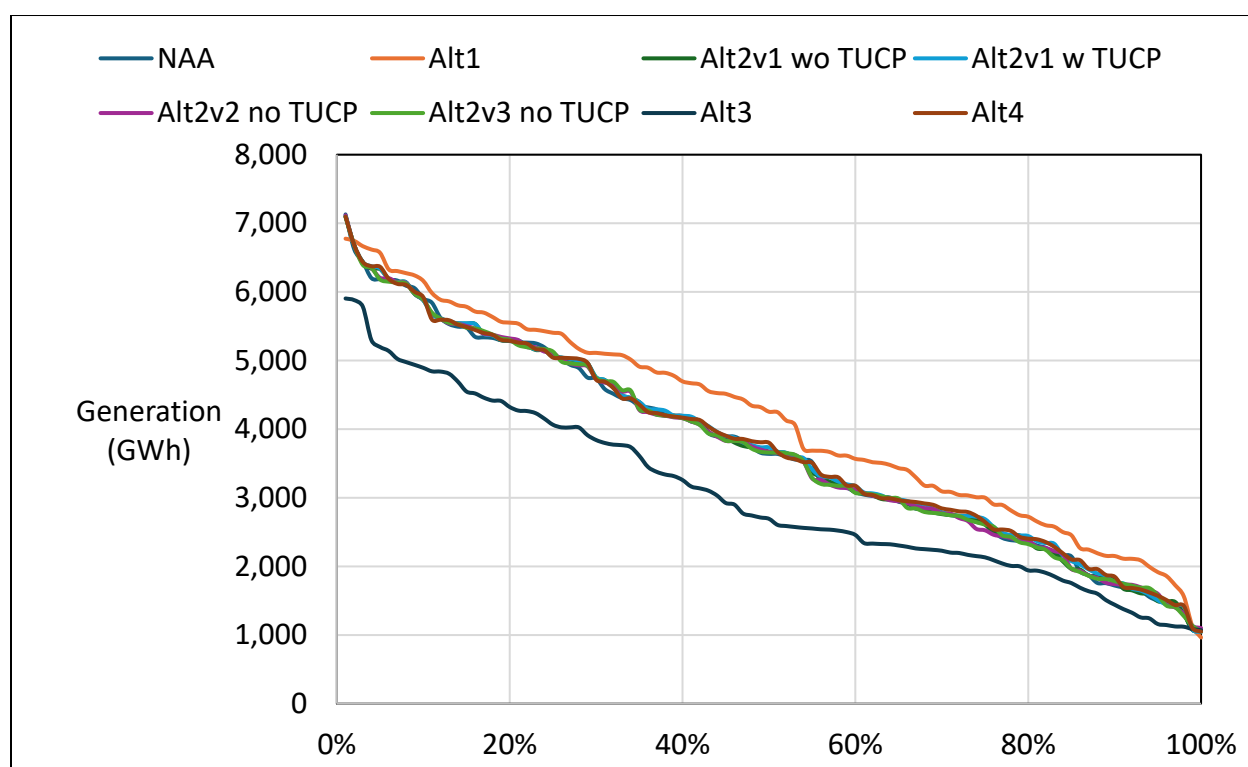Figure 6a-1. October-September SWP Total Generation



Table 7a-1. Annual SWP Total Energy Use

**NAA**

| Statistic | Energy Use (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 9,471 |
| 20% | 8,493 |
| 30% | 7,999 |
| 40% | 7,378 |

| Statistic | Energy Use (GWh) |
|---|---|
| 50% | 6,546 |
| 60% | 5,732 |
| 70% | 4,888 |
| 80% | 4,290 |
| 90% | 2,911 |
| Long Term | |
| Full Simulation Period | 6,403 |
| Water Year Types | |
| Wet (32%) | 8,625 |
| Above Normal (12%) | 7,320 |
| Below Normal (24%) | 6,407 |
| Dry (17%) | 4,582 |
| Critical (15%) | 2,986 |

**Alt1**

| Statistic | Energy Use (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 10,810 |
| 20% | 10,456 |
| 30% | 10,018 |
| 40% | 9,569 |
| 50% | 8,620 |
| 60% | 7,691 |
| 70% | 6,663 |
| 80% | 5,395 |
| 90% | 4,087 |
| Long Term | |
| Full Simulation Period | 8,043 |
| Water Year Types | |
| Wet (32%) | 10,292 |
| Above Normal (12%) | 9,572 |
| Below Normal (24%) | 8,145 |
| Dry (17%) | 6,208 |
| Critical (15%) | 3,936 |

**Alt1 minus NAA**

| Statistic | Energy Use (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 1,339 |
| 20% | 1,964 |
| 30% | 2,019 |
| 40% | 2,191 |
| 50% | 2,074 |
| 60% | 1,960 |
| 70% | 1,775 |
| 80% | 1,104 |
| 90% | 1,176 |
| Long Term | |
| Full Simulation Period | 1,640 |

| Statistic | Energy Use (GWh) |
|---|---|
| Water Year Types | |
| Wet (32%) | 1,667 |
| Above Normal (12%) | 2,252 |
| Below Normal (24%) | 1,739 |
| Dry (17%) | 1,626 |
| Critical (15%) | 950 |

Table 7a-2. Annual SWP Total Energy Use

**NAA**

| Statistic | Energy Use (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 9,471 |
| 20% | 8,493 |
| 30% | 7,999 |
| 40% | 7,378 |
| 50% | 6,546 |
| 60% | 5,732 |
| 70% | 4,888 |
| 80% | 4,290 |
| 90% | 2,911 |
| Long Term | |
| Full Simulation Period | 6,403 |
| Water Year Types | |
| Wet (32%) | 8,625 |
| Above Normal (12%) | 7,320 |
| Below Normal (24%) | 6,407 |
| Dry (17%) | 4,582 |
| Critical (15%) | 2,986 |

**Alt2v1 wo TUCP**

| Statistic | Energy Use (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 9,591 |
| 20% | 8,511 |
| 30% | 8,215 |
| 40% | 7,854 |
| 50% | 6,757 |
| 60% | 5,877 |
| 70% | 5,179 |
| 80% | 4,368 |
| 90% | 2,953 |
| Long Term | |
| Full Simulation Period | 6,566 |
| Water Year Types | |
| Wet (32%) | 8,888 |
| Above Normal (12%) | 7,465 |

| Statistic | Energy Use (GWh) |
| --- | --- |
| Below Normal (24%) | 6,656 |
| Dry (17%) | 4,703 |
| Critical (15%) | 2,857 |

**Alt2v1 wo TUCP minus NAA**

| Statistic | Energy Use (GWh) |
| --- | --- |
| Probability of Exceedance | |
| 10% | 121 |
| 20% | 19 |
| 30% | 215 |
| 40% | 476 |
| 50% | 211 |
| 60% | 146 |
| 70% | 290 |
| 80% | 77 |
| 90% | 42 |
| Long Term | |
| Full Simulation Period | 163 |
| Water Year Types | |
| Wet (32%) | 263 |
| Above Normal (12%) | 145 |
| Below Normal (24%) | 249 |
| Dry (17%) | 121 |
| Critical (15%) | -129 |

Table 7a-3. Annual SWP Total Energy Use

**NAA**

| Statistic | Energy Use (GWh) |
| --- | --- |
| Probability of Exceedance | |
| 10% | 9,471 |
| 20% | 8,493 |
| 30% | 7,999 |
| 40% | 7,378 |
| 50% | 6,546 |
| 60% | 5,732 |
| 70% | 4,888 |
| 80% | 4,290 |
| 90% | 2,911 |
| Long Term | |
| Full Simulation Period | 6,403 |
| Water Year Types | |
| Wet (32%) | 8,625 |
| Above Normal (12%) | 7,320 |
| Below Normal (24%) | 6,407 |
| Dry (17%) | 4,582 |
| Critical (15%) | 2,986 |

**Alt2v1 w TUCP**

| Statistic | Energy Use (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 9,538 |
| 20% | 8,513 |
| 30% | 8,221 |
| 40% | 7,810 |
| 50% | 6,875 |
| 60% | 6,036 |
| 70% | 5,170 |
| 80% | 4,416 |
| 90% | 3,133 |
| Long Term | |
| Full Simulation Period | 6,624 |
| Water Year Types | |
| Wet (32%) | 8,897 |
| Above Normal (12%) | 7,550 |
| Below Normal (24%) | 6,704 |
| Dry (17%) | 4,730 |
| Critical (15%) | 3,055 |

**Alt2v1 w TUCP minus NAA**

| Statistic | Energy Use (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 67 |
| 20% | 20 |
| 30% | 222 |
| 40% | 431 |
| 50% | 330 |
| 60% | 304 |
| 70% | 281 |
| 80% | 126 |
| 90% | 222 |
| Long Term | |
| Full Simulation Period | 222 |
| Water Year Types | |
| Wet (32%) | 272 |
| Above Normal (12%) | 229 |
| Below Normal (24%) | 298 |
| Dry (17%) | 148 |
| Critical (15%) | 69 |

Table 7a-4. Annual SWP Total Energy Use

**NAA**

| Statistic | Energy Use (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 9,471 |

| Statistic | Energy Use (GWh) |
|---|---|
| 20% | 8,493 |
| 30% | 7,999 |
| 40% | 7,378 |
| 50% | 6,546 |
| 60% | 5,732 |
| 70% | 4,888 |
| 80% | 4,290 |
| 90% | 2,911 |
| Long Term | |
| Full Simulation Period | 6,403 |
| Water Year Types | |
| Wet (32%) | 8,625 |
| Above Normal (12%) | 7,320 |
| Below Normal (24%) | 6,407 |
| Dry (17%) | 4,582 |
| Critical (15%) | 2,986 |

**Alt2v2 no TUCP**

| Statistic | Energy Use (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 9,541 |
| 20% | 8,501 |
| 30% | 8,171 |
| 40% | 7,678 |
| 50% | 6,828 |
| 60% | 5,960 |
| 70% | 5,148 |
| 80% | 4,242 |
| 90% | 2,934 |
| Long Term | |
| Full Simulation Period | 6,556 |
| Water Year Types | |
| Wet (32%) | 8,867 |
| Above Normal (12%) | 7,415 |
| Below Normal (24%) | 6,578 |
| Dry (17%) | 4,704 |
| Critical (15%) | 3,002 |

**Alt2v2 no TUCP minus NAA**

| Statistic | Energy Use (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 70 |
| 20% | 8 |
| 30% | 172 |
| 40% | 300 |
| 50% | 282 |
| 60% | 229 |
| 70% | 260 |
| 80% | -48 |

| Statistic | Energy Use (GWh) |
|---|---|
| 90% | 23 |
| Long Term | |
| Full Simulation Period | 153 |
| Water Year Types | |
| Wet (32%) | 242 |
| Above Normal (12%) | 94 |
| Below Normal (24%) | 171 |
| Dry (17%) | 122 |
| Critical (15%) | 16 |

## Table 7a-5. Annual SWP Total Energy Use

**NAA**

| Statistic | Energy Use (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 9,471 |
| 20% | 8,493 |
| 30% | 7,999 |
| 40% | 7,378 |
| 50% | 6,546 |
| 60% | 5,732 |
| 70% | 4,888 |
| 80% | 4,290 |
| 90% | 2,911 |
| Long Term | |
| Full Simulation Period | 6,403 |
| Water Year Types | |
| Wet (32%) | 8,625 |
| Above Normal (12%) | 7,320 |
| Below Normal (24%) | 6,407 |
| Dry (17%) | 4,582 |
| Critical (15%) | 2,986 |

**Alt2v3 no TUCP**

| Statistic | Energy Use (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 9,580 |
| 20% | 8,498 |
| 30% | 8,163 |
| 40% | 7,662 |
| 50% | 6,779 |
| 60% | 6,001 |
| 70% | 5,067 |
| 80% | 4,308 |
| 90% | 2,956 |
| Long Term | |
| Full Simulation Period | 6,549 |

| Statistic | Energy Use (GWh) |
|---|---|
| Water Year Types | |
| Wet (32%) | 8,876 |
| Above Normal (12%) | 7,408 |
| Below Normal (24%) | 6,564 |
| Dry (17%) | 4,651 |
| Critical (15%) | 3,026 |

**Alt2v3 no TUCP minus NAA**

| Statistic | Energy Use (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 110 |
| 20% | 5 |
| 30% | 163 |
| 40% | 284 |
| 50% | 233 |
| 60% | 269 |
| 70% | 178 |
| 80% | 17 |
| 90% | 45 |
| Long Term | |
| Full Simulation Period | 146 |
| Water Year Types | |
| Wet (32%) | 251 |
| Above Normal (12%) | 87 |
| Below Normal (24%) | 157 |
| Dry (17%) | 69 |
| Critical (15%) | 39 |

Table 7a-6. Annual SWP Total Energy Use

**NAA**

| Statistic | Energy Use (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 9,471 |
| 20% | 8,493 |
| 30% | 7,999 |
| 40% | 7,378 |
| 50% | 6,546 |
| 60% | 5,732 |
| 70% | 4,888 |
| 80% | 4,290 |
| 90% | 2,911 |
| Long Term | |
| Full Simulation Period | 6,403 |
| Water Year Types | |
| Wet (32%) | 8,625 |
| Above Normal (12%) | 7,320 |

| Statistic | Energy Use (GWh) |
|---|---|
| Below Normal (24%) | 6,407 |
| Dry (17%) | 4,582 |
| Critical (15%) | 2,986 |

**Alt3**

| Statistic | Energy Use (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 5,481 |
| 20% | 5,045 |
| 30% | 4,534 |
| 40% | 3,685 |
| 50% | 3,133 |
| 60% | 2,730 |
| 70% | 2,407 |
| 80% | 2,054 |
| 90% | 1,319 |
| Long Term | |
| Full Simulation Period | 3,395 |
| Water Year Types | |
| Wet (32%) | 4,921 |
| Above Normal (12%) | 3,748 |
| Below Normal (24%) | 3,128 |
| Dry (17%) | 2,358 |
| Critical (15%) | 1,461 |

**Alt3 minus NAA**

| Statistic | Energy Use (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | -3,990 |
| 20% | -3,448 |
| 30% | -3,466 |
| 40% | -3,693 |
| 50% | -3,413 |
| 60% | -3,001 |
| 70% | -2,482 |
| 80% | -2,236 |
| 90% | -1,592 |
| Long Term | |
| Full Simulation Period | -3,007 |
| Water Year Types | |
| Wet (32%) | -3,704 |
| Above Normal (12%) | -3,572 |
| Below Normal (24%) | -3,278 |
| Dry (17%) | -2,224 |
| Critical (15%) | -1,525 |

## Table 7a-7. Annual SWP Total Energy Use

**NAA**

| Statistic | Energy Use (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 9,471 |
| 20% | 8,493 |
| 30% | 7,999 |
| 40% | 7,378 |
| 50% | 6,546 |
| 60% | 5,732 |
| 70% | 4,888 |
| 80% | 4,290 |
| 90% | 2,911 |
| Long Term | |
| Full Simulation Period | 6,403 |
| Water Year Types | |
| Wet (32%) | 8,625 |
| Above Normal (12%) | 7,320 |
| Below Normal (24%) | 6,407 |
| Dry (17%) | 4,582 |
| Critical (15%) | 2,986 |

**Alt4**

| Statistic | Energy Use (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 9,492 |
| 20% | 8,464 |
| 30% | 8,228 |
| 40% | 7,703 |
| 50% | 6,849 |
| 60% | 6,140 |
| 70% | 5,118 |
| 80% | 4,431 |
| 90% | 3,161 |
| Long Term | |
| Full Simulation Period | 6,644 |
| Water Year Types | |
| Wet (32%) | 8,863 |
| Above Normal (12%) | 7,522 |
| Below Normal (24%) | 6,743 |
| Dry (17%) | 4,787 |
| Critical (15%) | 3,155 |

**Alt4 minus NAA**

| Statistic | Energy Use (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 22 |
| 20% | -28 |
| 30% | 229 |

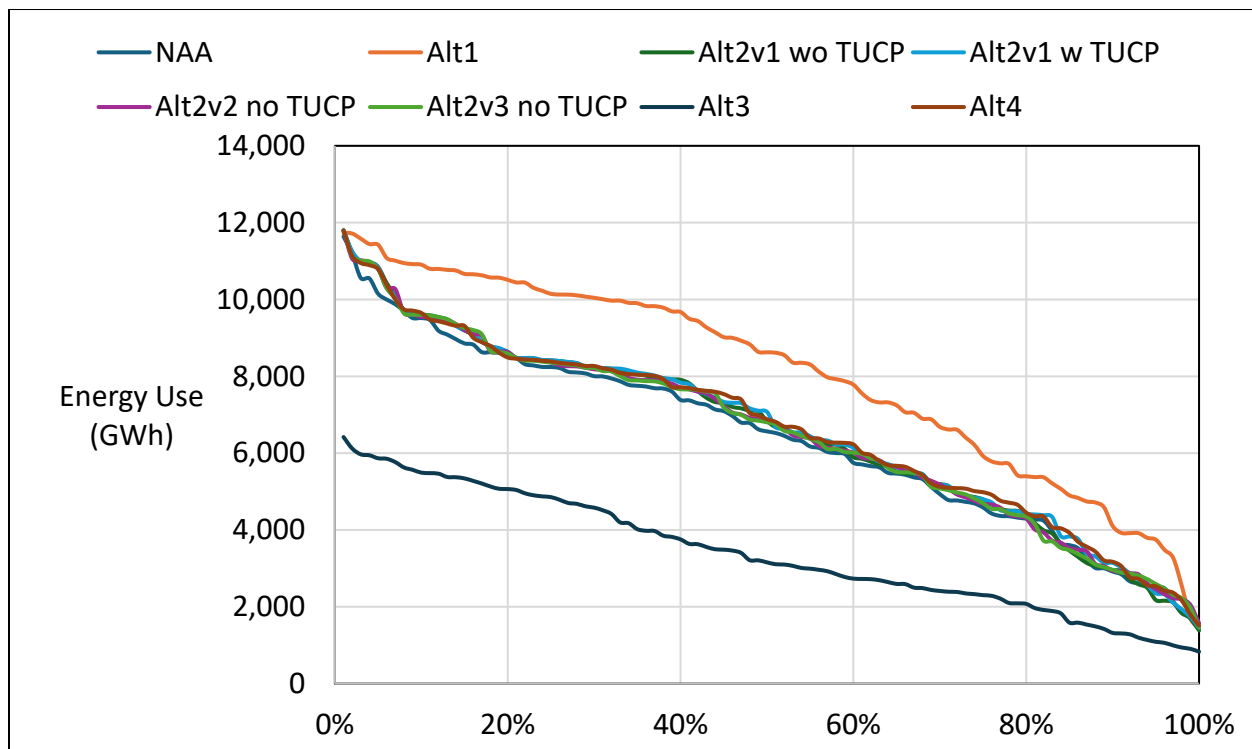| Statistic | Energy Use (GWh) |
|---|---|
| 40% | 324 |
| 50% | 303 |
| 60% | 409 |
| 70% | 229 |
| 80% | 141 |
| 90% | 251 |
| Long Term | |
| Full Simulation Period | 241 |
| Water Year Types | |
| Wet (32%) | 238 |
| Above Normal (12%) | 202 |
| Below Normal (24%) | 336 |
| Dry (17%) | 205 |
| Critical (15%) | 169 |

Figure 7a-1. October-September SWP Total Energy Use



Table 8a-1. Annual SWP Net Generation

**NAA**

| Statistic | Net Generation (GWh) |
|---|---|
| Probability of Exceedance | |

| Statistic | Net Generation (GWh) |
|---|---|
| 10% | -1,143 |
| 20% | -1,712 |
| 30% | -2,090 |
| 40% | -2,399 |
| 50% | -2,692 |
| 60% | -3,029 |
| 70% | -3,302 |
| 80% | -3,589 |
| 90% | -3,985 |
| Long Term | |
| Full Simulation Period | -2,671 |
| Water Year Types | |
| Wet (32%) | -3,234 |
| Above Normal (12%) | -3,025 |
| Below Normal (24%) | -3,060 |
| Dry (17%) | -2,029 |
| Critical (15%) | -1,290 |

**Alt1**

| Statistic | Net Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | -1,983 |
| 20% | -2,706 |
| 30% | -3,485 |
| 40% | -3,918 |
| 50% | -4,334 |
| 60% | -4,520 |
| 70% | -4,700 |
| 80% | -4,996 |
| 90% | -5,240 |
| Long Term | |
| Full Simulation Period | -3,927 |
| Water Year Types | |
| Wet (32%) | -4,623 |
| Above Normal (12%) | -4,812 |
| Below Normal (24%) | -4,319 |
| Dry (17%) | -3,192 |
| Critical (15%) | -1,937 |

**Alt1 minus NAA**

| Statistic | Net Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | -839 |
| 20% | -994 |
| 30% | -1,396 |
| 40% | -1,519 |
| 50% | -1,642 |
| 60% | -1,491 |
| 70% | -1,398 |

| Statistic | Net Generation (GWh) |
|---|---|
| 80% | -1,408 |
| 90% | -1,255 |
| Long Term | |
| Full Simulation Period | -1,256 |
| Water Year Types | |
| Wet (32%) | -1,389 |
| Above Normal (12%) | -1,787 |
| Below Normal (24%) | -1,259 |
| Dry (17%) | -1,163 |
| Critical (15%) | -647 |

Table 8a-2. Annual SWP Net Generation

**NAA**

| Statistic | Net Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | -1,143 |
| 20% | -1,712 |
| 30% | -2,090 |
| 40% | -2,399 |
| 50% | -2,692 |
| 60% | -3,029 |
| 70% | -3,302 |
| 80% | -3,589 |
| 90% | -3,985 |
| Long Term | |
| Full Simulation Period | -2,671 |
| Water Year Types | |
| Wet (32%) | -3,234 |
| Above Normal (12%) | -3,025 |
| Below Normal (24%) | -3,060 |
| Dry (17%) | -2,029 |
| Critical (15%) | -1,290 |

**Alt2v1 wo TUCP**

| Statistic | Net Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | -1,153 |
| 20% | -1,748 |
| 30% | -2,191 |
| 40% | -2,604 |
| 50% | -2,877 |
| 60% | -3,203 |
| 70% | -3,596 |
| 80% | -3,871 |
| 90% | -4,247 |
| Long Term | |

| Statistic | Net Generation (GWh) |
|---|---|
| Full Simulation Period | -2,821 |
| Water Year Types | |
| Wet (32%) | -3,461 |
| Above Normal (12%) | -3,211 |
| Below Normal (24%) | -3,281 |
| Dry (17%) | -2,151 |
| Critical (15%) | -1,169 |

**Alt2v1 wo TUCP minus NAA**

| Statistic | Net Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | -10 |
| 20% | -36 |
| 30% | -101 |
| 40% | -205 |
| 50% | -185 |
| 60% | -174 |
| 70% | -294 |
| 80% | -282 |
| 90% | -262 |
| Long Term | |
| Full Simulation Period | -151 |
| Water Year Types | |
| Wet (32%) | -227 |
| Above Normal (12%) | -186 |
| Below Normal (24%) | -221 |
| Dry (17%) | -123 |
| Critical (15%) | 121 |

Table 8a-3. Annual SWP Net Generation

**NAA**

| Statistic | Net Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | -1,143 |
| 20% | -1,712 |
| 30% | -2,090 |
| 40% | -2,399 |
| 50% | -2,692 |
| 60% | -3,029 |
| 70% | -3,302 |
| 80% | -3,589 |
| 90% | -3,985 |
| Long Term | |
| Full Simulation Period | -2,671 |
| Water Year Types | |
| Wet (32%) | -3,234 |

| Statistic | Net Generation (GWh) |
|---|---|
| Above Normal (12%) | -3,025 |
| Below Normal (24%) | -3,060 |
| Dry (17%) | -2,029 |
| Critical (15%) | -1,290 |

**Alt2v1 w TUCP**

| Statistic | Net Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | -1,187 |
| 20% | -1,883 |
| 30% | -2,198 |
| 40% | -2,607 |
| 50% | -2,869 |
| 60% | -3,232 |
| 70% | -3,599 |
| 80% | -3,915 |
| 90% | -4,227 |
| Long Term | |
| Full Simulation Period | -2,856 |
| Water Year Types | |
| Wet (32%) | -3,464 |
| Above Normal (12%) | -3,248 |
| Below Normal (24%) | -3,295 |
| Dry (17%) | -2,168 |
| Critical (15%) | -1,324 |

**Alt2v1 w TUCP minus NAA**

| Statistic | Net Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | -43 |
| 20% | -172 |
| 30% | -108 |
| 40% | -207 |
| 50% | -177 |
| 60% | -203 |
| 70% | -297 |
| 80% | -326 |
| 90% | -243 |
| Long Term | |
| Full Simulation Period | -185 |
| Water Year Types | |
| Wet (32%) | -230 |
| Above Normal (12%) | -222 |
| Below Normal (24%) | -235 |
| Dry (17%) | -139 |
| Critical (15%) | -34 |

## Table 8a-4. Annual SWP Net Generation

**NAA**

| Statistic | Net Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | -1,143 |
| 20% | -1,712 |
| 30% | -2,090 |
| 40% | -2,399 |
| 50% | -2,692 |
| 60% | -3,029 |
| 70% | -3,302 |
| 80% | -3,589 |
| 90% | -3,985 |
| Long Term | |
| Full Simulation Period | -2,671 |
| Water Year Types | |
| Wet (32%) | -3,234 |
| Above Normal (12%) | -3,025 |
| Below Normal (24%) | -3,060 |
| Dry (17%) | -2,029 |
| Critical (15%) | -1,290 |

**Alt2v2 no TUCP**

| Statistic | Net Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | -1,187 |
| 20% | -1,875 |
| 30% | -2,288 |
| 40% | -2,541 |
| 50% | -2,808 |
| 60% | -3,212 |
| 70% | -3,554 |
| 80% | -3,787 |
| 90% | -4,176 |
| Long Term | |
| Full Simulation Period | -2,819 |
| Water Year Types | |
| Wet (32%) | -3,451 |
| Above Normal (12%) | -3,169 |
| Below Normal (24%) | -3,233 |
| Dry (17%) | -2,143 |
| Critical (15%) | -1,295 |

**Alt2v2 no TUCP minus NAA**

| Statistic | Net Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | -44 |
| 20% | -163 |
| 30% | -199 |

| Statistic | Net Generation (GWh) |
|---|---|
| 40% | -141 |
| 50% | -116 |
| 60% | -183 |
| 70% | -252 |
| 80% | -199 |
| 90% | -191 |
| Long Term | |
| Full Simulation Period | -148 |
| Water Year Types | |
| Wet (32%) | -217 |
| Above Normal (12%) | -144 |
| Below Normal (24%) | -173 |
| Dry (17%) | -114 |
| Critical (15%) | -5 |

Table 8a-5. Annual SWP Net Generation

**NAA**

| Statistic | Net Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | -1,143 |
| 20% | -1,712 |
| 30% | -2,090 |
| 40% | -2,399 |
| 50% | -2,692 |
| 60% | -3,029 |
| 70% | -3,302 |
| 80% | -3,589 |
| 90% | -3,985 |
| Long Term | |
| Full Simulation Period | -2,671 |
| Water Year Types | |
| Wet (32%) | -3,234 |
| Above Normal (12%) | -3,025 |
| Below Normal (24%) | -3,060 |
| Dry (17%) | -2,029 |
| Critical (15%) | -1,290 |

**Alt2v3 no TUCP**

| Statistic | Net Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | -1,201 |
| 20% | -1,810 |
| 30% | -2,270 |
| 40% | -2,503 |
| 50% | -2,778 |
| 60% | -3,216 |

| Statistic | Net Generation (GWh) |
|---|---|
| 70% | -3,557 |
| 80% | -3,827 |
| 90% | -4,173 |
| Long Term | |
| Full Simulation Period | -2,814 |
| Water Year Types | |
| Wet (32%) | -3,463 |
| Above Normal (12%) | -3,158 |
| Below Normal (24%) | -3,213 |
| Dry (17%) | -2,104 |
| Critical (15%) | -1,320 |

**Alt2v3 no TUCP minus NAA**

| Statistic | Net Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | -57 |
| 20% | -98 |
| 30% | -181 |
| 40% | -104 |
| 50% | -86 |
| 60% | -187 |
| 70% | -255 |
| 80% | -238 |
| 90% | -188 |
| Long Term | |
| Full Simulation Period | -143 |
| Water Year Types | |
| Wet (32%) | -229 |
| Above Normal (12%) | -133 |
| Below Normal (24%) | -153 |
| Dry (17%) | -76 |
| Critical (15%) | -30 |

Table 8a-6. Annual SWP Net Generation

**NAA**

| Statistic | Net Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | -1,143 |
| 20% | -1,712 |
| 30% | -2,090 |
| 40% | -2,399 |
| 50% | -2,692 |
| 60% | -3,029 |
| 70% | -3,302 |
| 80% | -3,589 |
| 90% | -3,985 |

| Statistic | Net Generation (GWh) |
|---|---|
| Long Term | |
| Full Simulation Period | -2,671 |
| Water Year Types | |
| Wet (32%) | -3,234 |
| Above Normal (12%) | -3,025 |
| Below Normal (24%) | -3,060 |
| Dry (17%) | -2,029 |
| Critical (15%) | -1,290 |

**Alt3**

| Statistic | Net Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 293 |
| 20% | 77 |
| 30% | -72 |
| 40% | -149 |
| 50% | -316 |
| 60% | -489 |
| 70% | -637 |
| 80% | -812 |
| 90% | -1,144 |
| Long Term | |
| Full Simulation Period | -369 |
| Water Year Types | |
| Wet (32%) | -407 |
| Above Normal (12%) | -467 |
| Below Normal (24%) | -584 |
| Dry (17%) | -184 |
| Critical (15%) | -74 |

**Alt3 minus NAA**

| Statistic | Net Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 1,436 |
| 20% | 1,789 |
| 30% | 2,017 |
| 40% | 2,251 |
| 50% | 2,375 |
| 60% | 2,540 |
| 70% | 2,665 |
| 80% | 2,777 |
| 90% | 2,840 |
| Long Term | |
| Full Simulation Period | 2,302 |
| Water Year Types | |
| Wet (32%) | 2,827 |
| Above Normal (12%) | 2,558 |
| Below Normal (24%) | 2,476 |
| Dry (17%) | 1,845 |

| Statistic | Net Generation (GWh) |
|---|---|
| Critical (15%) | 1,217 |

## Table 8a-7. Annual SWP Net Generation

**NAA**

| Statistic | Net Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | -1,143 |
| 20% | -1,712 |
| 30% | -2,090 |
| 40% | -2,399 |
| 50% | -2,692 |
| 60% | -3,029 |
| 70% | -3,302 |
| 80% | -3,589 |
| 90% | -3,985 |
| Long Term | |
| Full Simulation Period | -2,671 |
| Water Year Types | |
| Wet (32%) | -3,234 |
| Above Normal (12%) | -3,025 |
| Below Normal (24%) | -3,060 |
| Dry (17%) | -2,029 |
| Critical (15%) | -1,290 |

**Alt4**

| Statistic | Net Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | -1,236 |
| 20% | -1,974 |
| 30% | -2,231 |
| 40% | -2,595 |
| 50% | -2,901 |
| 60% | -3,235 |
| 70% | -3,497 |
| 80% | -3,872 |
| 90% | -4,250 |
| Long Term | |
| Full Simulation Period | -2,871 |
| Water Year Types | |
| Wet (32%) | -3,438 |
| Above Normal (12%) | -3,226 |
| Below Normal (24%) | -3,330 |
| Dry (17%) | -2,207 |
| Critical (15%) | -1,395 |

**Alt4 minus NAA**

| Statistic | Net Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | -93 |
| 20% | -262 |
| 30% | -141 |
| 40% | -195 |
| 50% | -210 |
| 60% | -206 |
| 70% | -195 |
| 80% | -284 |
| 90% | -265 |
| Long Term | |
| Full Simulation Period | -200 |
| Water Year Types | |
| Wet (32%) | -204 |
| Above Normal (12%) | -201 |
| Below Normal (24%) | -270 |
| Dry (17%) | -179 |
| Critical (15%) | -105 |

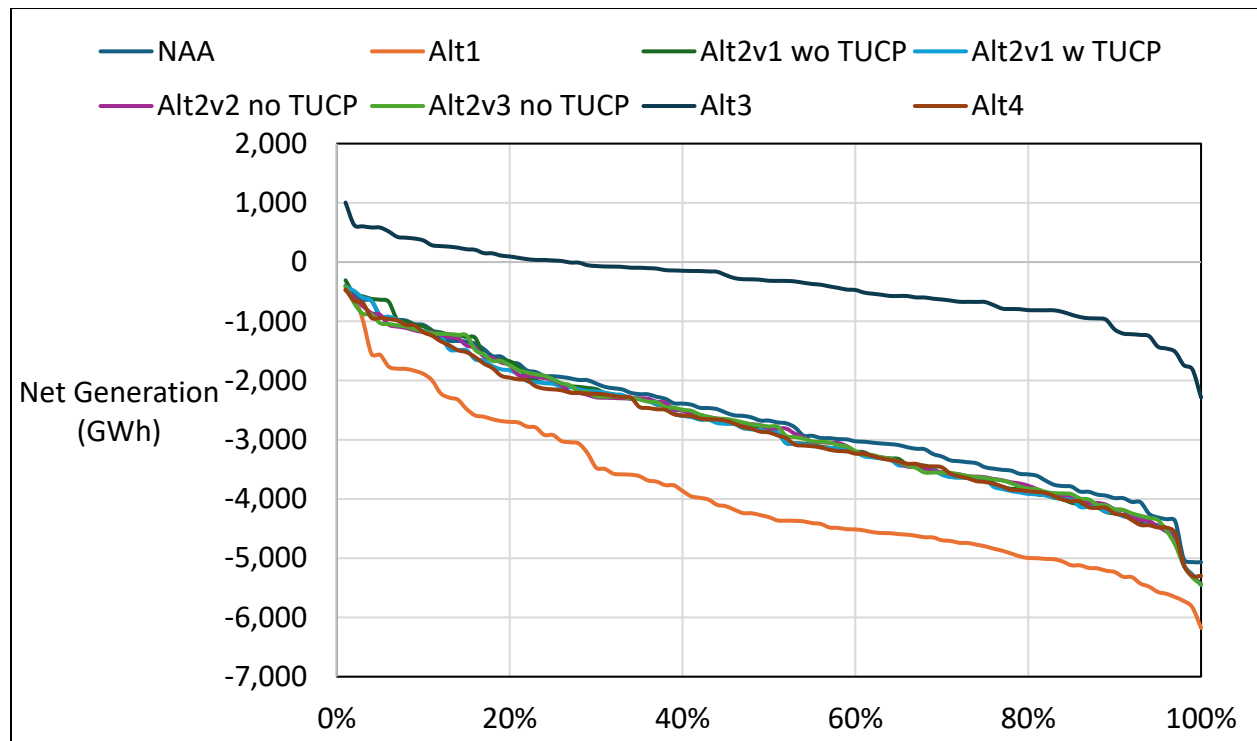Figure 8a-1. October-September SWP Net Generation

Table 9a-1. Annual CVP and SWP Net Generation

**NAA**

| Statistic | Net Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 1,344 |
| 20% | 1,132 |
| 30% | 786 |
| 40% | 598 |
| 50% | 321 |
| 60% | 0 |
| 70% | -267 |
| 80% | -500 |
| 90% | -863 |
| Long Term | |
| Full Simulation Period | 261 |
| Water Year Types | |
| Wet (32%) | 692 |
| Above Normal (12%) | 67 |
| Below Normal (24%) | -508 |
| Dry (17%) | 432 |
| Critical (15%) | 532 |

**Alt1**

| Statistic | Net Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 275 |
| 20% | -240 |
| 30% | -611 |
| 40% | -860 |
| 50% | -1,211 |
| 60% | -1,338 |
| 70% | -1,651 |
| 80% | -2,108 |
| 90% | -2,324 |
| Long Term | |
| Full Simulation Period | -1,109 |
| Water Year Types | |
| Wet (32%) | -836 |
| Above Normal (12%) | -2,033 |
| Below Normal (24%) | -1,847 |
| Dry (17%) | -811 |
| Critical (15%) | -111 |

**Alt1 minus NAA**

| Statistic | Net Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | -1,069 |
| 20% | -1,372 |
| 30% | -1,397 |

| Statistic | Net Generation (GWh) |
|---|---|
| 40% | -1,458 |
| 50% | -1,533 |
| 60% | -1,338 |
| 70% | -1,384 |
| 80% | -1,609 |
| 90% | -1,462 |
| Long Term | |
| Full Simulation Period | -1,370 |
| Water Year Types | |
| Wet (32%) | -1,527 |
| Above Normal (12%) | -2,101 |
| Below Normal (24%) | -1,339 |
| Dry (17%) | -1,244 |
| Critical (15%) | -643 |

Table 9a-2. Annual CVP and SWP Net Generation

**NAA**

| Statistic | Net Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 1,344 |
| 20% | 1,132 |
| 30% | 786 |
| 40% | 598 |
| 50% | 321 |
| 60% | 0 |
| 70% | -267 |
| 80% | -500 |
| 90% | -863 |
| Long Term | |
| Full Simulation Period | 261 |
| Water Year Types | |
| Wet (32%) | 692 |
| Above Normal (12%) | 67 |
| Below Normal (24%) | -508 |
| Dry (17%) | 432 |
| Critical (15%) | 532 |

**Alt2v1 wo TUCP**

| Statistic | Net Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 1,380 |
| 20% | 1,060 |
| 30% | 695 |
| 40% | 499 |
| 50% | 239 |
| 60% | -189 |

| Statistic | Net Generation (GWh) |
|---|---|
| 70% | -528 |
| 80% | -747 |
| 90% | -1,060 |
| Long Term | |
| Full Simulation Period | 123 |
| Water Year Types | |
| Wet (32%) | 449 |
| Above Normal (12%) | -187 |
| Below Normal (24%) | -683 |
| Dry (17%) | 381 |
| Critical (15%) | 674 |

**Alt2v1 wo TUCP minus NAA**

| Statistic | Net Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 36 |
| 20% | -72 |
| 30% | -92 |
| 40% | -99 |
| 50% | -82 |
| 60% | -189 |
| 70% | -261 |
| 80% | -247 |
| 90% | -197 |
| Long Term | |
| Full Simulation Period | -138 |
| Water Year Types | |
| Wet (32%) | -243 |
| Above Normal (12%) | -255 |
| Below Normal (24%) | -175 |
| Dry (17%) | -52 |
| Critical (15%) | 143 |

Table 9a-3. Annual CVP and SWP Net Generation

**NAA**

| Statistic | Net Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 1,344 |
| 20% | 1,132 |
| 30% | 786 |
| 40% | 598 |
| 50% | 321 |
| 60% | 0 |
| 70% | -267 |
| 80% | -500 |
| 90% | -863 |

| Statistic | Net Generation (GWh) |
|---|---|
| Long Term | |
| Full Simulation Period | 261 |
| Water Year Types | |
| Wet (32%) | 692 |
| Above Normal (12%) | 67 |
| Below Normal (24%) | -508 |
| Dry (17%) | 432 |
| Critical (15%) | 532 |

**Alt2v1 w TUCP**

| Statistic | Net Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 1,331 |
| 20% | 1,054 |
| 30% | 665 |
| 40% | 485 |
| 50% | 226 |
| 60% | -205 |
| 70% | -493 |
| 80% | -762 |
| 90% | -1,061 |
| Long Term | |
| Full Simulation Period | 100 |
| Water Year Types | |
| Wet (32%) | 451 |
| Above Normal (12%) | -200 |
| Below Normal (24%) | -666 |
| Dry (17%) | 366 |
| Critical (15%) | 514 |

**Alt2v1 w TUCP minus NAA**

| Statistic | Net Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | -13 |
| 20% | -78 |
| 30% | -122 |
| 40% | -113 |
| 50% | -95 |
| 60% | -205 |
| 70% | -226 |
| 80% | -263 |
| 90% | -198 |
| Long Term | |
| Full Simulation Period | -161 |
| Water Year Types | |
| Wet (32%) | -241 |
| Above Normal (12%) | -267 |
| Below Normal (24%) | -158 |
| Dry (17%) | -66 |

| Statistic | Net Generation (GWh) |
|---|---|
| Critical (15%) | -18 |

## Table 9a-4. Annual CVP and SWP Net Generation

**NAA**

| Statistic | Net Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 1,344 |
| 20% | 1,132 |
| 30% | 786 |
| 40% | 598 |
| 50% | 321 |
| 60% | 0 |
| 70% | -267 |
| 80% | -500 |
| 90% | -863 |
| Long Term | |
| Full Simulation Period | 261 |
| Water Year Types | |
| Wet (32%) | 692 |
| Above Normal (12%) | 67 |
| Below Normal (24%) | -508 |
| Dry (17%) | 432 |
| Critical (15%) | 532 |

**Alt2v2 no TUCP**

| Statistic | Net Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 1,305 |
| 20% | 1,100 |
| 30% | 795 |
| 40% | 462 |
| 50% | 202 |
| 60% | -125 |
| 70% | -320 |
| 80% | -610 |
| 90% | -905 |
| Long Term | |
| Full Simulation Period | 175 |
| Water Year Types | |
| Wet (32%) | 504 |
| Above Normal (12%) | -35 |
| Below Normal (24%) | -567 |
| Dry (17%) | 423 |
| Critical (15%) | 545 |

**Alt2v2 no TUCP minus NAA**

| Statistic | Net Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | -40 |
| 20% | -32 |
| 30% | 9 |
| 40% | -136 |
| 50% | -119 |
| 60% | -125 |
| 70% | -53 |
| 80% | -110 |
| 90% | -42 |
| Long Term | |
| Full Simulation Period | -86 |
| Water Year Types | |
| Wet (32%) | -188 |
| Above Normal (12%) | -103 |
| Below Normal (24%) | -59 |
| Dry (17%) | -9 |
| Critical (15%) | 14 |

Table 9a-5. Annual CVP and SWP Net Generation

**NAA**

| Statistic | Net Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 1,344 |
| 20% | 1,132 |
| 30% | 786 |
| 40% | 598 |
| 50% | 321 |
| 60% | 0 |
| 70% | -267 |
| 80% | -500 |
| 90% | -863 |
| Long Term | |
| Full Simulation Period | 261 |
| Water Year Types | |
| Wet (32%) | 692 |
| Above Normal (12%) | 67 |
| Below Normal (24%) | -508 |
| Dry (17%) | 432 |
| Critical (15%) | 532 |

**Alt2v3 no TUCP**

| Statistic | Net Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 1,288 |

| Statistic | Net Generation (GWh) |
|---|---|
| 20% | 1,105 |
| 30% | 713 |
| 40% | 444 |
| 50% | 246 |
| 60% | -93 |
| 70% | -356 |
| 80% | -658 |
| 90% | -875 |
| Long Term | |
| Full Simulation Period | 176 |
| Water Year Types | |
| Wet (32%) | 498 |
| Above Normal (12%) | -22 |
| Below Normal (24%) | -550 |
| Dry (17%) | 409 |
| Critical (15%) | 546 |

**Alt2v3 no TUCP minus NAA**

| Statistic | Net Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | -57 |
| 20% | -27 |
| 30% | -73 |
| 40% | -154 |
| 50% | -75 |
| 60% | -93 |
| 70% | -90 |
| 80% | -158 |
| 90% | -12 |
| Long Term | |
| Full Simulation Period | -85 |
| Water Year Types | |
| Wet (32%) | -194 |
| Above Normal (12%) | -90 |
| Below Normal (24%) | -42 |
| Dry (17%) | -24 |
| Critical (15%) | 14 |

Table 9a-6. Annual CVP and SWP Net Generation

**NAA**

| Statistic | Net Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 1,344 |
| 20% | 1,132 |
| 30% | 786 |
| 40% | 598 |

| Statistic | Net Generation (GWh) |
|---|---|
| 50% | 321 |
| 60% | 0 |
| 70% | -267 |
| 80% | -500 |
| 90% | -863 |
| Long Term | |
| Full Simulation Period | 261 |
| Water Year Types | |
| Wet (32%) | 692 |
| Above Normal (12%) | 67 |
| Below Normal (24%) | -508 |
| Dry (17%) | 432 |
| Critical (15%) | 532 |

**Alt3**

| Statistic | Net Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 4,961 |
| 20% | 4,293 |
| 30% | 3,820 |
| 40% | 3,485 |
| 50% | 3,023 |
| 60% | 2,711 |
| 70% | 2,429 |
| 80% | 2,003 |
| 90% | 1,679 |
| Long Term | |
| Full Simulation Period | 3,183 |
| Water Year Types | |
| Wet (32%) | 4,404 |
| Above Normal (12%) | 3,335 |
| Below Normal (24%) | 2,547 |
| Dry (17%) | 2,725 |
| Critical (15%) | 1,993 |

**Alt3 minus NAA**

| Statistic | Net Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 3,617 |
| 20% | 3,161 |
| 30% | 3,034 |
| 40% | 2,887 |
| 50% | 2,701 |
| 60% | 2,711 |
| 70% | 2,695 |
| 80% | 2,503 |
| 90% | 2,542 |
| Long Term | |
| Full Simulation Period | 2,922 |

| Statistic | Net Generation (GWh) |
|---|---|
| Water Year Types | |
| Wet (32%) | 3,712 |
| Above Normal (12%) | 3,267 |
| Below Normal (24%) | 3,054 |
| Dry (17%) | 2,292 |
| Critical (15%) | 1,462 |

Table 9a-7. Annual CVP and SWP Net Generation

**NAA**

| Statistic | Net Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 1,344 |
| 20% | 1,132 |
| 30% | 786 |
| 40% | 598 |
| 50% | 321 |
| 60% | 0 |
| 70% | -267 |
| 80% | -500 |
| 90% | -863 |
| Long Term | |
| Full Simulation Period | 261 |
| Water Year Types | |
| Wet (32%) | 692 |
| Above Normal (12%) | 67 |
| Below Normal (24%) | -508 |
| Dry (17%) | 432 |
| Critical (15%) | 532 |

**Alt4**

| Statistic | Net Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | 1,181 |
| 20% | 1,038 |
| 30% | 643 |
| 40% | 404 |
| 50% | 206 |
| 60% | -242 |
| 70% | -468 |
| 80% | -810 |
| 90% | -1,054 |
| Long Term | |
| Full Simulation Period | 71 |
| Water Year Types | |
| Wet (32%) | 461 |
| Above Normal (12%) | -180 |

| Statistic | Net Generation (GWh) |
|---|---|
| Below Normal (24%) | -722 |
| Dry (17%) | 304 |
| Critical (15%) | 447 |

**Alt4 minus NAA**

| Statistic | Net Generation (GWh) |
|---|---|
| Probability of Exceedance | |
| 10% | -163 |
| 20% | -94 |
| 30% | -143 |
| 40% | -194 |
| 50% | -115 |
| 60% | -242 |
| 70% | -202 |
| 80% | -310 |
| 90% | -192 |
| Long Term | |
| Full Simulation Period | -190 |
| Water Year Types | |
| Wet (32%) | -231 |
| Above Normal (12%) | -248 |
| Below Normal (24%) | -215 |
| Dry (17%) | -128 |
| Critical (15%) | -84 |

# Figure 9a-1. October-September CVP and SWP Net Generation