

Alcova Powerplant Kendrick Project

Ancillary Services

Alcova Ancillary Services	
Spinning Reserve	Yes
Non-Spinning Reserve	Yes
Replacement Reserve	Yes
Regulation/Load Following	Yes
Black Start	No
Voltage Support	Yes

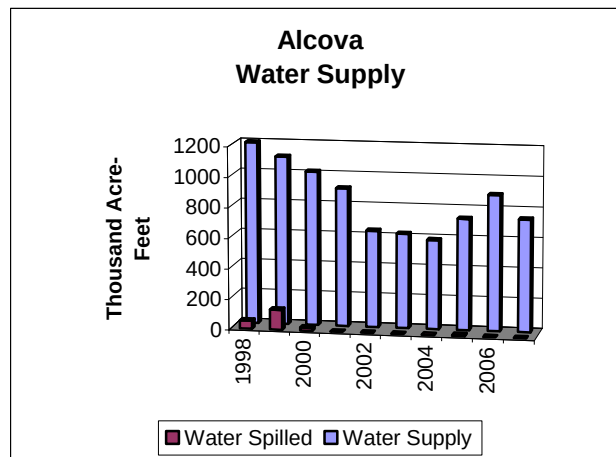
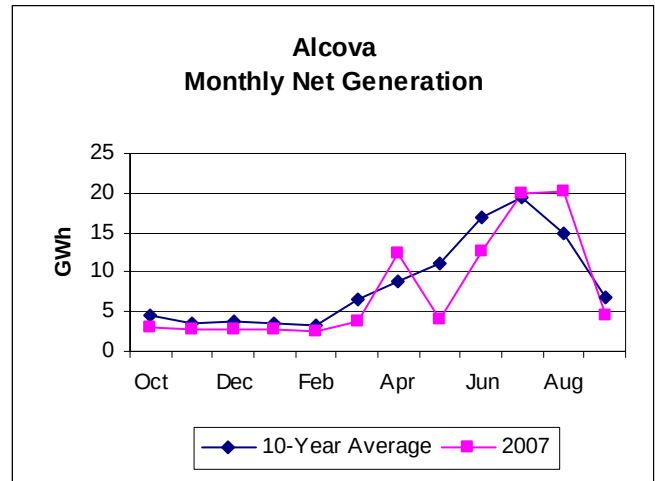
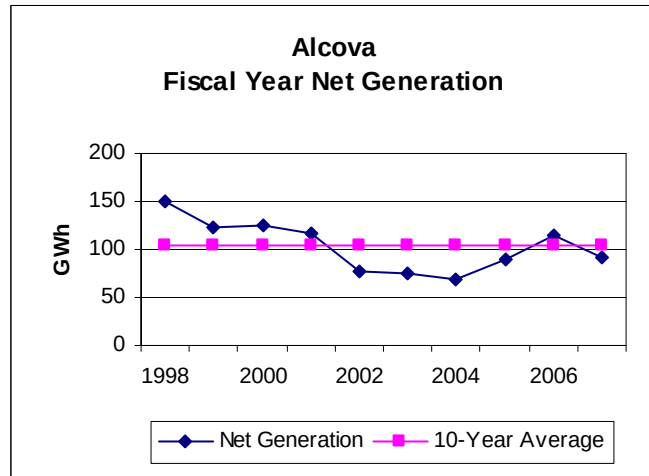
Generators

Alcova Generators			
Existing Number and Capacity			
Unit #	Original Capacity (kW)	Capacity Increased (kW)	Present Capacity (kW)
1	18,000	2,700	20,700
2	18,000	2,700	20,700
2 units	36,000	5,400	41,400

Units 1 and 2 were rewound in FY-2002 and FY-2001, respectively, for a 1.0 power factor which increased the rating per unit to 20,700 kW.

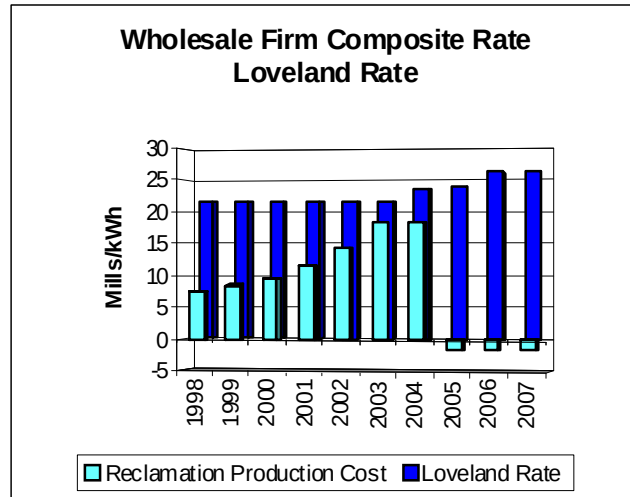
**Alcova Powerplant
30-100 MW**

Generation

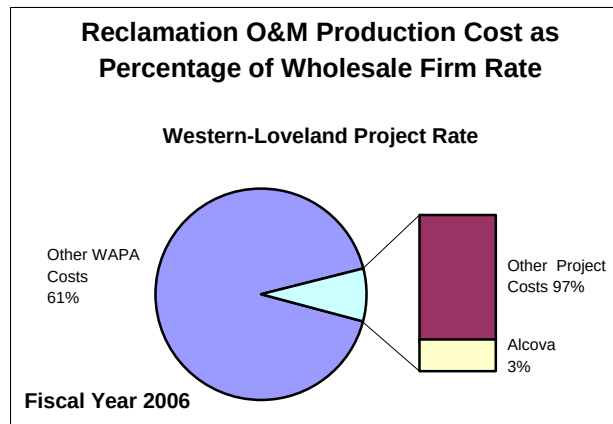


Prime Laboratory Benchmarks

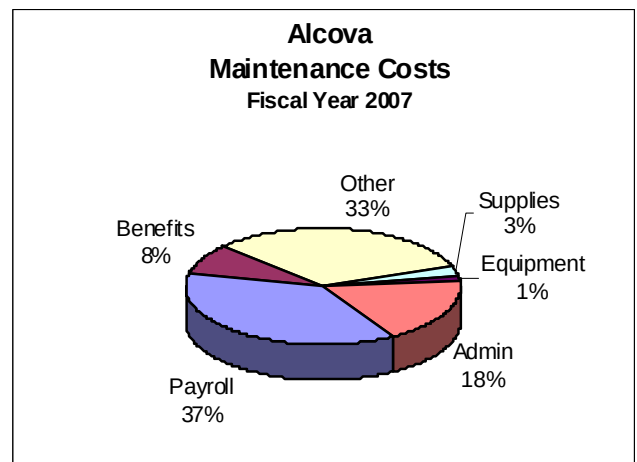
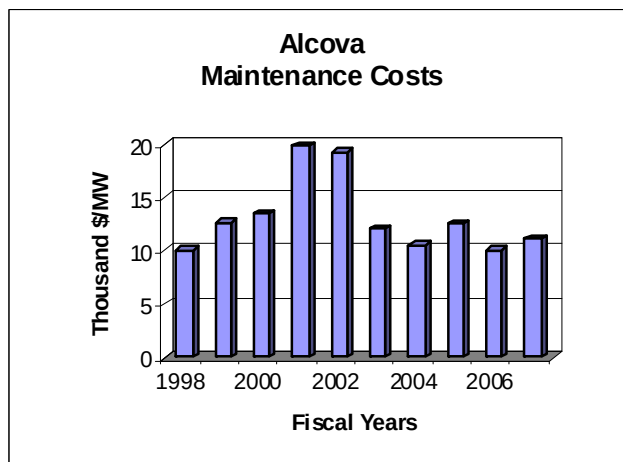
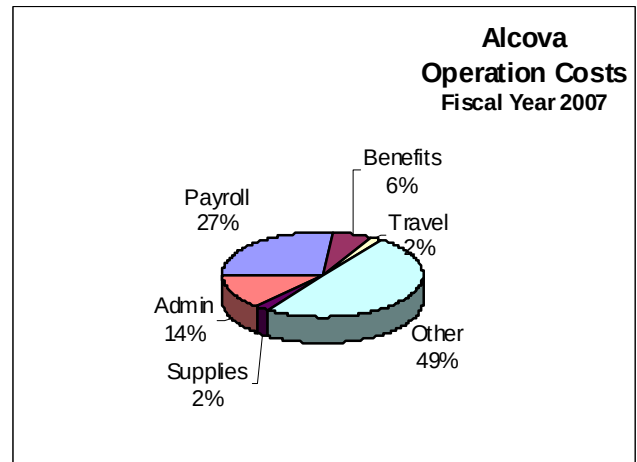
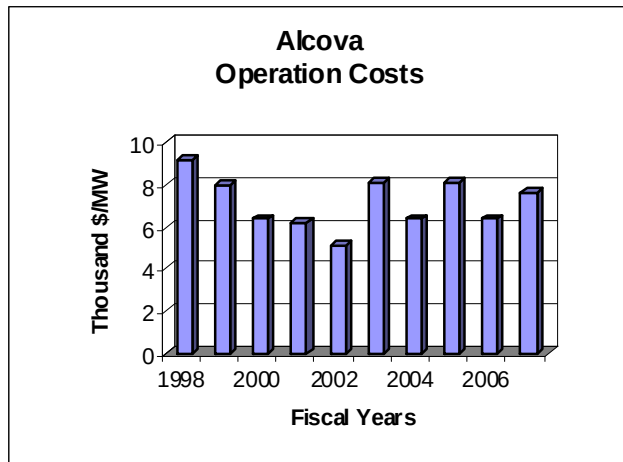
Benchmark 1 Wholesale Firm Rate



Benchmark 2 Reclamation's Production Costs as Percentage of Wholesale Firm Rate

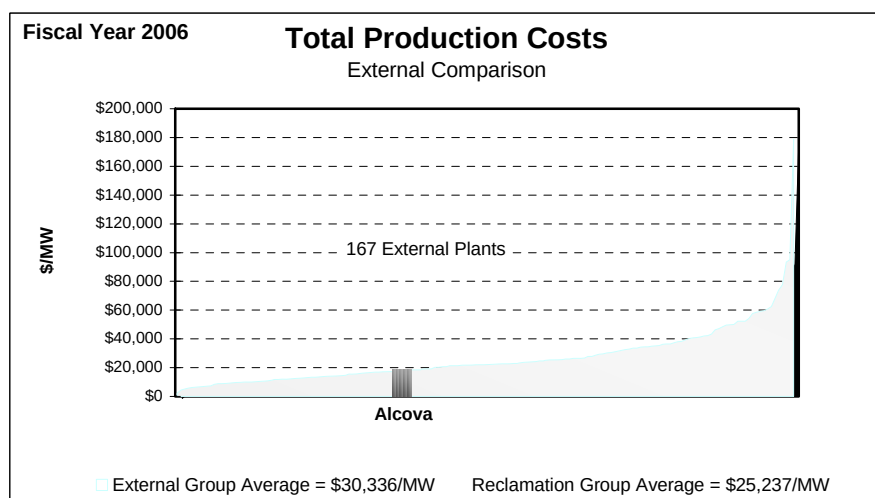
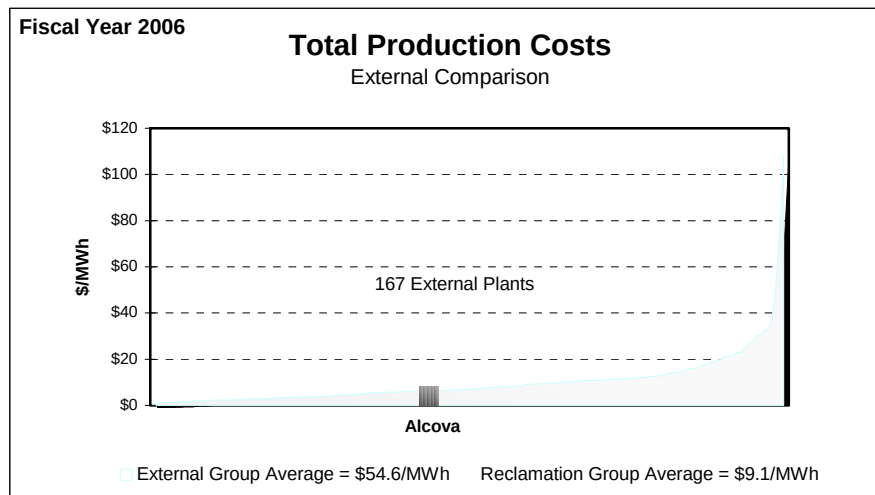
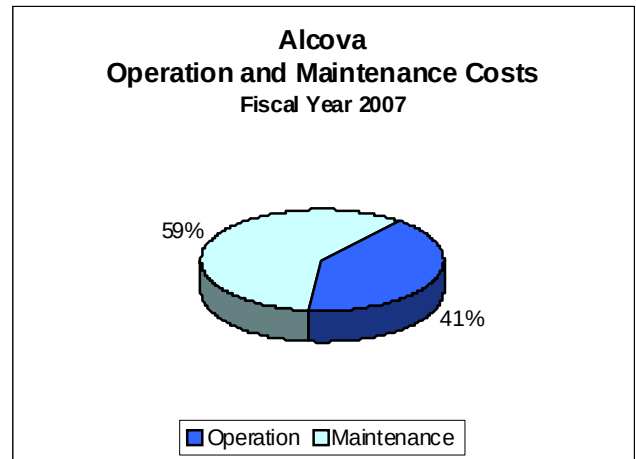
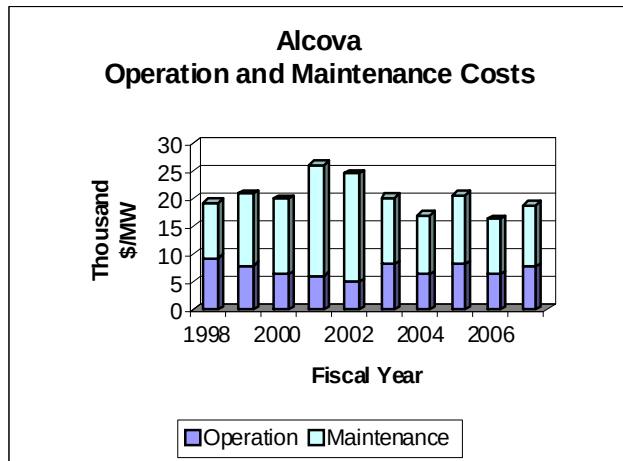


**Benchmark 3
Production Costs**



Overhaul of generator turbines in conjunction with rewind of Unit 2 in FY-2001 and Unit 1 in FY-2002.

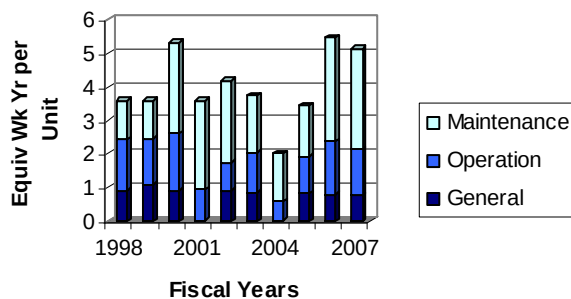
**Benchmark 3
Production Costs**



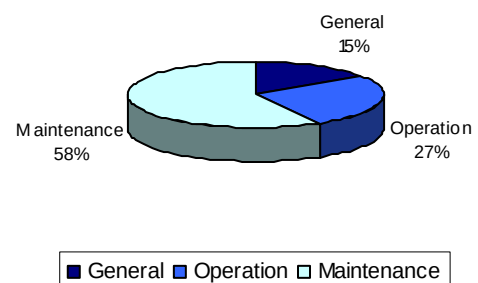
Benchmark 4
Workforce Deployment

Alcova FY 2007 Equivalent Work Staffing Year Levels						
	Equivalent Work Year Staffing Charged to Powerplant	Leave Additive	Denver and Washington Equivalent Work Year Staffing Additive	Total Equivalent Work Year Allocated to Powerplant	Total Equivalent Staffing Work Year per Generating Unit	Total Equivalent Work Year Staffing per Megawatt
General	1.36	0.15	0.04	1.55	0.78	0.04
Operation	2.45	0.28	0.00	2.72	1.36	0.07
Maintenance	5.39	0.61	0.00	6.00	3.00	0.14
Total Staffing	9.20	1.04	0.04	10.28	5.14	0.25

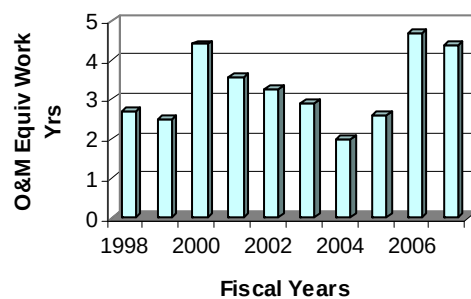
Alcova
Equivalent Work Year per Unit



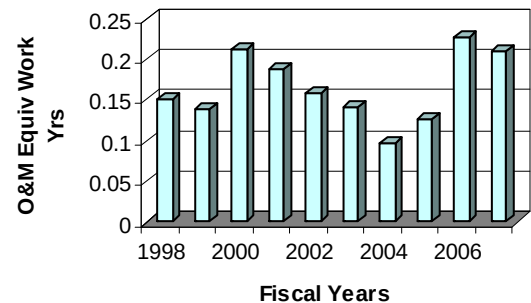
Alcova
Equivalent Work Year per Unit
2007



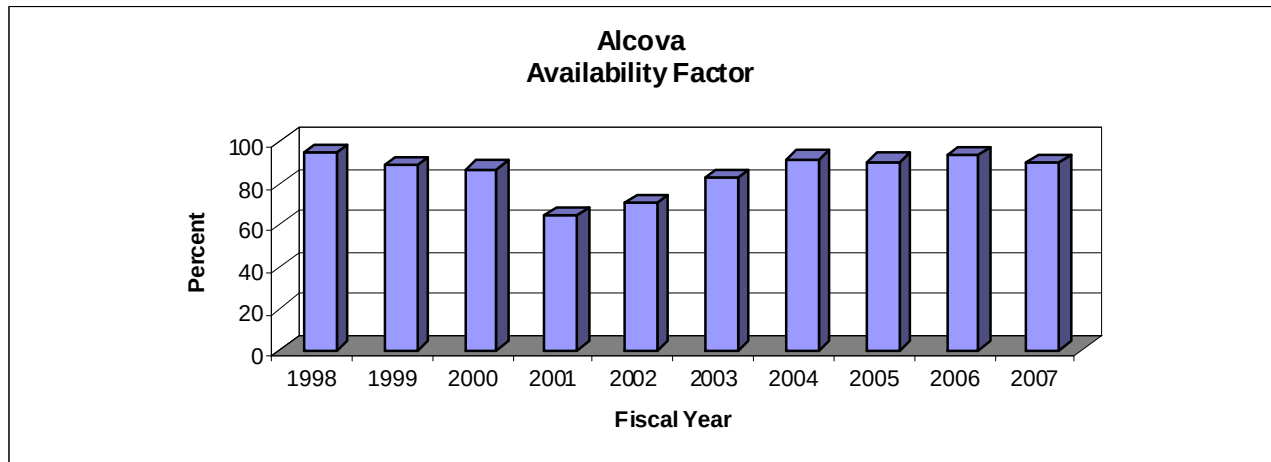
Alcova
O&M Equivalent Work Years per Unit



Alcova
O&M Equivalent Work Years per MW



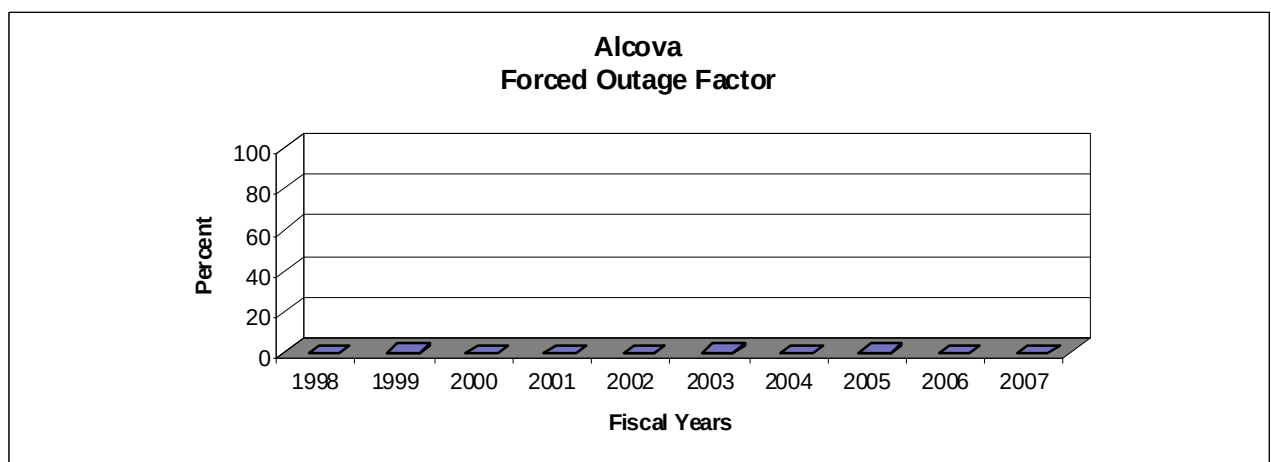
**Benchmark 5
Plant Availability Factor**



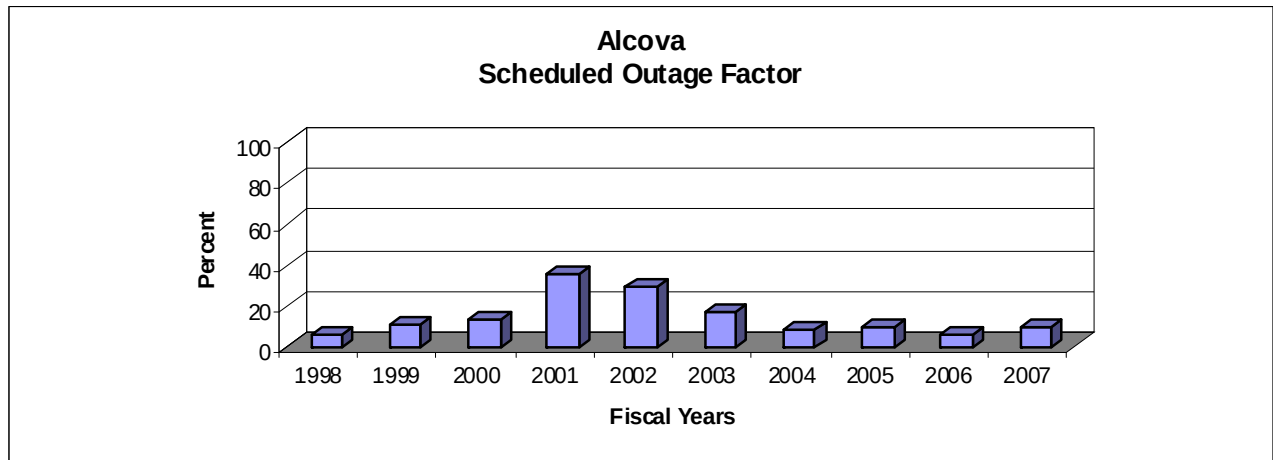
FY-2001 - Extended outage on Unit 2 for rewind and overhaul.

FY-2002 - Extended outage on Unit 1 for rewind and overhaul.

**Benchmark 6
Plant Forced Outage Factor**



**Benchmark 7
Plant Scheduled Outage Factor**

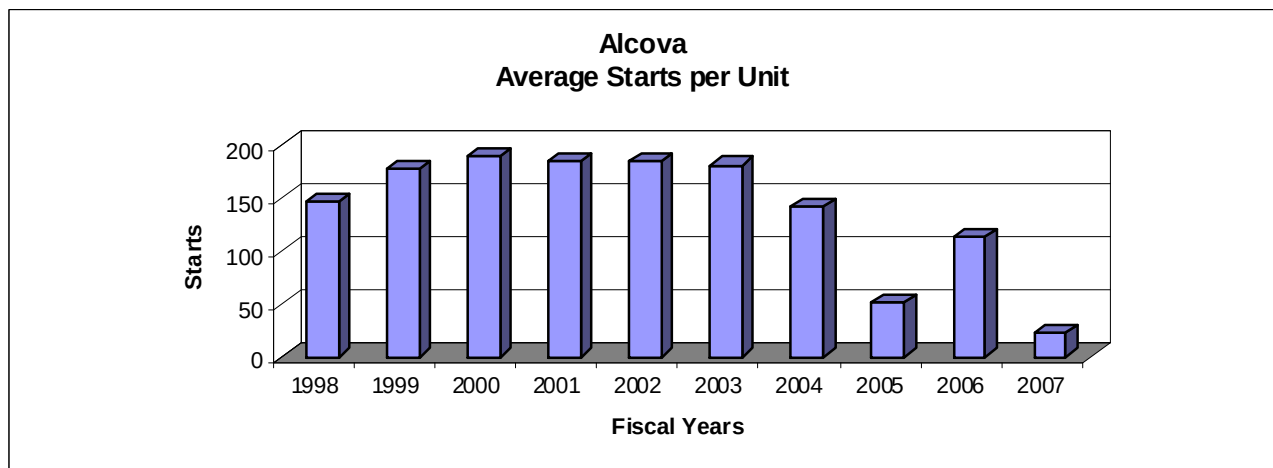


FY-2001 - Extended outage on Unit 2 for rewind and overhaul.

FY-2002 - Extended outage on Unit 1 for rewind and overhaul.

FY-2003 - Unit 2 scheduled outage extended to rebuild governor after the annual inspection.

Unit Starts



Benchmark Data Comparison					
Fiscal Year 2007	Alcova Powerplant	Reclamation Average 30- 100 MW Group	Total Reclamation Average	Industry Average	Best Performers
Wholesale Firm Rate Mills/kWh	23.9	Not Applicable	*22.45	Not Available	Not Available
Production Cost as Percentage of Wholesale Firm Rate	1.8%	Not Applicable	12.1%	Not Applicable	Not Applicable
O&M Cost \$/MWh	8.5	7.8	2.8	***54.63	1.0
O&M Costs \$/MW	18,745	24,132	7,847	***30,336	2,897
O&M Equip Work Year per MW	0.10	0.10	0.03	Not Available	0.0
Availability Factor	90.2	81.3	82.3	**88.3	98.5
Forced Outage Factor	0.1	0.2	2.6	**1.8	0.0
Scheduled Outage Factor	9.7	18.5	15.1	**9.9	0.0

*Weighted by Net Generation

**2006 NERC Average

***Energy Information Administration Data