

Cost of Generation Inputs

Plant Type Assumptions (Select)	Combined Cycle Standard - 2 Turbines, Duct Firing
Financial (Ownership) Assumptions (Select)	Merchant Fossil
Ownership Type For Scenarios	Merchant
General Assumptions (Select)	Default
Base Year (All Costs In 2009 Dollars)	2009
Fuel Type (Accept Default)	Natural Gas
<i>Data Source</i>	<i>Aspen 5-23-09</i>
Start (Inservice) Year (Enter)	2009
Natural Gas Price Forecast (Select)	CA Average
Plant Site Region (Air & Water) (Select)	CA - Avg.
Study Perspective (Select)	To Delivery Point
Reported Construction Cost Basis (Select)	Instant
Turbine Configuration (Select)	2
Carbon Price Forecast(Select)	No Carbon Price
Cost Scenario(Select)	Mid-range
Tax Loss Treatment (Select)	Loss Recovered in Single Year

Warning: Changing these cells will overwrite any modifications you have made to that category of inputs. Save inputs as a New Scenario if you

Input Coding
Plant Type Assumptions
Financial Assumptions
General Assumptions
Data 1 & Data 2
Fuel Price Forecast

Instructions for Input Selection

(Review Instructions Worksheet)

1. Select Plant Type (C5,6)
2. Select Financial (Ownership) Assumptions (C7)
3. Select General Assumptions (C9)
4. Enter Start Year (C14)
5. Select Fuel Price - by Area (C15)
6. Select Plant Site Region (C16)
7. Select Location Perspective (C17)
8. Identify whether Costs are Instant or Installed (C18)
9. Select Turbine Configuration; for CCs only.
- 10. REPEAT INSTRUCTIONS 1, 2 & 3.**
11. Read Output Results (F8- H17)

Instructions for Saving New Scenario

(Saving New Set of Assumptions)

1. Click "Save as New Scenario" Button.

SUMMARY OF LEVELIZED COSTS Combined Cycle Standard - 2 Turbines, Duct Firing		
Start Year = 2009 (2009 Dollars)	\$/kW-Yr	\$/MWh
Capital & Financing - Construction	\$172.85	\$30.26
Insurance	\$8.35	\$1.46
Ad Valorem Costs	\$11.36	\$1.99
Fixed O&M	\$9.52	\$1.67
Corporate Taxes (w/Credits)	\$56.84	\$9.95
Fixed Costs	\$258.92	\$45.32
Fuel & GHG Emissions Costs	\$418.13	\$73.19
Variable O&M	\$20.88	\$3.66
Variable Costs	\$439.01	\$76.85
Transmission Service Costs	\$29.74	\$5.21
Total Levelized Costs	\$727.67	\$127.38
	\$713.26	\$124.86

KEY DATA VALUES

Capital & Operating Costs	Base Yr 2009	Start Yr 2009
Instant Cost (\$/kW)	\$1,078	\$1,078
Installed Cost (\$/kW)	\$1,256	\$1,256
Fixed O&M Cost (\$/kW-Yr)	\$8.30	\$8.30
Variable O&M Cost (\$/MWh)	\$2.97	\$2.97

Capacity & Energy 2009	Capacity (MW)	Effective (MW)
Gross (Dependable)	550.0	550.0
Net Capacity - Plant Side	534.1	534.1
Net Capacity - Transmission Side	531.4	531.4
To Delivery Point	520.3	520.3

Operational Performance	Factor	Hours
Scheduled Outage Factor	6.02%	527.4
Forced Outage Rate (FOR)	2.24%	140.5
Operational (Service) Hours Per Year		6,132.0
Equivalent Availability Factor	91.87%	
Capacity Factor	70.00%	

Fuel Use Summary	2009	Levelized
Average Heat Rate (Btu/kWh)	7,050	7,159
Fuel Use (MMBtu)	23,776,830	23,776,830
Fuel Price (\$/MMBtu)	\$6.56	\$9.67

DOCKET

09-IEP-1E

DATE APR 19 2010

RECD. APR 19 2010