

DG Benefit Analysis

Assumptions:

DG Capacity - kW AC	5000	Capacity/Trans Factors:	
Peak Load Contribution (for Obligations only)	5179.955	Losses	1.035991
Generation Obligation	5963.93	RPM Scaling Factor	1.05734938
Transmission Obligation	5179.96	Pool Reserve Factor	1.08890000
HTS Sub Rates in effect June 1, 2013 (with SUT)			
12 Months of Operation			
Hours in Current Year	8760		
Expected DG Annual Capacity Factor	90%	Planned outages	
Expected Annual DG kWh at 90%	39,420,000		
Number of Forced DG Outages*	4	(Input 0, 1, 2, 3 or 4) (1 per each summer month)	
DG Lost Outage kWh	480,000		
Net DG kWh Produced	38,940,000		
Effective DG Annual Capacity factor	88.90%	Percent	

*Each DG Outage is for 24 hours

Annual DG Benefit to Host Facility:

	Outage	
	Not During PS Monthly System	During PS Monthly System
	Peak ¹	Peak ¹
Delivery Charges:	<u>Savings - (\$)</u>	<u>Savings - (\$)</u>
Rate		
2,058.24 Service Charge (\$)	0	0
1.0656 Annual Demand Charge (\$/kW) ²	0.00	0.00
3.8525 Summer Demand Charge (\$/kW)	77,050.00	0.00
0.000786 Distribution Charge (\$/kWh) (TEFA)	30,606.84	30,606.84
0.009420 SBC (\$/kWh)	366,814.80	366,814.80
0.003743 NGC (\$/kWh)	145,752.42	145,752.42
0.007482 STC-TBC (\$/kWh)	291,349.08	291,349.08
0.004540 STC-MTC-Tax (\$/kWh)	176,787.60	176,787.60
0.000486 Solar Pilot Recovery Charge (\$/kWh)	18,924.84	18,924.84
0.002871 RGGI Recovery Charge (\$/kWh)	111,796.74	111,796.74
Supply Charges:		
Rate (\$/kW)		
8.7703 Generation Capacity Obl³	627,665.46	125,533.09
3.9821 Transmission Capacity Obl⁴	247,525.42	49,505.08
0.006554 Ancillary (\$/kWh)	255,212.76	255,212.76
0.0409 LMP Energy Price Assumption (\$/kWh)⁵	1,592,646.00	1,592,646.00
Annual Benefit to Host Facility		
Total \$	\$3,942,131.96	\$3,164,929.25
Rate \$/kWh	\$0.101236	\$0.081277

¹PS and PJM System Peaks assumed to be coincident

²Annual Demand Ratchet cannot be calculated without specific host operating characteristics and time of outages.

³Generation Obligation Benefit becomes effective June 1 of the following year.

⁴Transmission Obligation Benefit becomes effective January 1 of the following year.

⁵Assumes Third Party Supplier, No CIEP Standby Fee