

DG Benefit Analysis

Assumptions:

DG Capacity - kW AC	100	Capacity/Trans Factors:	
Peak Load Contribution (for Obligations only)	108.7503	Losses	1.087503
Generation Obligation	125.21	RPM Scaling Factor	1.05734938
Transmission Obligation	108.75	Pool Reserve Factor	1.08890000
LPL-S 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%	788,400		
Number of Forced DG Outages*	4	(Input 0, 1, 2, 3 or 4) (1 per each summer month)	
DG Lost Outage kWh	9,600		
Net DG kWh Produced	778,800		
Effective DG Annual Capacity factor	88.90%	Percent	

*Each DG Outage is for 24 hours

Annual DG Benefit to Host Facility:

Delivery Charges:	Outage	
	Not During PS	During PS
	Monthly	Monthly
Rate	System Peak ¹	System Peak ¹
	<u>Savings - (\$)</u>	<u>Savings - (\$)</u>
374.49 Service Charge (\$)	0	0
3.5444 Annual Demand Charge (\$/kW) ²	0.00	0.00
8.4321 Summer Demand Charge (\$/kW)	3,372.84	0.00
0.001129 Distribution Charge (\$/kWh) (TEFA)	879.27	879.27
0.009736 SBC (\$/kWh)	7,582.40	7,582.40
0.003929 NGC (\$/kWh)	3,059.91	3,059.91
0.007482 STC-TBC (\$/kWh)	5,826.98	5,826.98
0.004540 STC-MTC-Tax (\$/kWh)	3,535.75	3,535.75
0.000486 Solar Pilot Recovery Charge (\$/kWh)	378.50	378.50
0.002871 RGGI Recovery Charge (\$/kWh)	2,235.93	2,235.93
Supply Charges:		
<u>Rate (\$/kW)</u>		
8.7703 Generation Capacity Obl³	13,177.55	2,635.51
3.9821 Transmission Capacity Obl⁴	5,196.64	1,039.33
0.006879 Ancillary (\$/kWh)	5,357.37	5,357.37
0.0429 LMP Energy Price Assumption (\$/kWh) ⁵	33,410.52	33,410.52
Annual Benefit to Host Facility		
Total \$	\$84,013.66	\$65,941.47
Rate \$/kWh	\$0.107876	\$0.084671

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