

PJM 2004 State of the Market Report

New Entrant Fixed Revenue Requirements CT, Combined Cycle & Coal Plants

Ray Pasteris

President

Strategic Energy Services, Inc.

PJM SOM NEW ENTRANT PLANT REVENUE REQUIREMENTS

SUMMARY	CONE CT			SOM Combined Cycle	SOM Coal
PJM REGION	New Jersey	Maryland	Illinois	PJM	PJM
CAPITAL COST					
Capital Cost (\$Million)	\$156.636	\$158.527	\$159.749	\$296.363	\$810.533
Capital Cost (\$/kW)	\$466.04	\$471.67	\$475.30	\$575.46	\$1,350.89
TOTAL REVENUE REQUIREMENTS					
2004 (\$/MW-Year)	\$58,752	\$60,305	\$60,102	\$76,116	\$169,441
2004 (\$/MW-Day)	\$160.96	\$165.22	\$164.66	\$208.54	\$464.22
2006 (\$/MW-Year)	\$61,726	\$63,359	\$63,144	\$79,969	\$178,019
2006 (\$/MW-Day)	\$169.11	\$173.59	\$173.00	\$219.09	\$487.72
Total Levelized (\$/MW-Year)	\$72,207	\$74,117	\$73,866	\$93,549	\$208,247
Total Levelized (\$/MW-Day)	\$197.83	\$203.06	\$202.37	\$256.30	\$570.54
FIXED O&M					
2004 (\$/MW-Year)	\$11,302	\$12,435	\$11,753	\$14,449	\$21,782
2004 (\$/MW-Day)	\$30.96	\$34.07	\$32.20	\$39.59	\$59.68
2006 (\$/MW-Year)	\$11,874	\$13,064	\$12,348	\$15,180	\$22,885
2006 (\$/MW-Day)	\$32.53	\$35.79	\$33.83	\$41.59	\$62.70
Total Levelized (\$/MW-Year)	\$13,890	\$15,282	\$14,444	\$17,757	\$26,770
Total Levelized (\$/MW-Day)	\$38.05	\$41.87	\$39.57	\$48.65	\$73.34
FINANCIAL CRITERIA					
Project Evaluation (Years)	20	20	20	20	20
Percent Equity	50%	50%	50%	50%	50%
Percent Debt	50%	50%	50%	50%	50%
Return on Equity (%)	12.0%	12.0%	12.0%	12.0%	12.0%
Loan Term (Years)	20	20	20	20	20
Loan Interest Rate (%)	7.00%	7.00%	7.00%	7.00%	7.00%
MACRS Tax Depreciation Schedule (Yrs)	15	15	15	20	20
Federal Income Tax Rate (%)	35.0%	35.0%	35.0%	35.0%	35.0%
State Income Tax Rate (%)	9.0%	7.0%	7.3%	9.0%	9.0%
General Escalation (%)	2.5%	2.5%	2.5%	2.5%	2.5%
GENERAL ASSUMPTIONS					
Plant Description	CT Simple Cycle	CT Simple Cycle	CT Simple Cycle	2 on 1 Combined Cycle	Subcritical-PC
CT Description	GE Frame 7FA	GE Frame 7FA	GE Frame 7FA	GE Frame 7FA	NA
ST Description	NA	NA	NA	Reheat STG	Reheat STG
Number of CTs	2	2	2	2	NA
Number of STs	NA	NA	NA	1	1
Ambient Temperature (F)	92.0	92.0	92.0	92.0	92.0
Ambient Wet Bulb Temperature (F)	78.0	78.0	78.0	78.0	78.0
Net Capacity (MW)	336.1	336.1	336.1	515.0	600.0
Heat Rate (BTU/kWh) (HHV)	10,826	10,826	10,826	7,000	9,250