


Preliminary PV Project Financials

	Quantus Energy											
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Date	10/1/2009											
Project Name	sample											
Project Location	PA											
Project Information												
System Size (kW-DC)		10										
Cost per kW (\$/kW)		\$5,500										
Total Construction Cost		\$55,000										
Key inputs												
Capacity Factor		12.0%	The ratio of a power plant's average production to its rated capability is known as <i>capacity factor</i> .									
System Performance Degradation (%/yr)		0.50%	Note: degradation reflected in annual production estimates									
Inflation Rate		3.000%					System life span	25 years				
SREC 10-Year Minimum Value per Kwh		\$0.300	0.500	0								
Utility all in rate		0.15	0.1875									
Program Years												
		<u>Yr 1</u>	<u>Yr 2</u>	<u>Yr 3</u>	<u>Yr 4</u>	<u>Yr 5</u>	<u>Yr 6</u>	<u>Yr 7</u>	<u>Yr 8</u>	<u>Yr 9</u>	<u>Yr 10</u>	<u>Yr 11</u>
Year		2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Annual Production (kWh)		10,512	10,459	10,407	10,355	10,303	10,252	10,201	10,150	10,099	10,048	9,998
Cash flow												
PA Sunshine rebates	link	22500										
Fed Tax Credit 30%	link		9750									
State Tax Credit 15%	link		0									
Assumed SREC Value	link	\$3,154	\$5,230	\$5,204	\$5,178	\$5,152	\$5,126	\$5,100	\$5,075	\$5,049	\$5,024	\$2,999
Savings from utility bill		\$1,577	\$1,961	\$1,951	\$1,942	\$1,932	\$1,922	\$1,913	\$1,903	\$1,894	\$1,884	\$1,875
Total annual income		\$27,230	\$16,941	\$7,155	\$7,119	\$7,084	\$7,048	\$7,013	\$6,978	\$6,943	\$6,908	\$4,874
Cumulative Cash Flow	-\$55,000	-\$27,770	-\$10,829	-\$3,674	\$3,445	\$10,529	\$17,577	\$24,590	\$31,568	\$38,511	\$45,419	\$50,293
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