

Proposed case power system		Incremental initial costs			
Technology	Photovoltaic				
Analysis type	<input type="radio"/> Method 1 <input checked="" type="radio"/> Method 2				
<b>Resource assessment</b>					
Solar tracking mode	Fixed				
Slope	18.4				
Azimuth	10.0				
<input checked="" type="checkbox"/> Show data					
	Month	Daily solar radiation - horizontal kWh/m <sup>2</sup> /d	Daily solar radiation - tilted kWh/m <sup>2</sup> /d	Electricity export rate \$/MWh	Electricity exported to grid MWh
	January	1.61	2.26	802.0	0.764
	February	2.62	3.40	802.0	1.024
	March	3.63	4.19	802.0	1.359
	April	4.69	5.00	802.0	1.521
	May	5.79	5.86	802.0	1.788
	June	6.34	6.27	802.0	1.809
	July	6.13	6.13	802.0	1.807
	August	5.12	5.33	802.0	1.586
	September	3.92	4.36	802.0	1.283
	October	2.71	3.31	802.0	1.042
	November	1.55	2.01	802.0	0.636
	December	1.27	1.74	802.0	0.585
	<b>Annual</b>	<b>3.79</b>	<b>4.16</b>	<b>802.00</b>	<b>15.204</b>
Annual solar radiation - horizontal	MWh/m <sup>2</sup>	1.38			
Annual solar radiation - tilted	MWh/m <sup>2</sup>	1.52			
<b>Photovoltaic</b>					
Type	mono-Si				
Power capacity	kW	12.00		\$ 65,523	<a href="#">See product database</a>
Manufacturer	Helene				
Model	mono-Si - HEE215M - 250W 48 unit(s)				
Efficiency	%	15.0%			
Nominal operating cell temperature	°C	45			
Temperature coefficient	% / °C	0.40%			
Solar collector area	m <sup>2</sup>	80			
Miscellaneous losses	%	7.0%			
<b>Inverter</b>					
Efficiency	%	97.5%			
Capacity	kW	10.0			
Miscellaneous losses	%	6.5%			
<b>Summary</b>					
Capacity factor	%	14.5%			
Electricity exported to grid	MWh	15.204			

Emission Analysis

Financial Analysis			
<b>Financial parameters</b>			
Inflation rate	%	2.0%	
Project life	yr	20	
Debt ratio	%	0%	
<b>Initial costs</b>			
Power system	\$	65,523	83.9%
Other	\$	12,583	16.1%
<b>Total initial costs</b>	\$	<b>78,106</b>	<b>100.0%</b>
<b>Incentives and grants</b>	\$		0.0%
<b>Annual costs and debt payments</b>			
O&M (savings) costs	\$		
Fuel cost - proposed case	\$	0	
<b>Total annual costs</b>	\$	<b>0</b>	
<b>Annual savings and income</b>			
Fuel cost - base case	\$	0	
Electricity export income	\$	12,194	
<b>Total annual savings and income</b>	\$	<b>12,194</b>	
<b>Financial viability</b>			
Pre-tax IRR - assets	%	16.9%	
Simple payback	yr	6.4	
Equity payback	yr	6.0	

