

Solar Capital & Production Cost

	Low	Medium	High
Capital	\$1,750	\$2,000	\$2,500
Transmission Capital (\$ per kW)	–	–	–
Total Capital Cost (\$ per kW)	\$1,750	\$2,000	\$2,500
Capacity Factor	29%	25%	21%
Cost of Capital	12%	12%	12%
Amortization	20	20	20
Annual Production (per MW Capacity)	2,540	2,190	1,840
Capital Recovery	\$234,288	\$267,758	\$301,277
Capital Recovery (\$ per MWh)	\$92.22	\$122.26	\$163.75
Variable O&M (\$ per MWh)	\$2.00	\$2.00	\$2.00
Production Cost (\$ per MWh)	\$94.22	\$124.26	\$165.75
Other Costs			
Solar Integration Charge	\$5.00	\$5.00	\$5.00
Intermittancy Penalty	\$5.00	\$5.00	\$5.00
Production Tax Credit	-\$15.00	-\$15.00	-\$15.00
Total Other Costs (\$ per MWh)	-\$5.00	-\$5.00	-\$5.00
Total Cost @ Busbar (\$ per MWh)	\$89.22	\$119.26	\$160.75

GHG = Greenhouse gas

**Results of study done by ENERGYGPS, LLC*

Wind Capital and Production Costs

	Low	Medium	High
Turbine Capital Cost (\$ per kW)	\$1,900	\$2,000	\$2,250
Transmission Capital (\$ per kW)	\$125	\$150	\$300
Total Capital Cost (\$ per kW)	\$2,050	\$2,150	\$2,550
Capacity Factor	38%	35%	30%
Cost of Capital	12%	12%	12%
Amortization	20	20	20
MWh (per MW installed)	3,329	3,066	2,628
Tons GHG	–	–	–
Capital Recovery \$'s	\$274,451	\$287,839	\$341,391
Capital Recovery \$/MWh	\$82.45	\$93.88	\$129.91
Variable O&M	\$2.00	\$2.00	\$2.00
Busbar Cost \$/MWh	\$84.45	\$95.88	\$131.91
Wind Integration Charge	\$2.50	\$5.00	\$7.50
Intermittancy Penalty	\$2.50	\$5.00	\$7.50
Production Tax Credit	-\$19.00	-\$19.00	-\$19.00
Other Cost \$/MWh	-\$14.00	-\$9.00	-\$4.00
Total Cost \$/MWh	\$70.45	\$86.88	\$127.91

GHG = Greenhouse gas

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Biomass Capital & Production Cost

Cost of building a brand new facility to burn biomass.

	Low	Medium	High
Capital (\$ per kW)	\$3,300	\$3,766	\$4,000
Transmission Capital (\$ per kW)	—	—	—
Total Capital Cost (\$ per kW)	\$3,300	\$3,766	\$4,000
Capacity Factor	95%	90%	85%
Cost of Capital	12%	12%	12%
Amortization	20	20	20
Annual Production (per MW Capacity)	8,322	7,884	7,446
Capital Recovery	\$441,800	\$504,187	\$535,515
Capital Recovery (\$ per MWh)	\$53.09	\$63.95	\$71.92
Fuel Cost (\$ per MWh)	\$16.00	\$16.00	\$16.00
Variable O&M (\$ per MWh)	\$6.71	\$6.71	\$6.71
Production Cost (\$ per MWh)	\$75.80	\$86.66	\$94.63
Other Costs			
Biomass Integration Charge	\$0.00	\$0.00	\$0.00
Intermittancy Penalty	\$0.00	\$0.00	\$0.00
Production Tax Credit	\$2.20	\$2.20	\$2.20
Total Other Costs (\$ per MWh)	\$2.20	\$2.20	\$2.20
Total Cost @ Busbar (\$ per MWh)	\$73.60	\$84.46	\$92.43

GHG = Greenhouse gas

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