

Report #:DOE/EIA-0554(2008)
 Release date: June 2008
 Next release date: February 2009

Table 9. Capital Cost and Performance Parameters of Selected Residential Distributed Generation Technologies

Technology Type	Year of Introduction	Average Generating Capacity (kW)	Electrical Efficiency	Combined Efficiency (Elec. + Thermal)	Installed Capital Cost (\$2005 per kW of Capacity) ¹	Service Life Years
Solar Photovoltaic						
	2007	2.0	0.16	N/A	\$6,924	30
	2010	2.5	0.18	N/A	\$6,944	30
	2015	3.0	0.20	N/A	\$5,310	30
	2020	3.0	0.22	N/A	\$4,627	30
	2030	4.0	0.25	N/A	\$3,840	30
Fuel Cell						
	2007	10	0.308	0.697	\$8,897	20
	2010	10	0.320	0.699	\$7,802	20
	2015	10	0.335	0.705	\$6,160	20
	2020	10	0.350	0.712	\$4,517	20
	2030	10	0.360	0.723	\$2,669	20

¹Installed costs are given in 2005 dollars in the original source document.

Source: Solar Technology Specifications: Solar Energy Industries Association, *Our Solar Power Future - The U.S. Photovoltaic Industry Roadmap through 2030 and Beyond* (SEIA, September 2004). Fuel cells: Discovery Insights, LLC, *"Installed Costs for Small CHP Systems - Estimates and Projections"* (April 2005).