

Table 4.1 – Projections of Renewable Electricity Net Capacity

(Gigawatts)

Renewable Energy	Data Sources	Projections					
		<u>2006</u>	<u>2010</u>	<u>2015</u>	<u>2020</u>	<u>2025</u>	<u>2030</u>
Geothermal	AEO2006 - Reference Case	2.23	2.56	3.19	4.61	6.02	6.64
	AEO2006 - High Renewables		2.80		6.19		9.14
	EERE GPRA FY07		2.21	2.61	3.53	4.88	
Wind	AEO2006 - Reference Case	11.56	16.27	17.71	18.81	19.80	20.10
	AEO2006 - High Renewables		16.27		18.87		22.63
	EERE GPRA FY07		8.91	18.98	77.66	135.85	
Solar ¹	AEO2006 - Reference Case	0.67	1.17	1.31	1.47	1.71	2.62
	AEO2006 - High Renewables		1.17		1.47		2.87
	EERE GPRA FY07		1.97	6.27	31.16	68.86	
Hydroelectric	AEO2006 - Reference Case	78.31	78.32	78.37	78.53	78.53	78.53
	AEO2006 - High Renewables		78.33		78.41		78.76
	EERE GPRA FY07		79.21	79.21	79.21	79.21	
Biomass/Wood (excludes cogen)	AEO2006 - Reference Case	2.09	2.15	2.15	2.46	3.45	4.63
	AEO2006 - High Renewables		2.20		3.96		10.55
	EERE GPRA FY07		1.83	2.01	2.62	4.57	
MSW and LFG	AEO2006 - Reference Case	3.55	3.78	3.92	4.02	4.11	4.14
	AEO2006 - High Renewables		3.79		4.03		4.14
	EERE GPRA FY07 ²		3.83	3.84	3.92	3.93	
Total Renewable Energy	AEO2006 - Reference Case	102.92	109.26	112.12	115.93	120.21	123.95
	AEO2006 - High Renewables		109.82		119.81		137.09
	EERE GPRA FY07 ³		98.54	115.53	196.25	225.38	

Sources: EIA *Annual Energy Outlook 2006*, DOE/EIA-0383 (2006) (Washington, D.C., February 2006), Tables A16 and D7. Total Renewable Capacity GPRA projections provided by OnLocation, February 2006.

Notes: OnLocation GPRA07 benefits estimates do not estimate any programmatic influence on biomass power, because the Biomass Program has been redirected away from biomass power to integrated biorefinery technologies. "Total" represents portfolio case values, while individual program values represent each program case. The portfolio case accounts for program interactions and micro-price feedback effects. The GPRA FY07 modeling effort uses the NEMS model, which uses the EIA AEO 2005 as the baseline for its analysis.

¹ Solar-thermal and photovoltaic energy.

² EERE does not have an R&D program for biomass, LFG/MSW, so they are not included in GPRA projections.

³ Biomass, MSW, and LFG are not included in the portfolio value. The portfolio values do not equal the summed values of the individual programs, as the portfolio analysis accounts for program interactions and micro-price feedback effects. Total includes biomass combined heat and power and on-site electricity-only plants for industrial and commercial sectors not detailed above.