

Table 4.2 – Projections of Renewable Electricity Net Generation

(Billion Kilowatthours)

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	14.91	17.51	22.84	34.01	46.74	52.70
	AEO2006 - High Renewables		19.16		47.91		73.01
	EERE GPRA FY07		12.30	15.60	23.50	35.00	
Wind	AEO2006 - Reference Case	35.25	50.87	55.98	59.82	63.48	64.51
	AEO2006 - High Renewables		50.87		59.97		73.90
	EERE GPRA FY07		25.80	64.60	309.40	558.60	
Solar ¹	AEO2006 - Reference Case	1.19	2.35	2.69	3.10	3.68	5.71
	AEO2006 - High Renewables		2.36		3.10		6.25
	EERE GPRA FY07		3.90	12.80	63.10	151.10	
Hydroelectric	AEO2006 - Reference Case	293.13	301.40	301.82	302.87	303.06	303.27
	AEO2006 - High Renewables		301.40		302.15		304.46
	EERE GPRA FY07		303.60	303.70	304.00	304.30	
Biomass/Wood (without cogeneration)	AEO2006 - Reference Case	18.87	44.67	44.80	48.59	51.30	57.83
	AEO2006 - High Renewables		45.45		59.94		95.96
	EERE GPRA FY07		27.20	29.60	32.10	39.30	
MSW and LFG	AEO2006 - Reference Case	25.29	27.13	28.20	29.06	29.75	30.03
	AEO2006 - High Renewables		27.13		29.08		30.04
	EERE GPRA FY07 ²		27.70	27.80	28.50	28.60	
Total Renewable Energy	AEO2006 - Reference Case	417.45	475.75	490.86	515.15	539.06	559.14
	AEO2006 - High Renewables		479.65		544.91		638.67
	EERE GPRA FY07 ³		400.70	454.70	742.60	927.90	

Sources: EIA *Annual Energy Outlook 2006*, DOE/EIA-0383 (2006) (Washington, D.C., February 2006), Tables A16 and D7. Renewable generation 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.