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Annual Energy Outlook 2009 with Projections to 2030

Table 18. Comparison of electricity projections, 2015 and 2030 (billion kilowatthours, except where noted)

Projection	2007	AEO2009 reference case	Other projections		
			IHSGI	EVA	IER
		2015			
Average end-use price (2007 cents per kilowatthour)	**9.1**	**9.1**	**9.9**	**10.7**	**NA**
Residential	10.6	10.8	11.4	NA	9.6
Commercial	9.6	9.3	10.4	NA	9.6
Industrial	6.4	6.3	6.9	NA	7.4
Total generation plus imports	**4,190**	**4,398**	**4,589**	**4,174**	**4,696**
Coal	2,021	2,121	2,139	1,975	NA
Oil	66	57	54	58	NA
Natural gas [a]	892	815	1,004	889	NA
Nuclear	806	831	838	840	NA
Hydroelectric/other [b]	374	555	537	420	NA
Net imports	31	17	17	21	NA
Electricity sales	**3,747**	**3,960**	**4,138**	**NA**	**4,475**
Residential	1,392	1,423	1,559	NA	1,567
Commercial/other [c]	1,349	1,513	1,508	NA	1,649
Industrial	1,006	1,025	1,071	NA	1,259
Capability, including CHP (gigawatts) [d]	**996**	**1,050**	**1,030**	**1,084**	**1,117**
Coal	315	331	323	331	287
Oil and natural gas	448	458	441	488	510
Nuclear	101	104	105	105	111
Hydroelectric/other	131	157	160	115	208
		2030			
Average end-use price (2007 cents per kilowatthour)	**9.1**	**10.4**	**9.4**	**12.3**	**NA**
Residential	10.6	12.2	10.8	NA	8.6
Commercial	9.6	10.6	10.0	NA	8.6
Industrial	6.4	7.4	6.4	NA	6.5
Total generation plus imports	**4,190**	**5,181**	**5,229**	**4,871**	**5,335**
Coal	2,021	2,415	2,356	2,006	NA
Oil	66	60	40	46	NA
Natural gas [a]	892	1,012	1,035	968	NA
Nuclear	806	907	921	1,324	NA
Hydroelectric/other [b]	374	758	864	535	NA
Net imports	31	28	14	19	NA
Electricity sales	**3,747**	**4,609**	**4,717**	**NA**	**5,064**
Residential	1,392	1,667	1,829	NA	1,891
Commercial/other [c]	1,349	1,865	1,735	NA	1,963
Industrial	1,006	1,077	1,152	NA	1,210
Capability, including CHP (gigawatts) [d]	**996**	**1,227**	**1,102**	**1,171**	**1,224**
Coal	315	360	348	332	349
Oil and natural gas	448	563	403	501	409
Nuclear	101	113	119	166	154
Hydroelectric/other	131	191	232	128	312

[a]Includes supplemental gaseous fuels. For EVA, represents total oil and natural gas. [b]"Other" includes conventional hydroelectric, pumped storage, geothermal, wood, wood waste, municipal waste, other biomass, solar and wind power, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, petroleum coke, and miscellaneous technologies. [c]"Other" includes sales of electricity to government, railways, and street lighting authorities. [d]EIA capacity is net summer capability, including combined heat and power plants. IHSGI capacity is nameplate, excluding cogeneration plants.

CHP = combined heat and power. NA = not available.

Sources: ***2007 and AEO2009:*** AEO2009 National Energy Modeling System, run AEO2009.D120908A. **IHSGI:** IHS Global Insight, Inc., *Global Petroleum Outlook, Fall 2008* (Lexington, MA, November 2008). **EVA:** Energy Ventures Analysis, Inc., *FUELCAST: Long-Term Outlook* (August 2008). **IER:** Institute of Energy Economics and the Rational Use of Energy at the University of Stuttgart, TIAM Global Energy System Model (November 2008).