Report #: SR-OIAF/2001-05
Released Date: October 2001
Next Release Date: One-Time

Analysis of Strategies for Reducing Multiple Emissions from Electric Power plants with Advanced Technology Scenarios

Table 27. Industrial Sector Projections in the *CEF-JL* Moderate and Advanced Cases, 2010 and 2020

Projections	1999	Reference	*CEF-JL* Moderate		*CEF-JL* Advanced	
			Without Emissions Limits	With Emissions Limits	Without Emissions Limits	With Emissions Limits
				2010		
Industrial Output (Billion 1992 Dollars)	**4,722**	**6,223**	**6,215**	**6,214**	**6,205**	**6,203**
Industrial Output Growth (Annual Percent, 1999-2010)	**—**	**2.54**	**2.53**	**2.53**	**2.51**	**2.51**
Delivered Energy Consumption (Quadrillion Btu)	**27.6**	**31.1**	**30.4**	**30.4**	**29.7**	**29.6**
Petroleum	9.5	10.5	10.2	10.2	9.9	10.0
Natural Gas	9.8	11.3	11.0	11.2	10.7	10.7
Coal	2.5	2.6	2.5	2.5	2.4	2.3
Renewables	2.2	2.6	2.6	2.6	2.8	2.8
Purchased Electricity	3.6	4.2	4.1	3.9	3.9	3.9
Delivered Energy Intensity (Thousand Btu per 1992 Dollar of Output)	**5.84**	**5.00**	**4.89**	**4.89**	**4.78**	**4.78**
Change in Delivered Energy Intensity (Annual Percent, 1999-2010)	**—**	**-1.39**	**-1.60**	**-1.59**	**-1.79**	**-1.80**
Average Delivered Prices (1999 Dollars per Million Btu)	**5.29**	**5.62**	**5.33**	**5.99**	**5.44**	**5.79**
Electricity	13.12	12.04	11.15	15.09	13.18	14.01
Natural Gas	2.79	3.46	3.12	3.56	2.96	3.42
Petroleum	5.54	6.07	6.01	5.92	5.60	5.75
Effective Delivered Prices[a] (1999 Dollars per Million Btu)	**5.29**	**5.62**	**5.33**	**5.99**	**6.03**	**6.39**
Electricity	13.12	12.04	11.15	15.09	13.18	14.01
Natural Gas	2.79	3.46	3.12	3.56	3.67	4.12
Petroleum	5.54	6.07	6.01	5.92	6.19	6.34
CO_2 Emissions (Million Metric Tons Carbon Equivalent)	**480**	**533**	**522**	**468**	**473**	**454**
				2020		
Industrial Output (Billion 1992 Dollars)	**4,722**	**8,083**	**8,062**	**8,060**	**8,042**	**8,043**
Industrial Output Growth (Annual Percent, 1999-2020)	**—**	**2.59**	**2.58**	**2.58**	**2.57**	**2.57**
Delivered Energy Consumption (Quadrillion Btu)	**27.6**	**34.7**	**33.2**	**33.2**	**32.0**	**32.0**
Petroleum	9.5	11.6	10.9	11.0	10.5	10.5
Natural Gas	9.8	12.7	12.2	12.7	11.6	11.6
Coal	2.5	2.6	2.5	2.5	2.3	2.3
Renewables	2.2	3.1	3.0	3.0	3.4	3.4
Purchased Electricity	3.6	4.8	4.5	4.0	4.2	4.2
Delivered Energy Intensity (Thousand Btu per 1992 Dollar of Output)	**5.84**	**4.30**	**4.11**	**4.12**	**3.98**	**3.98**
Change in Delivered Energy Intensity (Annual Percent, 1999-2020)	**—**	**-1.45**	**-1.65**	**-1.64**	**-1.81**	**-1.81**
Average Delivered Prices (1999 Dollars per Million Btu)	**5.29**	**5.82**	**5.47**	**5.96**	**5.58**	**5.73**
Electricity	13.12	12.07	11.77	15.57	13.63	13.71
Natural Gas	2.79	3.73	3.11	3.46	2.99	3.26
Petroleum	5.54	6.12	6.01	5.90	5.64	5.71
Effective Delivered Prices[a] (1999 Dollars per Million Btu)	**5.29**	**5.82**	**5.47**	**5.96**	**6.16**	**6.31**
Electricity	13.12	12.07	11.77	15.57	13.63	13.71
Natural Gas	2.79	3.73	3.11	3.46	3.70	3.97
Petroleum	5.54	6.12	6.01	5.90	6.22	6.28
CO_2 Emissions (Million Metric Tons Carbon Equivalent)	**480**	**585**	**566**	**494**	**489**	**472**

[a]Effective delivered price reflects the cost impact of CO_2 emission allowances in cases that include a CO_2 limit.
Source: National Energy Modeling System, runs SCENABS.D080301A, SCENCBS.D080301A, SCENCEM.D081601A, SCENDBS.D092601B, and SCENDEMR.D092701A.