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Energy and Economic Impacts of Implementing a 25-Percent RPS and RFS by 2025

Table 15. Summary of Energy Impacts of Alternative Policy Cases in 2025

	Reference	Policy	High Price	High Price Policy	High Tech	High Tech Policy
RPS Credit Price (2005 cents per kilowatthour)	NA	4.8	NA	4.6	NA	3.4
RFS Credit Price (2005 dollars per gallon of biofuel)	NA	2.18	NA	1.46	NA	1.34
Consumption (quadrillion Btu)						
Liquids	49.1	48.3	45.2	45.1	49.1	48.8
Natural Gas	26.8	25.6	24.7	24.4	26.6	25.4
Coal	30.3	24.1	32.7	26.0	29.6	24.5
Nuclear	9.2	8.5	10.1	8.5	9.2	8.5
Hydropower	3.1	3.3	3.1	3.2	3.1	3.2
Biomass	3.9	11.4	4.3	11.3	5.3	13.0
Other Renewables	1.4	7.0	1.5	6.5	1.5	5.6
Total	**123.8**	**128.3**	**121.5**	**125.2**	**124.4**	**128.9**
Average Prices: Selected Fuels						
Transportation Fuels						
Motor Gasoline (2005 dollars per gallon)[1]	2.16	2.44	3.06	3.20	2.12	2.26
Diesel (2005 dollars per gallon)[2]	2.21	2.70	2.96	3.27	2.22	2.49
E85 (2005 dollars per gallon)	2.22	1.89	2.51	2.49	2.15	1.74
Biomass (2005 dollars per million Btu)[3]	1.51	5.02	1.51	4.95	1.50	3.13
Electricity Fuel Input Prices (2005 dollars per million Btu)						
Steam Coal	1.62	1.59	1.76	1.69	1.61	1.56
Distillate	10.29	10.19	15.50	15.60	10.23	10.19
Residual Fuel Oil	6.59	6.57	11.92	11.79	6.58	6.61
Natural Gas	5.96	5.72	6.98	6.78	5.98	5.62
Average Retail Electricity Prices (2005 cents per kilowatthour)	**8.0**	**8.3**	**8.2**	**8.5**	**8.0**	**8.1**
Undiscounted Cumulative Expenditures, 2009-2025 (billion 2005 dollars)[4]						
Electricity Revenues from Retail Sales	5,838	5,833	6,015	6,019	5,828	5,798
Motor Transport Expenditures	8,493	8,759	10,773	10,924	8,482	8,616
Subtotal	14,331	14,592	16,788	16,924	14,260	14,414
Total U.S. Energy Expenditures	**18,643**	**18,879**	**21,748**	**21,873**	**18,616**	**18,675**
Discounted Cumulative Expenditures, 2009-2025 (billion 2005 dollars)[5]						
Electricity Revenues from Retail Sales	3,511	3,507	3,619	3,616	3,506	3,491
Motor Transport Expenditures	5,121	5,232	6,396	6,462	5,117	5,175
Subtotal Expenditures	8,632	8,739	10,015	10,098	8,623	8,666
Total U.S. Energy Expenditures	**11,271**	**11,361**	**13,017**	**13,063**	**11,257**	**11,277**

[1]Motor gasoline contains up to 10 percent ethanol.
[2]Diesel fuel may contain up to 20 percent biodiesel from renewable sources.
[3]Census Division 4 price.
[4]Simple undiscounted sum (2005 dollars).
[5]Discounted at 7 percent per year back to 2009.
Source: EIA Office of Integrated Analysis and Forecasting. National Energy Modeling System runs IBASE.D060607A, IRES2525.D060607A, IHIPRICE.D060607A, IRES252HP.D060607A, IHITECH.D060607A, and IRES2525HT.D060607A.