Report #: SR-OIAF/2007-05
Released Date: August 2007
Next Release Date: One-Time

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

**Table 6. Renewable Fuels Summary for the Reference and Policy Cases**

| | 2005 | 2025 | | 2030 | |
|---|---|---|---|---|---|
| | | Reference | Policy | Reference | Policy |
| **RFS Results** | | | | | |
| RFS Constraint (billion gallons) | 3.5 | 9.0 | 66.0 | 9.8 | 70.4 |
| Credit Price[1] (dollars per gallon) | NA | NA | 2.18 | NA | 2.02 |
| **Ethanol (billion gallons)** | | | | | |
| Corn Based Production | 3.9 | 9.0 | 25.5 | 12.0 | 25.3 |
| Cellulose Based Production | 0.00 | 0.25 | 28.0 | 0.25 | 31.3 |
| Imports | 0.1 | 3.3 | 7.7 | 3.5 | 9.0 |
| **Total** | **4.0** | **12.5** | **61.3** | **15.7** | **65.6** |
| Ethanol in E85 (billion gallons) | 0.01 | 0.05 | 48.1 | 0.08 | 51.6 |
| Ethanol in Gasoline Blending | 4.0 | 12.5 | 13.2 | 15.6 | 14.1 |
| Percent of Motor Gasoline Pool | 2.9 | 7.0 | 31.2 | 8.2 | 31.2 |
| Blend Percent of Motor Gasoline | 2.9 | 6.9 | 9.4 | 8.1 | 9.4 |
| **Prices (2005 dollars)** | | | | | |
| Corn Price (dollars per bushel) | 2.29 | 3.00 | 6.50 | 3.17 | 6.21 |
| CD 4 Biomass Price (dollars per million Btu) | 0.94 | 1.51 | 5.02 | 1.51 | 5.12 |
| **Agricultural Impacts** | | | | | |
| Total Corn Crop (million bushels) | 11,807 | 14,138 | 14,473 | 14,899 | 15,170 |
| Corn for Ethanol (million bushels) | 1,323 | 3,363 | 9,228 | 4,433 | 9,174 |
| Fraction of Corn Going to Ethanol | 11% | 24% | 64% | 30% | 60% |
| Net Corn Exports (million bushels) | 1,814 | 2,657 | -1,871 | 2,099 | -1,561 |
| Corn Acres (million acres) | 74 | 77 | 79 | 77 | 78 |
| Corn Yield (bushels per acre) | 160 | 183 | 183 | 194 | 194 |
| Biomass Supplied (million tons) | <30 | 41 | 535 | 43 | 579 |

[1]All prices are in 2005 dollars.
Source: National Energy Modeling System, runs IBASE.D060607A and IRES2525.D060607A.