Trends in Renewable Energy Consumption and Electricity 2010 Release Date: December 11, 2012

Release Date: December 11, 2012 Next Release Date: August 2013

Table 7. Industrial biomass energy consumption and electricity net generation by industry and energy source, 2010

Biomass Energy Consumption (Trillon Btu)

| | | Biolilass Ellergy Consumption (Trillon Blu) | | | |
|----------------------------------|---|---|-----------------|-----------|----------------------------|
| | | | | Thermal | Net Generation (Million |
| Industry | Energy Source | lotai | For Electricity | Output | Kilowatthours) |
| Total | Total | 2,229.681 | 180.338 | 2,049.343 | 26,580 |
| Agriculture, Forestry | Total | 18.916 | 3.322 | 15.594 | 225 |
| and Mining | Agricultural Byproducts/Crops | 16.791 | 1.197 | 15.594 | 221 |
| | Other Biomass Solids | 2.125 | 2.125 | - | 4 |
| Manufacturing | Total | 2,084.491 | 177.016 | 1,907.475 | 26,355 |
| Food and Kindred | Total | 27.687 | 1.862 | 25.824 | 220 |
| Products | Agricultural Byproducts/Crops | 15.745 | 0.182 | 15.564 | 12 |
| | Other Biomass Gases | 0.174 | 0.047 | 0.126 | 4 |
| | Other Biomass Liquids | 0.065 | 0.065 | - | 6 |
| | Other Biomass Solids | 3.745 | 1.075 | 2.669892 | 107 |
| | Sludge Waste | 1.124 | 0.246 | 0.878 | 39 |
| | Wood/Wood Waste Solids | 6.834 | 0.247 | 6.587 | 50 |
| Lumber | Total | 234.300 | 10.838 | 223.462 | 1,298 |
| | Sludge Waste | 0.033 | 0.003 | 0.030 | 1 |
| | Wood/Wood Waste Solids | 234.268 | 10.836 | 223.432 | 1,298 |
| Paper and Allied | Total | 1,067.523 | 163.830 | 903.693 | 24,766 |
| Products | Agricultural Byproducts/Crops | 1.127 | 0.007 | 1.120 | 1 |
| | Black Liquor | 751.496 | 110.040 | 641.456 | 16,860 |
| | Other Biomass Gases | 0.157 | 0.013 | 0.144 | 3 |
| | Other Biomass Liquids | 0.004 | 0.001 | 0.003 | - |
| | Other Biomass Solids | 13.668 | 2.265 | 11.403 | 329 |
| | Sludge Waste | 3.396 | 0.688 | 2.708 | 90 |
| | Wood/Wood Waste Liquids | 2.934 | 0.420 | 2.514 | 80 |
| | Wood/Wood Waste Solids | 294.741 | 50.397 | 244.344 | 7,404 |
| Chemicals and | Total | 2.554 | 0.125 | 2.429 | 24 |
| Allied Products | Other Biomass Liquids | 0.035 | 0.001 | 0.034 | 0.217 |
| | Sludge Waste | 0.312 | 0.049 | 0.263 | 10 |
| | Wood/Wood Waste Solids | 2.207 | 0.075 | 2.132 | 14 |
| Biorefineries Other ¹ | Total | 742.020 | - | 742.020 | - |
| | Biofuel Losses and Co-products ³ | 742.020 | - | 742.020 | |
| | Biodiesel Feedstock | 0.545 | | 0.545 | |
| | Ethanol Feedstock | 741.475 | | 741.475 | |
| | Total | 10.407 | 0.360 | 10.047 | 48 |
| Nonspecified ² | Total | 126.274 | - | 126.274 | - |
| | Ethanol ⁴ | 17.412 | | 17.412 | |
| | Landfill Gas | 106.319 | | 106.319 | |
| | | | | | |
| | Municipal Solid Waste Biogenic ⁵ | 2.543 | - | 2.543 | - |

- = No data reported.

Notes: Totals may not equal sum of components due to independent rounding. EIA uses a method of allocating fuel consumption between electric power generation and useful thermal output (UTO) for combined heat and power (CHP) plants. The method proportionately distributes a CHP plant's losses between the two output products (electric power and UTO) assuming the same efficiency for production of electricity as UTO.

Sources: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report;" Government Advisory Associates, Resource Recovery Yearbook and Methane Recovery Yearbook; U.S. Environmental Protection Agency, Landfill Methane Outreach Program estimates; ethanol and biofuel losses and co-products: Table 2 of this report; and analysis conducted by the U.S. Energy Information Administration, Office of Electricity, Coal, Nuclear, and Renewables analysis.

¹Other includes Apparel; Petroleum Refining; Rubber and Misc. Plastic Products; Transportation Equipment; Stone, Clay, Glass, and Concrete Products; Furniture and Fixtures; and related industries.

²Primary purpose of business is not specified.

Losses and co-products from production of biodiesel and ethanol calculated as the difference between energy in feedstocks and production.

⁴Ethanol primarily derived from corn minus denaturant.

⁵Includes paper and paper board, wood, food, leather, textiles and yard trimmings.