

STATE OF NEW YORK DEPARTMENT OF PUBLIC SERVICE

THREE EMPIRE STATE PLAZA, ALBANY, NY 12223-1350

Internet Address: <http://www.dps.state.ny.us>

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March 17, 2003

Hon. Eleanor Stein
Administrative Law Judge
NYS Department of Public Service
Three Empire State Plaza
Albany, NY 12223-1350

Re: Case 03-E-0188
Baseline Electric Generation Sources

Dear Administrative Law Judge Stein:

The enclosed information is provided in response to your request that DPS Staff, in consultation with NYSERDA, provide to the parties a working baseline estimate of what percentage of the electric energy purchased in the State is derived from renewable resources, including a breakdown of imports and exports. The following are provided:

- (a) a comprehensive table that categorizes source generation types into eleven categories. The categorization is similar to that used for the Environmental Disclosure program except that "Tidal" and "Fuel Cells" categories have been added;
- (b) a series of three tables that show in progression the raw tracking data by generation source type for the latest available annual period, adjustments made to account for fuel cells, photovoltaics and more recent wind project outputs, and the resultant baseline data after adjustments;

- (c) two tables that delineate two potential groupings of source generation types as "renewables";
- (d) a table that delineates imports by generation source type; and
- (e) a table that delineates in-State generation and exports by generation source type.

The majority of the information provided comes from NYSDPS tracking data from the Environmental Disclosure database. We believe this database to be the most accurate information available from any source. It is based largely on actual transactions coordinated through the New York Independent System Operator (NYISO) supplemented with utility reports on "load modifiers" (small generators that only affect load at the distribution level). All of the underlying transaction data is confidential and subject to trade secret protections. All information we have provided is aggregated in such a way that trade secrets are not revealed.

We acknowledge the kind assistance of NYSERDA Staff in the preparation of this information. However, DPS Staff is solely responsible for any errors or omissions.

Very truly yours,

A handwritten signature in black ink that reads "Paul Agresta". The signature is written in a cursive, flowing style.

PAUL AGRESTA
Assistant Counsel

cc.: Secretary Deixler
All Active Parties

BASELINE ELECTRIC GENERATION SOURCES

Categorization of Source Generation Type (NYS DPS - March 17, 2003)

Biomass

- Landfill Gas (Methane)
- Sewage Gas (Methane)
- Urban Wood Waste
- Pallet Waste
- Mill Residue Wood
- Primary Wood Products Industries
- Secondary Wood Products Industries
- Harvested Wood
- Site Conversion Waste Wood
- Silvicultural Waste Wood
- Agricultural Residue
- Sustainable Yield Wood
- Pumped Storage Hydro Powered by Biomass

Coal

- Coal - Steam Turbine
- Pumped Storage Hydro Powered by Coal

Fuel Cells

- Solid Oxide Cells
- Molten Carbonate Cells
- Proton Exchange Membrane Cells

Gas

- Natural Gas - Steam Turbine
- Natural Gas - Simple Combustion Turbine
- Natural Gas - Combined Cycle Combustion Turbine
- LPG
- Pumped Storage Hydro Powered by Gas

Hydro

- Reservoir Hydro
- Run-of-River Hydro
- Pumped Storage Hydro Powered by Hydro

Nuclear

- Boiling & Pressurized Water Reactors
- Pumped Storage Hydro Powered by Nuclear

Oil

- Oil - Steam Turbine
- Oil - Simple Combustion Turbine
- Oil - Combined Cycle Combustion Turbine
- Diesel
- No. 2 Heating Oil
- Jet Fuel
- Gasoline
- Kerosene
- Pumped Storage Hydro Powered by Oil

Solar

- Photovoltaics

Solid Waste

- Municipal Solid Waste
- Tire Waste
- Urban Wood Waste
- Construction and Demolition
- Municipal Solid Waste Wood
- Pumped Storage Hydro Powered by Solid Waste

Tidal

- Tidal Turbine
- Pneumatic Turbine
- Ocean Wave Turbine
- Pumped Storage Hydro Powered by Tidal

Wind

- Wind Turbines
- Pumped Storage Hydro Powered by Wind

Notes:

- 1. Geothermal omitted.**
- 2. Consistent with the Environmental Disclosure program, "Pumped Storage" is not categorized as Hydro; it is categorized based on the generation source used to pump the water into the storage basin.**
- 3. Consistent with the Environmental Disclosure program, the energy output of dual-fuel facilities is tracked and assigned separately based on the fuel used in actual operation.**

RAW TRACKING DATA

Baseline Year - April 2001 - March 2002

SOURCE: NYSDPS TRACKING DATA FROM ENVIRONMENTAL DISCLOSURE DATABASE

Generation Source	Mega-Watt-Hours	Percentage of Total
Biomass	1,020,754	0.67
Coal	23,739,002	15.49
Fuel Cells	0	0.00
Gas	41,346,772	26.98
Hydro	26,955,452	17.59
Nuclear	44,148,686	28.81
Oil	14,451,073	9.43
Solar	0	0.00
Solid Waste	1,508,430	0.98
Tidal	0	0.00
Wind	71,441	0.05
TOTAL	153,241,610	100.00%

ADJUSTMENTS TO RAW TRACKING DATA

SOURCE: NYSDPS AND NYSERDA ESTIMATES

Estimated annual output of:

Additional Wind (Built or Fully Operating Since March 2002)	50,498 MWHs
Photovoltaics (Capacity: 3,961.8 kW)	5,400 MWHs
Fuel Cells (Capacity: 6,267 kW)	38,429 MWHs

BASELINE ELECTRIC GENERATION SOURCES

Baseline Year - April 2001 - March 2002

Adjusted to Include PV, Fuel Cells & Additional Wind Resources

SOURCE: NYSDPS TRACKING DATA FROM ENVIRONMENTAL DISCLOSURE DATABASE
AND NYSDPS AND NYSERDA ESTIMATES

Generation Source	Mega-Watt Hours	Percentage of Total
Biomass	1,020,754	0.67
Coal	23,739,002	15.48
Fuel Cells	38,429	0.025
Gas	41,346,772	26.96
Hydro	26,955,452	17.58
Nuclear	44,148,686	28.79
Oil	14,451,073	9.42
Solar	5,400	0.004
Solid Waste	1,508,430	0.98
Tidal	0	0.00
Wind	121,939	0.08
TOTAL	153,335,937	100.00%

BASELINE RENEWABLES

Generation Source	Mega-Watt Hours	Percentage of Total
Biomass	1,020,754	0.67
Fuel Cells	38,429	0.025
Hydro	26,955,452	17.58
Solar	5,400	0.004
Tidal	0	0.00
Wind	121,939	0.08
TOTAL	28,141,974	18.35%

BASELINE RENEWABLES (INCLUDING SOLID WASTE)

Generation Source	Mega-Watt Hours	Percentage of Total
Biomass	1,020,754	0.67
Fuel Cells	38,429	0.025
Hydro	26,955,452	17.58
Solar	5,400	0.004
Solid Waste	1,508,430	0.98
Tidal	0	0.00
Wind	121,939	0.08
TOTAL	29,650,404	19.34%

IMPORTS

Baseline Year - April 2001 - March 2002
Adjusted to Include PV, Fuel Cells & Additional Wind Resources

SOURCE: NYSDPS TRACKING DATA FROM ENVIRONMENTAL DISCLOSURE DATABASE
AND NYSDPS AND NYSERDA ESTIMATES

Generation Source	Imports Consumed In NYS (MWHs)	Percentage of Total	Imports Wheeled Out of NYS	Total Imports
Biomass	156,964	1.04	32,324	189,288
Coal	4,818,503	31.87	866,316	5,684,819
Fuel Cells	0	0.00	0	0
Gas	1,217,763	8.05	310,914	1,528,677
Hydro	4,086,899	27.03	1,461,435	5,548,334
Nuclear	4,357,688	28.82	692,524	5,050,212
Oil	423,286	2.80	164,371	587,657
Solar	0	0.00	0	0
Solid Waste	57,581	0.38	12,178	69,759
Tidal	0	0.00	0	0
Wind	0	0.00	4,820	4,820
TOTAL	15,118,684	100.00%	3,544,882	18,663,566
<i>Imports</i>	<i>81.01%</i>		<i>18.99%</i>	<i>100.00%</i>
<i>Renewables Imports</i>	<i>28.07%</i>		<i>42.27%</i>	<i>30.77%</i>
<i>Renewables Imports w/WTE</i>	<i>28.45%</i>		<i>42.62%</i>	<i>31.14%</i>

Note: Much of the data used for imports is not unit specific (tracked to the actual generator unit) like the NYS generation data. Consistent with the Environmental Disclosure program, in the absence of unit-specific data, a default generation source type is assigned to each MWH of such imports based on the regional capacity mix of the import system and other information available to the Environmental Disclosure Administrator. The defaults assigned are the best estimate of NYSDPS Staff as representative of the time period of the data.

NYS GENERATION & EXPORTS

Baseline Year - April 2001 - March 2002
Adjusted to Include PV, Fuel Cells & Additional Wind Resources

SOURCE: NYS DPS TRACKING DATA FROM ENVIRONMENTAL DISCLOSURE DATABASE
AND NYS DPS AND NY SERDA ESTIMATES

Generation Source	NYS Generation Consumed In NYS (MWHs)	Percentage of Total	NYS Generation Exported Out of NYS	Total NYS Generation
Biomass	863,790	0.62	20,805	884,595
Coal	18,920,499	13.69	567,867	19,488,366
Fuel Cells	38,429	0.028	0	38,429
Gas	40,129,009	29.03	703,754	40,832,763
Hydro	22,868,553	16.55	1,446,053	24,314,606
Nuclear	39,790,998	28.79	339,475	40,130,473
Oil	14,027,787	10.15	349,095	14,376,882
Solar	5,400	0.004	0	5,400
Solid Waste	1,450,849	1.05	7,227	1,458,076
Tidal	0	0.00	0	0
Wind	121,939	0.09	1,971	123,910
TOTAL	138,217,253	100.00%	3,436,247	141,653,500
<i>Percent</i>	<i>97.57%</i>		<i>2.43%</i>	<i>100.00%</i>
<i>Renewables</i>	<i>17.29%</i>		<i>42.75%</i>	<i>17.91%</i>
<i>Renewables w/WTE</i>	<i>18.34%</i>		<i>42.96%</i>	<i>18.94%</i>