

## 2800 ANNUAL REPORT 2019 OPERATING FACILITIES

### NEW YORK POWER AUTHORITY:

#### ST. LAWRENCE-FRANKLIN D. ROOSEVELT POWER PROJECT

Type: Hydroelectric

Location: Massena, St. Lawrence County

Net Dependable Capacity: 841,500 kW\*

First Commercial Power: July 1958

2019 Net Generation: 7.68 billion kWh

Net Generation Through 2019: 417.72 billion kWh

#### NIAGARA POWER PROJECT

Type: Hydroelectric

Location: Lewiston, Niagara County

Net Dependable Capacity: 2,675,000 kW\*

First Commercial Power: January 1961

2019 Net Generation: 16.66 billion kWh

Net Generation Through 2019: 855.56 billion kWh

#### BLENHEIM-GILBOA PUMPED STORAGE POWER PROJECT

Type: Pumped Storage/Hydroelectric

Location: North Blenheim and Gilboa,  
Schoharie County

Net Dependable Capacity: 1,170,000 kW\*

First Commercial Power: July 1973

2019 Gross Generation: 0.24 billion kWh

Gross Generation Through 2019: 52.27 billion kWh

#### RICHARD M. FLYNN POWER PLANT

Type: Gas/Oil

Location: Holtsville, Suffolk County

Net Dependable Capacity: 150,700 kW\*

First Commercial Power: May 1994

2019 Net Generation: 0.38 billion kWh

Net Generation Through 2019: 27.38 billion kWh

#### FREDERICK R. CLARK ENERGY CENTER

Function: Coordinates NYPA system operations

Location: Marcy, Oneida County

Opened: June 1980

## SMALL HYDRO FACILITIES

Located on reservoirs and waterways around the state, these facilities include the Ashokan Project, Gregory B. Jarvis Plant, Crescent Plant and Vischer Ferry Plant

Combined Net Dependable Capacity:	36,800 kW*
Combined 2019 Net Generation:	0.19 billion kWh
Combined Net Generation Through 2019:	Not measured

## SMALL CLEAN POWER PLANTS

Type: Gas

Location: Six New York City sites and Brentwood, Suffolk County

Net Dependable Capacity:	456,800 kW*
First Commercial Power: June 2001	
2019 Net Generation:	0.30 billion kWh
Net Generation Through 2019:	10.27 billion kWh

## EUGENE W. ZELTMANN POWER PROJECT

Type: Gas/Oil

Location: Astoria, Queens County

Net Dependable Capacity:	495,400 kW*
First Commercial Power: December 2005	
2019 Net Generation:	2.33 billion kWh
Net Generation Through 2019:	39.92 billion kWh

## AFFILIATED FACILITIES

## ASTORIA ENERGY II\*\*

Type: Gas/Oil

Location: Astoria, Queens County

Net Dependable Capacity:	618,400 kW*
First Commercial Power: July 2011	
2019 Net Generation:	2.78 billion kWh
Net Generation Through 2019:	25.38 billion kWh

\*Net Dependable Capacity is a calculated average of the Winter and Summer net capability reported in the 2019 New York Independent System Operator Load & Capacity Data Report (Gold Book).

\*\*Astoria Energy II is an independently owned facility that has entered into a 20-year supply agreement with NYPA to service its New York City governmental customers. The Authority's contract with the customers served by the output of Astoria Energy II is coterminous with the power purchase agreement with Astoria Energy II LLC, and all net costs of the Authority under the power purchase agreement with Astoria Energy II LLC are direct pass through to

such customers for the full term of the power purchase agreement.

#### HUDSON TRANSMISSION PROJECT (HTP)\*\*\*

Type: High-Voltage Transmission Line

Location: Seven-mile 345-kV line from Public Service Electric & Gas Co.'s Bergen Substation in Ridgefield, N.J., to Consolidated Edison Co.'s West 49th St. Substation in Manhattan. (Includes four-mile Hudson River underwater section).

Capacity: 660 MW

First Commercial Operation: June 2013

Average 2019 Availability to Transmit Power:	99.99%
Availability Hours:	8,759 Hours

\*\*\* NYPA has a 20-year firm transmission capacity purchase agreement with Hudson Transmission Partners, LLC, the developer, owner and operator of the line, which connects with a neighboring regional transmission organization, PJM Interconnection. NYPA contracts for 87 percent of HTP's transmission capacity, or up to 575 MW.

#### NYPA TRANSMISSION FACILITIES

1,454.0 circuit-miles of alternating current transmission lines.

Size	Underground	Overhead	Total
765kV	0.0	155.2	155.2
345kV	42.9	884.3	927.2
230kV	0.0	337.5	337.5
115kV	1.8	32.3	34.1
Total	44.7	1,409.3	1,454.0

Source: Updated with data from 2019 NYPA Geographic Information System (GIS)

#### **NEW YORK STATE CANAL CORPORATION - CANAL SYSTEM:**

The Canal Corporation runs the New York State Canal System, which includes the Erie, Champlain, Oswego and Cayuga-Seneca canals. Spanning 524 miles, the waterway links the Hudson River with the Great Lakes, the Finger Lakes and Lake Champlain. The Canal System includes the Erie Canalway Trail, a multi-use trail designed to accommodate pedestrians, bicyclists, and cross-country skiers. The Canal System has over 2,000 individual structures, which includes 57 locks, over 80 dams, 22 reservoirs and 19 movable bridges.