

## 2800 ANNUAL REPORT 2021 OPERATING FACILITIES

### NEW YORK POWER AUTHORITY:

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

Type: Hydroelectric

Location: Massena, St. Lawrence County

Net Dependable Capacity: 833.0 MW\*

First Commercial Power: July 1958

2021 Net Generation: 7,334.6 GWh

#### NIAGARA POWER PROJECT

Type: Hydroelectric

Location: Lewiston, Niagara County

Net Dependable Capacity: 2,675.0 MW\*

First Commercial Power: January 1961

2021 Net Generation: 16,196.9 GWh

#### BLENHEIM-GILBOA PUMPED STORAGE POWER PROJECT

Type: Pumped Storage/Hydroelectric

Location: North Blenheim and Gilboa,  
Schoharie County

Net Dependable Capacity: 1,166.8 MW\*

First Commercial Power: July 1973

2021 Gross Generation: 295.0 GWh

#### RICHARD M. FLYNN POWER PLANT

Type: Gas/Oil

Location: Holtsville, Suffolk County

Net Dependable Capacity: 154.1 MW\*

First Commercial Power: May 1994

2021 Net Generation: 126.9 GWh

#### 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:	36.8 MW*
2021 Net Generation:	171.6 GWh

## SMALL CLEAN POWER PLANTS

Type: Gas

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

Net Dependable Capacity:	457.2 MW*
First Commercial Power: June 2001	
2021 Net Generation:	471.1 GWh

## EUGENE W. ZELTMANN POWER PROJECT

Type: Gas/Oil

Location: Astoria, Queens County

Net Dependable Capacity:	511.0 MW*
First Commercial Power: December 2005	
2021 Net Generation:	2,766.0 GWh

## AFFILIATED FACILITIES

### ASTORIA ENERGY II\*\*

Type: Gas/Oil

Location: Astoria, Queens County

Net Dependable Capacity:	615.2 MW*
First Commercial Power: July 2011	
2021 Net Generation:	2,851.9 GWh

\*Net Dependable Capacity is a calculated average of the Winter and Summer net capability reported in the 2021 New York Independent System Operator Load & Capacity Data Report (Gold Book).

\*\*Astoria Energy II is an independently owned facility in Astoria, Queens that commenced commercial operation on July 1, 2011. The Authority entered into a 20-year purchase power agreement with the Astoria II LLC for the purchase of all the output of Astoria Energy II. The delivery period under the contract is through 2031. The Authority entered into a separate contract with its' New York City Governmental Customers to purchase the output of Astoria Energy II and is coterminous with the power purchase agreement with Astoria Energy II LLC. All net costs of the Authority under the power purchase agreement with Astoria Energy II LLC pass through to the New York City Governmental Customers for the full term of the power purchase agreement. to service its New York City governmental customers.

## 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 three-and-a-half mile Hudson River underwater section).

Capacity: 660 MW

First Commercial Operation: June 2013

Average 2021 Availability to Transmit Power: 99.82%  
Availability Hours: 8,744 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

1,456.1 circuit-miles of alternating current transmission lines.

<u>Size</u>	<u>Underground</u>	<u>Overhead</u>	<u>Total</u>
765kV	0.0	155.2	155.2
345kV	42.8	884.7	927.5
230kV	0.0	337.5	337.5
115kV	1.8	34.1	35.9
Total	44.6	1,411.5	1,456.1

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## **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.