

Energy Production and Delivery

Wholesale Energy Market



NYISO's Role:





Supply: Generation of Energy

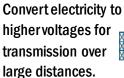






Sources for energy generation: Dual Fuel (Gas/Oil), Gas, Oil, Nuclear, Hydro, Pumped Hydro, Wind, Solar, and other Renewables, Energy Storage Resources (ESR) and Imports into the NY Control Area

Step-up transformers





energy market to
economically dispatch
generation and controls the
transmission of power
across the high-voltage
transmission network

Operates the wholesale







High Voltage Transmission Network

Transmission Owners (TOs) own,

operate, and maintain facilities used in the transmission of wholesale energy. 765 kV

500 kV

NYISO oversees: 345 kV

230 kV

115 kV

Local Distribution System



Demand Side Resources:

Load Reduction offered as generation to the grid

Load Serving Entities (LSEs):

Purchase wholesale power in order to serve retail customers

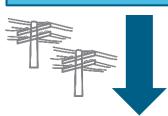
Could be an investor-owned utility, public power authority, municipal electric system, or electric cooperative



Step-down transformers

Convert electricity to lower voltages for retail use.

Distribution Network



Distribution System: TOs distribute power across the lower voltage transmission networks to retail consumers.

Load: Retail Customers

Electricity reaches retail customers, such as schools, houses, factories, and commercial buildings.







