



# NPCC Summer Overview

June 2011

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## Vision

*Maintain the trust and confidence of the public.*

*A bulk power system that is designed, operated, and maintained in accordance with continent-wide reliability standards, regional reliability standards and more stringent regionally specific reliability criteria that demonstrably meets the specific needs of Northeastern North America.*

## Description

NPCC's geographic area includes New York, the six New England states, Ontario, Québec, and the Maritime Provinces in Canada. The total population served is more than 55 million. The area covered is nearly 1.2 million square miles. From an electric load perspective, 20% of the Eastern Interconnection load is served within the NPCC region. For Canadian electricity requirements, 70% of Canadian load is located within the NPCC region. NPCC is one of the eight Regional Entities located throughout the United States, Canada and portions of Mexico.

### Background

The Northeast Power Coordinating Council, Inc. (referred to as NPCC) provides the statutory functions and services for Northeastern North America of a cross-border regional entity through a regional entity division, as well as non-statutory criteria services for Northeastern North America through a criteria services division.

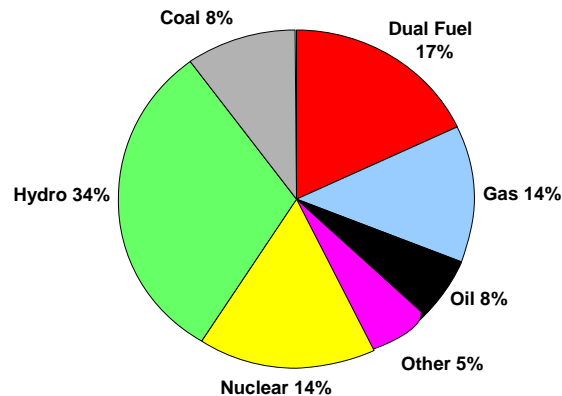
Through its regional entity division, NPCC works to enhance the reliability of the international, interconnected bulk power system in Northeastern North America through the development of regional reliability standards, coordination of system planning, design and operations, assessment of reliability, and compliance assessment and enforcement of reliability standards pursuant to the execution and implementation of a Regional Delegation Agreement with the Electric Reliability Organization ("ERO") under the authority of the Federal Energy Regulatory Commission in the U.S. and by Memoranda of Understanding with applicable Canadian Provincial regulatory and/or governmental authorities.

Through its criteria services division, NPCC promotes the reliable and efficient operation of the international, interconnected bulk power systems in Northeastern North America through the establishment of regionally-specific criteria, and monitoring and enforcement of compliance with such criteria.

## NPCC Statistics<sup>1</sup>

<b>Projected 2011 Summer Coincident Peak Demand</b>	108,446 MW
<b>Projected 2011 Summer Total Capacity at Peak</b>	156,037 MW

Relative On-Peak Capacity by Fuel Mix



Among the five NPCC geographic areas, Québec and the Maritimes Provinces experience their highest electricity demand in the winter period.

In the past, Ontario has experienced its annual peak demand in the winter; however, recent Ontario annual peak demand has occurred during the summer, due to weather and other related factors.

<sup>1</sup> NPCC Reliability Assessments at <http://www.npcc.org/documents/reports/Seasonal.aspx>



*NPCC promotes and enhances the reliable & efficient operation of the international, interconnected bulk power system in Northeastern North America through:*

*(i) the development of regional reliability standards, compliance assessment & enforcement of continent-wide and regional reliability standards, coordination of system planning, design & operations, assessment of reliability, and*

*(ii) the establishment of regionally-specific criteria, monitoring & enforcement of compliance with such criteria.*

*NPCC*

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# Membership

The **Amended and Restated Bylaws of NPCC** allow for two categories of membership. **General Membership (G)** is voluntary and is open to any person or entity, including any entity participating in the Registered Ballot Body of the ERO that has an interest in the reliable operation of the Northeastern North American bulk power system. General Members are subject to compliance with reliability standards and receive additional services from the regional entity division of NPCC. **Full Membership (F)** is available to General Members that also participate in electricity markets in the international, interconnected bulk power system in Northeastern North America. Independent System Operators, Regional Transmission Organizations, Transcos and other organizations or entities that perform the Balancing Authority function operating in Northeastern North America are expected to be Full Members of NPCC. Full Members are subject to compliance with regionally-specific criteria, in addition to reliability standards, and receive additional services from the criteria services division of NPCC.

## Sector 1 – Transmission Owners

- G Bangor Hydro Electric
- F Central Hudson Gas & Electric Corporation
- F Central Maine Power Company
- F Consolidated Edison Company of New York, Inc.
- F Hydro One Inc.
- F Hydro-Québec TransÉnergie
- F Long Island Power Authority
- F National Grid USA
- F New Brunswick Power Transmission Corp.
- F New Hampshire Transmission, LLC
- F New York Power Authority
- F New York State Electric & Gas Corporation
- F Northeast Utilities
- F Nova Scotia Power Inc.
- F NSTAR Electric Company
- F Orange & Rockland Utilities, Inc.
- F Rochester Gas & Electric Corporation
- F The United Illuminating Company, Inc.
- F Vermont Transco

## Sector 2 – Reliability Coordinators

- F Hydro-Québec TransÉnergie
- F Independent Electricity System Operator
- F ISO-New England, Inc.
- F New Brunswick System Operator
- F New York Independent System Operator

## Sector 3 – TDU's Dist and LSEs

- G Braintree Electric Light Department
- F Consolidated Edison Company of New York, Inc.
- F Groton Electric Light
- G Hingham Municipal Lighting Plant
- F Hydro One, Inc.
- F Hydro-Québec Distribution
- F Ipswich Municipal Light Department
- F Long Island Power Authority
- G Marblehead Municipal Light Department
- F National Grid USA
- F New York Power Authority
- F Northeast Utilities
- F Orange and Rockland utilities, Inc.
- G Shrewsbury Electric & Cable Operations
- F Sterling Municipal Light Department
- F Vermont Electric Cooperative, Inc.
- F Wakefield Municipal Gas and Light Department

## Sector 4 – Generation Owners

- F AES North America East
- F Consolidated Edison Company of New York, Inc.
- G Covanta Energy
- F Dominion Resources
- G Dynegey Inc.
- F Entergy Nuclear Northeast, Inc.
- F Exelon Generation Company, LLC
- G Exeter Energy Limited Partnership
- F First Wind Energy Marketing, LLC
- G International Power America

## Sector 4 – Generation Owners (cont.)

- F Long Island Power Authority
- F Massachusetts Municipal Wholesale Electric Company
- F New York Power Authority
- F NextEra Energy Resources, LLC
- F NRG Energy, Inc.
- F Northeast Utilities
- F Nova Scotia Power Inc.
- F Ontario Power Generation, Inc.
- G Power City Partners
- G PurEnergy LLC
- G PSEG Power New York LLC
- G TransCanada
- G US Power Generating Company, LLC
- G Wheelabrator Westchester LP

## Sector 5 – Marketers, Brokers, Aggregators

- F Brookfield Power Corporation
- F Conectiv Energy Supply, Inc.
- F Consolidated Edison Company of New York, Inc.
- F Consolidated Edison Energy/Development, Inc.
- F Constellation Energy Commodities Group, Inc.
- F HQ Energy Marketing Inc.
- F H.Q. Energy Services (U.S.) Inc.
- F Long Island Power Authority
- F Massachusetts Municipal Wholesale Electric Company
- G Nalcor Energy
- F New York Power Authority
- F PPL EnergyPlus, LLC
- G PSEG Energy Resources & Trade LLC
- F Shell Energy North America
- G Utility Services LLC
- G Windy Bay Power LLC

## Sector 6 – Customers

- F Ascendant Energy Services, LLC
- G International Business Machines Corporation
- G Oxbow – Sherman Energy, LLC
- G SGC Engineering, LLC

## Sector 7 – State and Provincial Reg. and Govt.

### Authorities

- F Long Island Power Authority
- G Maine Public Utilities Commission
- G New Hampshire Public Utilities Commission
- F New York Power Authority
- G New York State Department of Public Service
- G Vermont Department of Public Service

## Sector 8 – Sub Regional Reliability

### Councils, REs and Others

- G ERL Phase Power Technologies
- G 4g Technologies LP
- G HDR Engineering, Inc.
- G Midwest Reliability Organization
- F New York State Reliability Council, LLC
- G PLM, Inc.
- G VIASYN, Inc.