



# NPCC Winter Overview

January 1, 2009

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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 approximately 56 million. The area covered is approximately 1 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.

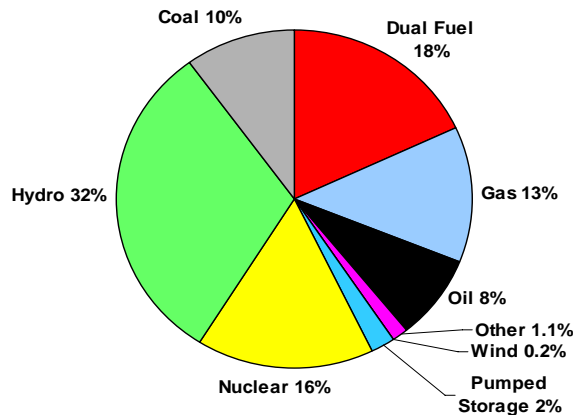
Through its regional entity division, NPCC works to enhance the reliability of the international, interconnected bulk power system in Northeastern North America through the development of regional reliability standards, coordination of system planning, design and operations, assessment of reliability, 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 2008/09 Winter Coincident Peak Demand</b>	114,010 MW
<b>Projected 2008/09 Winter Total Capacity</b>	157,457 MW

Relative 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 Assessment for Winter 2008-09 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.*

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# Membership

The **Amended and Restated Bylaws of NPCC** allows 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. The New York State Reliability Council and any other sub-regional reliability councils which may be formed are also expected to be Full Members. 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

- F Central Hudson Gas & Electric Corporation
- F Central Maine Power Company
- F Consolidated Edison Company of New York, Inc.
- F FPL Energy, LLC
- 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 York Power Authority
- F New York State Electric & Gas Corporation
- F Northeast Utilities
- F Nova Scotia Power Inc.
- F NSTAR
- F Orange and 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 Light Department
- F Consolidated Edison Company of New York, Inc.
- F Consolidated Edison Energy/Development, Inc.
- F Hydro One, Inc.
- F Hydro-Québec Distribution
- F Ipswich Municipal Light Department
- F Long Island Power Authority
- F National Grid USA
- F New York Power Authority
- F Northeast Utilities
- G Shrewsbury Electric & Cable Operations

## Sector 4 – Generation Owners

- F Consolidated Edison Company of New York, Inc.
- F Consolidated Edison Energy/Development, Inc.
- F Dominion Resources
- G Dynegy Inc.
- F Entergy Nuclear Northeast, Inc.
- F Exelon Generation Company, LLC

## Sector 4 – Generation Owners (cont.)

- G Exeter Energy Limited Partnership
- F FPL Energy, LLC
- F Hydro-Québec Production
- G International Power America
- F Long Island Power Authority
- F New York Power Authority
- F Northeast Utilities
- F Nova Scotia Power Inc.
- F NRG Energy Inc.
- F Ontario Power Generation, Inc.
- 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 Long Island Power Authority
- F New York Power Authority
- F PPL, EnergyPlus, LLC
- F Utility Services LLC
- G Windy Bay Power LLC

## Sector 6 – Customers

- G Wood Group Power Operations, Inc.

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

- G Commonwealth of MA Department of Public utilities
- 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 Midwest Reliability Organization
- F New York State Reliability Council, LLC