

ORANGE & ROCKLAND UTILITIES/  
ROCKLAND ELECTRIC COMPANY  
(ORU/RECO)

Local Planning Assumptions

**Sub-Regional RTEP**  
**February 4, 2016**

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# PRESENTATION OUTLINE



# COMPANY BACKGROUND (Service Territory)



## Company Profile:

TO & LSE under NYISO/PJM.  
Subsidiary of Con Edison, Inc.

## Existing Circuit Miles:

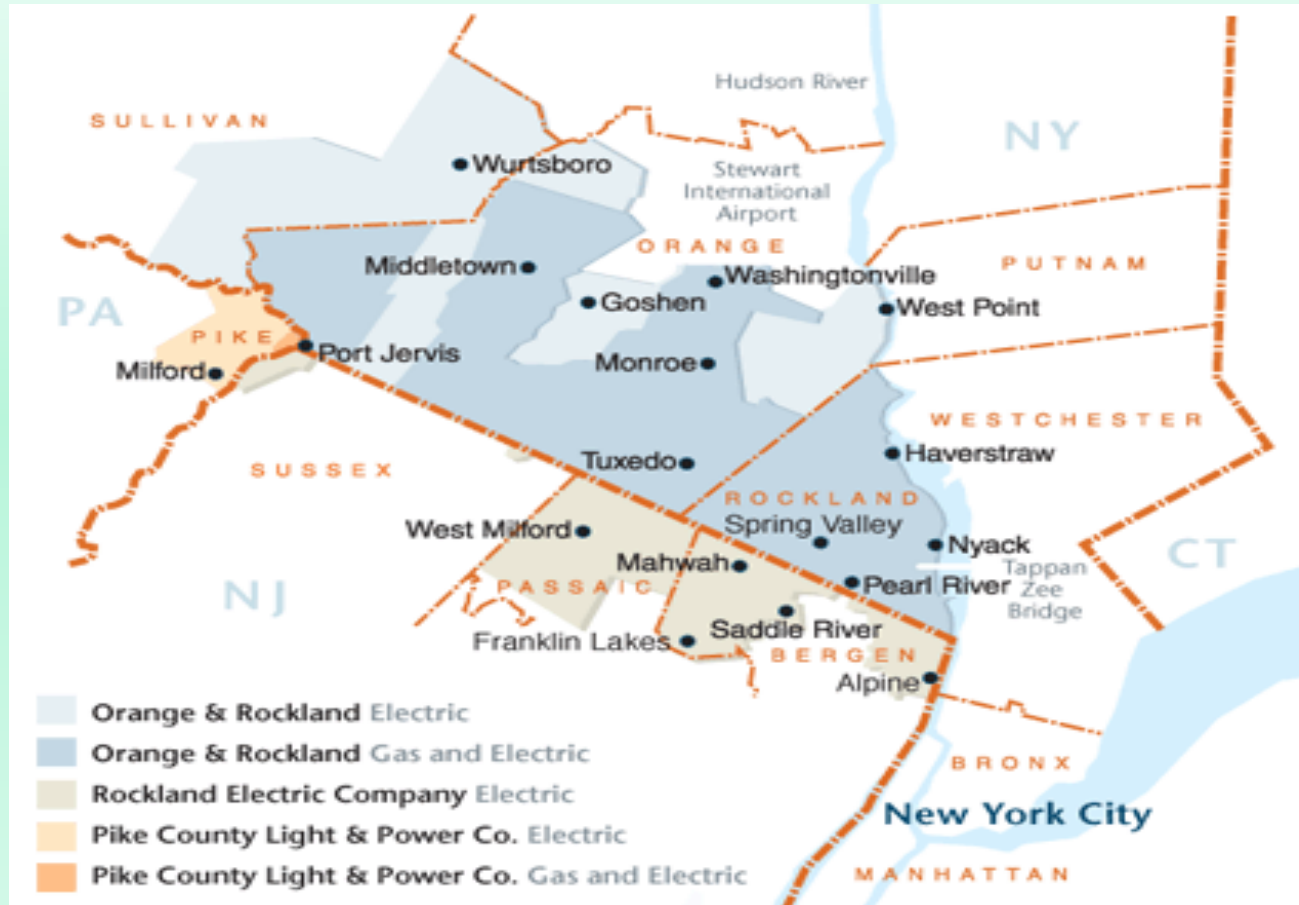
Transmission (69 kV to 345 kV) :  
554 miles  
Distribution (4 kV to 34.5 kV) :  
3,764 miles  
UG Distribution (13.2 kV) :  
1,696 miles

## Customer Data:

Electric: 300,700 (NY, NJ, PA)  
Gas: 130,000 (NY, PA)

## All time Peak Demand for electricity:

1617 MW (8/2/06)  
Number of employees ~ 1100  
Service Territory ~ 1350 sq. miles



# COMPANY BACKGROUND

## (Transmission Design Standards)

- **THERMAL**

- Normal Operating Conditions:
  - Below Normal Rating of Equipment
- N-1 Operating Conditions:
  - Below Long-Term Emergency (LTE) Rating of Equipment.

- **VOLTAGE**

- Normal and N-1 Operating Conditions:
  - $0.95 < \text{Nominal Bus voltage} < 1.05$

# LOCAL PLANNING ASSUMPTIONS

- FERC 715 Cases (New York & New Jersey)
- Latest Capital Budget
- Load Forecast:
  - 2016
  - 2020
  - 2025
- Factors Affecting Local Plans:
  - Reliability Requirements
  - Changes in Load Forecast
  - DSM
  - REV Screening (NY)
  - Federal and State Programs
  - New Generation

# TOOLS & METHODOLOGIES

- Thermal
- Voltage
- Short Circuit
- Equipment Replacements Due to Condition

# DEVELOPMENT OF LOCAL PLANS

- Load Flow Studies
- System Violations Identification
- System Solution Proposal and Evaluations
- Preparation of the Long Range Transmission Plan (2016-2025)

# DEVELOPMENT OF LOCAL PLANS

- **DESIGN CRITERIA REQUIREMENTS**

- Thermal Overloads and Voltage Violations
- Short Circuit Violations
- Equipment Condition



# METHODS OF DEFICIT RESOLUTION

- Load Transfers
- Equipment Upgrades
- New or Reconfiguration of Transmission Lines
- New Switching Stations with new or reconfigured Transmission Lines
- Transmission Station Reconfiguration or Upgrade
- Reactive Power Compensation (Capacitors or Reactors)
- Short Circuit Remediation/Breaker Upgrade
- REV Screening (NY)
- DSM

# LOCAL PLAN REPORTING

- **New York:**

- NYISO Transmission Planning Advisory Subcommittee (TPAS)
  - Orange and Rockland reports its Local Transmission Plan (LTP) to New York Stakeholders (18-month cycle).

- **New Jersey:**

- PJM's Sub-Regional RTEP
  - Rockland Electric Company (RECO) reports its Supplemental Projects (if any).