

NYISO Electric System Planning Process

Input Data, Assumptions, and Variable Lists

Revised 7/3/03

Draft for Discussion

Situational Input Assumptions

Economic Outlook (R & C)*

- GSP growth
- Employment Growth
- Base, High and Low Scenarios
- Use Economy.Com

Fuel Prices (C)*

- Coal, Oil, Gas and Nuclear
- Basis Difference i.e., transportation costs
- Use DOE EIA

* *NOTE: R* = *Relaibility analysis; C* = *Congestion projection*

Situational Input Assumptions (cont.)

New Resources (R & C)

- Generating include TO and class year projects
- Transmission include TO and class year projects
- Demand Response PRLWG
- Alternative Scenarios Criteria?

Resource Retirements (R & C)

- Planned
- Alternative Scenarios Criteria?



Situational Input Assumptions (cont.)

Neighboring Control Areas (R & C)

- Imports/Exports
 - Border charges (C)
 - Levels (R & C)
- Develop Planning Coordination Protocols with neighboring control areas (R & C)
 - Data exchange protocols
 - Future assumptions
 - Coordination of analyses

Data and Modeling Inputs

- Load Forecast (R & C)
 - Base, High, Low Scenarios LFWG
 - Load Forecast Uncertainty Weather and forecast error
- Generator Data (R & C)
 - Availability statistics GADS & Generic (R & C)
 - Heat-rate curves MAPS/Platts-RDI (C)
 - Emission rates MAPS/Platts-RDI (R & C)
 - Bidding Assumption "The perfect competition assumption" (C)
 I.E., generators bid marginal cost which is essentially their fuel cost

Data and Modeling Inputs (cont.)

Transmission (R & C)

- Network Topology
 - New York
 - Neighboring systems
- PAR settings
- Interface Definitions
- Contingency Lists
- Availability
- Transfer Limits
 - Normal
 - Emergency





Data and Modeling Inputs (cont.)

Demand response (R & C)

- As Percent of Peak, Load Modifier, etc PRLWG
 - Price Responsive
 - Emergency response
 - Energy efficiency programs

> Operational (R & C)

- EOPs
- Lines normally operated open etc

Reliability Criteria and Standards (R)

- NERC/NPPC
- NYSRC
- Local Reliability Rules

