New York State Energy Planning Board

Electricity System Modeling Update

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Electricity Modeling Updates since April Board Meeting

- Load forecasts from NYISO, PJM and ISO-NE
- Planned builds and retirements
- Transmission transfer limits
- Natural gas prices
- Oil use
- RPS assumptions
Preliminary Reference Cases
Cumulative MW Capacity Additions (Economic-Based)
Based on NYISO Planning Assumptions for Load, Capacity, and Transfer Limits

*Based on IPM Output dated 04.23.12*
Preliminary Reference Cases
Generation Mix (GWh)
Based on NYISO Planning Assumptions for Load, Capacity, and Transfer Limits

* Based on IPM Output dated 04.23.12
Possible Model Runs

• Higher/Lower load than NYISO planning forecast
• Higher/Lower natural gas prices
• Additional increment(s) of energy efficiency
• Additional increment(s) of renewable resources
• Additional transmission capabilities
• Load growth due to electric vehicle penetration
• Specific unit additions, repowering or retirements
Possible Model Run Examples:
Higher and Lower Load

- Econometric
- Extreme Weather (High)
- Extreme Weather (Low)
- Efficiency (2012-2018 Average)
- Reference
Possible Model Run Examples: Higher and Lower Gas Prices