

New York State Energy Planning Board

2013 New York State Energy Plan Quantitative Analysis

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October 26, 2011

Quantitative Analysis for 2013 SEP

- Forecasts: Energy Use and Prices
- Electricity System Modeling
- Potential Study

Forecasts: Energy Use and Prices

- Fuel/Energy Type
 - Electricity
 - Natural Gas
 - Petroleum Products
- Customer Sector
 - Commercial
 - Industrial
 - Residential
 - Transportation

Electricity System Modeling

- Integrated Planning Model (IPM) – ICF International
- Data Inputs
 - Existing Generation Units/Known Changes
 - Transmission Capabilities
 - Demand Forecast and Fuel Prices
 - Reserve Margins and Local Reliability Requirements
 - Costs and Performance of New Technologies
 - Environmental and Energy Policies

Electricity System Modeling (cont'd)

- Model Results: Outputs
 - Generation Mix
 - New Capacity Needs
 - Retirements
 - Wholesale Energy and Capacity Prices
 - Emissions

Potential Study: Energy Efficiency and Renewable Resources

- Technical, Economic, and Achievable Potential
- End-Use Efficiency for Electricity, Natural Gas, and Petroleum
- Customer-Sited and Large-Scale Renewable Resources
- Residential, Commercial, Industrial Sectors