

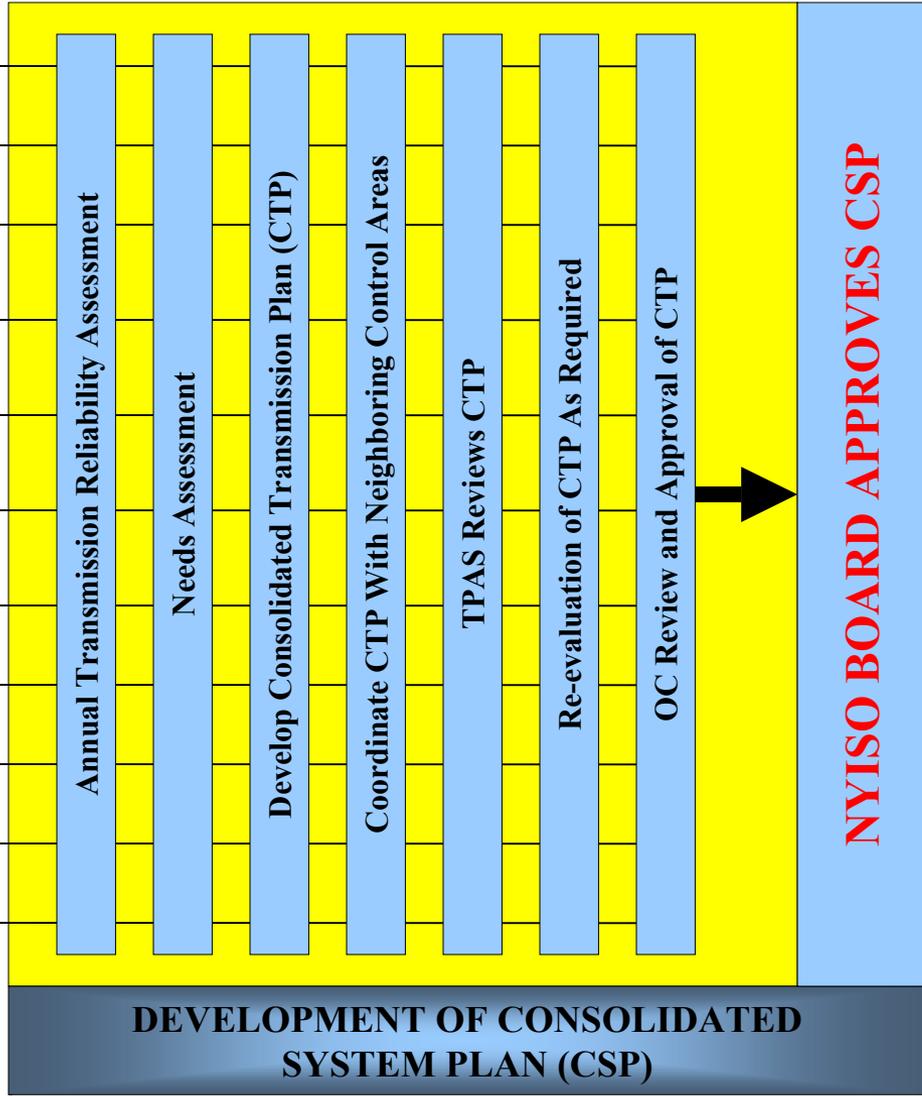
# **NYISO CONSOLIDATED SYSTEM PLANNING PROCESS ( INITIAL PHASE )**

**System Planning Working Group Meeting**

**June 13, 2003**

# DRIVERS

- Reliability Standards
- Load Forecast
- Facility Retirements
- Neighbor Systems Conditions / Plans
- Transmission Owner Plans
- Interconnection Requests/ Class Projects
- System Impact Studies
- Resource Adequacy Assessments
- Transmission Adequacy Assessments
- Operational Assessments
- Congestion Assessments



**DEVELOPMENT OF CONSOLIDATED SYSTEM PLAN (CSP)**

**NYISO BOARD APPROVES CSP**

# **Load Forecast and Demand Response**

## **I. Load Forecasting Task Force**

- Economy.com supplier of Economic Forecast as Forecast Drivers
- In addition to ICAP Forecast, prepare 10 Year Look Ahead

## **II. Price Responsive Load Working Group**

- Prepare long-term outlook for demand response consistent with demand forecast

# Facility Retirements

- **Applies to Both Generation and Transmission Facilities**
- **Should be reported in the Annual NYISO Load & Capacity Data Report**
- **Expiration of Licenses for Nuclear Units**
- **Expiration of Licenses for Hydro Units**
- **Announced Retirements or Shutdowns**
- **Planned Long-Term Maintenance, Replacements, or Overhauls**

# Neighbor Systems Conditions and Plans

- **NERC and NPCC Annual Survey of Load, Capacity, and Facilities**
- **NERC and NPCC Annual Base Case Development Process**
- **NPCC Major Projects List**
- **NPCC Annual Area Transmission Reviews**
- **Inter-ISO Coordination**
  - *Coordination Protocols currently under review by Inter-ISO Liaison Planning WG, NPCC and MACC.*

# Stakeholder Input

- **Transmission Owner Plans**
- **Sector Meetings**
  - Identify Planning Issues
  - Discuss Future Scenarios

# Tariff Studies

## ➤ **Interconnection Request/Class Projects**

- *Determines Generating Projects, System Upgrade Facilities and HVDC Projects to be included in Planning Study*

## ➤ **System Impact Studies**

- *Determines AC Transmission System Upgrades to be Included in Planning Study*

# Resource Adequacy

- **Determines minimum level of statewide resources to meet loss of load expectation criteria**
- **Determines minimum level of locational resources needed in order not to violate statewide criteria**
- **Uses Multi-Area Reliability Simulation (MARS) software to model regional Control Areas**
- **Multi-Year Assessment**

# Transmission Adequacy Assessments

- **NYISO Annual Transmission Reliability Assessment (ATRA)**
- **NPCC Annual Area Transmission Review**
- **Triennial NPCC Overall Transmission Reliability Study**
- **Other Regional or Inter-Regional Transmission Adequacy Assessments**
  - *Other NPCC Transmission Assessments (e.g. RPF, CP10)*
  - *MEN Future System Studies*
  - *Inter-ISO/Area Assessments*
- **Transmission Owner Assessments**

# Operational Assessments

- **NYISO Seasonal Operating Studies**
- **MEN Seasonal Operating Studies**
- **NYISO Annual Transmission Performance Report**
- **NYISO Voltage Limit Studies**
- **NYISO Stability Limit Studies**
- **NYISO Pre-Seasonal Fault-Duty Assessment (*New*)**
- **Other Ad Hoc Operational Assessments**
- **Transmission Owner Operational Assessments**

# Congestion Performance Assessment

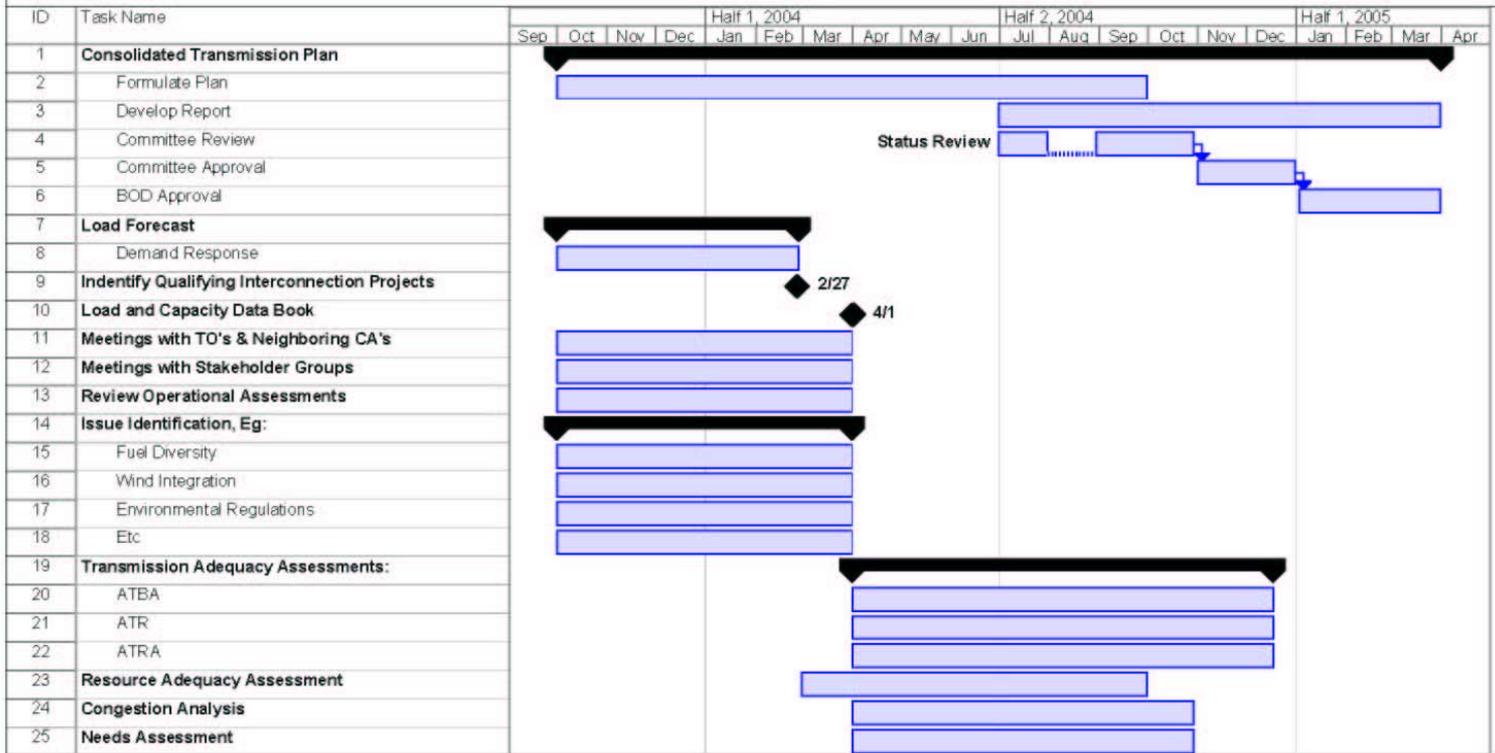
## I. Review and Assessment of NYCA Historical Congestion Costs

- *Day-Ahead Market*

## II. Multi-Area Production Simulation of Future System Conditions

- *Primary Assessment: Is the difference in locational prices trending towards or away from zero over time*
- *Includes all Public known SUFs and Retirements*
- *Input Assumptions based on Publicly Available Data*
  - *e.g.: DOE-EIA Fuel Forecast*

### Consolidated Planning Process Proforma Timeline



Project: consol\_plan\_process2  
Date: Wed 6/4/03

