

NYISO Day-Ahead Market Phase Angle Regulator Optimization

NYISO Operations & Reliability
SCUC Enhancement

July 19, 2001

PAR Optimization

- Software Functionality
- PARs Selected for Optimization
- NYISO Web Posting Information
- Expected Software Deployment

PAR Optimization

- Software Functionality
 - PARs initialized with MW schedule as currently developed (previous like day's)
 - PARs selected for optimization have shift factors developed for relief of transmission constraints
 - UC optimization algorithm will adjust PAR schedules to solve constraints to minimize total production cost
 - Optimization considers MW scheduling limits for PARs

PAR Optimization

- PARs Selected for Optimization
 - Only PARs under NYISO control are optimized (ISO Operational Control or ISO/TO Operating Agreements)
 - All other PARs scheduled as currently done using previous like day's operation
 - Only Day-Ahead Market PAR schedules are optimized, Hour-Ahead and Real-Time Market scheduling remains unchanged

PARs Selected for Optimization

- Dunwoodie North N1 [99031]
- Dunwoodie North N2 [99032]
- Dunwoodie South S1 [99153L]
- Dunwoodie South S2 [99153R]
- Tremont 11 [X28]
- Tremont 12 [X28]
- Freshkill R1 [21191]
- Freshkill R2 [21192]
- Gowanus R2 [T2 bank]
- Gowanus R14 [T14 bank]
- Corona R1 [18001]
- Corona R2 [18002]
- East Garden City PAR1 [Y49]
- East Garden City PAR1 [Y49]
- Barrett PS [459]
- Pilgrim PS [871]
- Northport PS2 [Bus Tie]

PAR Optimization

- NYISO Web Posting Information
 - Final DAM hourly PAR MW flow values for both optimized and all other PARs

PAR Optimization

- Software Deployment
 - Software changes on July 31, 2001
 - Effective for DAM on August 1, 2001