

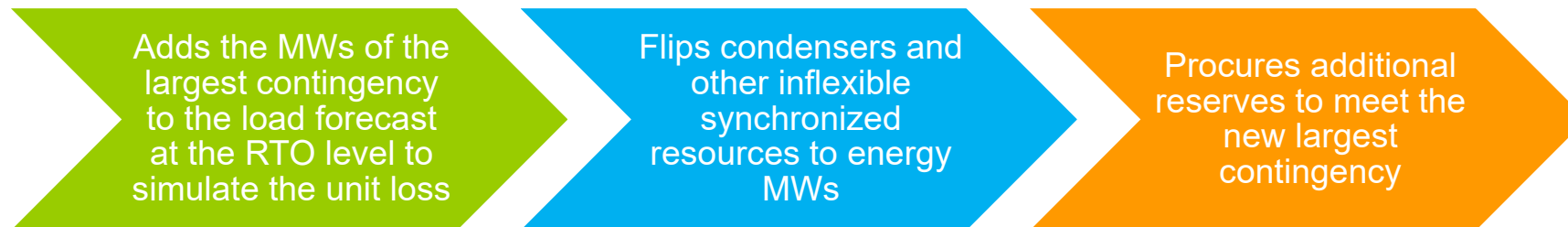


Synchronized Reserve Event Actions and Expectations

Ilyana Dropkin
Performance Compliance
PJM Interconnection, L.L.C.
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- SRDTF established in March, 2021 reporting to the OC.
 - Reviewed education and analyses based on real events
 - Generated PJM (IRD) and IMM packages
- Scope of SRDTF was around deployment of reserves during a Synchronized Reserve Event.
 - Initiation mechanism and communications
 - Constraint control during events
 - Pricing the conversion of reserves to energy
 - Ease of transition in and out of events
 - Performance evaluation of using SCED
- Reserve clearing/estimation and pricing covered by other efforts and were out of scope.
- PJM Package got endorsed at November, 2021 OC.
 - Preferred over status quo and IMM package
- PJM Package along with proposed Tariff changes got endorsed at December, 2021 MRC and January, 2022 MC.

- Intelligent Reserve Deployment (IRD)
 - SCED case that simulates the loss of the largest generation contingency. Approval of the case will trigger a deployment event.
 - Economic dispatch based on real-time input including constraints
 - Converts inflexible reserve MWs to energy
 - Readily available for use, no lag time
 - Initiates faster response until appropriate RTSCED case available



- PJM will be filing a transmittal letter with FERC in March, 2022.
 - Included Proposed Tariff Changes
 - OATT Attachment K, Appendix, Section 1.11
 - 1.11.4A Synchronized Reserve (c)
 - OATT Attachment K, Appendix, Section 3.2
 - 3.2.3A Synchronized Reserve (j) and (k)
- PJM Manual changes will be brought to PJM committees in April/May
 - Manual 11 (MIC)
 - Manual 12 (OC)
 - Manual 28 (MIC)

- IRD Training will be provided as part of 2022 PJM Operator Seminar starting in March
- Implementation date of IRD is June 1, 2022
 - IRD will initiate deployments with updated basepoints
 - New performance evaluation based on event dispatch
 - Ensure proper event recovery will be achieved
 - IRD will work under current reserve procurement rules and be flexible to adapt to upcoming changes
- Continue to provide IRD updates at OC meetings
 - Collect data from synchronized events
 - Review performance metrics and solicit feedback
 - Adjust inputs and parameters based on performance
 - Adjust for upcoming Market changes

Presenter
Ilyana Dropkin,
Ilyana.Dropkin@pjm.com

SME
Michael Zhang,
Michael.Zhang@pjm.com



Member Hotline

(610) 666 – 8980

(866) 400 – 8980

custsvc@pjm.com

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