

nGEM Project Overview

Ray Fernandez, Principal Consultant Market Services Division AFMTF Technical Workshop September 13, 2021

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Multi-year partnership between PJM, MISO, ISO-NE and GE started in April 2017

Goals

- Create a quantum leap in capability and performance
- Enable ISOs to share in costs and system functionality
- Reduce maintenance costs and time-to-market
- Improve system security and quality
- Develop the next generation markets support team at GE and PJM











Product Development



Software products

- Data Transfer Enhancements
- Redesigned Network Applications
- Redesigned Market Clearing Engines
- Redesigned Markets Gateway
- Bidding Service

PJM Product Implementation



Customize and implement

- Data Transfer Enhancements
- Redesigned Network Applications

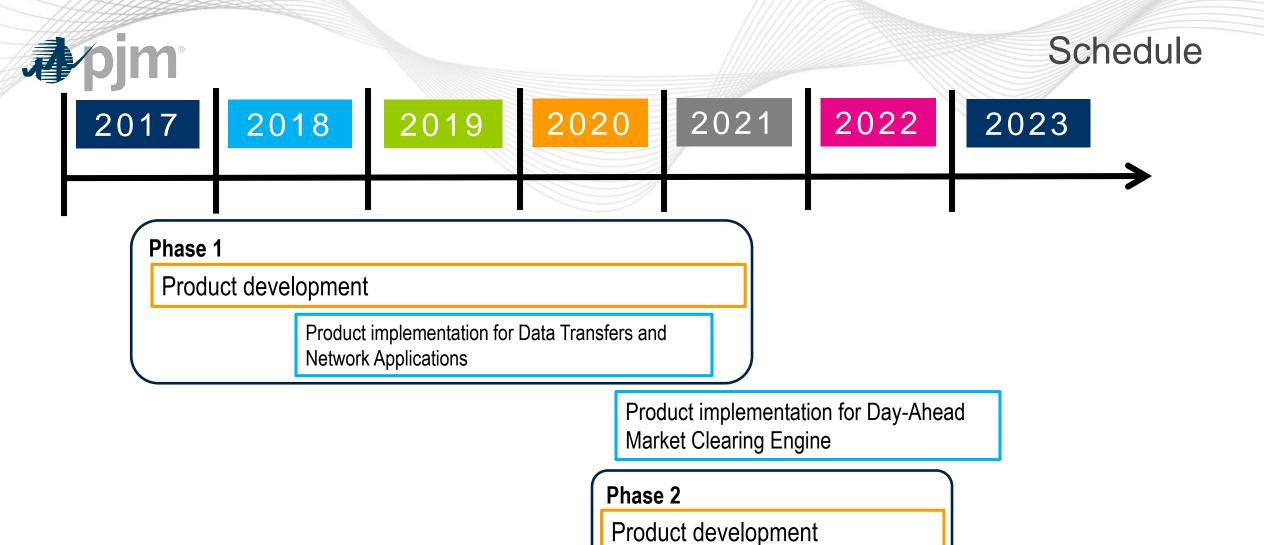


Product Development



Software products

- Market Clearing Engine User Interface for Market Operators
- Enhanced Combined Cycle Model
- Time-Coupled Security Constrained Unit Commitment (SCUC) and Security Constrained Economic Dispatch (SCED) with Simultaneous Feasibility Test (SFT)
- Clearing Choreographer
- Case Builder



Product implementation for Other Market Clearing Engines



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