Updated 2022 Annual Work Plan

ISO new england

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Objectives and Highlights

(2022 AWP) since its release in September 2021
In Q3, the ISO begins full cycle again with 2023 AWP

This report reflects updates to the 2022 Annual Work Plan

- The update summarizes: completed work; work on track or with refined scope/schedule; and emerging work initiated by/requested from the ISO, FERC, and stakeholders
- Plans and timeframes for both the anchor projects and the notable initiatives remain largely unchanged due to effective, coordinated planning and prioritization efforts by the ISO and stakeholders
 - The update underscores the ISO's and the region's continued focus on advancing a reliable clean-energy transition through innovation and collaboration
 - Some emergent initiatives may not be achievable for 2022 and need to be considered for 2023
 - Reminder that the AWP focuses on larger initiatives and also does not represent the ISO's extensive day-to-day operations related to running the grid, the markets, and its organization

Accomplished Projects

Work completed since 2022 AWP publication

- Anchor Project
 - Extended-Term Transmission Planning Phase 1: Tariff changes filed with FERC in December 2021;
 FERC issued Order accepting the rules in February 2022
- Notable Initiatives
 - FERC Order No. 2222 Compliance: Proposal filed with FERC in February
 - Competitive Capacity Markets without a Minimum Offer Price Rule (MOPR): Filed proposal with FERC in March
 - Transmission Planning for the Clean-Energy Transition: Final Pilot Study Report posted in January; in Q2, the ISO will update the Planning Advisory Committee on any further analyses slated for the first half of year
 - Models and Simulators to Support Future Grid Studies
 - Developed recommendations for the deployment of Electromagnetic Transient Simulation framework
 - Completed core day-ahead commitment engine of Integrated Market Simulator



Projects on Track

Scopes and schedules unchanged since 2022 AWP publication

- Operations and Planning Anchor Projects
 - Modeling/Assessing Operational Impacts of Extreme Weather Events: Stakeholder discussions began in February
 - This is in addition to ongoing energy adequacy and winter preparedness discussions
 - 2050 Transmission Study: Stakeholder discussions began in 2021 and initial study results presented in March 2022
 - Extended-Term Transmission Planning Phase 2: Stakeholder discussions to begin in Q3 with a potential FERC filing in Q4 2022/Q1 2023

Notable Initiatives

- Pathways to the Future Grid Study: Final report to be published in April
- Solar DNE: Discussions to begin by Q3; FERC filing expected by end of year with implementation in Q2 2023
- Models and Simulators to Support Future Grid Studies: Continued work on both the Inverter-Based Resource Integration and Modeling Assessment and the Integrated Market Simulator are on track
- nGEM Day-Ahead Market Clearing Engine Implementation: Q1 2023 in-service date remains unchanged

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– Enhance Cyber-Security Tools: Projects on track for 2022 implementation



Updated Market Anchor Projects

Scopes and schedules refined since 2022 AWP publication

- Resource Capacity Accreditation (RCA)
 - Project to proceed as one initiative for FCA 19 rather than in two phases (for FCA 18 and 19) as originally presented in 2022 AWP
 - The ISO expects to begin discussions in late-Q2/early-Q3, with a detailed design presented by end of year
 - The ISO plans to file the design with FERC by Q4 2023 for FCA 19
 - Revised from 2022 AWP target for filing at end of 2022 for first phase
- Day-Ahead Ancillary Services
 - The ISO expects to outline major project components and timing with stakeholders in early Q2
 - 2022 AWP depicted stakeholder discussions could be as early as Q1
 - Design proposal discussions to begin in Q4 and extend through 2023, allowing a robust, year-long stakeholder process before filing with FERC by Q4 2023
 - As previously indicated, the ISO plans to decouple the implementation timing from FCA 19 (Capacity Commitment Period 2028-2029)



Updated Notable Initiatives

Scopes and schedules refined since 2022 AWP publication

- Storage as a Transmission-Only Asset
 Stakeholder discussions of the proposal to begin in Q2
 - Stakeholder discussions originally planned to begin in Q1
 - Name changed from "Storage as Transmission Solution"
- Future Grid Reliability Study (FGRS) Phase 1
 - Study extended to consider new scenarios and sensitivities; the ISO plans to present the draft executive report in June

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2022 AWP targeted March for report

New England Future Grid Initiative

Next steps for discussion



- FGRS Phase 2 of Framework Document
 - Use of a consultant to assess revenue sufficiency
 - The 2050 Transmission Study effectively addresses the thermal steadystate transmission security analysis
 - Voltage and transient stability transmission security analyses require granular distribution system modeling and detailed assumptions that do not align with uncertainties inherent in studies of far-future years

Pathways to the Future Grid

 After final report, solicit feedback on a preferred pathway to determine if consensus exists ahead of confirming next steps

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- State input will be essential

Additional ISO-Initiated Projects

Work that improves processes and relates to other projects

- DER Interconnection Jurisdiction Changes: Modify relevant sections of the Interconnection Procedures in Schedules 22 and 23 of the Open Access Transmission Tariff (OATT) to identify that new distribution-connected generation should proceed through the state interconnection process
 - Stakeholder discussions began in March with implementation expected in Q3
- Annual Economic Study Process Changes: Modify Attachment K of the OATT to provide a cohesive, repeatable study to stakeholders based on ISO-defined reference scenarios and stakeholder-requested sensitivities
 - Should yield consistent analysis and facilitate comparison; would balance Economic Studies with the RSP cycle
 - Stakeholder discussions to begin in Q2, with implementation expected in Q1 2023
- FCM Parameter (CONE and Net CONE) Reset Deferral: Defer next full recalculation in light of other planned market changes that will impact the calculations; reset to no later than FCA 21

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Stakeholder discussions to begin in Q2



New FERC Initiative

FERC actions are always accommodated but can impact AWP

 Order 881: Final Rule re Managing Transmission Line Ratings

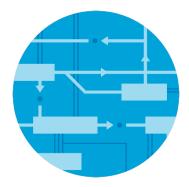


 Order is intended to improve accuracy and transparency of transmission line ratings used by transmission providers

- Stakeholder discussions began in February
- The ISO to file by the July 12 compliance deadline

New Stakeholder Requests

Requests for evaluation and consideration; how to plan ahead for 2023?



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1. Retirement Reforms - Return to Service:*

Enable retired resources to return to service under broader conditions and enhance retirement de-list bid price flexibility

- 2. Performance of Capacity Resources:* Consider the implications of the performance of various capacity resources under current system conditions
- **3. Non-Commercial Financial Assurance Revisions**: Modify financial assurance for delayed, non-commercial new capacity resources

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4. Publish Public Information from Overlapping Impact Studies: Enable publication of resource-specific study information

*The ISO is incorporating this initiative into 2022 AWP, see next slide.

