PJM Update to ISAC
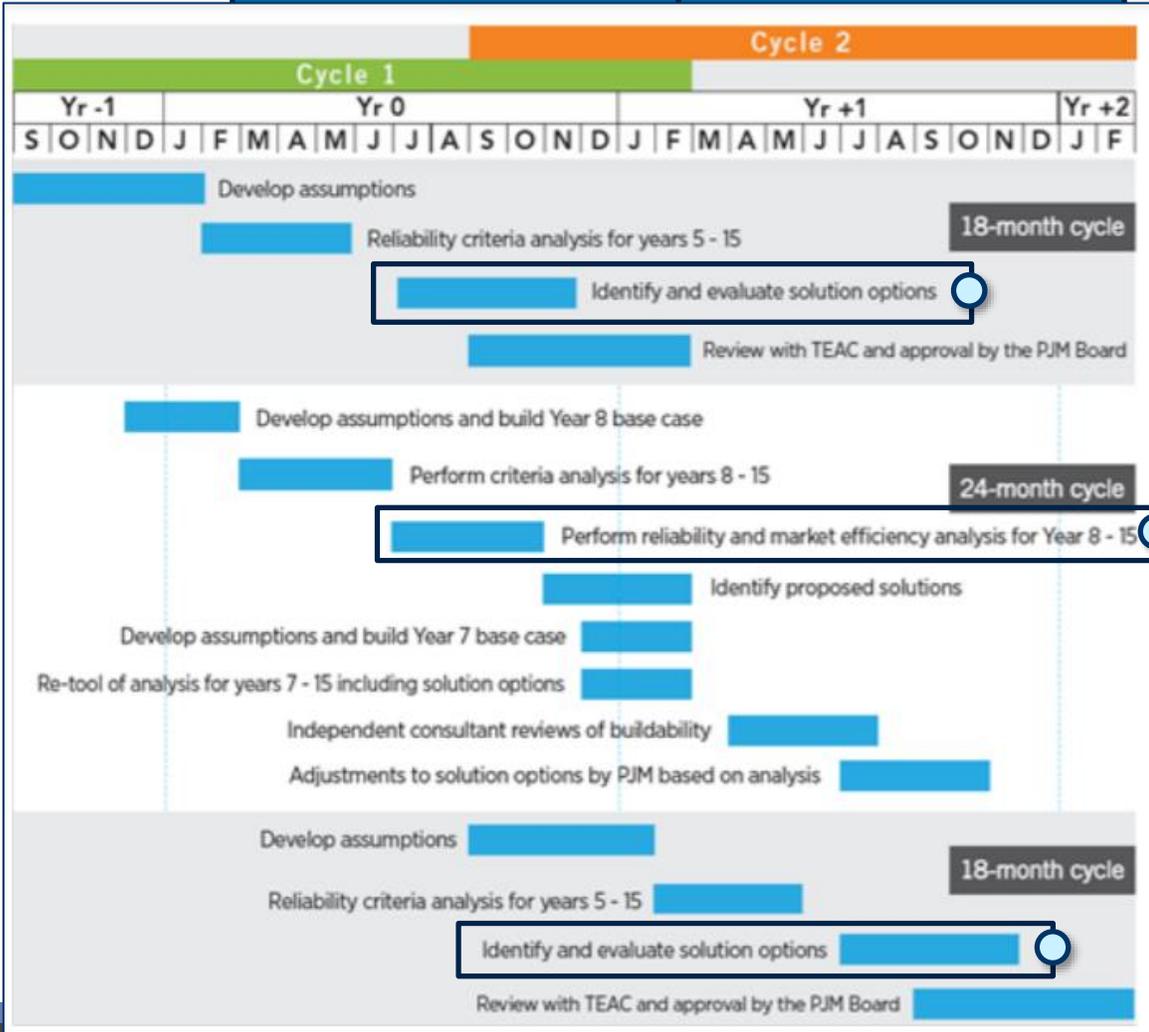
Mark Sims, Manager

Independent State Agencies Committee (ISAC)

March 22, 2021

State Agreement Approach

2021 SAA Proposal Window to Support NJ OSW

OPEN — Anticipated
CLOSE — Anticipated +120 days

2020 Window 4

OPEN — 3.3.2021
CLOSE — 4.2.2021

2020/21 Long-Term Window 1

OPEN — 1.11.2021
CLOSE — 5.11.2021

2021 Reliability Windows as needed

OPEN — Target 3Q 2021
CLOSE — Default 60 day duration

		Duration	
2020 Long Term Window 1	**Open**	120 days	2020/21 Long-Term Window 1 — OPEN 1.11.2021 — CLOSE 5.11.2021
2021 SAA Proposal Window to Support NJ OSW	**Anticipated**	120 days	2021 SAA Proposal Window to Support NJ OSW — OPEN Anticipated — CLOSE
2021 Reliability Windows	**Open - 2020 Window # 4 –** 2020 reliability violations recently provided to PJM so processing ASAP in 2021	30 days	2020 Window 4 — OPEN 3.3.2021 — CLOSE 4.2.2021
	2021 Reliability Windows **as needed**	60 days (default)	**2021 Reliability Windows as needed** — OPEN Target 3Q 2021 — CLOSE Default 60 day duration

- Scenarios
  - Number of scenarios
  - Key assumptions
    - State Policy goals
    - Location and magnitude of offshore wind
    - Decarbonization & renewables
- Modeling effort underway at PJM
- Anticipated analysis
- Next steps and 2021 deliverables

Scenario #1	Scenarios #2 – 5
Timeline: 2027	**Timeline: 2035**
• OSW injection of 9,020 MW • Announced generator deactivations • Incorporate state policy goals through 2027*	• OSW injections range from 17,620 – 19,620 MW • Scenarios have increased locational variability • Includes both announced generator deactivations and possible deactivations • Incorporate state policy goals through 2035*
2025 RTEP Base Case	**2028 RTEP Base Case**

*State policy goals account for utility-scale and distributed level targets as outlined in relevant states' renewable portfolio standards.

PJM Reports and Documentation

- RTEP Documentation
  - https://www.pjm.com/library/reports-notices/rtep-documents

- RTEP in Review - 2020 RTEP Report
  - Issued March 2021

- Brochure - Regional Transmission Expansion Planning: Planning the Future of the Grid, Today

- State Reports

- Previous reports & White Papers

Regional Transmission Expansion Plan (RTEP)

PJM's Regional Transmission Expansion Plan identifies transmission system additions and improvements needed to keep electricity flowing to the millions of people throughout PJM's region. PJM's annual RTEP Report describes transmission study input data, processes and results, as well as PJM Board-approved transmission upgrades and process changes during the previous year. Periodically, PJM publishes white papers that present study input parameters and address transmission planning topics of current stakeholder interest.

RTEP In Review

The 2020 Regional Transmission Expansion Plan (RTEP) report includes a summary of reliability, market efficiency and operational performance studies. This year's report also includes discussion of RTEP process enhancements that were completed or initiated in 2020, as well as shifting trends in generation fleet changes driven by plan9 deactivation and new natural gas plant interconnection.

The report describes the annual RTEP process, including the NERC and regional planning criteria that drive the analysis, and the resulting studies and proposal windows. Specific results from studies conducted throughout 2020 are summarized, including baseline reliability, market efficiency, operational performance, transmission owner criteria analyses and interregional studies.

In addition to the presentation of PJM-wide results, PJM presents state-by-state summaries of planning activities that occurred in 2020.

Key 2020 RTEP Report Graphics & Information [PPT]

Book 1 [PDF] (18 MB)

State Reports

Delaware | Illinois | Indiana | Kentucky | Maryland & DC | Michigan | New Jersey | North Carolina | Ohio | Pennsylvania | Tennessee | Virginia | West Virginia [PDF]

Brochure

RTEP Process: Regional Transmission Expansion Planning: Planning the Future of the Grid, Today [PDF]

RTEP Reports & White Papers

2019 | 2018 | 2017 | 2016 | 2015 | 2014 | 2013