

Market Simulation Update

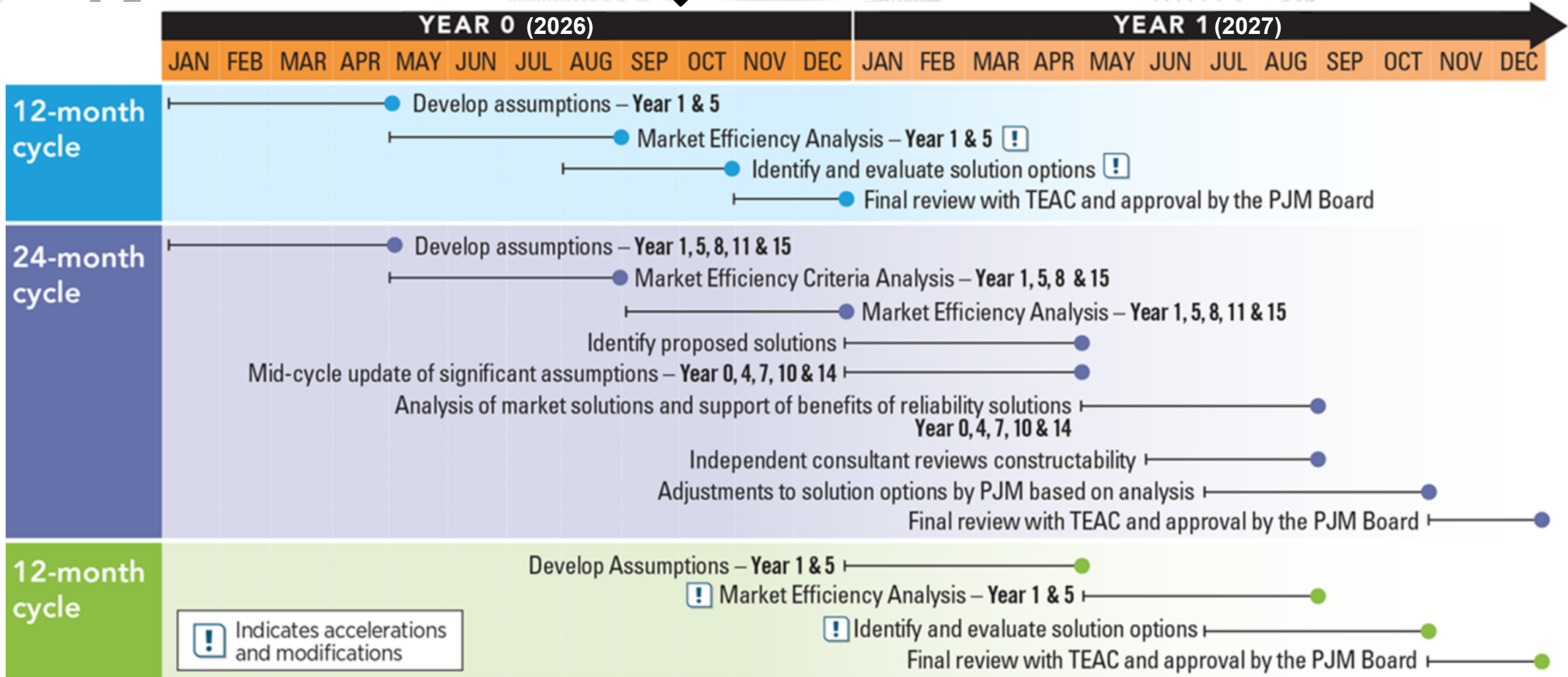
Market Simulation

Transmission Expansion Advisory Committee

October 6, 2026

Disclaimer: While materials are current at the time of publishing, applicable requirements may change. PJM Governing Documents control.

2026/27 Market Efficiency Cycle



Step	Target Date
Post Preliminary 2031 Base Case	July 2026
Post Updated Preliminary 2031 Base Case	September 2026
Stakeholders Feedback	August – October 2026
Identify Congestion Drivers	November – December 2026
Post Final Base Case and Target Congestion Drivers	January 2027
Long Term Proposal Window	January – May 2027
Analysis of Proposed Solutions	May – September 2027
TEAC Reviews and Board Approval	October – December 2027

- PJM posted an updated preliminary 2026/2027 ME Base Case database (2031 modeled year) on September 2, 2026.
 - Updated 2031 ME base case and corresponding congestion report were posted on the [ME secure page](#).
- Deadline for feedback from stakeholders extended through October 2026.
- Market Efficiency Training will be held on Monday, November 16, 2026.
 - [In Person registration](#)
 - [Virtual registration](#)
- Next Steps:
 - Update generation expansion to observe PJM reserve requirement.
 - Update interregional data as needed.
 - Add other modeled years (2027, 2034, 2037).

2026 Acceleration Analysis of RTEP Reliability Projects

Disclaimer: While materials are current at the time of publishing, applicable requirements may change. PJM Governing Documents control.

- Scope
 - Determine which Reliability upgrades, if any, have an economic benefit if accelerated or modified.
- Study Assumptions
 - Analysis will use the most recent Market Efficiency Base Case available at the time.
 - Two simulated years used to study impacts of approved RTEP reliability projects:
 - Near-Term simulations
 - Future simulations
- Process
 - Compare market congestion for near term vs. future simulations.
 - Estimate economic impact of accelerating planned reliability upgrades.

- Completed production cost simulations:
 - 2027 and 2031 study years with AS-IS Topology.
 - 2027 and 2031 study years with RTEP Topology.
- Identified reliability upgrades responsible for congestion reductions between the AS-IS and RTEP topology cases.
- Currently checking the feasibility of accelerating schedules for the identified reliability upgrades.
- Results to be presented at future TEAC meetings.

Acceleration Candidates

Disclaimer: While materials are current at the time of publishing, applicable requirements may change. PJM Governing Documents control.

- PJM has identified 28 Acceleration candidates that are expected to provide congestion relief (see slides 16-18).
- All candidates are previously approved baseline reliability upgrades with projected in-service dates in 2028 and beyond.
- Feasibility of acceleration to be presented at future TEAC meetings.

PJM RTEP Project Acceleration Candidate	Project Type	Transmission Owner	Benefitting Constraints
B3780: New Peach Bottom-Graceton 500 kV line	Greenfield	PE/BGE	Nottingham Reactor 230 kV, Peach Bottom #1 TR 500/230 kV
B3800: Mars and Golden 500/230 kV upgrades	Upgrade	DOM	Mars-Shellhorn 230 kV, Pleasant View-Ashburn 230 kV
B3800: New 502 Jct-Woodside 500 kV line	Greenfield	APS/NEET	Beryl-Cross School 138 kV, Black Oak #3 TR 500/138 kV, Black Oak-Bedington Interface, Black Oak-Cross School 138 kV, Mt Zion-Beryl 138 kV
B3800: New North Delta-High Ridge 500 kV line	Greenfield	BGE/PE/PEP/TRN	Frederick Rd-Chestnut Hill 115 kV, High Ridge-Sandy Spring 230 kV, Howard-Pumphery 230 kV
B3800: New Yeat-Vint Hill 500 kV line	Greenfield	DOM	Bristers #1 TR 500/230 kV
B3800: Rebuild Barracks Road – Crozet 230 kV line	Upgrade	DOM	Crozet-Barracks Road 230 kV
B3800: Rebuild Dickerson-Edwards Ferry 230 kV line	Upgrade	PEP	Edwards Ferry-Dickerson 230 kV
B3800: Rebuild Doods – Crozet 230 kV line	Upgrade	DOM	Doods-Crozet 230 kV
B3800: Rebuild Loudoun-Morrisville 500 kV	Upgrade	DOM	Loudoun-Morrisville 500 kV
B3800: Rebuild Railroad-Gainesville 230 kV	Upgrade	DOM	Gainesville-Railroad 230 kV
B3800: Upgrade terminal equipment at Dickerson H 230 kV	Upgrade	PEP	Dickerson H-Dickerson #1 230 kV, Dickerson H-Dickerson #2 230 kV
B3800: Upgrade terminal equipment at Edwards Ferry 230 kV	Upgrade	DOM	Pleasant View-Edwards Ferry 230 kV

RTEP project information can be found on [PJM Project Status and Cost Allocation Page](#)

PJM RTEP Project Acceleration Candidate	Project Type	Transmission Owner	Benefitting Constraints
B3811: Rebuild Haumesser Road-H-452 138 kV line	Upgrade	COMED	Haumesser Rd.(R)-W DeKalb(R)138kV
B3862: Upgrade Equipment at Elroy 500 kV substation	Upgrade	PE	Elroy-Hosensack 500 kV
B3899: Replace equipment at Kyger Creek 345 kV substation	Upgrade	OVEC	Kyger-Sporn 345 kV
B3915: Reconductor Dresden-Mulberry 345 kV lines	Upgrade	COMED	Dresden-Mulberry 345 kV
B4000: New Amos-Welton Springs 765 kV line	Greenfield	AEP/APS	AP South Interface, Museville-Smith Mountain 138 kV, Fieldale-Thornton 138 kV, Fieldale-Oaklevel 138 kV, Claytor -South Christiansburg 138 kV, Brunner Island Reactor-W Hempfield 230 kV, Black Oak-Bedington Interface, Person-Hendrick 230 kV
B4000: New Joshua Falls-Yeat 765 kV line	Greenfield	AEP/DOM	AP South Interface, Wurno-Snowville 138 kV, West Glow-Wurno 138 kV, Person-Hendrick 230 kV, Museville-Smith Mountain 138 kV, Clifford-Colleen 138 kV, Bremono-Scottsville 115 kV, Boxwood - Clifford 138 kV
B4000: New Thornburg 500/230 kV substation	Greenfield	DOM	Belvoir-Franconia 230 kV, Ox #2 TR 500/230 kV
B4000: Rebuild Marsh Run to Remington CT 230 kV line	Upgrade	APS/NEET	Remington CT-Marsh Run 230 kV

RTEP project information can be found on [PJM Project Status and Cost Allocation Page](#)

PJM RTEP Project Acceleration Candidate	Project Type	Transmission Owner	Benefitting Constraints
B4029: New Kelayres 500/230 kV substation	Greenfield	PPL	Siegfried #4 TR 230/138 kV
B4029: Reconductor Susquehanna-Tomhicken 230 kV lines	Upgrade	PPL	Harwood-Susquehanna #2 230 kV
B4030: Rebuild Chesterfield-Basin 230 kV line	Upgrade	DOM	Basin-Chesterfield 230 kV
b4031: Rebuild Fork Union-Bremo 115 kV line	Upgrade	PEPCO	Fork Union-Bremo 115 kV #2
b4036: New Kammer-Juniata 765 kV line	Greenfield	PEN/NEET/ PPL/APS/AEP	AP South Interface, West Interface, East Towanda-Canyon 230 kV, Cloverdale-Joshua Falls Interface, Central Interface
b4052: New Dickerson 500/230 kV substation	Greenfield	DOM/APS/ PEP	Dickerson H-Dickerson #1 230 kV, Dickerson H-Dickerson #2 230 kV
b4053: New Mosby-Heritage HVDC 525 kV line	Greenfield	DOM	Altavista #1 TR 138/115 kV, Cloverdale-Joshua Falls Interface, Claytor - South Christiansburg 138 kV, Bremo 138/115 kV , Benns Church-Chuckatuck 230 kV, Axton-Danville 138 kV, AP South Interface, Altavista-Otter 138 kV, East Danville-Danville 138 kV, Pumphouse-Poe 115 kV, Museville-Smith Mountain 138 kV, Keywood-Abingdon 138 kV, Fork Union #1 TR 230/115 kV, Fieldale-Thornton 138 kV, Fieldale-Oaklevel 138 kV, Farmville-AH1-439 Tap 230 kV, Farmville #2 TR 230/115 kV
B4068: Rebuild Kenny-Roberts 138 kV	Upgrade	AEP	Kenny-Roberts 138 kV

RTEP project information can be found on [PJM Project Status and Cost Allocation Page](#)

Facilitator:

Eric Hsia, Eric.Hsia@pjm.com

Secretary:

Matthew Bernstein, Matthew.Bernstein@pjm.com

SME/Presenters:

Nicolae Dumitriu, Nicolae.Dumitriu@pjm.com

Nicholas Rodak, Nicholas.Rodak@pjm.com

Market Efficiency Update**Member Hotline**

(610) 666 – 8980

(866) 400 – 8980

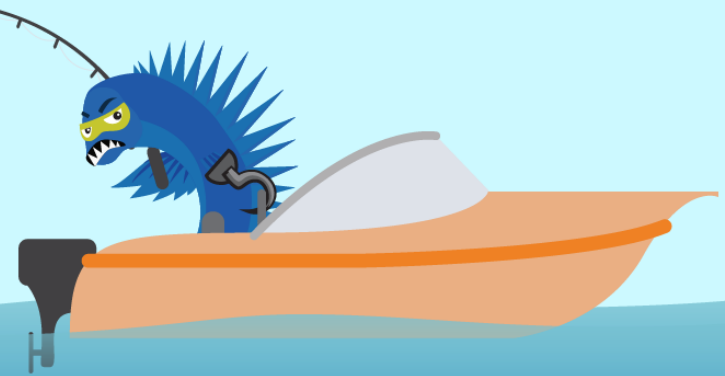
custsvc@pjm.com

- V1 – 10/01/2026 – Original slides posted.

**PROTECT THE
POWER GRID**
**THINK BEFORE
YOU CLICK!**



**BE ALERT TO
MALICIOUS PHISHING
EMAILS**



Report suspicious email activity to PJM.
Call (610) 666-2244 or email it_ops_ctr_shift@pjm.com