PSEG

Maryland Piedmont Reliability Project (MPRP)

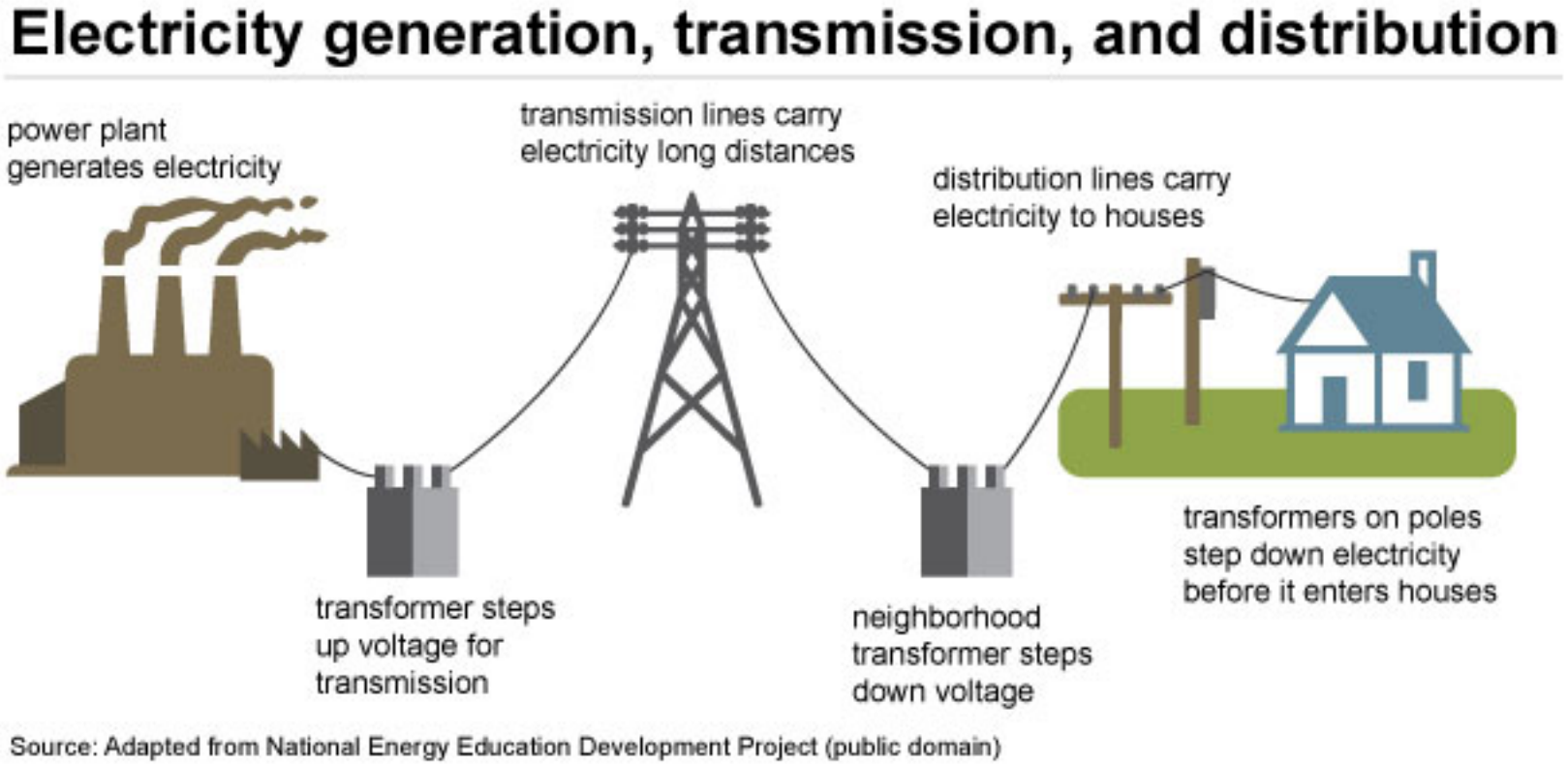
We will get started at 6:05PM

August 14th, 2024

Webinar Agenda

- Presentation
  - Electric Grid Overview
  - PJM
  - Project Description & Timeline
- Frequently Asked Questions
- Question & Answer

How does our Electric Grid work?

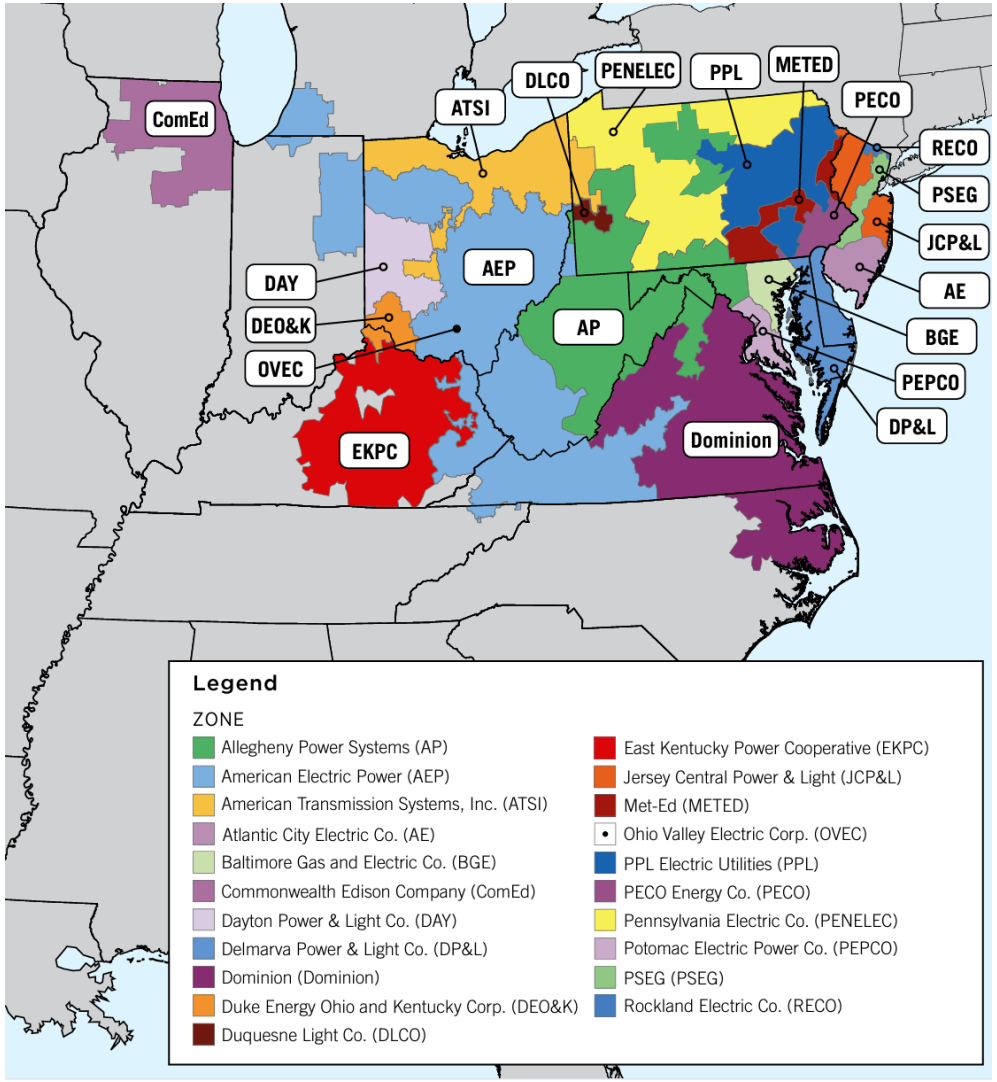


Sources:

- https://www.eia.gov/energyexplained/electricity/delivery-to-consumers.php
- https://www.pjm.com/-/media/about-pjm/newsroom/fact-sheets/the-value-of-transmission.ashx#:~:text=PJM%20estimates%20that%2027%2C000%20fewer,help%20one%20another%20in%20emergencies.
- https://atlas.eia.gov/apps/895faaf79d744f2ab3b72f8bd5778e68/explore

https://www.youtube.com/watch?v=2eU3BgrmzkY

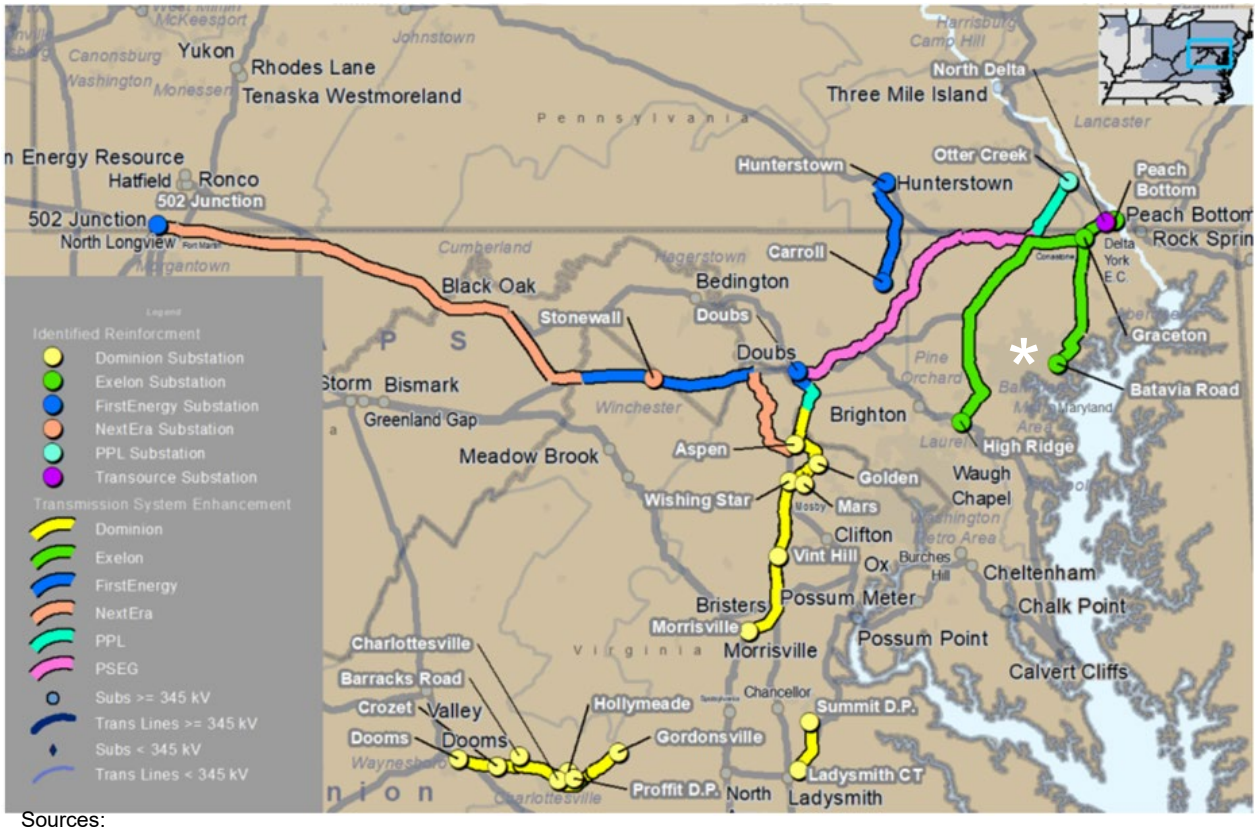
What is PJM?



- Founded in 1927
- A Federal Energy Regulatory Commission (FERC)-regulated regional transmission organization (RTO) that coordinates the movement of wholesale electricity in all or parts of 13 states.
- Independent RTO responsible for ensuring reliability of the regional transmission system
- Area covers more than 65 million people
- PJM does not own power lines or generators. Instead, it is a neutral, regulated organization that directs the operation of power lines and generators. **PJM is not a for profit entity.**
- One key responsibility is overseeing a long-term regional planning process to identify the most effective and cost-efficient improvements to the grid

Sources:
- https://www.pjm.com/about-pjm/who-we-are
- https://www.pjm.com/-/media/about-pjm/pjm-zones.ashx

Drivers for the Window 3 Projects



Sources:

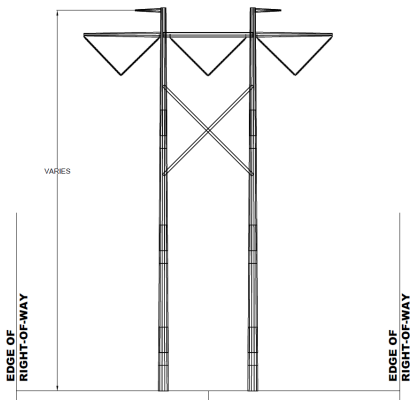
- https://www2.pjm.com/-/media/committees-groups/committees/teac/2023/20231205/20231205-item-15---reliability-analysis-update-2022-window-3.ashx
- https://www.pjm.com/-/media/committees-groups/committees/teac/2023/20231205/20231205-pjms-role-in-regional-planning-2022-rtep-window-3.ashx

*1 MW can power about 800 homes

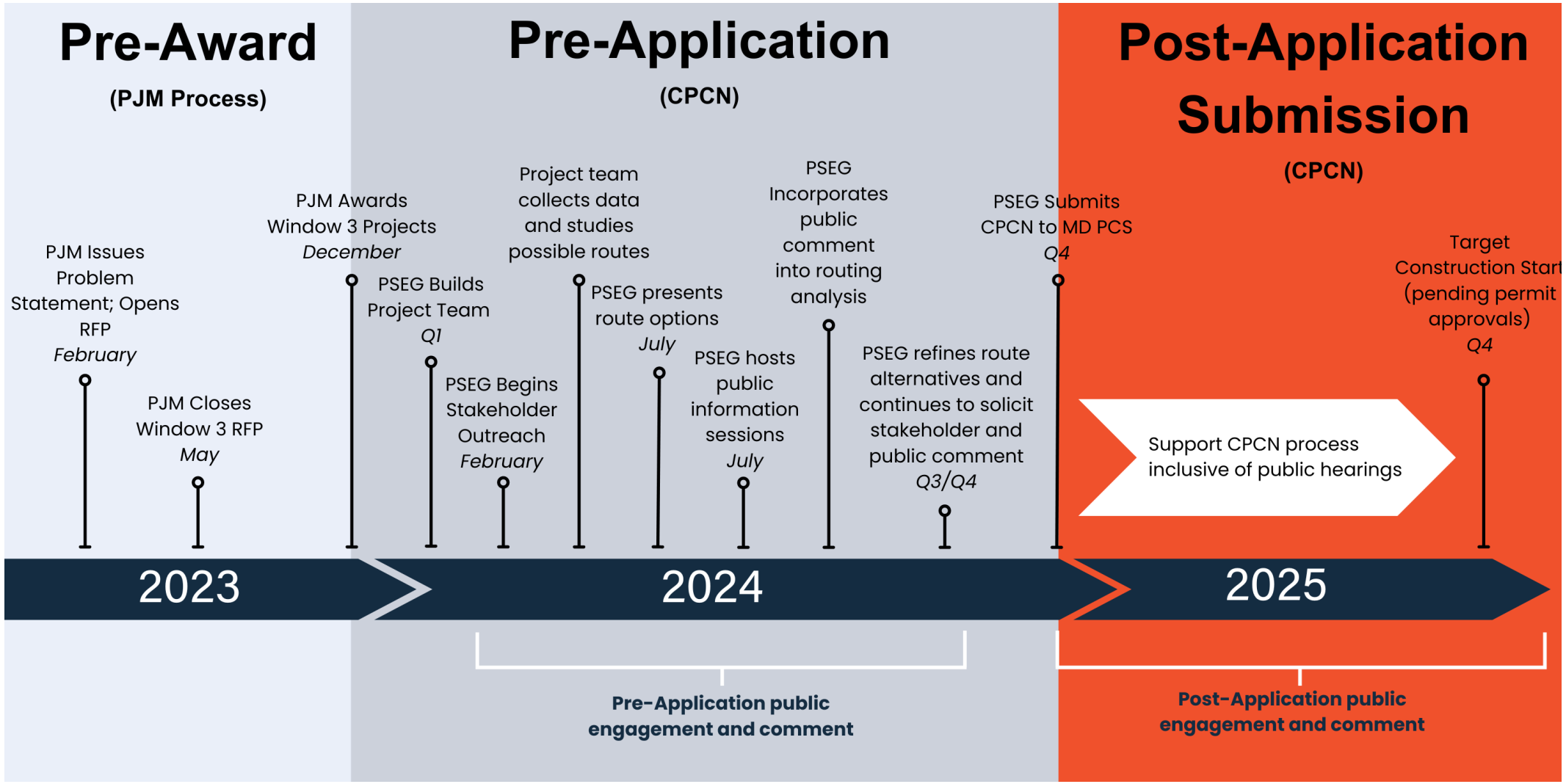
- PJM issued an RFP in early 2023 for the construction of transmission to ensure reliability across Maryland and the region.
- PJM highlighted growth of demand and traditional generation retirements:
  - 11,100 MW* of generation retirements
  - 7,500 MW* of load growth forecasted in Maryland and Virginia
- PJM analysis shows “without doubt that there are going to be real reliability impacts without further transmission reinforcements. These solutions are required to maintain the reliability of the system.”
- MPRP represents part of the $5 billion plan to maintain reliability that was awarded to six companies and covers four states

Description of Project

- PJM has determined significant need for a transmission line to run between Northern Baltimore County, through Carroll and end in Frederick County to increase capacity and reliability in the region.
- PSEG was selected to construct a new 70-mile greenfield 500kV AC line from Potomac Edison's Doubs Substation in Frederick County to a demarcation point near Conastone Substation in Baltimore County.
  - PSEG coordinating with First Energy (Potomac Edison) for connection into Doubs Station
  - PSEG coordinating with BGE and PPL for connection into the 500kV transmission line to be built as part of the 500kV Chanceford Project.

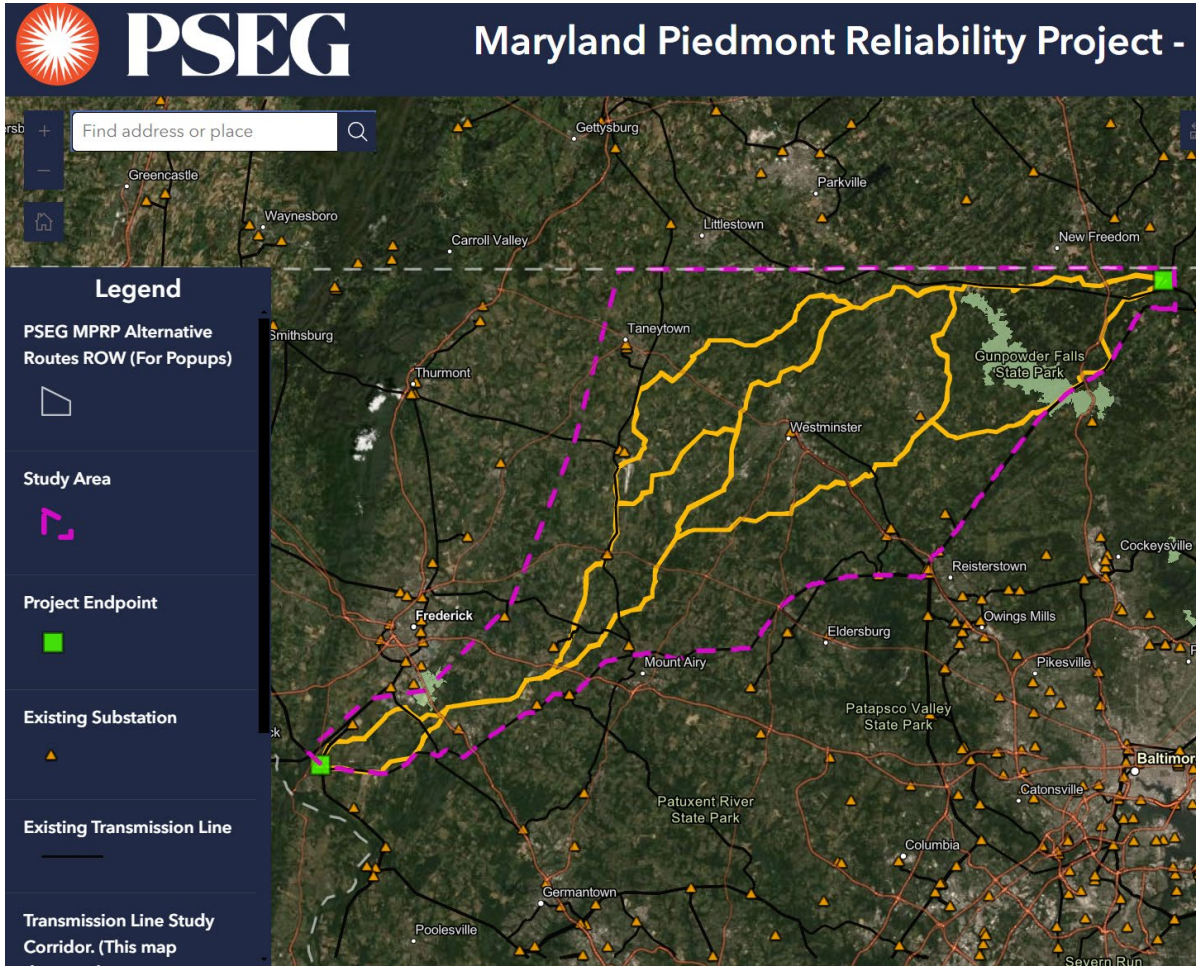


Timeline:


Pre-Award
(PJM Process)
Pre-Application
(CPCN)
Post-Application Submission
(CPCN)
PJM Issues Problem Statement; Opens RFP
February
PJM Closes Window 3 RFP
May
PJM Awards Window 3 Projects
December
PSEG Builds Project Team
Q1
PSEG Begins Stakeholder Outreach
February
Project team collects data and studies possible routes
PSEG presents route options
July
PSEG hosts public information sessions
July
PSEG Incorporates public comment into routing analysis
PSEG refines route alternatives and continues to solicit stakeholder and public comment
Q3/Q4
PSEG Submits CPCN to MD PCS
Q4
Support CPCN process inclusive of public hearings
Target Construction Start (pending permit approvals)
Q4
2023
2024
2025
Pre-Application public engagement and comment
Post-Application public engagement and comment

Routing Process

- The Study Area was confined to an existing 500kV line that runs along the eastern boundary, the Pennsylvania border to the north, and the City of Frederick to the southwest
- Route analysis is currently in progress, which is a quantitative analysis including Environmental, Land Use, Social & Engineering criteria
- Interactive mapper launched on our project website: www.mprp.com and first round of public comments were collected from engagement meetings and online survey
- Study Corridor is 550’ in width. Ten alternative routes as presented at the July 2024 public engagement sessions and on the mapper show this corridor. The alternative routes will need a 150’ right of way. The interactive mapper has been updated to reflect this. This routing has not been finalized.
- Public engagement will continue, and another round of public information sessions will be held prior to the CPCN submission



Real Estate

- Appraisal-based process, negotiated on a property-by-property basis
- Farmland/Livestock can co-exist with transmission lines
- Crop compensation and temporary impacts during construction will be considered

Questions

Website: MPRP.com

Phone: 833-451-MPRP (6777)

Email: PSEG-MPRP@pseg.com