

Queue Scope Tool Update Geospatial Application

As of November 16, 2023

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Queue Scope Tool Updates

Completed in 2022

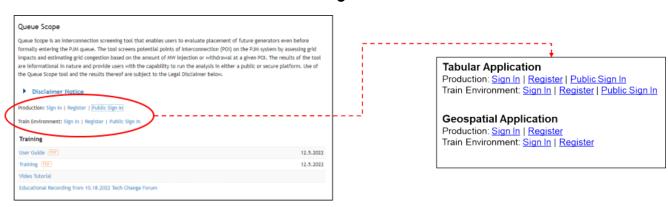
- Tabular App Go-Live was Monday December 5
- Located under Planning Center tools page on PJM.com

Upcoming in 2023

- Geospatial App Go-Live targeted for mid-December
- Will be Added to Queue Scope Tool page on PJM.com

PJM.com Updates

- Geospatial App will be accessible via the existing Queue Scope section on the Planning Center tool page: https://pjm.com/markets-and-operations/etools/planning-center)
- Geospatial App is only available with a valid PJM account and granted access. Uses the same roles as Tabular App.





Official Tool Name: Queue Scope

DESCRIPTION: The screening tool enables users to evaluate placement of future generators even before formally entering the PJM queue. The tool screens potential points of interconnection (POI) on the PJM system by assessing grid impacts based on the amount of MW injection or withdrawal at a given POI.

Tool Functionality

Capabilities

- Provides the ability to assess all types of generation (including batteries, pumped hydro, MTX)
- Leverages stored results from PJM generator deliverability analysis
- Provides facility loading impacts and headroom (MW) by POI

- 6000+ POI buses available to users within the PJM footprint
- Users have the option to run the analysis with a Transmission Planning case or Queue Study case

Limitations

- No short circuit, voltage or stability analysis. Thermal overloads are the typical constraint.
- Currently limited to Summer Peak analysis. Future plans to include Light Load analysis.



Phase 1 – Tabular User Interface (COMPLETE)

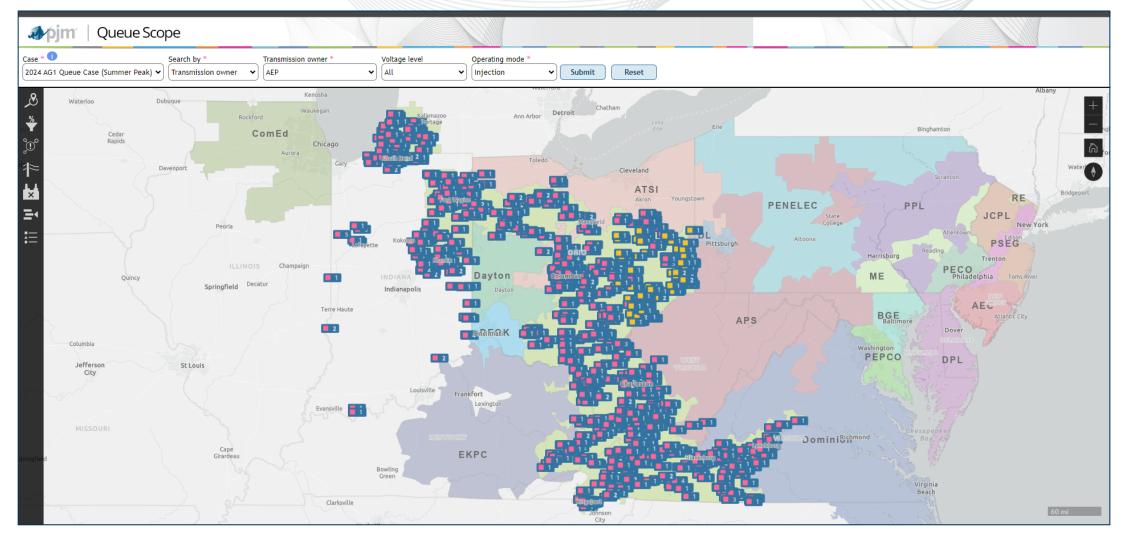
- This phase of the project included database & application development
- Application go-live in production was in Dec 2022
- Tool is accessible from the Planning Center Tools page on PJM.com

Phase 2 – Geospatial User Interface (IN-PROGRESS)

- Targeting for a Dec 2023 go-live in production (pending final testing)
- Will leverage similar capabilities/feel of the existing PJM system map along with Tabular App workflow
- Provides users with visual cueing for grid impacts
- Tool will be accessible from the Planning Center Tools page on PJM.com just like the Tabular App
- Now a requirement under FERC Order 2023



Queue Scope Geospatial Demo





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Queue Scope



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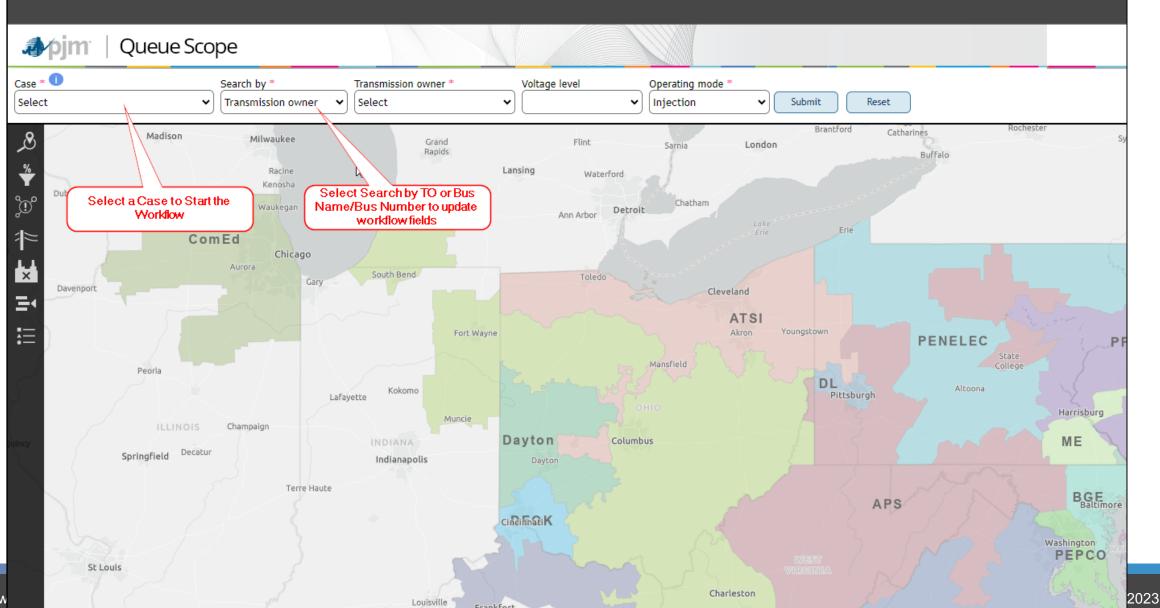




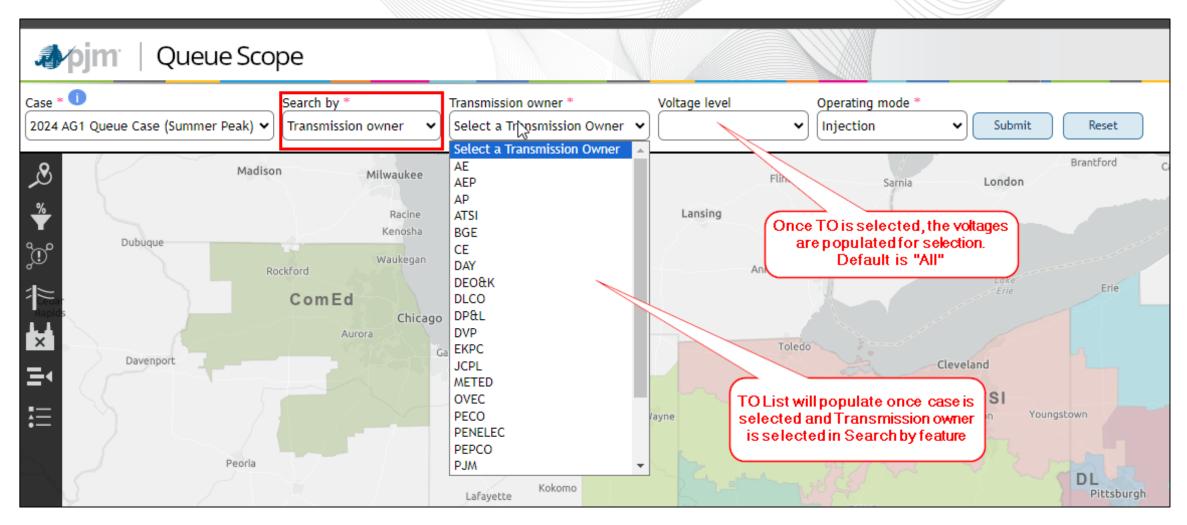
Back-Up Slides

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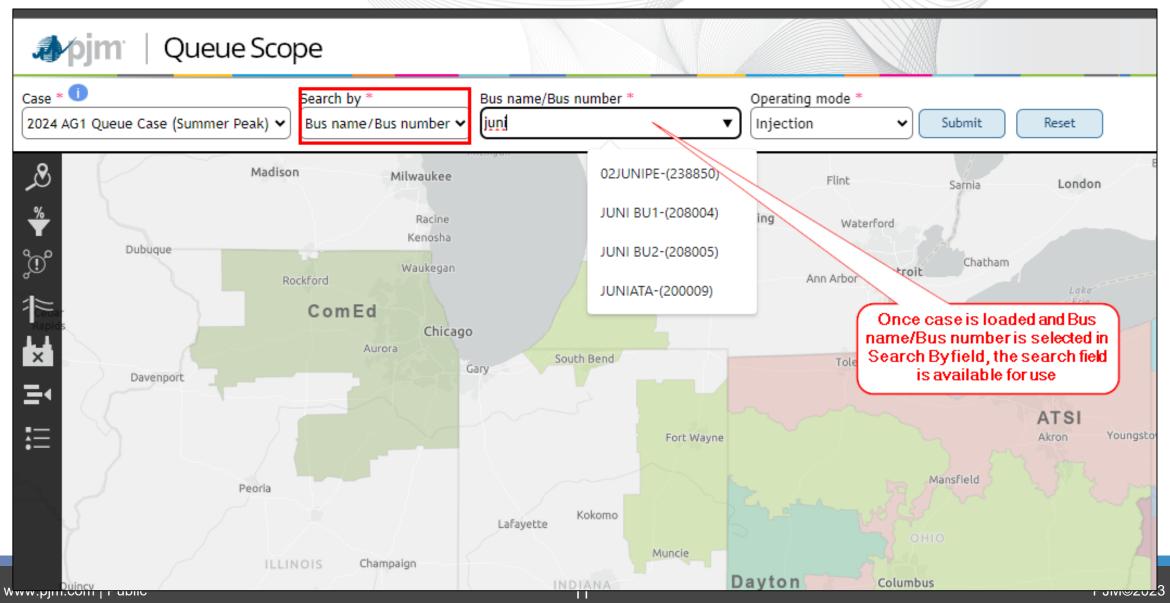




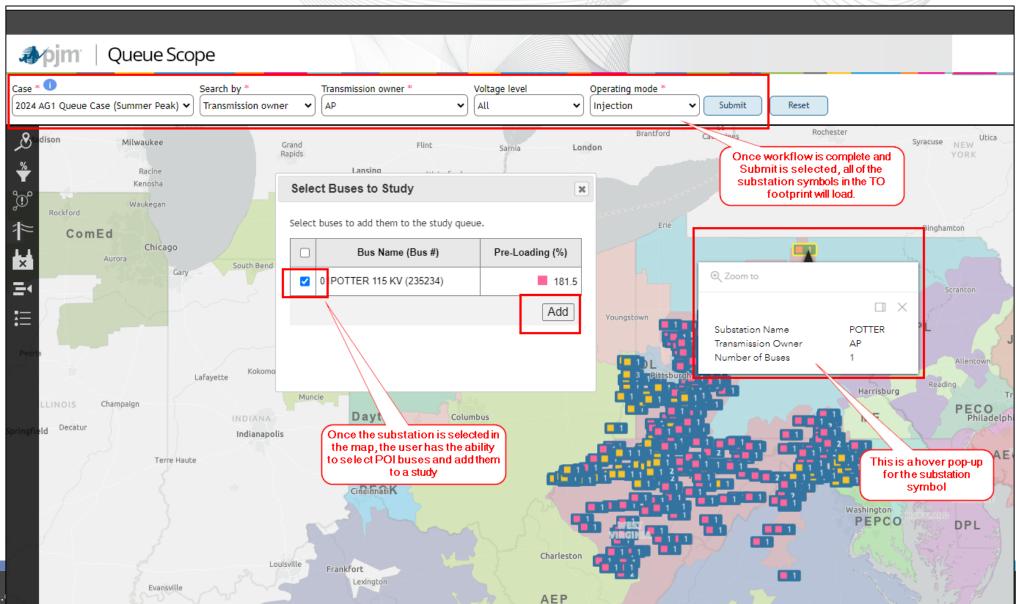


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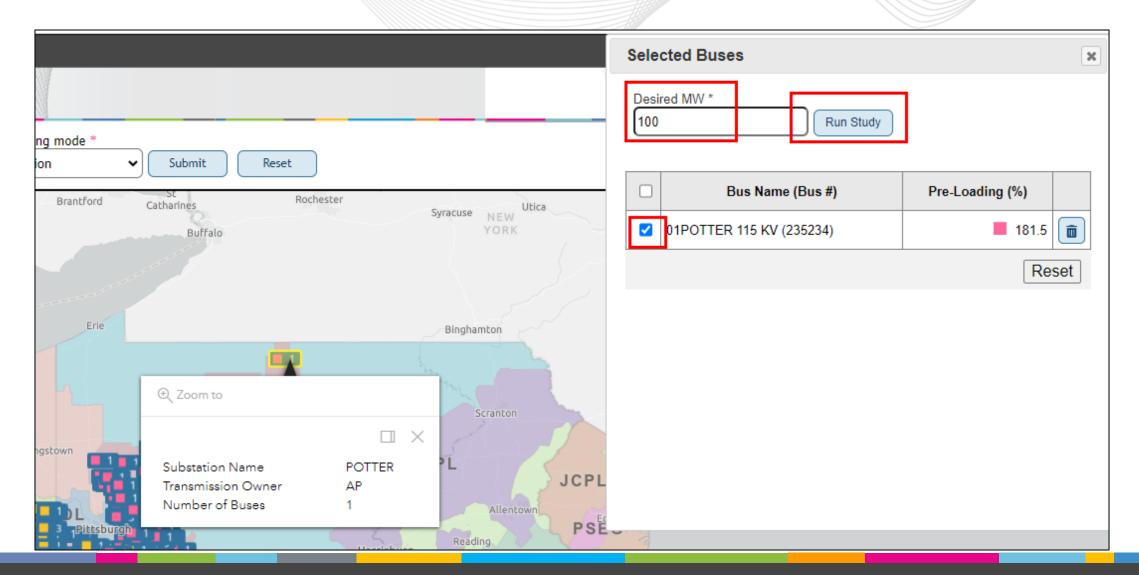




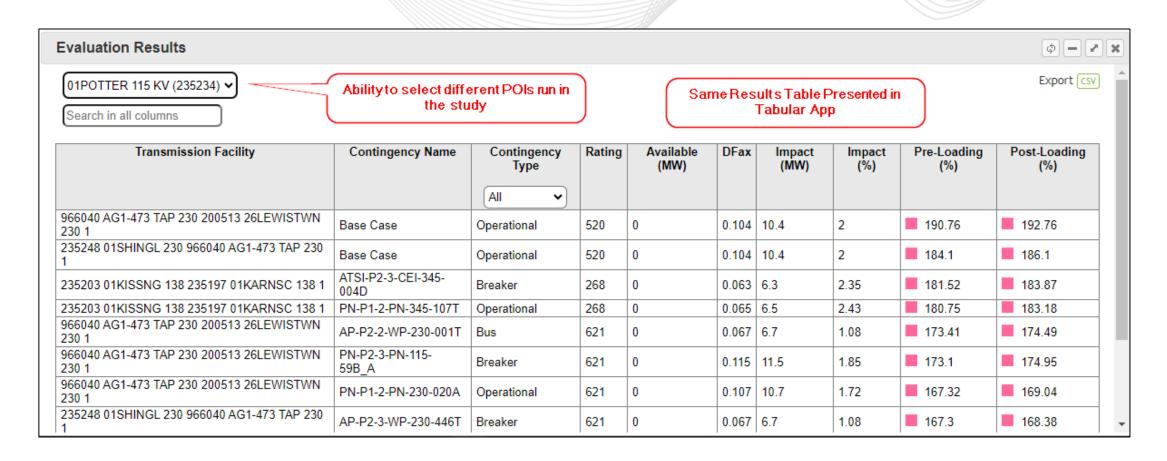












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