

Interconnection Screening Tool Overview

“Queue Scope”

- **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.
- **Functionality**
 - **Capabilities**
 - Provides the ability to assess all types of generation including batteries, merchant transmission, etc.
 - Leverages stored results from PJM generator deliverability analysis (TARA GD)
 - Provides facility loading impacts and headroom (MW) by POI using linear analysis
 - 6000+ POI buses available to assess within the PJM footprint
 - Users have the option to use RTEP or Queue case results
 - **Limitations**
 - No short circuit, voltage, or stability analysis. Thermal overloads are the typical constraint.
 - No 'On Demand' analysis (TARA/PSSE not running in the background)
 - Currently limited to Summer Peak analysis. Future plans for Light Load analysis.

- **Phase 1 – Tabular User Interface**

- This phase of the project includes database & application development
- Plan is to go-live in production on PJM.com by end of 2022
- Tool will be hosted on PJM Tools page

- **Phase 2 – Geospatial User Interface**

- This phase is planned for 2023
- Will leverage similar capabilities and feel of the existing PJM system map
- Provides users with visual cueing for grid congestion

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Queue Scope

Evaluator

Case Selection

Case * Case last updated

2024 AG1 Queue Case (Summer Peak) ▾ 08/31/2022 13:22

Generator Connection

Transmission owner * Voltage level Operating mode * Desired MW *

AEP ▾ All ▾ Injection ▾

Points of interconnection *

Available Buses		Selected Buses
<input type="text"/>	<input type="button" value=">"/>	<input type="text"/>
0523RD 138 kV (243235)	<input type="button" value=">>"/>	05ADDISO 138 kV (243465)
05ABINGD 138 kV (242533)	<input type="button" value="<"/>	<input type="text" value="1-1 of 1 records"/>
05ACADEM 138 kV (242950)	<input type="button" value="<<"/>	
05ADAM 138 kV (243237)		
05ADAMS 138 kV (243464)		
05ADAMS1EQ 999 kV (246232)		
05ADDISON8 138 kV (244938)		
05ADDISONZ 138 kV (242951)		
05ADKINS 345 kV (245769)		
05AGAGAS 138 kV (245109)		
<input type="text"/>		
<input type="button" value="<<"/> <input type="button" value="<"/> 1-10 of 1593 records <input type="button" value=">"/> <input type="button" value=">>"/>		

Evaluation Results