

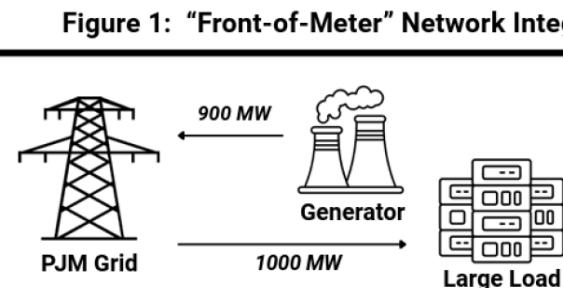
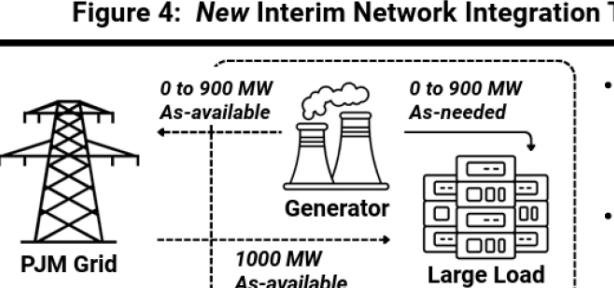


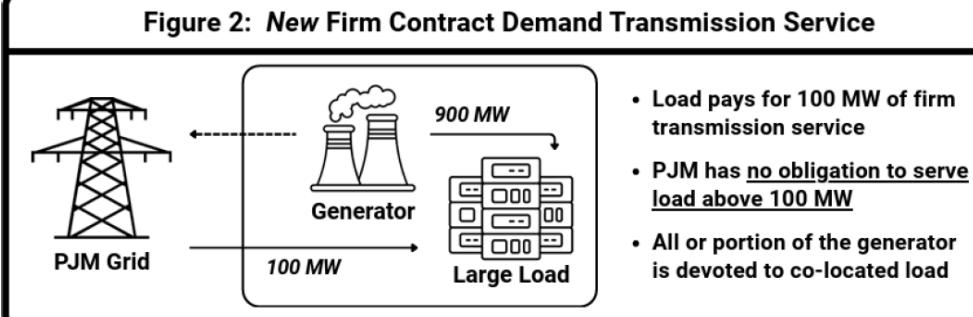
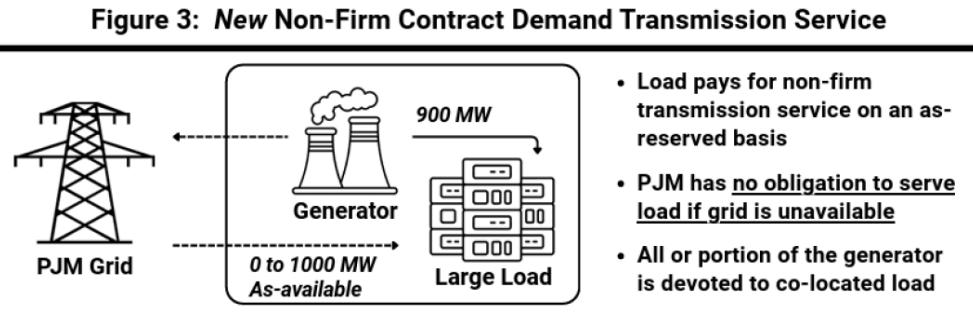
# Co-Located Load Planning Study Considerations

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February 5, 2026

Co-located Load Transmission Service Options	Front-of-Meter Network Integration Transmission Service (NITS)	New Interim Network Integration Transmission Service (Interim NITS)
Diagram	<p><b>Figure 1: "Front-of-Meter" Network Integration Transmission Service</b></p>  <ul style="list-style-type: none"> <li>PJM plans <u>all transmission and generation to serve load</u></li> <li>Requires more transmission infrastructure and can take longer, but provides the broadest benefits</li> </ul>	<p><b>Figure 4: New Interim Network Integration Transmission Service</b></p>  <ul style="list-style-type: none"> <li>Load &amp; Generator get non-firm service ASAP, and convert to firm service (Fig. 1) when grid upgrades are complete</li> <li>Generator can serve load while awaiting grid connection or when grid is unavailable</li> </ul>
Transmission Capability	YES	YES - Temporarily Enabled through control technologies and protection systems
Capacity Procurement	YES	NO (During the interim NITS timeframe)
Energy Procurement	YES	Yes (but not under all conditions) (During the interim NITS timeframe)
Generation Threshold	None (no threshold on generation size)	None (no threshold on generation size)
Control Technologies and Protection Systems	None	YES - Temporary (as deemed required in the interim period)

Co-located Load Transmission Service Options	New Firm Contract Demand Transmission Service	New Non-Firm Contract Demand Transmission Service
Diagram	<p><b>Figure 2: New Firm Contract Demand Transmission Service</b></p>  <ul style="list-style-type: none"> <li>Load pays for 100 MW of firm transmission service</li> <li>PJM has <u>no obligation to serve load above 100 MW</u></li> <li>All or portion of the generator is devoted to co-located load</li> </ul>	<p><b>Figure 3: New Non-Firm Contract Demand Transmission Service</b></p>  <ul style="list-style-type: none"> <li>Load pays for non-firm transmission service on an as-reserved basis</li> <li>PJM has <u>no obligation to serve load if grid is unavailable</u></li> <li>All or portion of the generator is devoted to co-located load</li> </ul>
Transmission Capability	YES	NO (Entirely based on opportunity/availability)
Capacity Procurement	YES (Only up to contracted demand - above is opportunity based)	NO (Entirely based on opportunity/availability)
Energy Procurement	YES (Only up to contracted demand - above is opportunity based)	Yes (but not under all conditions) (Entirely based on opportunity/availability)
Generation Threshold	YES (Set Threshold to a reasonable level - 100%, 90%, 50% or other??)	YES (Set Threshold to a reasonable level - 100%, 90%, 50% or other??)
Control Technologies and Protection Systems	YES - Temporary (as deemed required for the duration of contract)	YES - Temporary (as deemed required for the duration of contract)

- Load integration studies will be conducted similar to M3 – current process and respecting all PJM, TO and NERC planning guidelines/criteria
- PJM will specify the needed minimum dynamic analysis and additional studies on a case-by-case basis
- TOs will be conducting the necessary studies (as scoped by PJM and to also meet additional TO considerations/criteria);
  - PJM TOs will be required to develop the incremental local solutions if harm is identified
  - PJM and TOs will be coordinating any interim control technologies and protection systems
  - Both required upgrades as well as technology and protection systems will be discussed with the customer.
- PJM may deem a specific operating procedure or curtailment requirements impractical and risky for real-time operations

- NITS and Firm Contract Demand Service
  - Manual Load Dump
  - Local Load Shed directive
- Interim NITS\* and Non-Firm Contract Demand Service\*
  - Prior to Pre-Emergency Demand Response
  - Prior to issuance of a PCLLRW
    - Scheduled Transmission Outages will take priority over service I-NITS or NFCDS load

\*Requests for service in the Operations horizon are limited to the I-NITS and NFCDS MW amounts contracted for in the Agreement

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