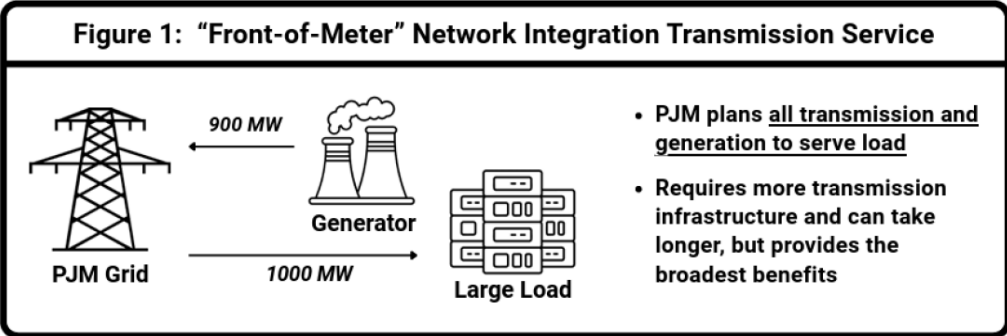
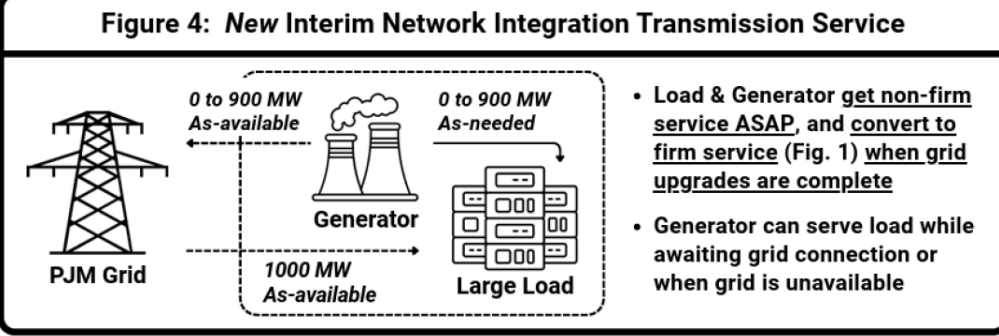


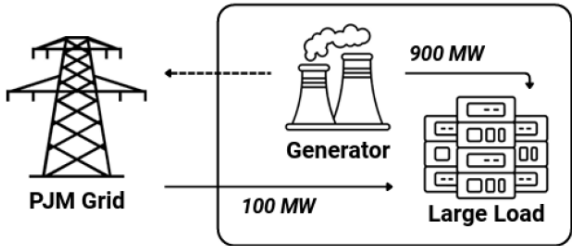
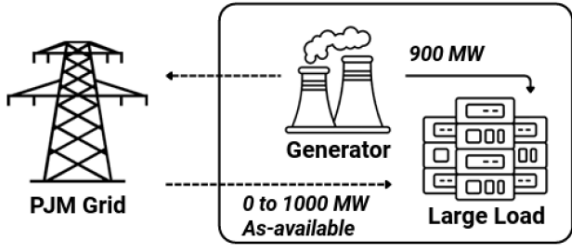
Co-Located Load Planning Study Considerations

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| Co-located Load Transmission Service Options | Front-of-Meter Network Integration Transmission Service (NITS) | New Interim Network Integration Transmission Service (Interim NITS) |
|--|--|--|
| Diagram | <p>Figure 1: “Front-of-Meter” Network Integration Transmission Service</p>  | <p>Figure 4: New Interim Network Integration Transmission Service</p>  |
| 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>Figure 2: New Firm Contract Demand Transmission Service</p>  <ul style="list-style-type: none"> • Load pays for 100 MW of firm transmission service • PJM has <u>no obligation to serve load above 100 MW</u> • All or portion of the generator is devoted to co-located load | <p>Figure 3: New Non-Firm Contract Demand Transmission Service</p>  <ul style="list-style-type: none"> • Load pays for non-firm transmission service on an as-reserved basis • PJM has <u>no obligation to serve load if grid is unavailable</u> • All or portion of the generator is devoted to co-located load |
| 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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