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| NPRR Number | [1234](https://www.ercot.com/mktrules/issues/NPRR1234) | NPRR Title | Interconnection Requirements for Large Loads and Modeling Standards for Loads 25 MW or Greater |
| Impact Analysis Date | May 28, 2024 |
| Estimated Cost/Budgetary Impact | Between $600k and $800kAnnual Recurring Operations and Maintenance (O&M) Staffing Cost: $180k – $220kSee ERCOT Staffing Impacts |
| Estimated Time Requirements | The timeline for implementing this Nodal Protocol Revision Request (NPRR) is dependent upon Public Utility Commission of Texas (PUCT) prioritization and approval. Estimated project duration: 12 to 18 months |
| ERCOT Staffing Impacts (across all areas) | Implementation Labor: 100% ERCOT; 0% VendorThere will be ongoing operational impacts to the following ERCOT departments totaling 10.7 Full-Time Employees (FTEs) to support this NPRR:• Large Load Integration (4.0 FTE effort) • Model Administration (1.0 FTE effort) • Network Model Maintenance (0.5 FTE effort) • Network Model Coordination (0.5 FTE effort)• Dynamic Studies (1.0 FTE effort) • Transmission Planning Assessment (1.0 FTE effort) •  Operations Stability Analysis (2.2 FTE effort) •  Resource Integration (0.5 FTE effort)ERCOT has assessed its ability to absorb the ongoing efforts of this NPRR with current staff and concluded the need for one additional FTE in Resource Integration: \*980 hrs. to support the evaluation and approval of the reactive study and energization of large loads added to existing generators.  |
| ERCOT Computer System Impacts | The following ERCOT systems would be impacted:* Resource Integration and Ongoing Operations (RIOO) 30%
* Energy Management Systems 29%
* Market Operation Systems 28%
* Data Management & Analytic Systems 5%
* Grid Modeling Systems 5%
* Grid Decision Support Systems 1%
* Channel Management Systems 1%
* ERCOT Website and MIS Systems 1%
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| ERCOT Business Function Impacts | ERCOT will update its business processes to implement this NPRR. |
| Grid Operations & Practices Impacts | ERCOT will update grid operations and practices to implement this NPRR. |

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| Evaluation of Interim Solutions or Alternatives for a More Efficient Implementation |
| None offered. |

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| Comments |
| None. |