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| NOGRR Number | [245](https://www.ercot.com/mktrules/issues/NOGRR245) | NOGRR Title | Inverter-Based Resource (IBR) Ride-Through Requirements |
| Impact Analysis Date | August 22, 2024 |
| Estimated Cost/Budgetary Impact | Between $150k and $250kSee Comments.Annual Recurring Operations and Maintenance (O&M) Staffing Cost: Between $1.3M and $2.3M. Short term contract labor (O&M) Budget Cost: Between $0.5M and $0.8M.See ERCOT Staffing Impacts |
| Estimated Time Requirements | The timeline for implementing this Nodal Operating Guide Revision Request (NOGRR) is dependent upon Public Utility Commission of Texas (PUCT) prioritization and approval. Estimated project duration: 6 to 9 months |
| ERCOT Staffing Impacts (across all areas) | Implementation Labor: 100% ERCOT; 0% VendorThere will be ongoing operational impacts to the following ERCOT departments totaling between 7.7 to 9.8 Full-Time Employees (FTEs) to support this NOGRR:• Dynamic Studies (3.2 FTEs effort)• Resource Integration (1.0 FTE effort)• Event Analysis (1.3 FTEs effort)• Operations IBR Performance Evaluation (2.2 to 4.3 FTEs effort)ERCOT has assessed its ability to absorb the ongoing efforts of this NOGRR with current staff and concluded the need for FTEs in the following departments:• Dynamic Studies department (3 FTEs) • Resource Integration department (1 FTE)• Event Analysis department (1 to 2 FTEs) • Operations IBR Performance Evaluation department (2 to 4 FTEs)• Dynamic Studies - department requires three additional FTEs to support the following work: \* 6,000 hours for data & performance reviews, tracking, coordination & communication between internal and external individuals.• Resource Integration - department requires one additional FTE to support the INR process efforts: \* 1,800 hours per year to check and collect data = 3 hours per INR for 600 INRs per year.• Event Analysis - department requires one to two additional FTEs to support an additional 5 events each year beyond current levels:  \* 2,500 hours to support additional events = 300 hours per minor event (5) ~ 1500 hours and 1000 hours to support NERC/FERC/TRE and ERCOT Reliability Monitor event investigations, manual contingency creation, and rule change needs.• Operations IBR Performance Evaluation - department requires two to four additional FTEs.  \*4,000 - 8,000 hours for review, tracking, coordination & communication with OEMs, Resource Entities and serve as SMEs for ERCOT Reliability Monitor for performance failures and mitigation, support for appeals, and coordinate with Dynamic Studies department as necessary.   |
| ERCOT Computer System Impacts | The following ERCOT systems would be impacted:* Resource Integration and Ongoing Operations (RIOO) 99%
* Service Management Systems 1%
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| ERCOT Business Function Impacts | ERCOT will update its business processes to implement this NOGRR. |
| Grid Operations & Practices Impacts | ERCOT will update grid operations and practices to implement this NOGRR. |

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

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| Comments |
| Pending PUCT approval, ERCOT plans to manually implement NOGRR245; and collect data and information related to NOGRR245 via manual processes until Resource Integration and Ongoing Operations (RIOO) and Service Management Systems changes can be implemented.   |