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| SCR Number | [818](https://www.ercot.com/mktrules/issues/SCR818) | SCR Title | Changes to Incorporate GIC Modeling Data into Existing Modeling Applications |
| Impact Analysis Date | March 8, 2022 |
| Estimated Cost/Budgetary Impact | Between $300k and $500kSee ERCOT Staffing Impacts |
| Estimated Time Requirements | The timeline for implementing this System Change Request (SCR) is dependent upon Public Utility Commission of Texas (PUCT) prioritization and approval. Estimated project duration: 9 to 12 months |
| ERCOT Staffing Impacts (across all areas) | Implementation Labor: 36% ERCOT; 64% VendorElimination of the current manual process will result in a savings of approximately 0.3 Full-Time Employees (FTEs) per year across the following departments:* Network Modeling
* Transmission Planning

\* 0.5 FTE savings per 5 year build cycle (0.1 FTE per year) - Storing the required Geomagnetically-Induced Currents (GIC) data and accommodating Market Participant submissions of that data within the Network Model Management System (NMMS) would reduce work related to data collection and data validation.  Currently, Transmission Service Providers (TSPs) submit their data via emailed spreadsheets through email which are captured, validated, and implemented within the custom application.  Submissions via NMMS would automatically be validated and included in the appropriate case builds. \* 0.2 FTE savings ongoing per year - Additional quantifiable gains in efficiency can be attributed to the reduction of GIC-specific generation modeling.  Currently, ERCOT must update the GIC custom-database for each generator added to the system; there is no other path for this information to be included.  This increasing rate of generation additions to the ERCOT interconnection directly impacts this work and cannot be avoided.  With this SCR, generators added in the operations and planning processes would be automatically included in GIC case.  |
| ERCOT Computer System Impacts | The following ERCOT systems would be impacted:* Grid Modeling Systems 100%
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| ERCOT Business Function Impacts | No impacts to ERCOT business functions. |
| Grid Operations & Practices Impacts | No impacts to ERCOT grid operations and practices. |

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

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| Comments |
| None. |