



GRIDATA AND GRID MODEL ACTS OF 2024

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Support for the GRIData and Grid MODEL Acts of 2024

Grid Reliability and Integrated Data (GRIData) Act of 2024
Grid Modeling of Dynamic Energy Loads and Resources (Grid MODEL) Act of 2024

“The American Council on Renewable Energy applauds Sen. Martin Heinrich for introducing the GRIData Act of 2024, legislation that requires the U.S. Department of Energy (DOE) to identify data that can be shared to improve grid reliability, resilience, and equity. By directing DOE to work with utilities and key stakeholders, this bill will seek ways to provide more granular reliability data that can identify disparities on the city or community level. The GRIData Act also directs DOE to serve as a centralized clearinghouse for energy-related weather and reliability data. It is often the most disadvantaged communities that bear the worst impacts of extreme weather and climate change, and the GRIData Act will promote a more equitable future by providing grid operators the requisite data to improve reliability assessments and resource adequacy modeling,” **said the American Council on Renewable Energy.**

“The Union of Concerned Scientists supports Sen. Heinrich's Grid MODEL Act and its goal of improving the electric grid's reliability and resilience through improved data and modeling. The bill can enable an improved understanding of how power generation facilities may respond to extreme weather events and reveal solutions for strengthening the grid,” **said the Union of Concerned Scientists.**

“The GriData Act and the Grid MODEL Act represent a crucial step forward in ensuring the resilience, reliability, and efficiency of our nation's energy infrastructure. This Act addresses critical gaps in current practices by mandating granular data for distribution reliability and integrating granular weather data into long-term system and reliability planning. It emphasizes the importance of dynamic load and resource modeling, paving the way for more accurate and responsive grid operations. As our energy landscape evolves, so too must our data requirements. These Acts recognize the necessity of staying ahead of the curve, providing the Department of Energy with clear guidance on data collection and best practices. By embracing these advancements, we can enhance grid reliability, mitigate risks, and ultimately ensure a more sustainable energy future for all,” **said Jennifer Potter, Director of Regulatory Innovation, Strategen**

“The GRIData Act of 2024 is a critical legislative step towards bolstering the resilience and reliability of the United States' electric grid. The Act addresses the urgent need for enhanced data granularity to better anticipate, research, and mitigate disruptions, particularly in vulnerable communities. In an era marked by increasing extreme weather



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events and shifting power generation dynamics, the lack of data is becoming more glaring. The bill is a necessary step to investing in the grid in an informed way. The Grid MODEL Act of 2024 is a forward-thinking piece of legislation crucial for enhancing the United States' power system's resilience and reliability. It responds to the pressing need for rigorous, data-driven approaches in modeling the complexities of today's dynamic energy landscape. By requiring standards that incorporate uncertainties in generation, transmission, and load within long-term planning, the Act ensures a holistic, data-based, and standardized approach while honoring regional differences in generation resources and energy needs. This initiative will facilitate informed decisions, optimize resource allocation, and secure a stable electricity supply amid increasing weather variability and technological advancements,” **said Christopher R. Knittel, George P. Shultz Professor of Applied Economics, MIT**

“We are transitioning to a vastly different electric system. This system contains a very different mix of loads, generation, and storage, all tied together with a transmission and distribution system that will need to change to meet the challenges of this new world. In this new system, weather and climate play a central role, not only the amount of energy used, but also in the ability to produce and transport that energy. Existing methodologies and standards for assessing electric system reliability are insufficient, as are the currently available data; both must evolve. The Grid MODEL Act and the GRIData Act provide important pathways for the necessary work,” **said Dr. Justin Sharp, Sharply Focused**

“Ensuring safe, reliable, and affordable energy to all New Mexicans as the State and Nation transition to clean energy is critical to the New Mexico Public Regulation Commission. We support increasing collaboration within the industry, including regulators, to gather and share data to further the reliability of our increasingly complex grid,” **said the New Mexico Public Regulation Commission.**