



Grid modernization initiative Mexico

What is the Grid Modernization Initiative (GMI)?

The Grid Modernization Initiative (GMI) works across the U.S. Department of Energy (DOE) to create the modern grid of the future. Our extensive, reliable power grid has fueled the nation's growth since the early 1900s; however, the grid we have today does not have the attributes necessary to meet the demands of the 21st century and beyond.

Why is Grid Modernization important?

ble, environmentally sustainable, and equitable grid. The portfolio of grid modernization work helps integrate all sources of electricity, improve the security of our Nation's grid, solve challenges of energy storage and distributed generation, and provide a critical platform for U.S. comp

What is the energy grid modernization Lab consortium?

A collaboration among 5 research institutions has been established through the U.S. Department of Energy Grid Modernization Lab Consortium to provide technical assistance to the 7 U.S. Independent System Operators and Regional Transmission Organizations. Foundational Projects and Technical Area Portfolio Review

What is included in the grid modernization crosscut?

ctionis included in the Grid Modernization crosscut. In FY 2024, OE plans to continue pursuing research of technologies that improve grid reliability, resilience, efficiency, flexibility, and functionality. These activities include developing technologies, from inception to demonstration, that automa

What technologies are required for successful grid integration?

the reliability and security of the energy system. The suite of technologies and techniques required for successful grid integration includes improved approaches to renewable power forecasting; application of energy storage technologies; advanced power electronics; "grid responsive" building technologies; vehicle-to-grid technologies; and ne

What should be included in a power grid mitigation approach?

areness, incident support, and secure control design. Mitigation approaches should include robustness of critical grid systems prior to the event, resourcefulness during the event, rapid recovery following an event, adaptability to future adverse events and threats. Our Nation's power grid must be more res

The Sheinbaum administration recently unveiled its National Strategy for the Electric Sector, aiming to strengthen Mexico's state-owned companies. In doing so, it may have overlooked key economic, infrastructural, and technological challenges. In a new issue brief, nonresident scholar Rolando Fuentes explores the plan's potential benefits, risks, and gaps -- ...



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The energy sector reform laws establish a Smart Grid Program to make Mexico's power grid capable of meeting the country's lofty clean energy goals while improving efficiencies, maintaining system reliability, and increasing its security.

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By using its energy resources optimally and reducing its environmental impact, Mexico can assertively navigate the challenge of grid modernization, improve its position in the energy transition, and generate business opportunities.

Landis+Gyr has been selected to supply advanced metering infrastructure technology to support grid modernization initiatives of Comision Federal de Electricidad (CFE), the state-owned electric utility of Mexico.

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Why do we need grid modernization? History: Beginning in 2015, GMI has leveraged the expertise of DOE Offices, National Labs, and partners to conduct over \$300M in cutting-edge R& D on grid modernization topics.

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