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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.

What is the DOE Grid Modernization Initiative?

Table 5.3. Table 5.4. This document summarizes the accomplishments of a three-year project funded by the U.S. Department of Energy (DOE) under its Grid Modernization Initiative, which is working across DOE to create the modern grid of the future.

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

Are grid modernization activities cost-effective?

Cost-effectiveness is the most well-known perspective from which the affordability of grid modernization activities is assessed.

How will the pace of Grid Modernization be determined?

The pace of grid modernization will be determined by thousands and thousands of individual decisions(on both sides of the meter) to invest in and adopt new grid technologies and practices. These decisions will be based on firms' and consumers' individual assessments of profitability or preferences.

What is a metric in Grid Modernization?

That is, metrics are measurements (or combinations of measurements) that are useful in assessing changes (or progress) relative to a reference state that has been influenced or affected by a grid modernization activity.

GRID MODERNIZATION INITIATIVE PEER REVIEW GMLC 1.4.29 - Future Electric Utility Regulation LISA SCHWARTZ, BERKELEY LAB 5/11/2017 April 18-20, 2017 Sheraton Pentago n City - Arlington, VA Institutional Support. Institutional Support 5/11/2017 2 Project Description

Announcements. On March 31, 2021, we filed a supplement to and update of our application with the PUC for approval of Phase 2 (Advanced Distribution Management System and Field Device Components) of our Grid Modernization Strategy (PDF).; On September 30, 2019, we filed an application with the PUC for approval of Phase 2 (Advanced Distribution ...

Grid Modernization Initiative Overview. 2 Increasing Extreme Events Increasing Security Threats. Growing

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Number of Prosumers. ... and partners to conduct over \$300M in cutting-edge R& D on grid modernization topics. Integrated Vision: Focuses on a fully-integrated electricity system from generation to load, including independent infrastructures. ...

Join DOE"s Grid Modernization Initiative (GMI) and Grid Modernization Laboratory Consortium (GMLC) for a webinar showcasing our strategy to address key research, development, and demonstration opportunities for enhancing the power grid. When: Monday, Oct. 21, 2024; 12-1p.m. Eastern time

The Grid Modernization Laboratory Consortium (GMLC) coordinates and executes research and development in support of the Department of Energy's Grid Modernization Initiative. The GMLC ...

GRID MODERNIZATION INITIATIVE PEER REVIEW 1.2.1 Grid Architecture JEFFREY D. TAFT, PHD (PNNL) 5/11/2017 1 April 18-20, 2017 Sheraton Pentago n City - Arlington, VA System Operations, Power Flow, and Control. System Operations, Power Flow, and Control 5/11/2017 2 Project Objectives

Grid Modernization Initiative Grid Modernization Lab Call 2023 Revision Log: 1. Topic 2: a. Added language and footnote: i. "The White House released the "The United States Government National Standards Strategy for Critical and Emerging Technology" in May 2023. The National Standards Strategy cites "Automated, Connected, and

Building on the Biden-Harris Administration's legislative accomplishments and executive actions in tackling the grid modernization challenge, the initiative aims to bring together states ...

Grid modernization and reliability is an inherent component of the Building a Better Grid initiative, which turned one year old last week. The Initiative is identifying national transmission and distribution needs and supporting the deployment of interstate, high-voltage lines that connect clean energy resources to where the power is needed and ...

Department of Energy's Grid Modernization Lab Call (2019) 5 o Impact on the Bulk Power System: Proposals must focus on the bulk power system impacts. Any proposals including DER must show impact on the bulk power system. o Demonstrated Near-term Success: To increase likelihood of industry implementation and increase potential impact, it is critical that ...

Initiatives such as the Infrastructure Investment and Jobs Act (IIJA), the Inflation Reduction Act (IRA), and the CHIPS and Science Act have ignited new discussions about the future of energy. ... Grid modernization is the process of making our networks "smarter" and more resilient through the use of cutting-edge technologies, equipment ...

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Grid Architecture Build a new set of five reference architectures for grid modernization, provide to the industry along with the tools they need to adapt them to their needs, and use them to inform the playbook for the GMLC program managers. The result will be superior stakeholder decision-making about grid modernization activities of all kinds.

WASHINGTON - The U.S. Department of Energy (DOE) today built on its Grid Modernization Initiative - an ongoing effort that reflects the Obama Administration's commitment to improving the resiliency, reliability, and security of the nation's electricity delivery system. During his visit to a utility control center in Miami, FL today, Energy Secretary Ernest Moniz announced the release ...

DOE"s Grid Modernization Initiative. Value Proposition The REV vision is for New York State to be an early adopter of advanced grid technologies at scale, resulting in significant penetration of DER. Key questions with regard to grid modernization will be addressed, including what business models work and why, as well as which technologies

The Grid Modernization Laboratory Consortium (GMLC) coordinates and executes research and development in support of the Department of Energy's Grid Modernization Initiative. The GMLC labs partner with industry to address the key challenges and develop new technologies to enable a decarbonized and resilient power grid for the nation.

GridWise has produced six Grid Modernization Index (GMI) reports evaluating states" progress in modernizing the electric grid. This year, GridWise is conducting a three-step process with new questions and a more ...

DOE has been developing a grid modernization strategy and a roadmap under its Grid Modernization Initiative (GMI). Specifically, in the report accompanying the House's 2022 Energy and Water Development and Related Agencies Appropriations Bill (H. Rpt. 117-98, page

An important and often overlooked aspect of a grid modernization initiative is to define an approach for handling the influx of grid data generated by the investments--consider AMI, which typically replaces the monthly meter ...

tools, and frameworks to help enable grid modernization adoption. oThis presentation addresses: oGrid of the Past/Future oGrid Modernization Initiative (GMI) oGrid Modernization Multi -Year Program Plan (MYPP) oGrid Modernization Laboratory Consortium (GMLC) o\$220M Grid Modernization Lab Call oAccomplishments to date oFuture ...

» Grid Modernization NREL advances critical science and technology through innovative research and development to improve the nation"s electrical grid infrastructure, making it more flexible, reliable, resilient, secure, ...

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The Grid Modernization Initiative (GMI) works across the U.S. Department of Energy (DOE) to address the research and development (R& D) challenges facing the 21st century grid. Modernizing the grid is essential for achieving the administration's goals of 100% clean

The Grid Modernization initiative strives across the DOE to solve the existing barriers in the way of modernizing future energy networks. The set of these efforts focuses on developing the conceptual requirements, relevant tools, and innovative technologies aiming to better predict, analyze, measure, control, and protect the system for ...

Initiatives like the Grid Resilience and Innovation Partnerships Program under the Bipartisan Infrastructure Law allocate substantial funding--up to \$3.5 billion across 44 states--to enhance grid resilience and modernization efforts. Twenty-five of the 58 Round One GRIP awards for smart grid, resilience, or innovation projects were awarded to ...

04 Grid Modernization as a Solution for DER Integration Issues 05 COP27 and COP28: ME Gets Serious about Emissions Reductions 07 ME Energy Demand Outlook ... of more than 60 initiatives accounted for USD 185 billion in investments, assisting in developing the green economy. In 2022 His Royal Highness the Crown Prince

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 efforts in Ohio started a few years ago with robust discussions on how the ... Supplementing the legacy of Federal initiatives such as EISA and ARRA, policy initiatives at the state and local level increasingly prompted the changes now taking place across the industry. Many states, cities, and major companies are setting long ...

The Grid Modernization Initiative (GMI) works across the U.S. Department of Energy (DOE) to create the modern grid of the future. A modern grid must have: Greater RESILIENCE to hazards of all types. Improved RELIABILITY for everyday operations. Enhanced SECURITY from an increasing and evolving number of threats.

the six categories of metrics DOE has developed to guide the Grid Modernization Initiative--(1) reliability, (2) resilience, (3) flexibility, (4) sustainability, (5) affordability, and (6) security. It then ...

Grid Modernization Initiative Doug Hollett, Office of Energy Efficiency and Renewable Energy . October 14, 2015 Pioneer Regional Partnerships are early-stage public/private collaborative projects that address speci?ic near-term grid modernization issues important to that region and its stakeholders. The GMLC submitted 11 proposed ...

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The Department of Energy"s Grid Modernization Initiative (GMI) has announced its strategy for investing in innovative new technologies to modernize today"s power grid while ensuring it remains secure and sustainable. The GMI coordinates key research, development, demonstration, and deployment activities across the Department to maintain and ...

The Grid Modernization Initiative (GMI) coordinates research and development (R& D) across the U.S. Department of Energy (DOE) to help set the nation on an affordable path to a resilient, secure, and reliable grid with a reduced environmental impact. The GMI focuses on developing new tools and technologies to measure, analyze, predict,

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