Grid modernization suva

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Arizona State University Laboratory for Energy And Power Solutions (LEAPS)creates technical and business solutions that facilitate the global transition to a resilient low-carbon economy.LEAPS takes energy innovations from concept to construction with a focus on energy access, microgrids, grid modernization, resilient infrastructure, and workforce development.

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 create good-paying jobs across the country. This includes ensuring that upgrades and new lines are resilient and reliable both today and well into the future.

In support of the Initiative, GDO"s Grid Modernization Division is leading the development and execution of programs to deploy approximately $13 billion in funds from the Bipartisan Infrastructure Law (BIL) to finance grid modernization with a focus on improving flexibility, reliability, and resilience against the growing threats of extreme weather and climate change. This past year saw the launch of these programs, including the first of several grant cycles.

In July 2022, DOE launched the Grid Resilience Formula Grants program, which will distribute up to $2.3 billion over five years to States, Territories, and Tribal entities, with priority given to projects that generate the greatest community benefit. A formula grant is a non-competitive funding opportunity for a specific group of applicants in which a formula is used to allocate funds. This program"s formula examines five factors: population, land area, probability and severity of disruptive events, and a locality"s historical expenditure on mitigation efforts.

Need help comparing the various funding opportunities? Our Grid and Transmission Program Conductor provides easy side-by-side comparisons to help track new and forthcoming programs.

Note: This blog post is part of a series in celebration of the one-year anniversary of the launch of the Building a Better Grid Initiative. Join us as we look at different components of the Initiative in action, learn about the accomplishments achieved, and get a preview of what"s to come. Learn more about the Building a Better Grid Initiative.

The future of the power grid has arrived. Utilities, policy makers, and communities have agreed for years that the aging electric transmission and distribution (T& D) grid in the United States needs to be significantly upgraded to withstand the challenges of the future. Recent events and trends across a number of fronts have made the situation more urgent than ever:

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Utilities that hope to better align their strategic goals with grid investments should pursue an integrated modernization plan. With that in place, they can make a series of no-regrets moves to ensure they are making the right decisions.

Historically, utilities" grid-modernization choices haven"t always delivered the expected benefits. Billions of dollars were spent to develop the so-called smart grid as part of the American Reinvestment and Recovery Act of 2009. As a result, penetration of advanced metering infrastructure (AMI) in the United States exceeded 70 percent of households and promised to deliver savings and new capabilities.

Meanwhile, despite smart-meter deployment in Denmark, Italy, Spain, and elsewhere, only 34 percent of consumers in the European Union were equipped with them in 2018.5Cl?ment Alaton and Fr?d?ric Tounquet, Benchmarking smart metering deployment in the EU-28 report: Final report December 2019, European Commission, April 6, 2020, ec ropa . That number is expected to reach only 43 percent by 2020--woefully short of the 80 percent target.

Today, utility companies can invest in several types of technologies, including equipment-health-monitoring sensors, smart capacitor banks, and new grid-scale storage projects. Our research identified several common pitfalls utilities face when determining where to make these investments:

Utilities can develop an integrated, step-by-step modernization plan (Exhibit 2). First, companies must define the specific performance outcomes--with target KPIs and metrics--that the modernization programs will achieve. In meeting these objectives, they can pursue two parallel streams: one aims to determine the foundational capabilities and centralized investments required to accomplish the vision, and another aims to develop business cases for localized grid investments.

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