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The past few years have kicked off a flurry of activity in the US energy sector with federal funding accelerating the pace of the energy transition. 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. The federal government may have helped ignite the fire, but, the conversations shaping our energy future are happening at the state level. Many states are exploring how to cultivate new clean methods of energy generation, storage, and flexibility, and critically examining how we foster a more modern grid that leads the charge into the future (pun intended).

We are in the age of smart technologies and artificial intelligence, there is no reason these innovations shouldn"t bleed into how we operate our grid – it is the spirit of grid modernization. Grid modernization is the process of making our networks "smarter" and more resilient through the use of cutting-edge technologies, equipment, and controls that communicate and work together to deliver electricity more reliably and efficiently. This can mean integrating Advanced Metering Infrastructure, installing smart devices at the customer level, or utilizing software solutions like Piclo to enable grid flexibility through the use of DERs.

The United Kingdom (UK) is a leader in the evolution of flexible energy because of the government’s commitment to the cause. Regulators, grid operators, and utilities are working together to map out a future with a modern flexible grid. Together they have produced research supporting grid modernization and flexibility, establishing progressive regulations, and creating incentives that support grid innovation and performance. In 2021 the UK"s government and the system operator jointly published the Transitioning to a Net Zero Energy System report, finding that the transition to a smarter, more flexible grid could reduce system costs by up to $12.6 billion a year by 2050.

As a flexibility procurement platform, Piclo is observing as the US launches its own grid revolution. This tracking has evolved into a policy heatmap that quantifies state and utility policies and programs to measure who is leading grid modernization. We see states like Massachusetts, Colorado, New York, and California adopting innovative policies and programs that are planting the seeds for energy flexibility.

These efforts are quantified by measuring the ambition of a state"s renewable energy goals, a state"s DER hosting capacity models, utilities" grid plan filings, and where non-wire solutions are considered to resolve grid challenges. Beyond their broader energy policies, these states are thoughtfully implementing pilots and regulatory frameworks to design their future grid:

Grid modernization is not set in the futuristic world of Tron-and it cannot wait. In our effort to meet ambitious climate goals, our success depends on the construction of a modern grid today.

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If you are working at a utility, state energy office, or state regulatory entity and have not yet submitted a survey participation interest form, please click here or the button below.

Click here for the list of survey questions.

Assistant Secretary Gene Rodrigues and GridWise Alliance CEO Karen Wayland discuss this year"s Grid Modernization Index (GMI) project, which GridWise launched on August 6th and will close on September 20th.

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 comprehensive data collection effort to provide deeper insights on state and utility readiness to accommodate the drivers impacting the electric grid in a reliable and affordable manner. The results will inform the upcoming 2024 Grid Modernization Index Report, which is targeted for publication in December.

Utilities, transmission entities, state utility regulators, state energy officials, governors" staff, and other grid stakeholders should join the webinar to learn more about the Grid Modernization Index process and how to participate. We would greatly appreciate your help in providing information that can help us assess the nation’s progress toward reaching our respective goals through grid modernization.

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