



lot power grid

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It seems like you can't go a week without encountering another article on the rise of the Internet of Things (IoT). IoT, the interconnection of physical devices, vehicles, buildings, and other items that have the capacity to send and receive data, offers the promise of new, advanced services stemming from new connections between the virtual and physical world based on improved communication and control technologies. This two-way communication has been a key component of DOE's grid modernization efforts, from previous Smart Grid work to today's Grid Modernization Initiative (GMI).

IoT offers new opportunities for consumers to engage with the power sector even as it offers better opportunities for improved efficiency and performance across the power grid. Through the IoT, advanced sensors can gather new data from grid assets to give grid operators better insight into infrastructure performance; controls can work across the transmission and distribution systems that are responsive to changing grid conditions, based on shifting generation mixes, physical conditions, or security threats; and consumers can engage and make better choices on their unique energy needs.

Within GMLC, there are multiple projects working to realize the opportunities from IoT. For example:

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The IVL provides a guide to identify business value and capture that value through action.⁹ It maps the flow of information through five stages: create, communicate, aggregate, analyze, and act. It is important to realize that information must complete the loop before any value inherent in that information can be captured through informed action. Even though one or more of the IVL stages may be minimized, each stage must be traversed before value can be extracted. This point is important and deserves exploration to illustrate the interaction of IVL stages, technologies, and value drivers.

The following sections outline the three phases of grid modernization, highlight specific examples of IoT technologies that could be leveraged within each one, and follow the paths of relevant information around the IVL to create value.

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