Plug And Play Device Management For The FREEDM Distributed Grid Intelligence

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ABSTRACT
The Future Renewable Electric Energy Delivery and Management (FREEDM) Center has constructed a Distributed Grid Intelligence (DGI) to provide intelligent, decentralized energy management for its future smart grid. Groups of DGI nodes engage in power migrations in order to balance power usage at each node. Each DGI is responsible for the control of several local devices that consume and generate power. In order to be a useful household component, the DGI must support a dynamic set of devices that can be plugged in and unplugged while the DGI is in operation.

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