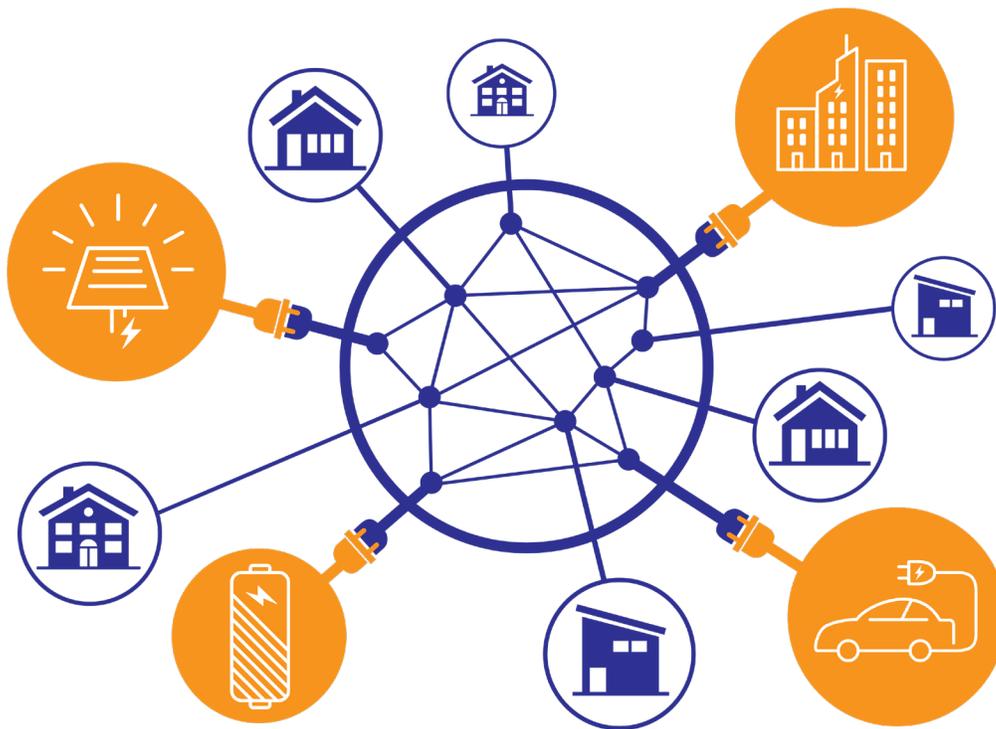




Plug & Play DER Challenge

THE VISION OF DER INTEROPERABILITY

Imagine the creation of an interface within the electric power system designed to simply “plug” in Distributed Energy Resources (DERs), enabling them to have the technological ability and intelligence to seamlessly interact with the electric grid.



In efforts to make this vision a reality, the challenge for the smart grid community is to demonstrate advanced interoperability solutions for how DER facilities integrate and interact with the electric grid.

WHAT IS THE PLUG & PLAY DER CHALLENGE?

The core of the Plug & Play DER Challenge is to improve Interoperability as it eases technology integration through encompassing the interactions between communications, data and electricity required to simplify the integration of DERs. To the degree that our technologies and systems lack good Interoperability, it drives up costs, reduces system performance and capabilities and creates vulnerabilities. Particularly, in the case of DER, interoperability-related problems pose a barrier to integrate high amounts of renewable energy sources, energy storage, electric vehicle charging, and flexible demand. The GMLC Interoperability project has outlined a strategic vision of interoperability for our electric system which this challenge aims to demonstrate in reality.

COLLABORATION AND SUPPORTING ORGANIZATIONS

This challenge is being organized and administered by Pacific Northwest National Laboratory (PNNL), in collaboration with Lawrence Berkeley National Laboratory (LBNL) for the Department of Energy's Grid Modernization Laboratory Consortium (GMLC), as part of an initiative to improve Interoperability, in collaboration with the Smart Electric Power Alliance (SEPA).



To learn further about the Plug & Play DER Challenge,
visit plugandplayder.org.