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Draft Guide to Using IEEE Std 1547™ for Interconnection of Energy Storage Distributed Energy Resources with Electric Power systems

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The PAR

This project will develop a new guideline with information and examples on how to apply the IEEE Std 1547 to the interconnection of Energy Storage Distributed Energy Resources (ES DER). Energy storage has unique characteristics among DER resources, for example, the ability for bi-directional exchange of real and reactive power between the ES DER system and the local and area electric power systems (EPS). Scope includes DER ES connected to local EPS that perform both UPS type support for onsite loads, and also performing grid support services with bi-directional real and reactive power.

Key goals and objectives

- To provide prudent and technically-sound guidance on how to apply IEEE Std 1547™ to energy storage DERs
- To address certain energy storage-specific topics not explicitly dealt with in IEEE Std 1547™, such as guidance on what energy storage systems are and are not in-scope of the base standard

Our IEEE sponsors

- IEEE-SASB Coordinating Committees/SCC21 - Fuel Cells, Photovoltaics, Dispersed Generation, and Energy Storage
- IEEE Power and Energy Society/Energy Storage & Stationary Battery Committee (ESSB)

Our schedule

Dates	Activities	Status
February 28, 2019	P1547.9 WG meeting – WG initiated	Done
June 6, 2019	P1547.9 WG Meeting – Draft 1 initiated	Done
Oct 31- Nov 1, 2019	P1547.9 WG Meeting (online) Draft Content Review	Done
February 24-25, 2020	P1547.9 WG Meeting – WG input on D1.0	Done
June 8-12, 2020	P1547.9 WG Meeting – WG input on D2.0	Done
October 5-9 2020	P1547.9 WG Meeting – WG Input on D3.0	Plan
February 22-23 2021	P1547.9 WG Meeting	Plan
Q2 2021	P1547.9 Ballot draft approved by WG	
QX 2021	P1547.9 To IEEE-SA for ballot	
QX 2021	IEEE Std 1547.9-20XX Published	

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NNSA National Nuclear Security Administration

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