

**SolarTech Power Solutions**

# **Distributed Energy Storage Vehicle Wholesale**



## Overview

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What is distributed energy resource (DER)?

DER, or Distributed Energy Resource, covers a wide range of resources, such as rooftop solar PV, battery energy storage systems, energy efficiency measures, demand response – smart thermostats, managed electric vehicle charging, and thermal energy storage.

What is Distributed Energy Resource Roadmap 4?

Distributed Energy Resource Roadmap 4 is about Distributed Energy Resources (DER) transforming New York's wholesale electric system. DER can help grid operators by improving system resiliency, energy security, and fuel diversity.

How can distributed energy resources transform New York's wholesale electric system?

Distributed Energy Resources (DER) can significantly transform New York's wholesale electric system by helping grid operators improve system resiliency, energy security, and fuel diversity.

How much capacity does the EDRP have in the state?

As of July 2016, the EDRP had 75 MW of capability throughout the state. The market rules permitting BTM:NG Resource participation in the wholesale energy, ancillary service, and capacity markets became effective on December 13, 2016. (NYISO Home - NYISO - Distributed Energy Resources).

What is the distributed energy resource roadmap 12 regulation service?

The Distributed Energy Resource Roadmap 12 Regulation Service is a service that provides approximately 16% of the NYCA's 10-minute spinning reserves, with 106 MW of registered capability as of July 2016. The NYISO markets also permit LSEs to submit Day-Ahead Price-Capped Load bids for this service.

How are der impacts connected to bulk power systems?

DER (Distributed Energy Resources) are often connected to distribution networks instead of the grid. To maintain bulk power system reliability, it is essential to accurately represent DER impacts at their corresponding interface to the bulk power system, which is typically at a transmission node (substation load bus transformer/PTID) associated with a distribution network.

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