

2222: Telemetry Requirements

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- What is telemetry?
 - Telemetry is data that is being provided to PJM in real-time.
 - Telemetry is transmitted through internet-based SCADA (Jetstream) or ICCP
- The DER Aggregator will send the following telemetry values for the DER Aggregation Resource:
 - MW value (MVAR data not required)
 - Resources with DR Components must provide load reduction (not load) MW values
 - Data quality flag for telemetry value
 - Meteorological data (irradiance and back panel temp) and MW for Solar $\geq$ 3MW (by location/DER) at 5 min intervals
 - SOC telemetry (for DERAs with ESRs that inject into the grid)
 - Aggregators may be expected to have individual DER telemetry data available (for EDC requests and/or audit purposes)

Market		Telemetry	Accuracy
Capacity		1 minute data	+/- 2%
Energy Only	<10 MW	no real-time telemetry required	+/- 2%
	>=10 MW	1 minute data	+/- 2%
Regulation		10 second data	+/- 2%
Reserves		1 minute data	+/- 2%

- Telemetry links must be established and the telemetry connection tested following the assignment of the pricing node to the DER Aggregation and prior to the resource's start in PJM's Energy & Ancillary Services Markets.
- The DER Aggregator should ensure that all backend work (e.g., installations of equipment, processes to receive and aggregate component values) is completed ahead of testing.

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DERA Telemetry Requirements



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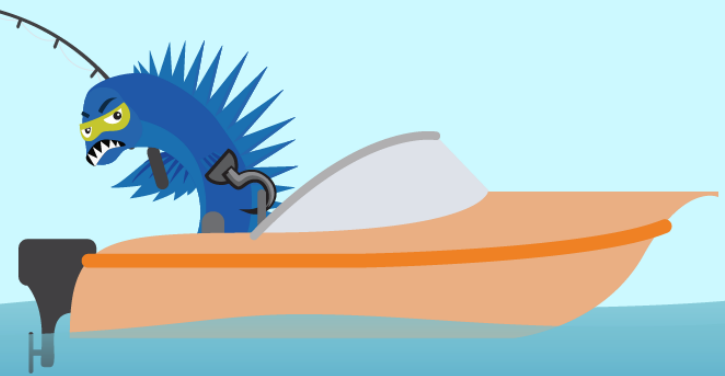
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