



# DER at MISO

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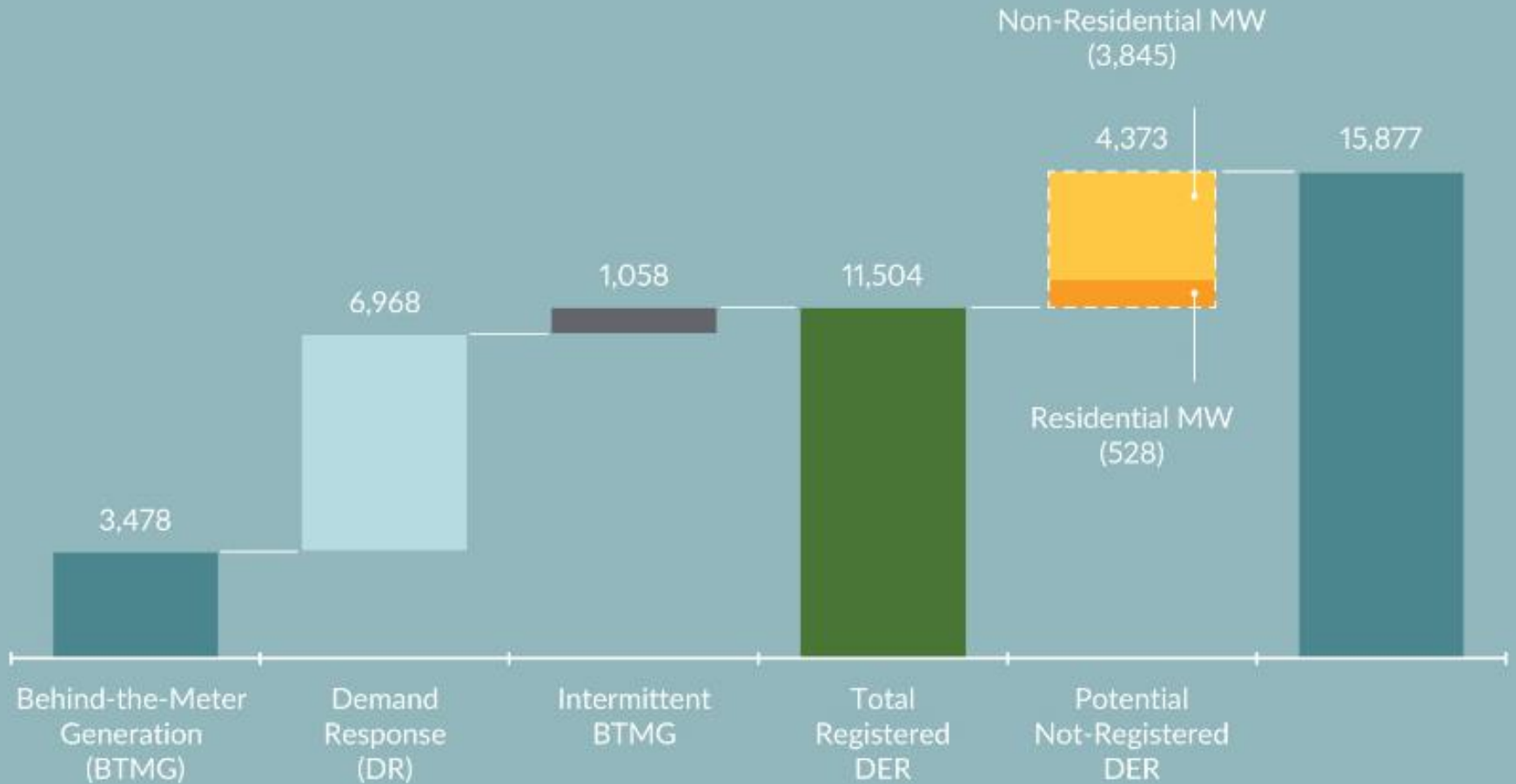


## MISO defines DER to include demand response

DERs are power generation, storage, or demand-side management connected to the electrical system, either behind the meter on a customer's premises, or on a utility's distribution system.

The US Department of Energy (DOE), Federal Energy Regulatory Commission (FERC), North American Electric Reliability Corporation (NERC), and multiple standards organizations all use different definitions

# 2020 DER Capacity in MISO Footprint (MW)



Source: MISO registration data and OMS 2020 Annual DER Survey results



## Visibility and Communications are distinct topics

**Visibility** is MISO's ability to **maintain situational awareness** of the impact of distributed energy resources at the transmission level. This could include using statistical methods to forecast asset performance and load patterns, as well as modeling these effects in both power flows and wholesale market transactions.

**Communication** could include **telemetry and signaling**, either from MISO or to MISO from aggregators, utilities, devices, or market participants. May include cloud interaction, direct signal gathering, and price signaling for future price responsive demand.



Visibility is the focus of our upcoming report

# MISO and DER

Ensuring grid reliability through  
Visibility and Communication