## Distributed Generation (DG) in ERCOT\*

Other regions may refer to these resources as Distributed Energy Resources (DERs). In some cases, Demand Response (DR) is also included.

	Registration	Compensation	Dispatchable	Unit Size	Technologies	EOY 2023 Totals
Unregistered Distributed Generation	Not registered with ERCOT	No (but customers may be compensated by their electric providers)	N/A	<ul> <li>Systems typically less than 1 MW (connected to the grid but may or may not inject into the grid)</li> <li>Systems greater than 1 MW (connected to the grid but do not inject into the grid)</li> </ul>	<ul> <li>Rooftop solar</li> <li>Gas-fired generators</li> <li>Diesel generators</li> </ul>	Estimated at 3,040 MW (2,750 MW of total is rooftop solar) Exact number of sites and capacity unknown; quarterly data provided by market participants
Settlement- Only Distributed Generation (SODG)	Registered with ERCOT (systems that are 1 MW or greater and inject into the grid are required to register)	Yes (compensated for energy)	Self-dispatched	Units may not exceed 10 MW	<ul> <li>Utility-scale solar</li> <li>Commercial solar</li> <li>Gas-fired generators</li> <li>Diesel generators</li> </ul>	<b>1045 MW</b> (394 SODGs)
Distribution Generation Resources (DGR)	Registered with ERCOT	Yes (compensated for energy and/or Ancillary Services)	Dispatched by ERCOT	Each unit is typically less than 10 MW	Currently all batteries	540 MW

\*Distribution level is <60 kV

## Demand Response (DR) in ERCOT

Load reduction in response to an economic or reliability signal

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#### Operational DR

Paid and dispatched by ERCOT

- Load Resources providing
   Responsive Reserve Services (RRS)
- Emergency Response Service (ERS)

#### **Economic DR**

May be initiated by electricity provider or customer (i.e., smart thermostats under direct load control)

# Distributed Generation (DG)

## Demand Response (DR)

 Unregistered
 Registered

 Typically <1 MW</td>
 Typically <10 MW</td>

 Settlement Distributed

 Only Distributed
 Generation

 Registered
 Typically <10 MW</td>

 Settlement Distribution

 Only Distributed
 Generation

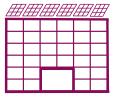
 Generation (SODG)
 S

 S
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Commercial solar

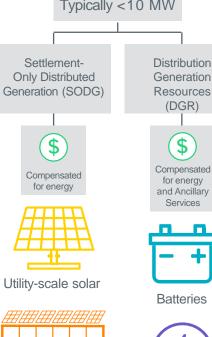
Fossil-fuel units (Natural gas-fired and diesel)

Fossil-fuel units (Natural gas-fired and diesel)



Small commercial solar

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Other technologies

