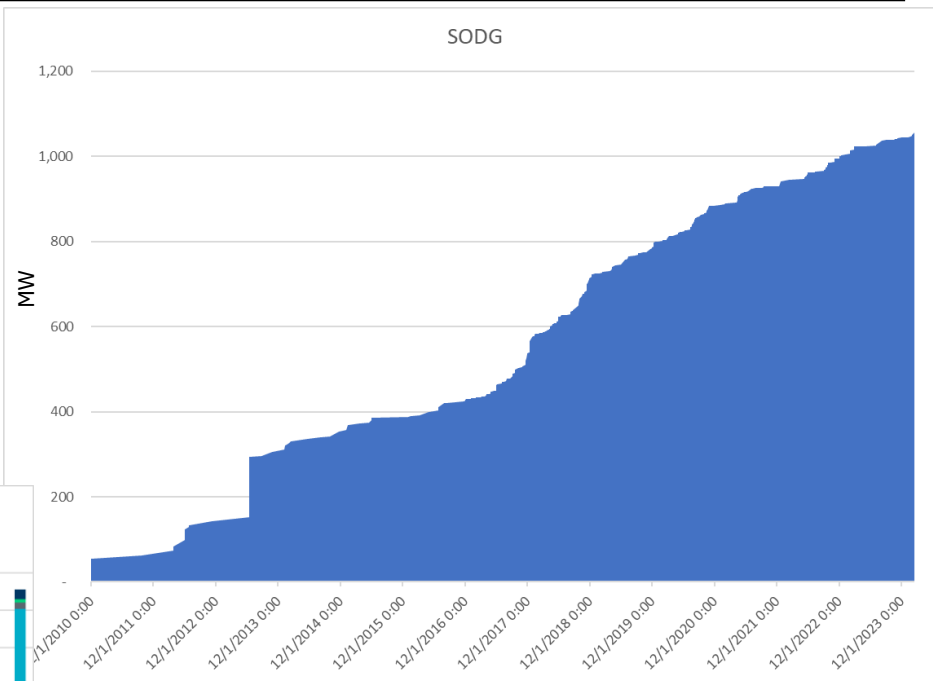


Distributed Energy Resources (DER) in ERCOT

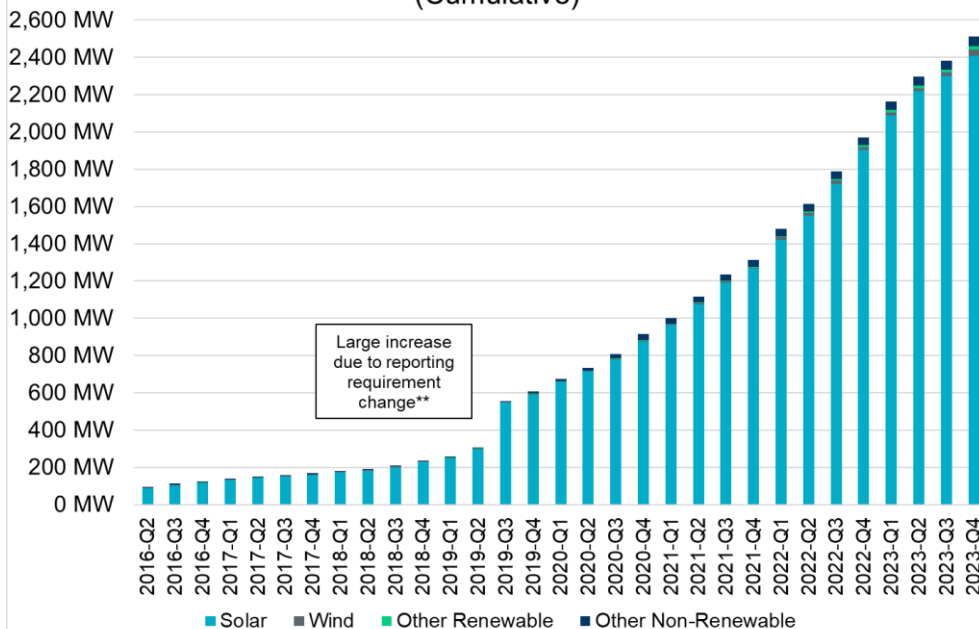


Total Distributed Generation (DG) = 4,394MW

- Distributed Generation Resource (DGR) = 827MW
 - Solar = 272MW
 - Battery = 600MW
- Settlement-Only DG (SODG) = 1,056MW
 - Diesel = 291MW
 - Solar = 283MW
 - Nat Gas = 400MW
- Unregistered DG = 2,511MW
 - Solar = 2,410MW



Reported Unregistered Distributed Generation Capacity (Cumulative)



DGR

- $1\text{MW} < X \leq 10\text{MW}$
- Modeled by ERCOT
- Nodal price
- Can participate in energy and AS markets

Unregistered DG

- $X \leq 1\text{MW}$
- Not modeled by ERCOT
- Load Zone price
- Passive load reduction and energy export

Settlement-Only DG (SODG)

- $1\text{MW} < X \leq 10\text{MW}$
- Not modeled by ERCOT
- Load Zone price
- Passive load reduction and energy exports

Aggregate Distributed Energy Resources (ADER)

- ADERs are a virtual aggregation of small consumer-owned energy devices.
- In June 2022, the PUCT directed ERCOT to begin developing a pilot project to test how ADERs will participate in ERCOT's wholesale market.
- ERCOT has accepted aggregation forms from 9 ADERs:
 - 6 ADERs in the Houston Zone (7 MW)
 - 2 ADERs in the South Zone (1.4 MW)
 - 1 ADER in the North Zone (4.3 MW)
 - ERCOT-Wide Energy: **9.4 MW**
 - ERCOT-Wide Non-Spin: **3.1 MW**
- As of 09/11/2023, they have carried Non-spinning Reserve Service responsibility.
- Other ADERs have applied but are in various stages of registration/qualification and cannot fully participate yet.
- Discussions on what a second phase of the Pilot might look like have started.

