



## ERCOT Grid Operations

### ESR Integration Report : 01/21/2025

#### Current Daily Values:

Installed ESR Discharge Capacity*	10,268 MW
Total ESR Discharge Capacity**	12,765 MW
Installed ESR Charge Capacity+	12,040 MW
Total ESR Charge Capacity++	12,665 MW

Peak Load	74,111 MW
Peak Load Hour (HE)	8
ESR Discharge at Peak Load Hour	3,414 MW
ESR Charge at Peak Load Hour	59 MW
ESR Net Charge/Discharge at Peak Load Hour^	3,354 MW

Max ESR Discharge Generation	4,153 MW
Max ESR Discharge Time	07:56
Penetration at Max ESR Discharge Time	5.57%

Max ESR Charge Load	2,354 MW
Max ESR Charge Time	12:10
Penetration at Max ESR Charge Time	3.33%

Max ESR Discharge Penetration	5.58%
Max ESR Discharge Penetration Time	07:56
ESR Discharge Generation at Max ESR Discharge Penetration Time	4,153 MW

Max ESR Charge Penetration	3.33%
Max ESR Charge Penetration Time	12:10
ESR Charge Load at Max ESR Charge Penetration Time	2,354 MW

\* Sum of maximum capacity (i.e. seasonal net max. sustainable rating in RIOO) of all ESR generators modeled in ERCOT's network operations model and are commercially operable (estimated based on Commercial Operations Date in RIOO).

\*\* Sum of maximum capacity (i.e. seasonal net max. sustainable rating in RIOO) of all ESR generators modeled in ERCOT's network operations model.

+ Sum of maximum capacity (i.e. maximum point of delivery total load in RIOO) of all ESR CLRs that are modeled in ERCOT's network operations model and are commercially operable (estimated based on Commercial Operations Date in RIOO).

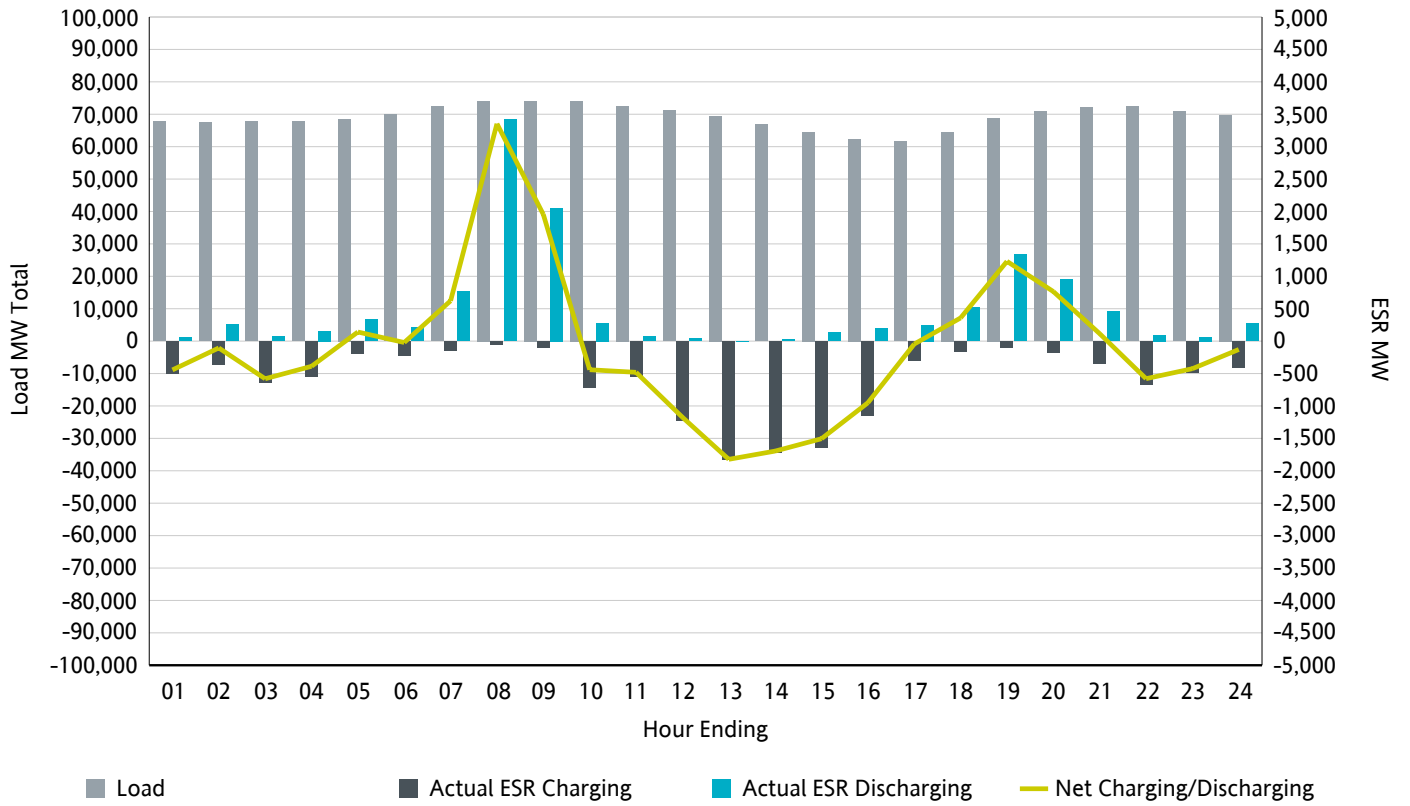
++ Sum of maximum capacity (i.e. maximum point of delivery total load in RIOO) of all ESR CLRs that are modeled in ERCOT's network operations model.

^ ESR Net Charge/Discharge = Total Discharging from ESR generators - Total Charging from ESR CLRs. Positive represents Net Discharge; negative represents Net Charge.

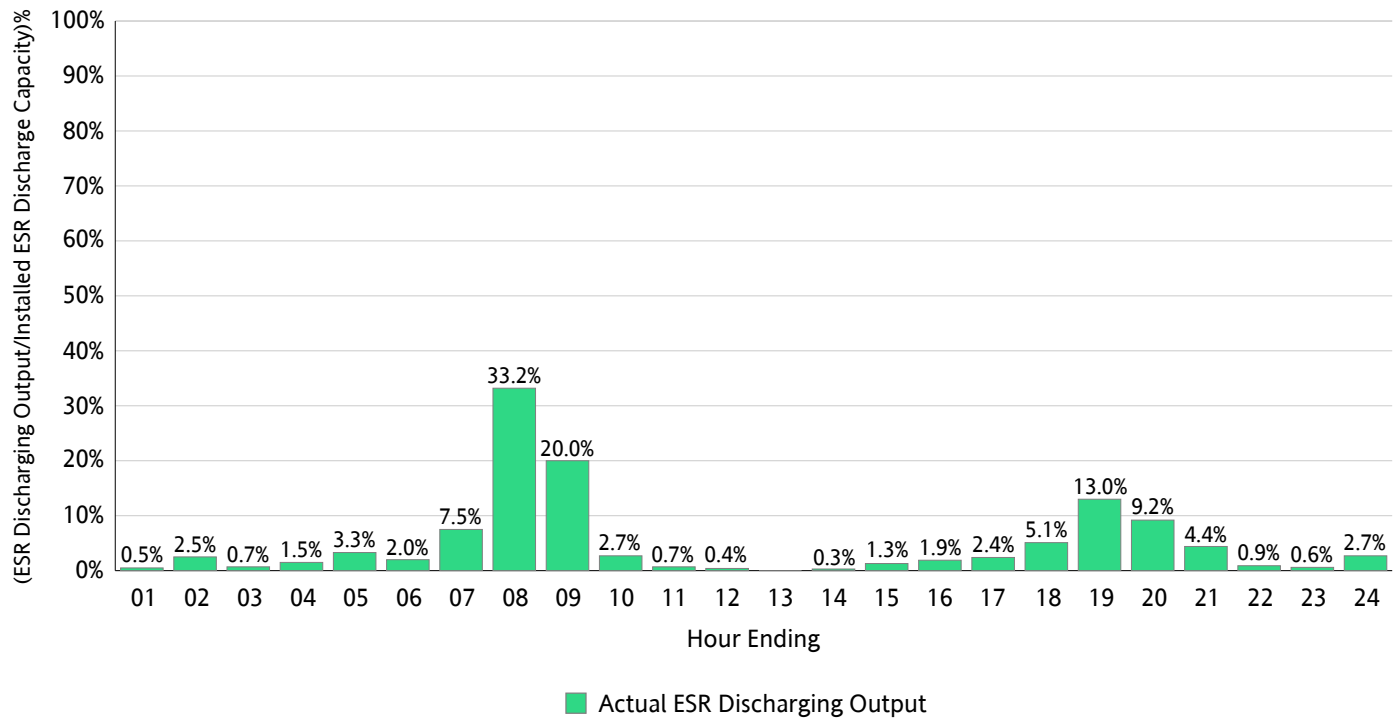
Note that generation, generation record, and generator capacity values in following pages of this report are based on units modeled in ERCOT's network operations model.

# Hourly Average Actual Load vs. Actual ESR Output

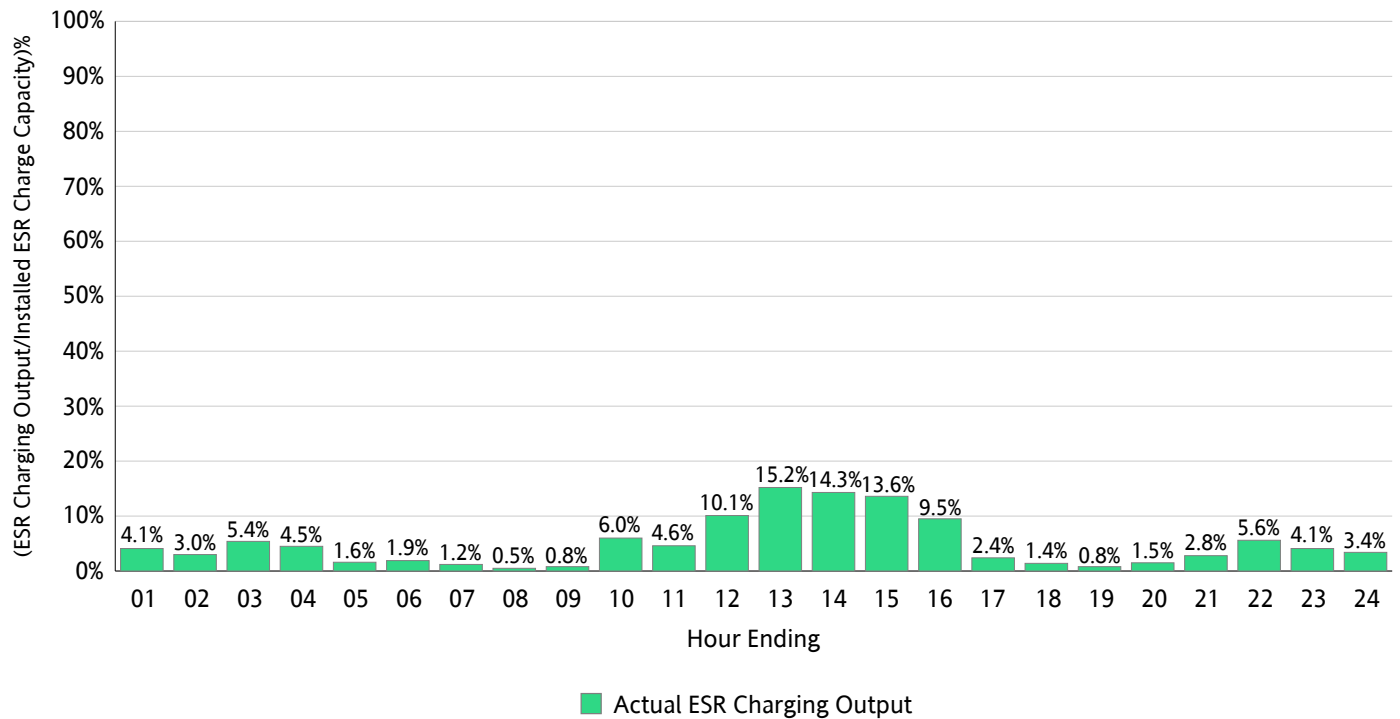
01/21/2025



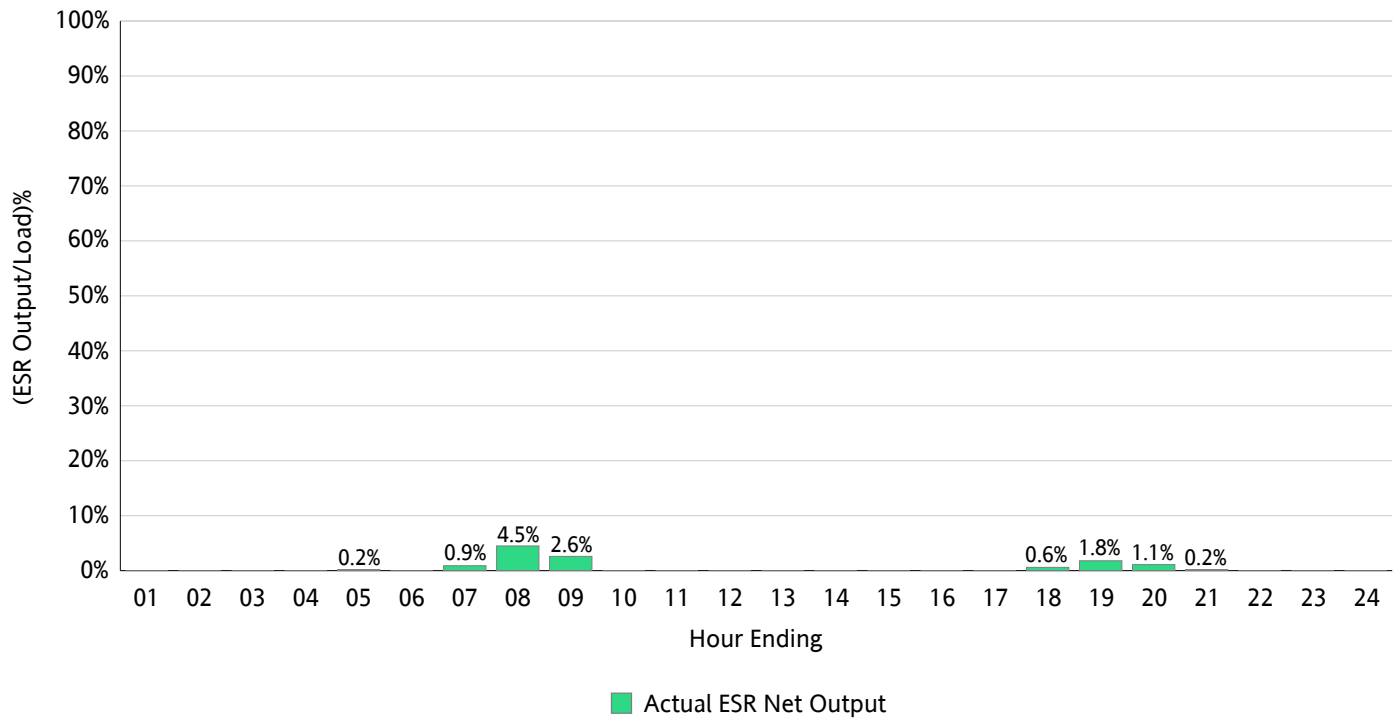
## Actual ESR Discharging Output as a Percentage of Total Installed ESR Discharge Capacity 01/21/2025



## Actual ESR Charging Output as a Percentage of Total Installed ESR Charge Capacity 01/21/2025



## Actual ESR Net Output as a Percentage of ERCOT Load 01/21/2025



ERCOT Load vs. Actual ESR Net Output  
01/14/2025 - 01/21/2025

