



## ERCOT Grid Operations

### ESR Integration Report : 12/27/2024

#### Current Daily Values:

Installed ESR Discharge Capacity*	9,690 MW
Total ESR Discharge Capacity**	11,225 MW
Installed ESR Charge Capacity+	11,148 MW
Total ESR Charge Capacity++	11,148 MW

Peak Load	49,214 MW
Peak Load Hour (HE)	19
ESR Discharge at Peak Load Hour	1,454 MW
ESR Charge at Peak Load Hour	82 MW
ESR Net Charge/Discharge at Peak Load Hour^	1,372 MW

Max ESR Discharge Generation	2,853 MW
Max ESR Discharge Time	17:05
Penetration at Max ESR Discharge Time	5.78%

Max ESR Charge Load	3,007 MW
Max ESR Charge Time	11:58
Penetration at Max ESR Charge Time	6.08%

Max ESR Discharge Penetration	5.79%
Max ESR Discharge Penetration Time	17:04
ESR Discharge Generation at Max ESR Discharge Penetration Time	2,852 MW

Max ESR Charge Penetration	6.08%
Max ESR Charge Penetration Time	11:58
ESR Charge Load at Max ESR Charge Penetration Time	3,007 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).

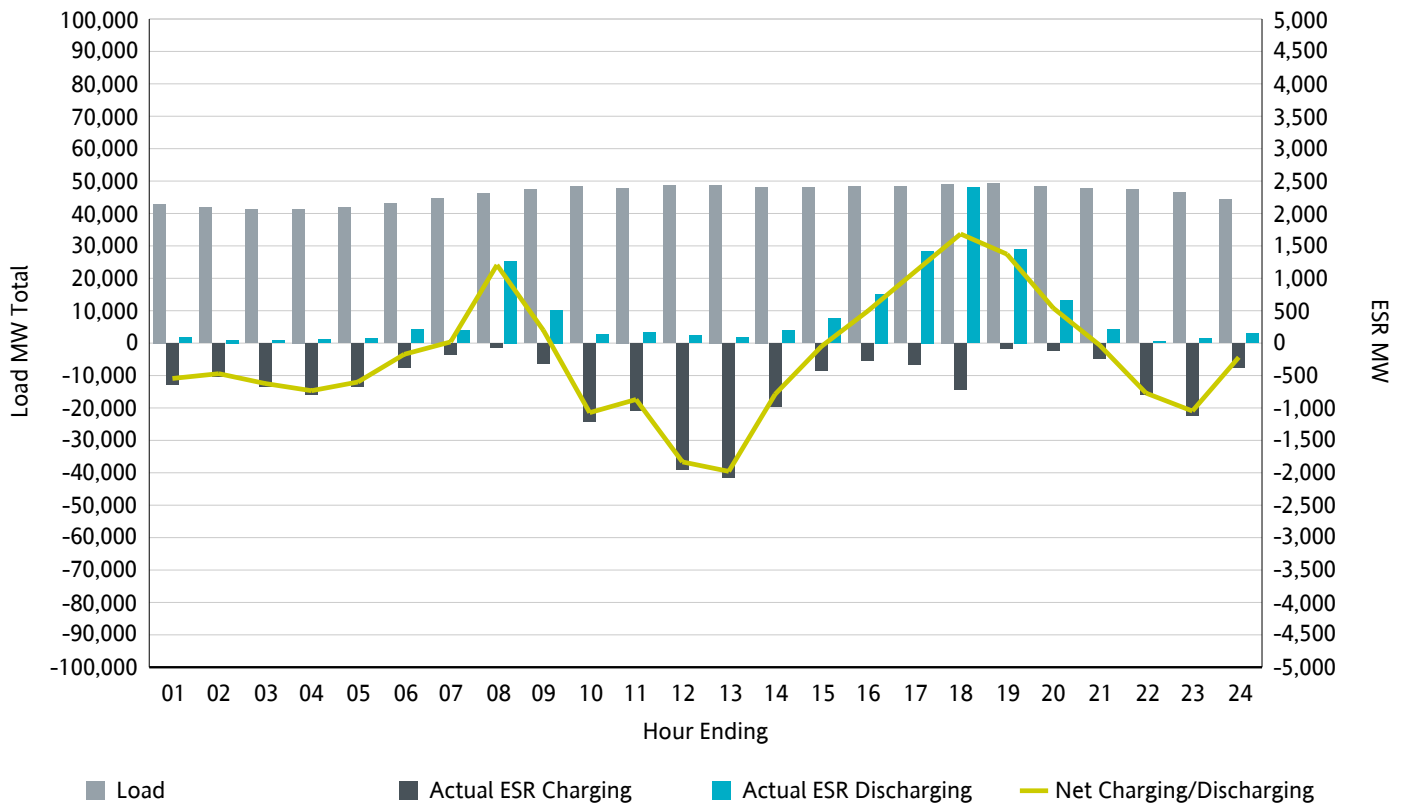
++ Sum of maximum capacity (i.e. maximum point of delivery total load in RIOO) of all ESR CLRs that are modeled in ERCOT's network operations model.

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

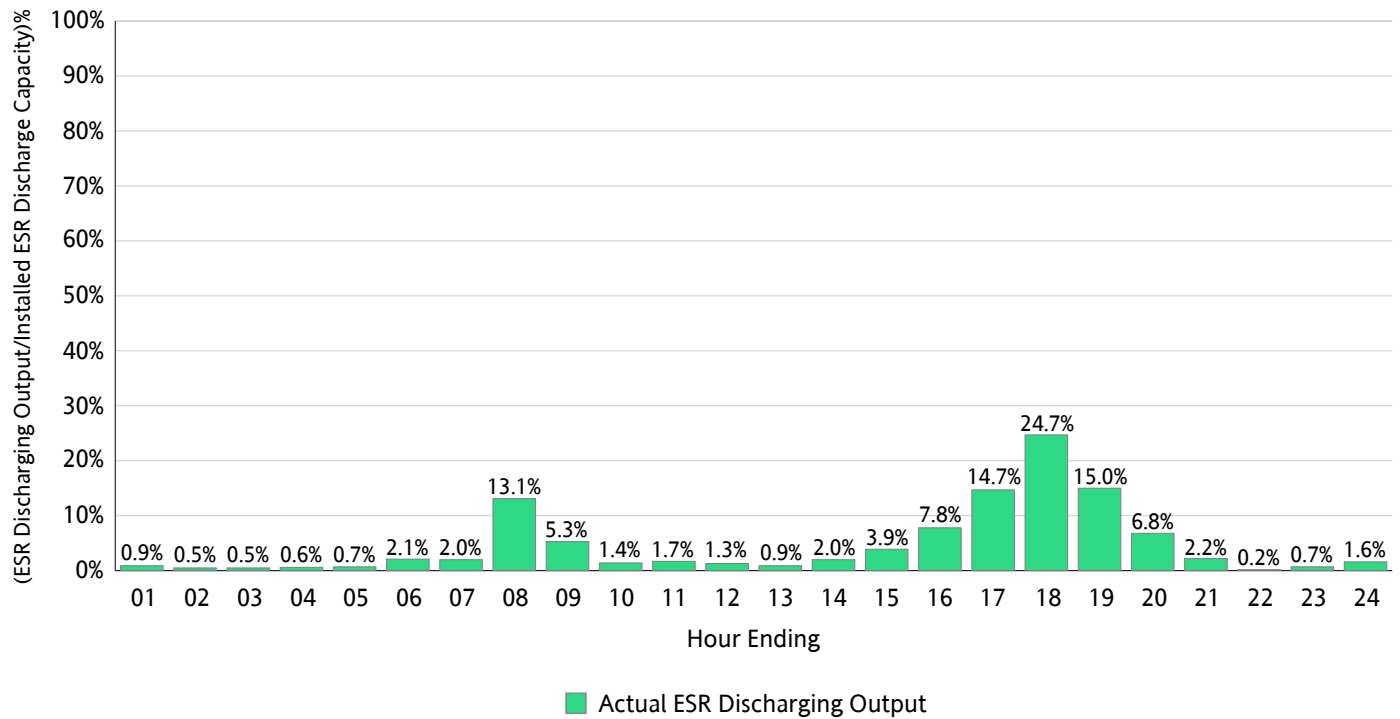
Note that generation, generation record, and generator capacity values in following pages of this report are based on units modeled in ERCOT's network operations model.

## Hourly Average Actual Load vs. Actual ESR Output

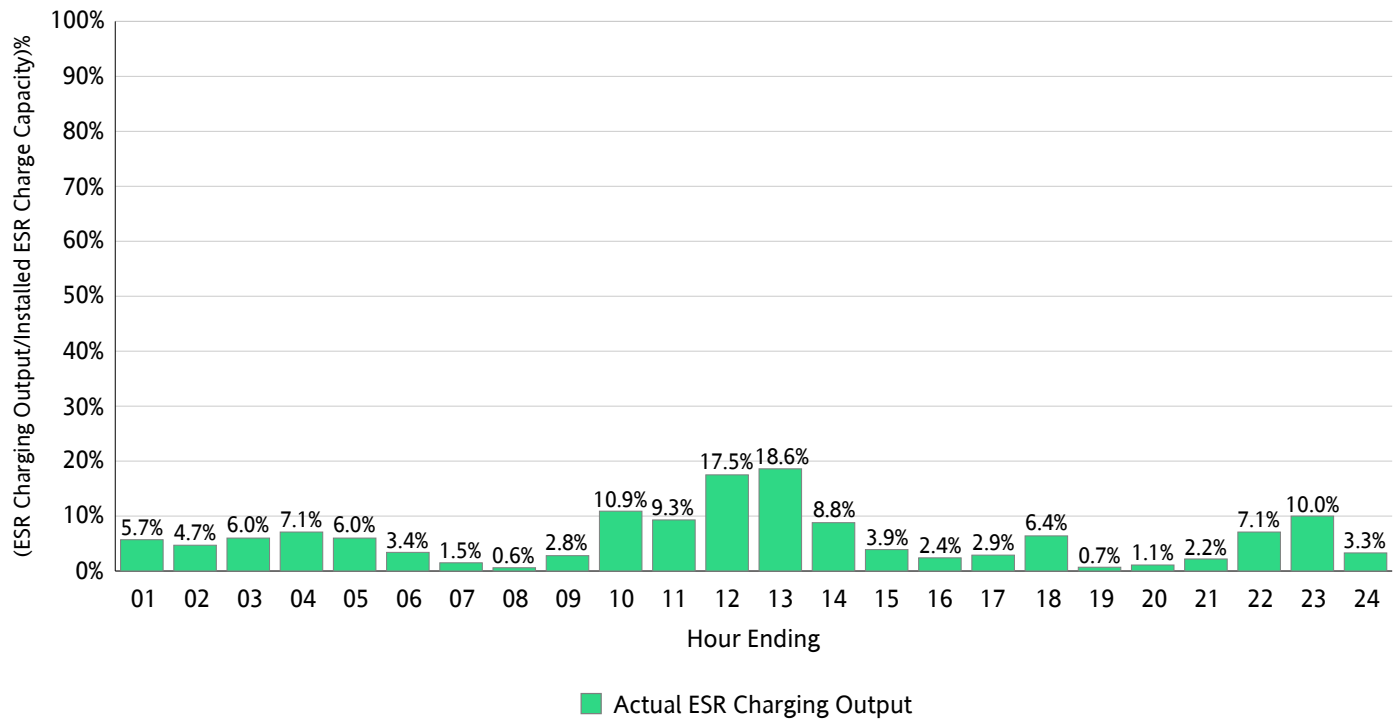
12/27/2024



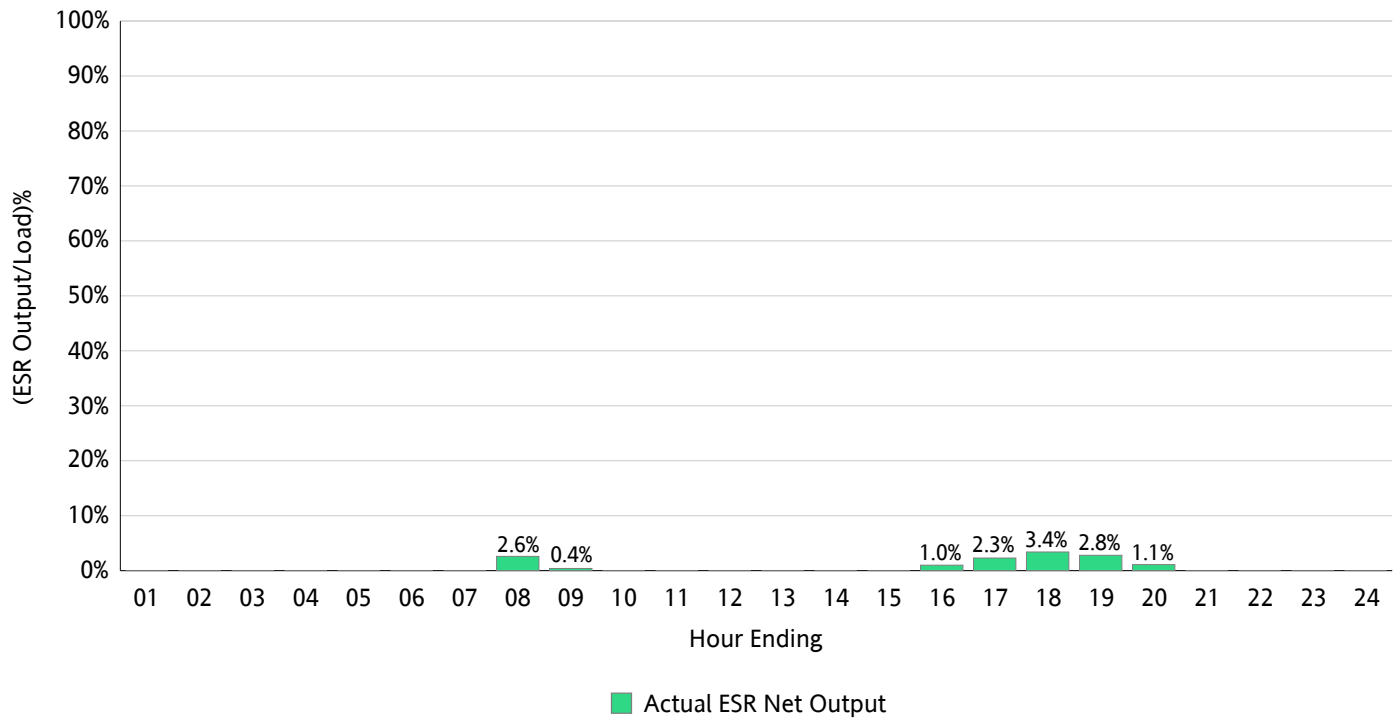
## Actual ESR Discharging Output as a Percentage of Total Installed ESR Discharge Capacity 12/27/2024



## Actual ESR Charging Output as a Percentage of Total Installed ESR Charge Capacity 12/27/2024



## Actual ESR Net Output as a Percentage of ERCOT Load 12/27/2024



ERCOT Load vs. Actual ESR Net Output  
12/20/2024 - 12/27/2024

