



## ERCOT Grid Operations

### ESR Integration Report : 01/12/2024

#### Current Daily Values:

Installed ESR Discharge Capacity*	5,940 MW
Total ESR Discharge Capacity**	7,681 MW
Installed ESR Charge Capacity+	7,662 MW
Total ESR Charge Capacity++	7,662 MW

Peak Load	54,688 MW
Peak Load Hour (HE)	21
ESR Discharge at Peak Load Hour	350 MW
ESR Charge at Peak Load Hour	195 MW
ESR Net Charge/Discharge at Peak Load Hour^	155 MW

Max ESR Discharge Generation	1,022 MW
Max ESR Discharge Time	17:40
Penetration at Max ESR Discharge Time	2.00%

Max ESR Charge Load	717 MW
Max ESR Charge Time	08:48
Penetration at Max ESR Charge Time	1.33%

Max ESR Discharge Penetration	2.00%
Max ESR Discharge Penetration Time	17:40
ESR Discharge Generation at Max ESR Discharge Penetration Time	1,022 MW

Max ESR Charge Penetration	1.36%
Max ESR Charge Penetration Time	14:30
ESR Charge Load at Max ESR Charge Penetration Time	672 MW

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

+ Sum of maximum capacity (i.e. max. power consumption in RIOO) of all ESR CLR's that are modeled in ERCOT's network operations model and are commercially operable (estimated based on commercial operations date in RIOO).

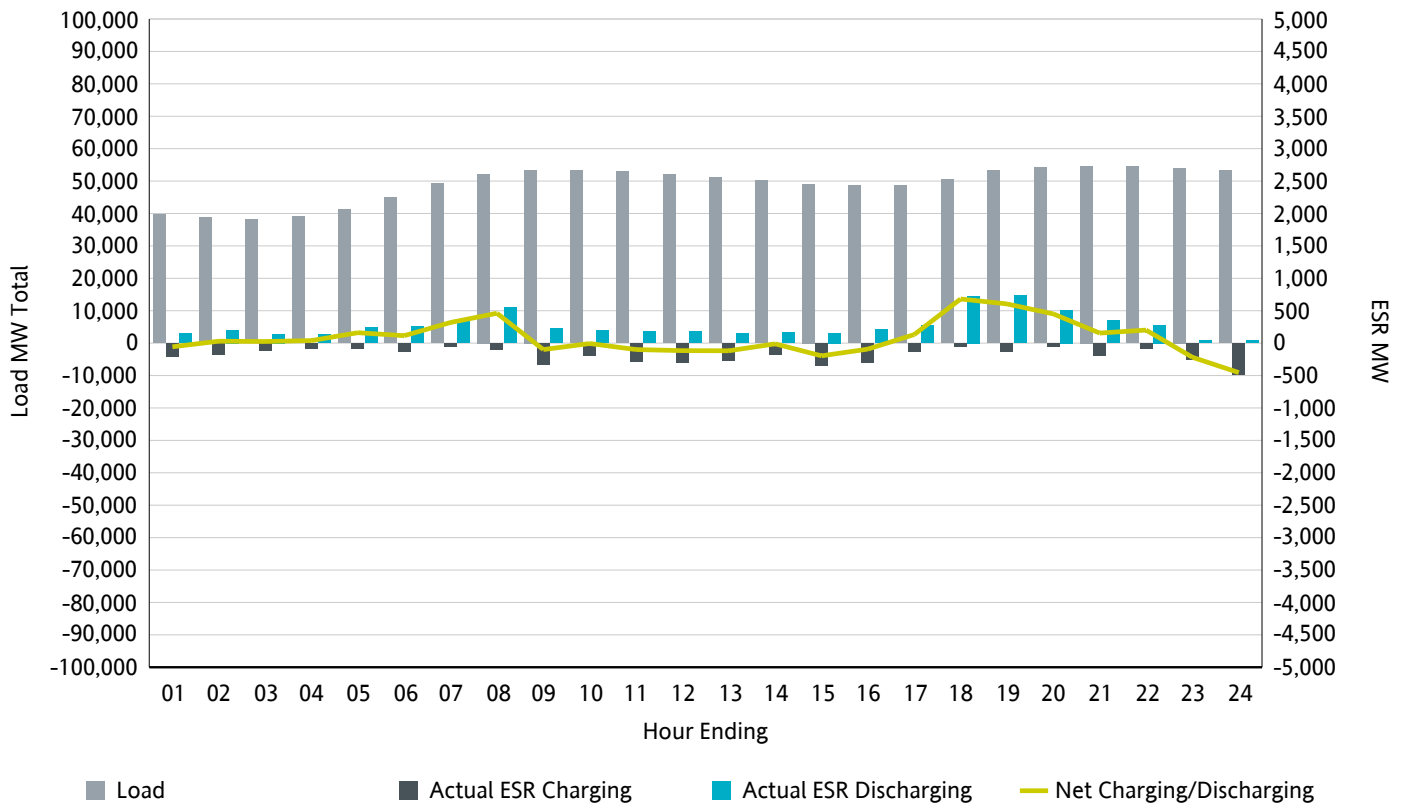
++ Sum of maximum capacity (i.e. max. power consumption in RIOO) of all ESR CLR's that are modeled in ERCOT's network operations model.

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

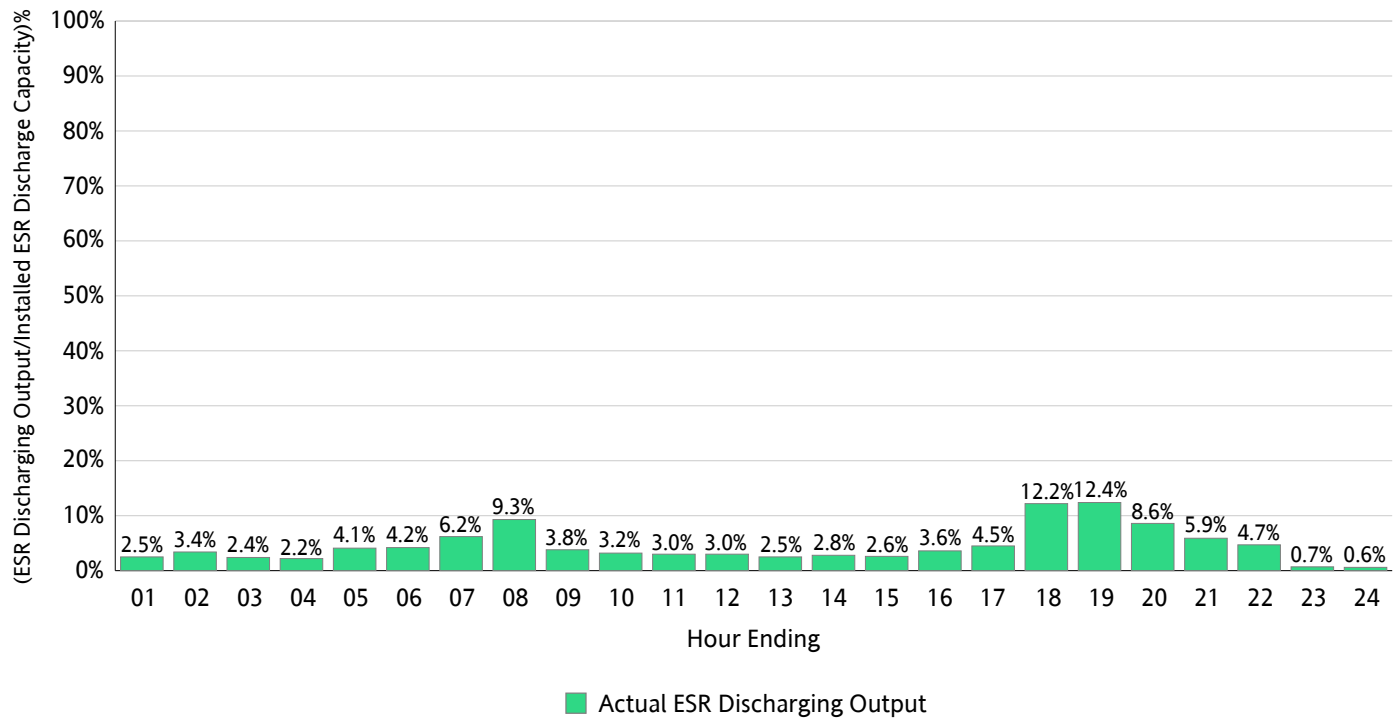
Note that generation, generation record, and generator capacity values in following pages of this report are based on units modeled in ERCOT's network operations model.

## Hourly Average Actual Load vs. Actual ESR Output

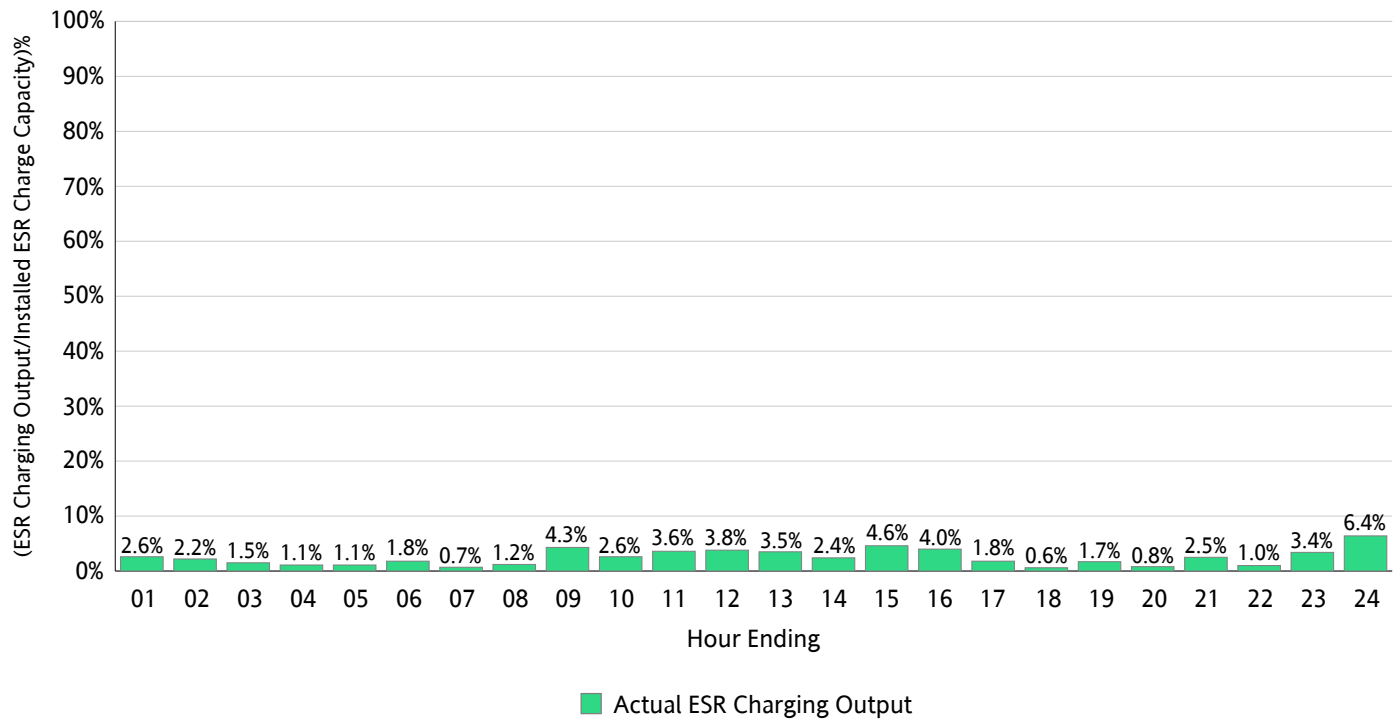
01/12/2024



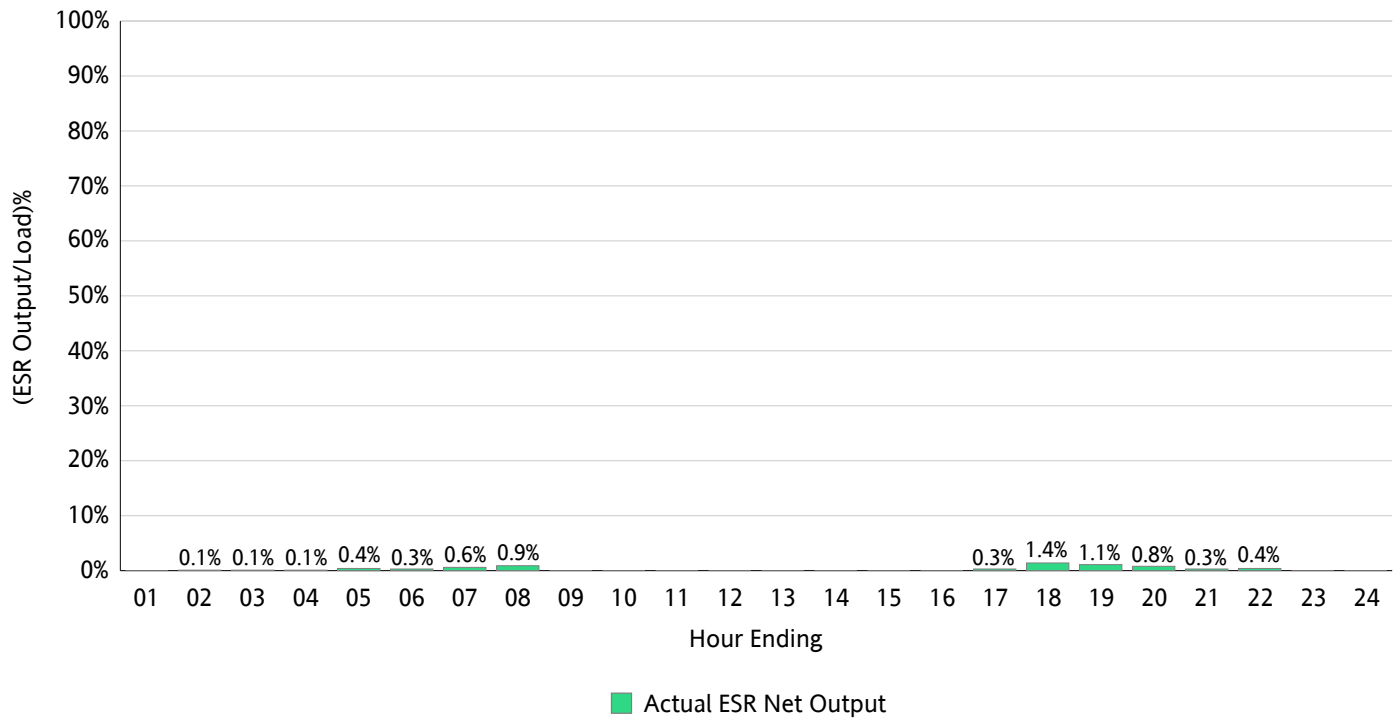
## Actual ESR Discharging Output as a Percentage of Total Installed ESR Discharge Capacity 01/12/2024



## Actual ESR Charging Output as a Percentage of Total Installed ESR Charge Capacity 01/12/2024



## Actual ESR Net Output as a Percentage of ERCOT Load 01/12/2024



ERCOT Load vs. Actual ESR Net Output  
01/05/2024 - 01/12/2024

