



ERCOT Grid Operations

ESR Integration Report : 01/28/2024

Current Daily Values:

Installed ESR Discharge Capacity*	5,950 MW
Total ESR Discharge Capacity**	7,681 MW
Installed ESR Charge Capacity+	7,662 MW
Total ESR Charge Capacity++	7,662 MW

Peak Load	51,599 MW
Peak Load Hour (HE)	9
ESR Discharge at Peak Load Hour	17 MW
ESR Charge at Peak Load Hour	357 MW
ESR Net Charge/Discharge at Peak Load Hour^	-340 MW

Max ESR Discharge Generation	724 MW
Max ESR Discharge Time	17:36
Penetration at Max ESR Discharge Time	1.66%

Max ESR Charge Load	592 MW
Max ESR Charge Time	14:50
Penetration at Max ESR Charge Time	1.41%

Max ESR Discharge Penetration	1.67%
Max ESR Discharge Penetration Time	17:26
ESR Discharge Generation at Max ESR Discharge Penetration Time	721 MW

Max ESR Charge Penetration	1.41%
Max ESR Charge Penetration Time	14:50
ESR Charge Load at Max ESR Charge Penetration Time	592 MW

* Sum of maximum capacity (i.e. seasonal net max. sustainable rating in R100) of all ESR generators modeled in ERCOT's network operations model and are commercially operable (estimated based on Commercial Operations Date in R100).

** Sum of maximum capacity (i.e. seasonal net max. sustainable rating in R100) of all ESR generators modeled in ERCOT's network operations model.

+ Sum of maximum capacity (i.e. maximum point of delivery total load in R100) of all ESR CLRs that are modeled in ERCOT's network operations model and are commercially operable (estimated based on Commercial Operations Date in R100).

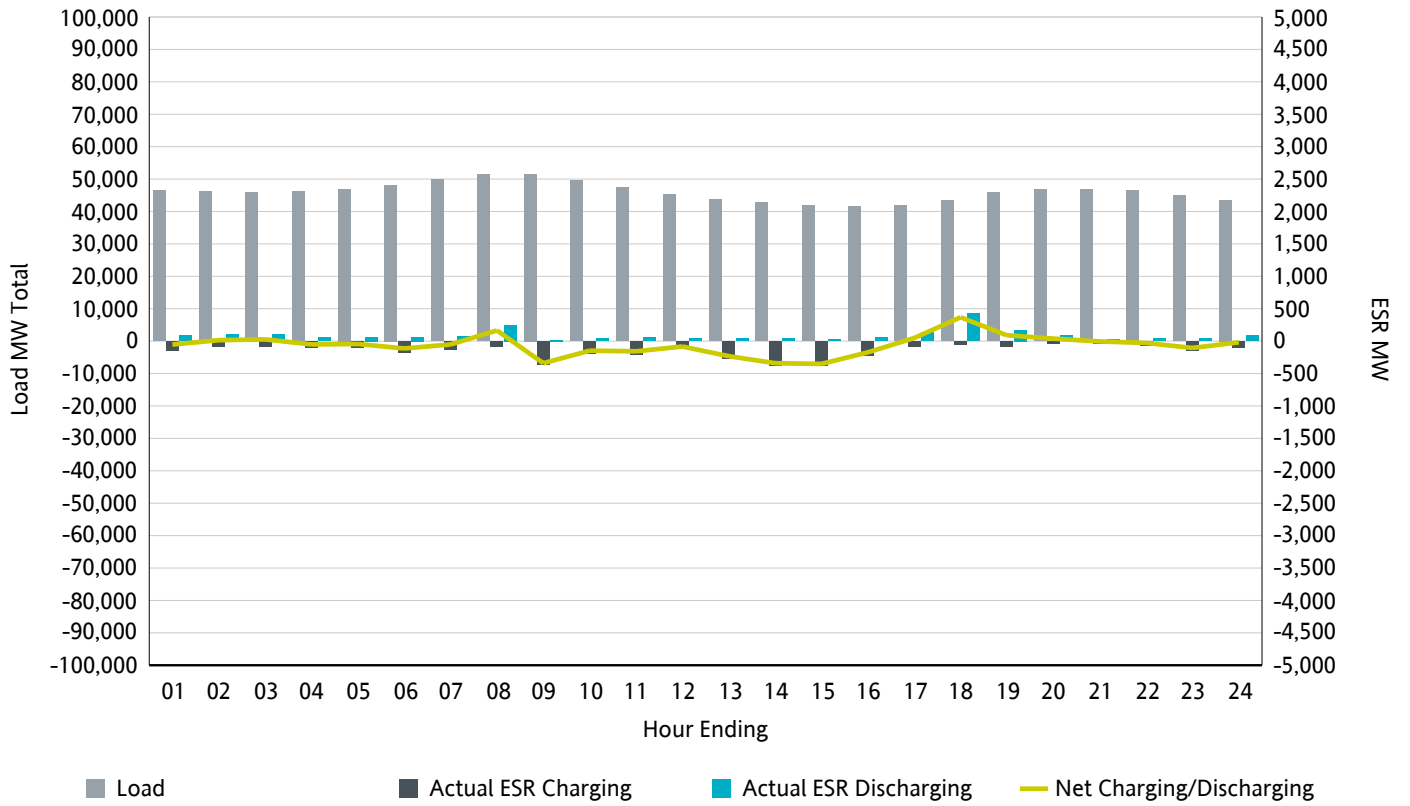
++ Sum of maximum capacity (i.e. maximum point of delivery total load in R100) of all ESR CLRs that are modeled in ERCOT's network operations model.

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

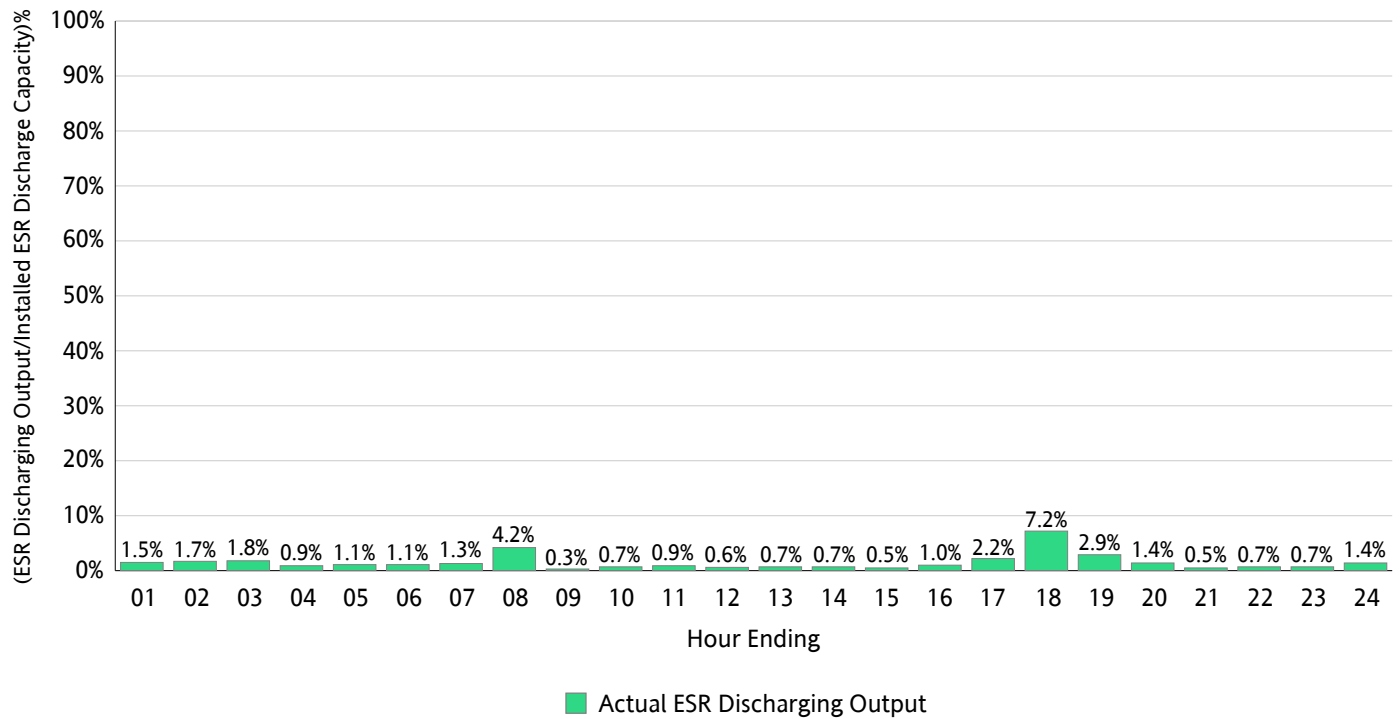
Note that generation, generation record, and generator capacity values in following pages of this report are based on units modeled in ERCOT's network operations model.

Hourly Average Actual Load vs. Actual ESR Output

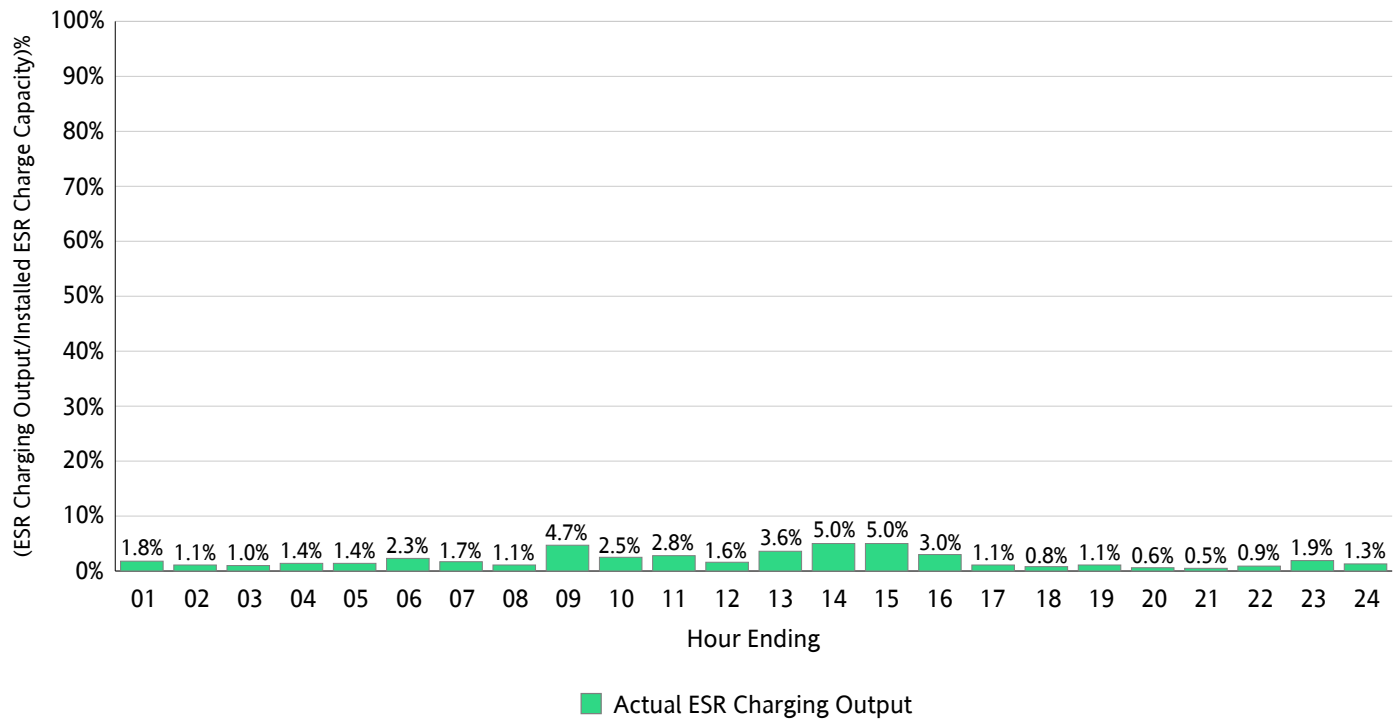
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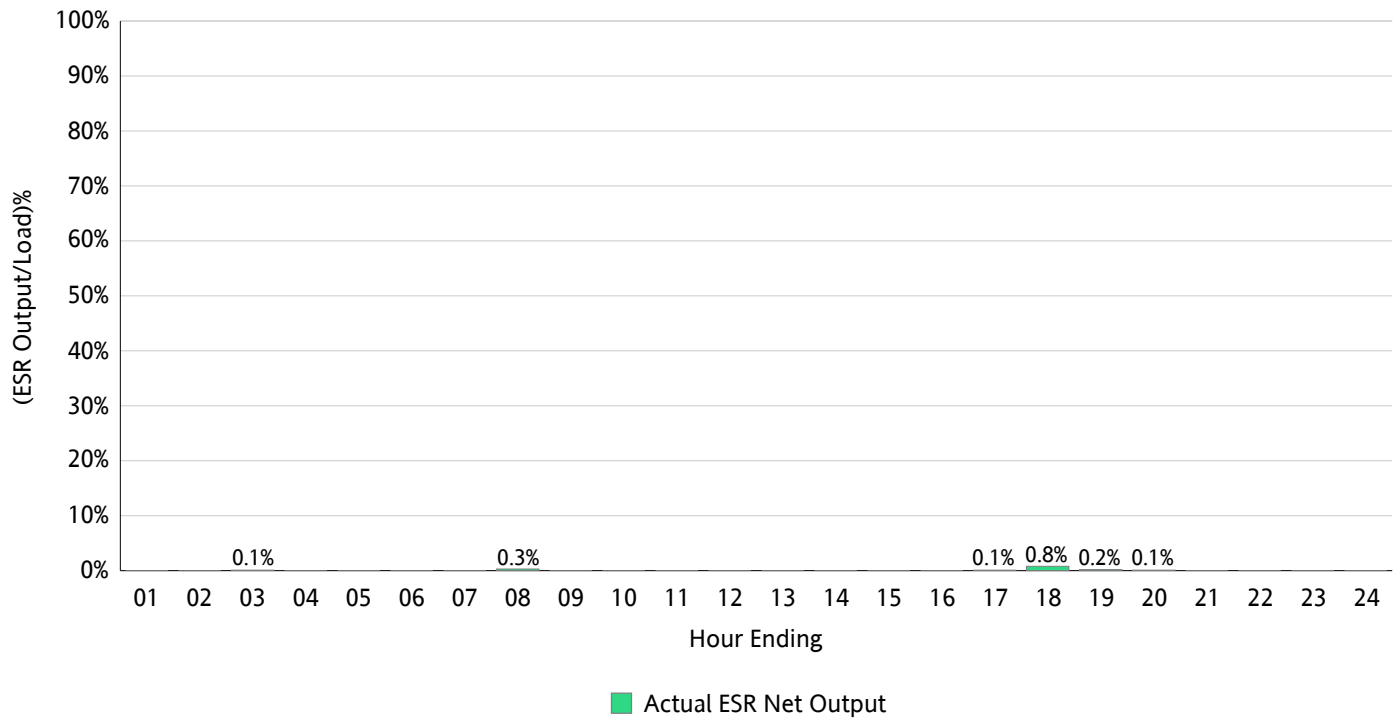
Actual ESR Discharging Output as a Percentage of Total Installed ESR Discharge Capacity 01/28/2024



Actual ESR Charging Output as a Percentage of Total Installed ESR Charge Capacity 01/28/2024



Actual ESR Net Output as a Percentage of ERCOT Load 01/28/2024



ERCOT Load vs. Actual ESR Net Output
01/21/2024 - 01/28/2024

