ERCOT Grid Operations

ESR Integration Report : 01/08/2024

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	51,260 MW
Peak Load Hour (HE)	19
ESR Discharge at Peak Load Hour	232 MW
ESR Charge at Peak Load Hour	89 MW
ESR Net Charge/Discharge at Peak Load Hour^	143 MW

Max ESR Discharge Generation	626 MW
Max ESR Discharge Time	17:32
Penetration at Max ESR Discharge Time	1.26%

Max ESR Charge Load	578 MW
Max ESR Charge Time	01:04
Penetration at Max ESR Charge Time	1.36%

Max ESR Discharge Penetration	1.26%
Max ESR Discharge Penetration Time	17:32
ESR Discharge Generation at Max ESR Discharge Penetration Time	626 MW

Max ESR Charge Penetration	1.37%
Max ESR Charge Penetration Time	01:04
ESR Charge Load at Max ESR Charge Penetration Time	578 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 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. max. power consumption 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.
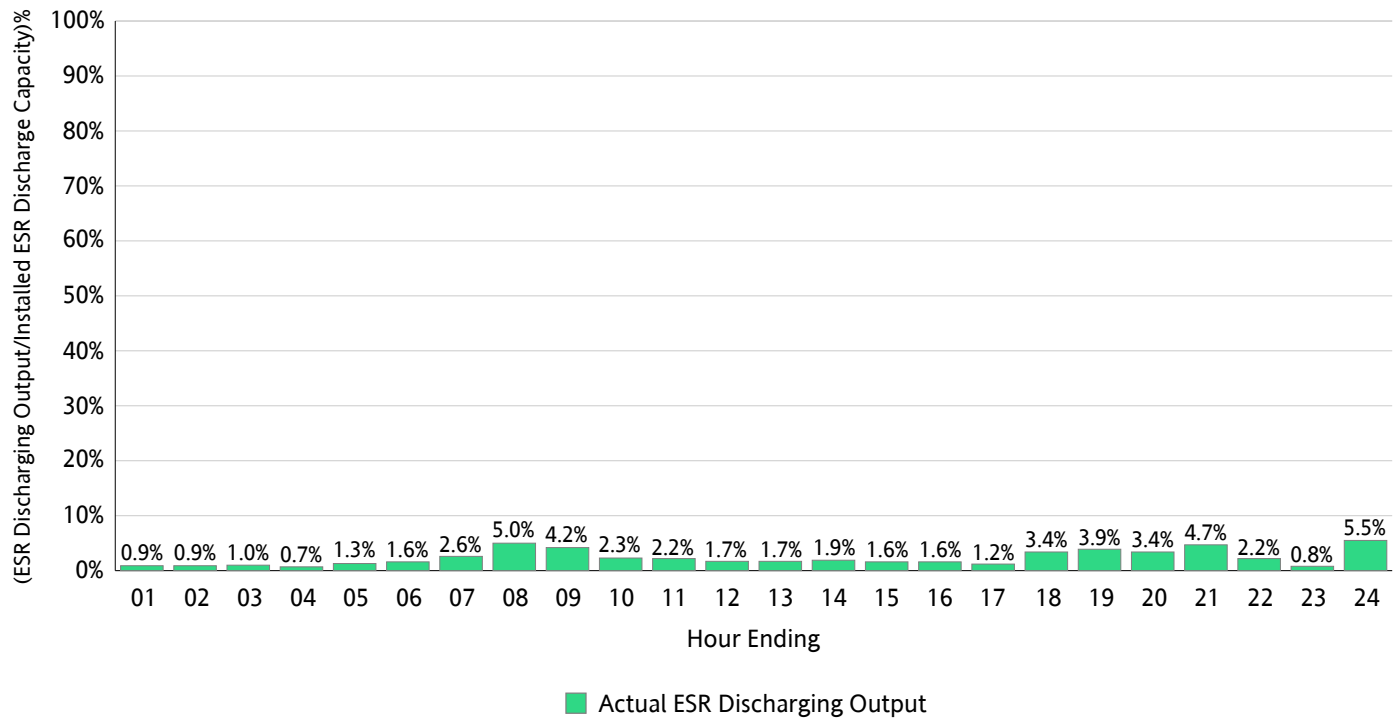
Note that generation, generation record, and generator capacity values in following pages of this report are based on units modeled in ERCOT's network operations model.
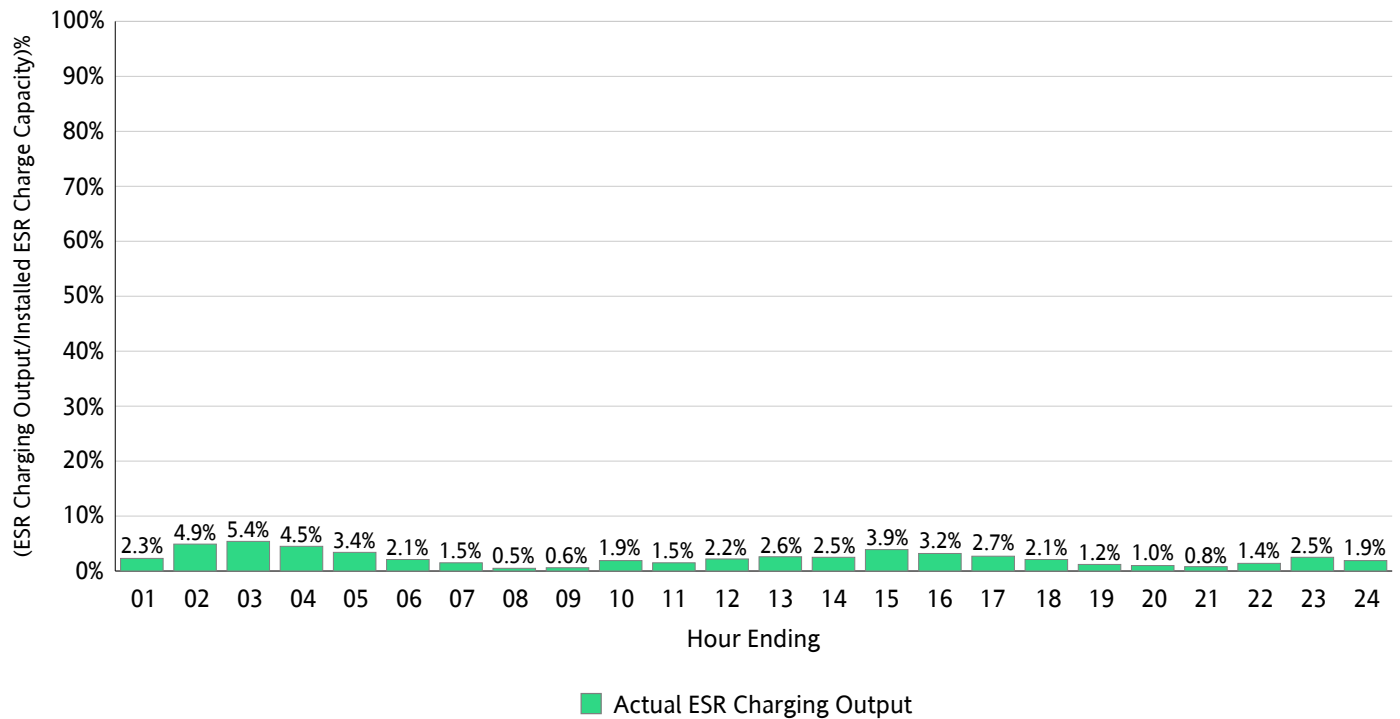
# Hourly Average Actual Load vs. Actual ESR Output

01/08/2024
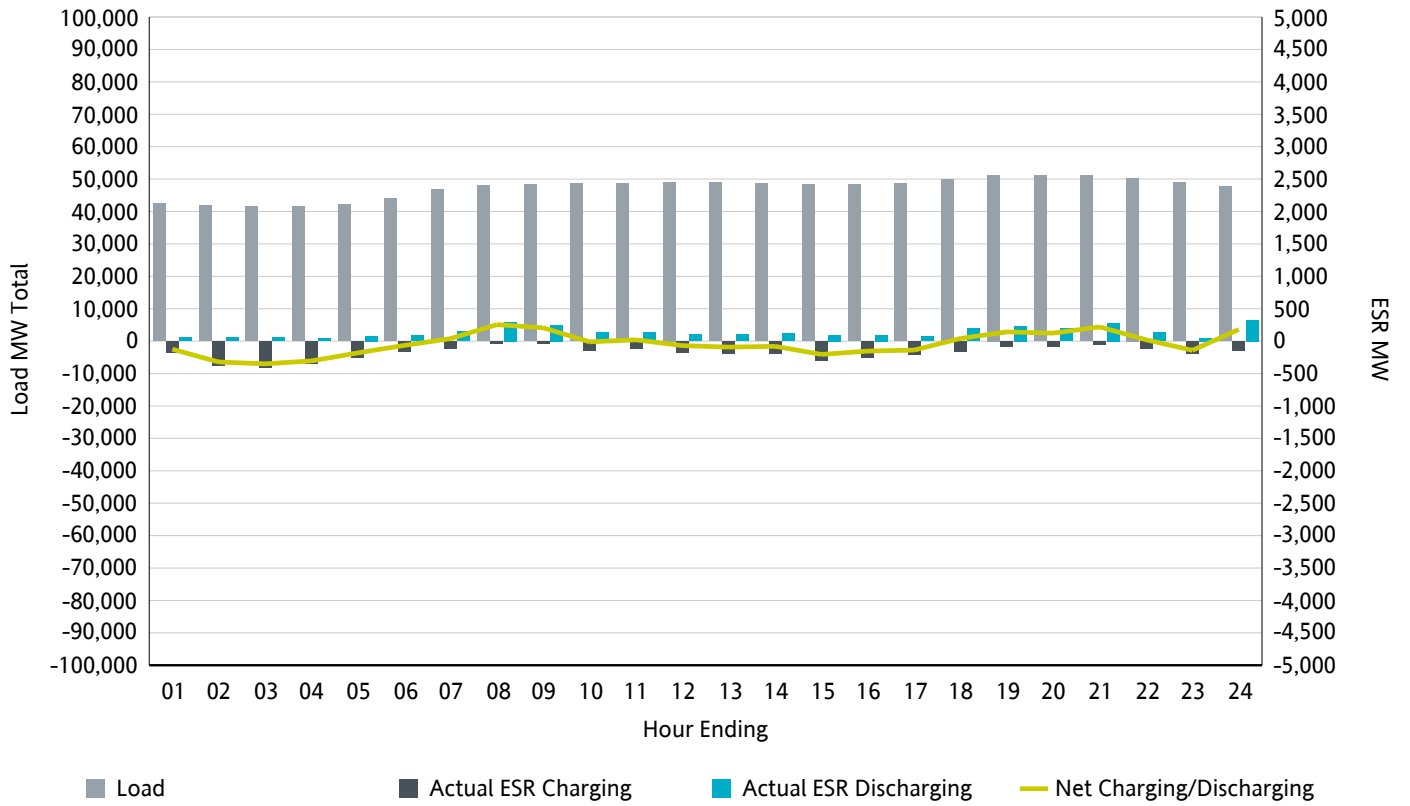
Actual ESR Discharging Output as a Percentage of Total Installed ESR Discharge Capacity
01/08/2024

Actual ESR Discharging Output

Actual ESR Charging Output as a Percentage of Total Installed ESR Charge Capacity
01/08/2024

Actual ESR Charging Output

Actual ESR Net Output as a Percentage of ERCOT Load
01/08/2024
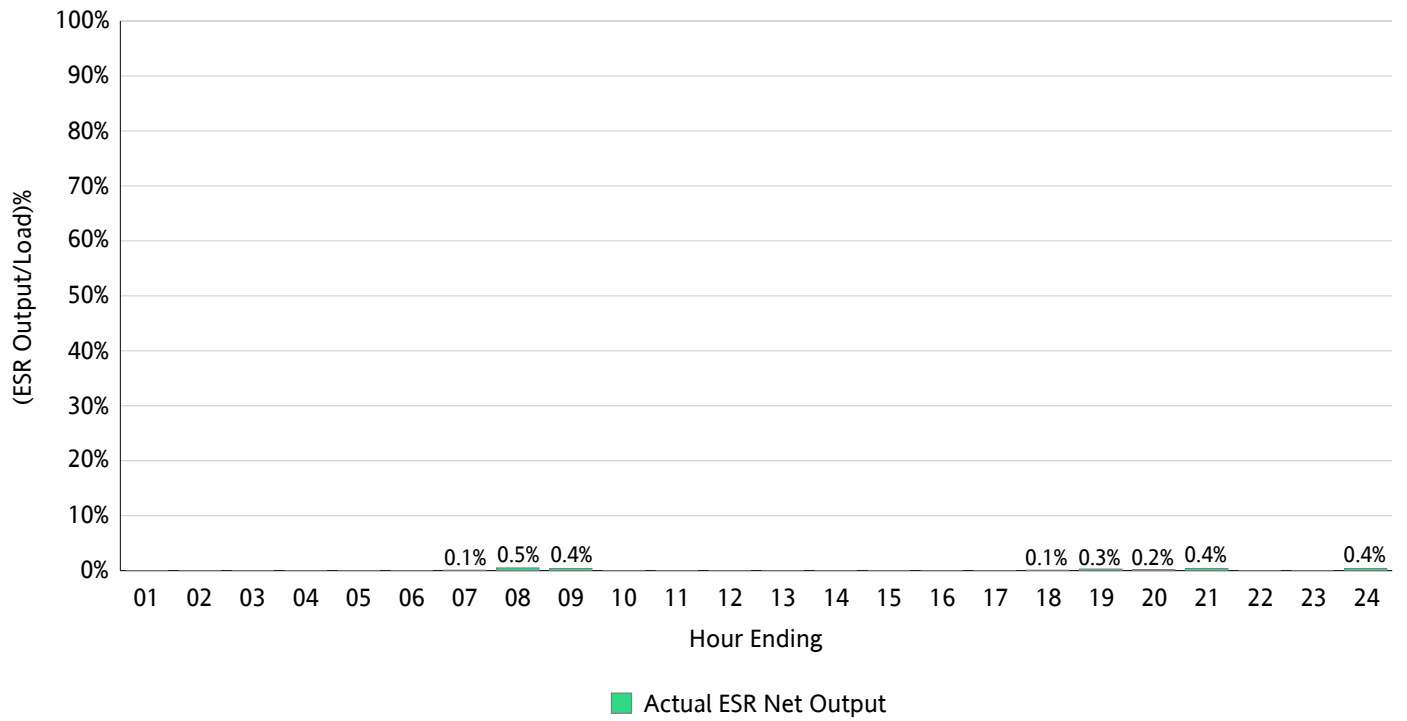
ERCOT Load vs. Actual ESR Net Output
01/01/2024 – 01/08/2024