ERCOT Grid Operations

ESR Integration Report : 05/05/2024

Current Daily Values:

Installed ESR Discharge Capacity*	7,365 MW
Total ESR Discharge Capacity**	8,639 MW
Installed ESR Charge Capacity+	8,591 MW
Total ESR Charge Capacity++	8,591 MW

Peak Load	53,693 MW
Peak Load Hour (HE)	18
ESR Discharge at Peak Load Hour	79 MW
ESR Charge at Peak Load Hour	248 MW
ESR Net Charge/Discharge at Peak Load Hour^	-168 MW

Max ESR Discharge Generation	855 MW
Max ESR Discharge Time	06:15
Penetration at Max ESR Discharge Time	2.15%

Max ESR Charge Load	855 MW
Max ESR Charge Time	11:32
Penetration at Max ESR Charge Time	1.77%

Max ESR Discharge Penetration	2.15%
Max ESR Discharge Penetration Time	06:15
ESR Discharge Generation at Max ESR Discharge Penetration Time	855 MW

Max ESR Charge Penetration	1.77%
Max ESR Charge Penetration Time	11:32
ESR Charge Load at Max ESR Charge Penetration Time	855 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

05/05/2024
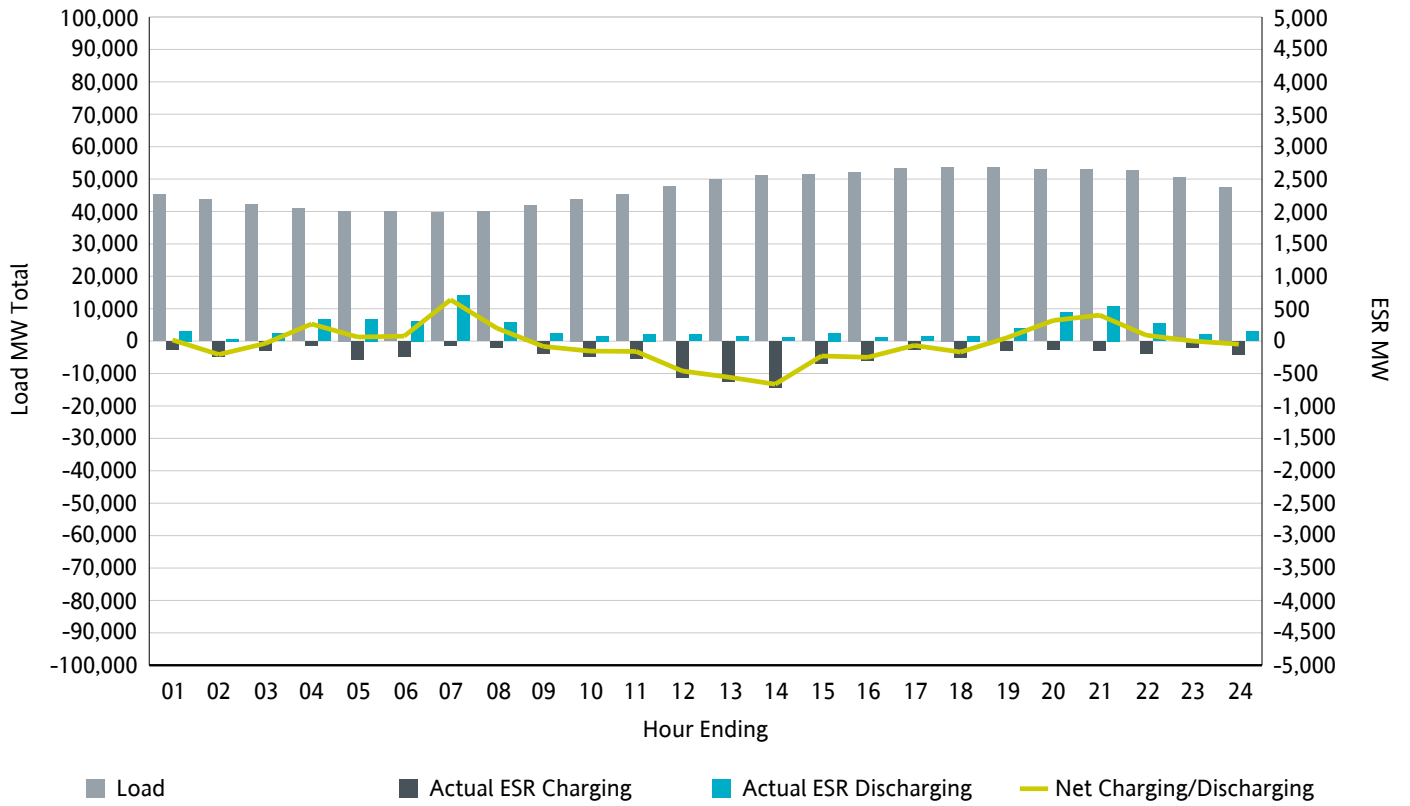
Load | Actual ESR Charging | Actual ESR Discharging | Net Charging/Discharging

Actual ESR Discharging Output as a Percentage of Total Installed ESR Discharge Capacity
05/05/2024

Legend: ■ Actual ESR Discharging Output

Actual ESR Charging Output as a Percentage of Total Installed ESR Charge Capacity
05/05/2024
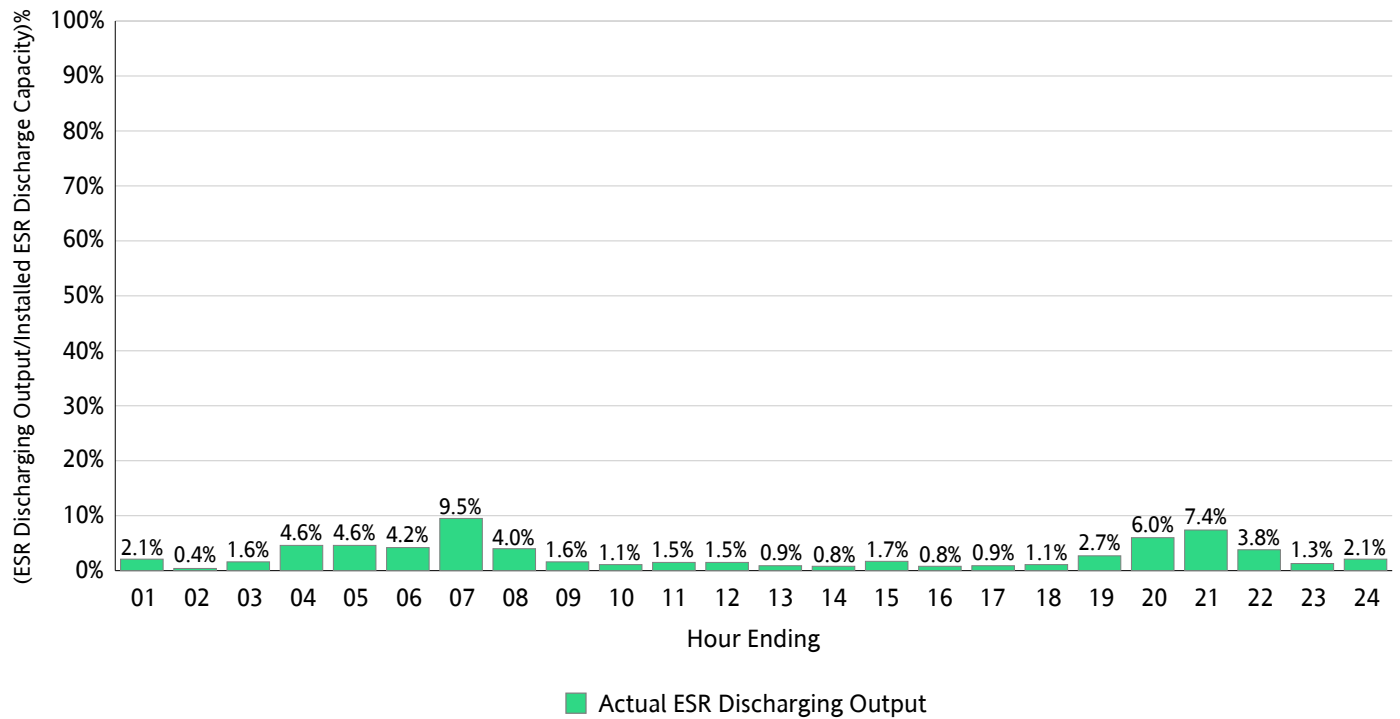
Legend: ■ Actual ESR Charging Output
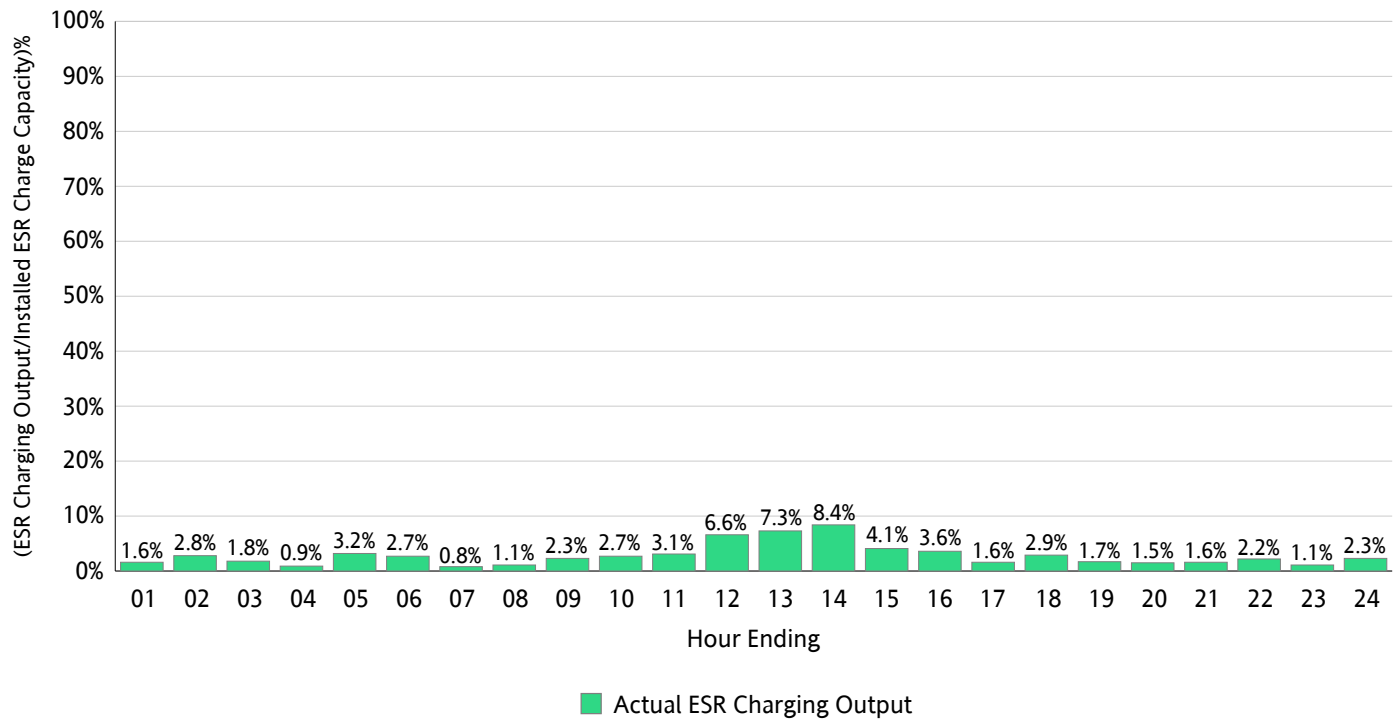
Actual ESR Net Output as a Percentage of ERCOT Load
05/05/2024

Hour Ending

■ Actual ESR Net Output
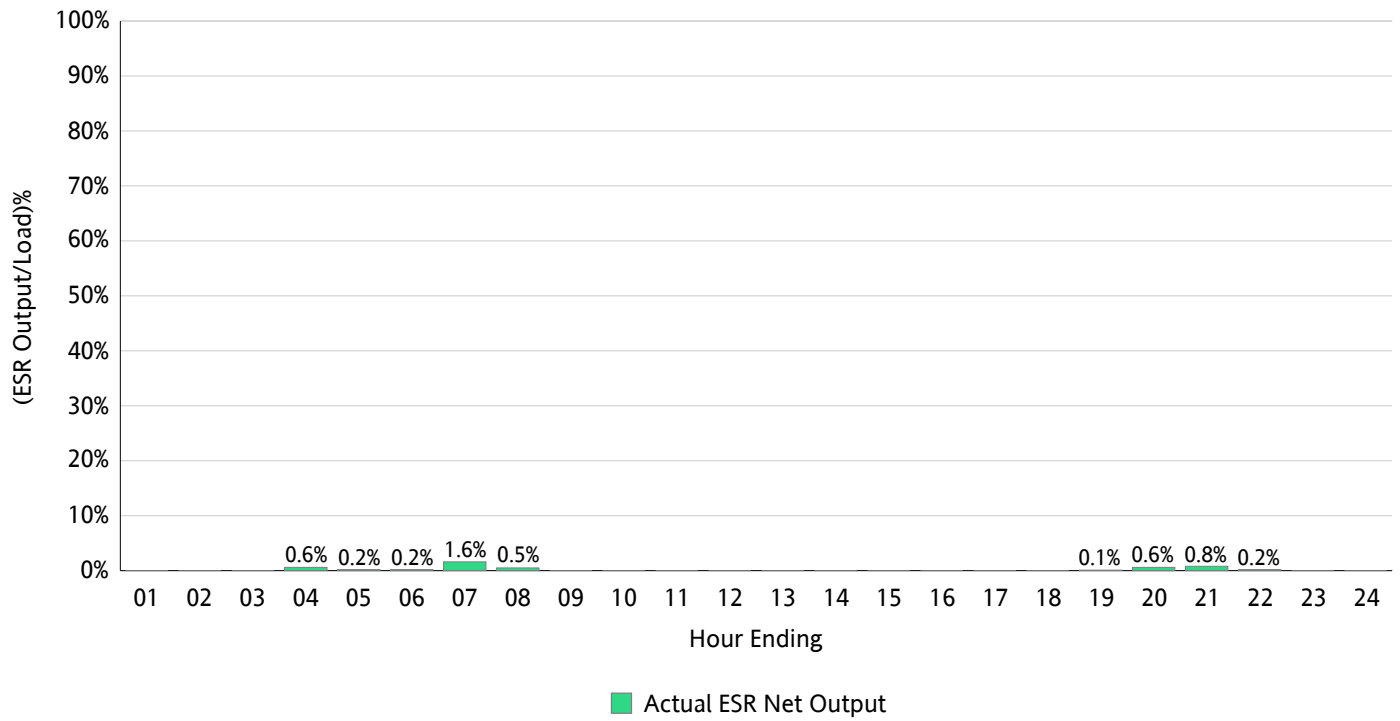
ERCOT Load vs. Actual ESR Net Output
04/28/2024 – 05/05/2024