



## ERCOT Grid Operations

### ESR Integration Report : 05/14/2024

#### 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	64,493 MW
Peak Load Hour (HE)	18
ESR Discharge at Peak Load Hour	128 MW
ESR Charge at Peak Load Hour	170 MW
ESR Net Charge/Discharge at Peak Load Hour^	-42 MW

Max ESR Discharge Generation	1,507 MW
Max ESR Discharge Time	19:37
Penetration at Max ESR Discharge Time	2.48%

Max ESR Charge Load	768 MW
Max ESR Charge Time	01:41
Penetration at Max ESR Charge Time	1.87%

Max ESR Discharge Penetration	2.48%
Max ESR Discharge Penetration Time	19:37
ESR Discharge Generation at Max ESR Discharge Penetration Time	1,507 MW

Max ESR Charge Penetration	1.87%
Max ESR Charge Penetration Time	01:41
ESR Charge Load at Max ESR Charge Penetration Time	768 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 CLR's that are modeled in ERCOT's network operations model and are commercially operable (estimated based on Commercial Operations Date in R100).

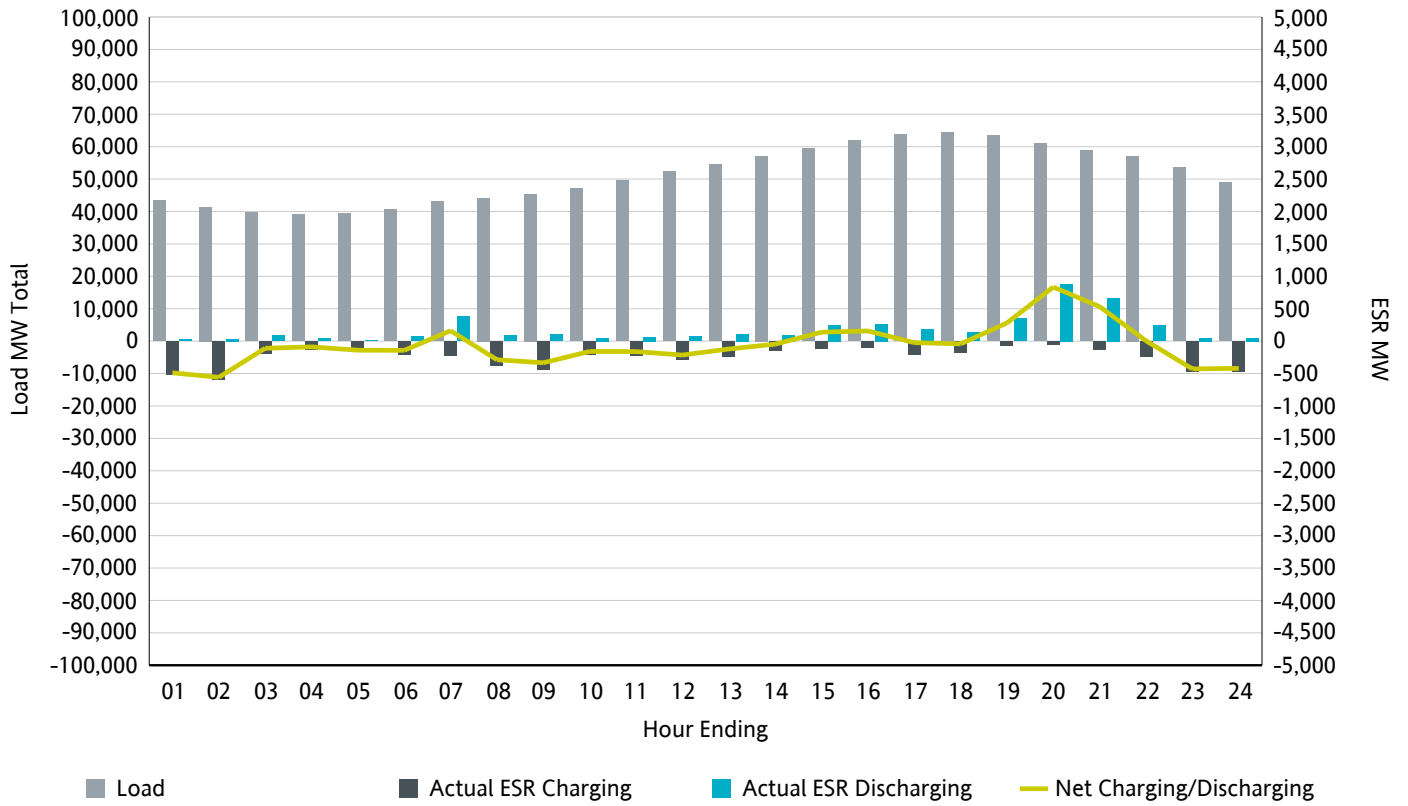
++ Sum of maximum capacity (i.e. maximum point of delivery total load in R100) of all ESR CLR's that are modeled in ERCOT's network operations model.

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

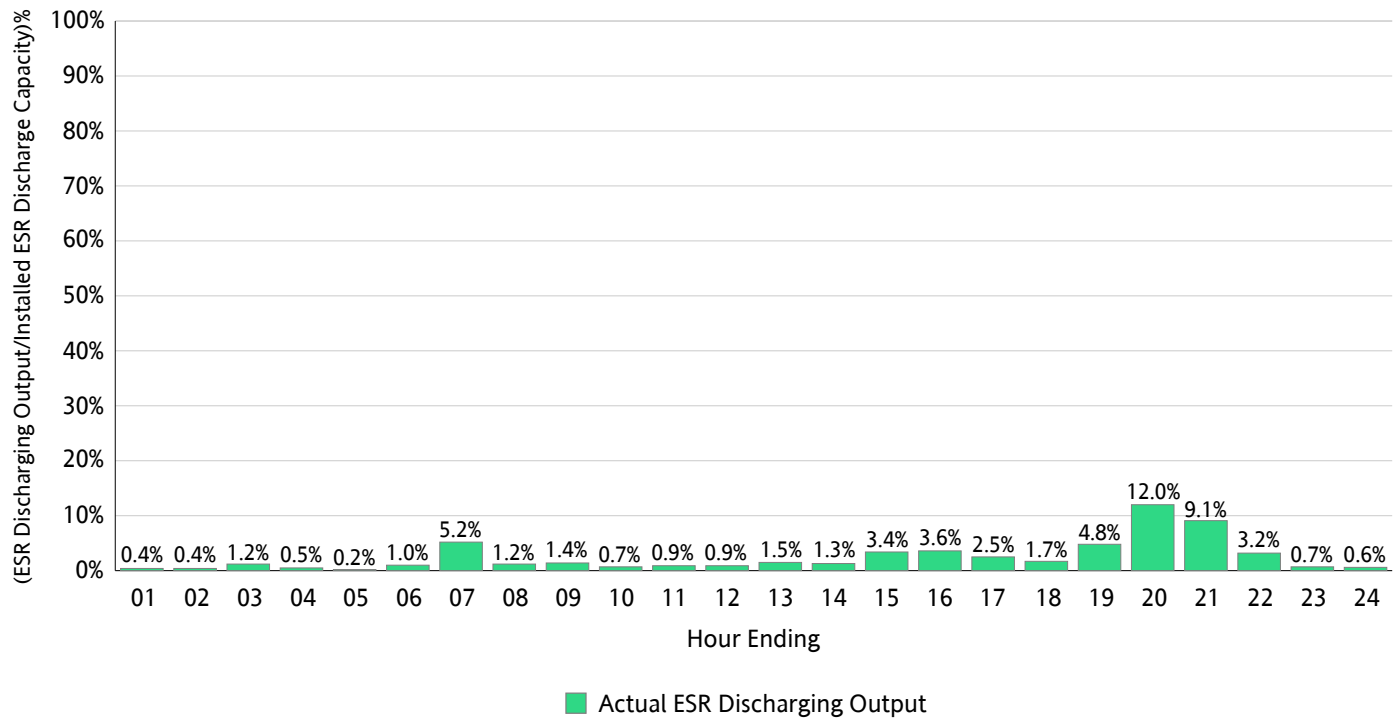
Note that generation, generation record, and generator capacity values in following pages of this report are based on units modeled in ERCOT's network operations model.

# Hourly Average Actual Load vs. Actual ESR Output

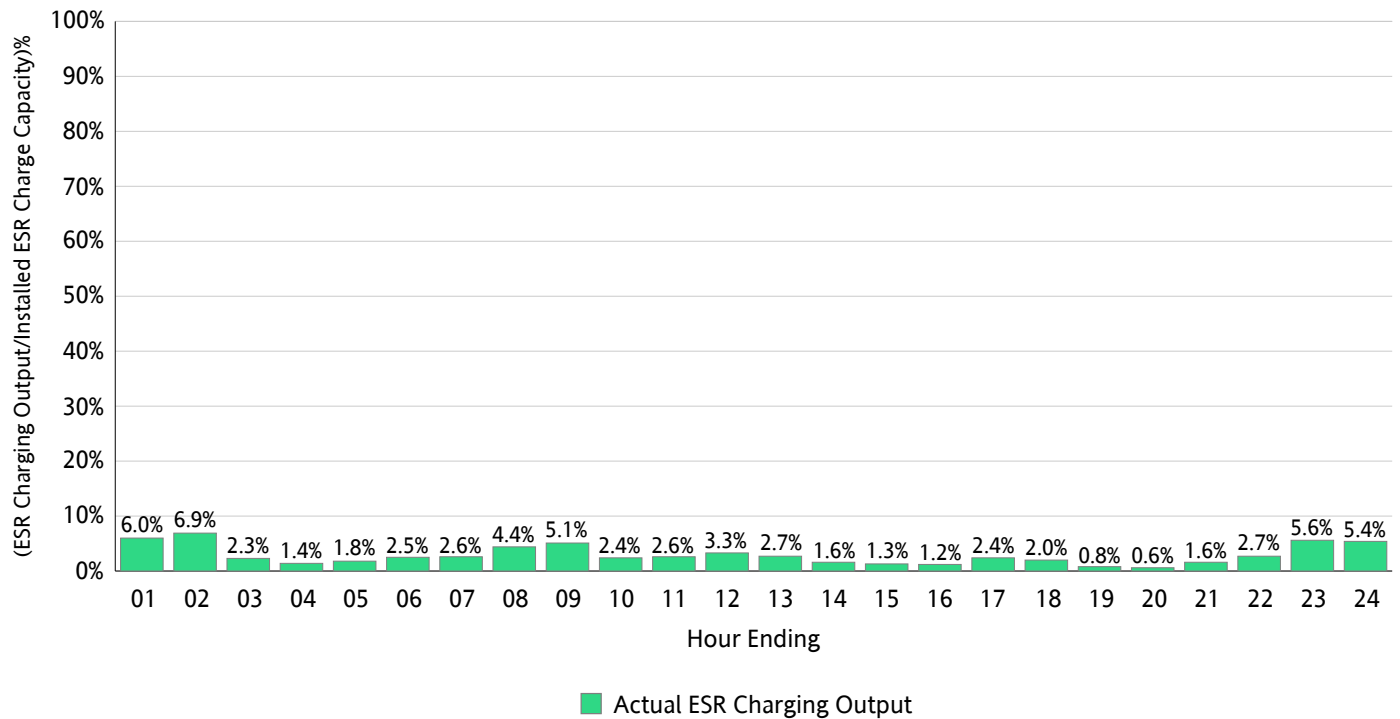
05/14/2024



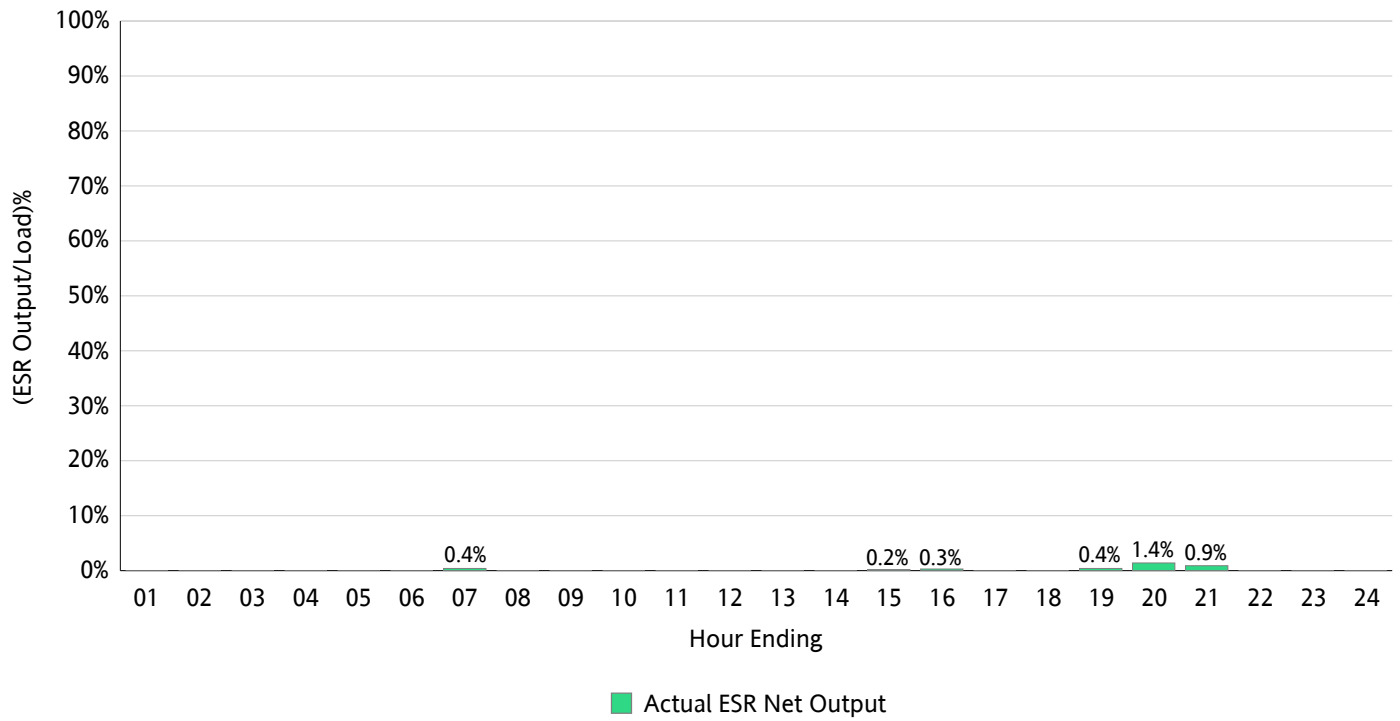
## Actual ESR Discharging Output as a Percentage of Total Installed ESR Discharge Capacity 05/14/2024



## Actual ESR Charging Output as a Percentage of Total Installed ESR Charge Capacity 05/14/2024



## Actual ESR Net Output as a Percentage of ERCOT Load 05/14/2024



ERCOT Load vs. Actual ESR Net Output  
05/07/2024 - 05/14/2024

