



## ERCOT Grid Operations

### ESR Integration Report : 05/22/2024

#### Current Daily Values:

Installed ESR Discharge Capacity*	7,560 MW
Total ESR Discharge Capacity**	8,639 MW
Installed ESR Charge Capacity+	8,591 MW
Total ESR Charge Capacity++	8,591 MW

Peak Load	67,984 MW
Peak Load Hour (HE)	17
ESR Discharge at Peak Load Hour	233 MW
ESR Charge at Peak Load Hour	361 MW
ESR Net Charge/Discharge at Peak Load Hour^	-128 MW

Max ESR Discharge Generation	1,275 MW
Max ESR Discharge Time	19:49
Penetration at Max ESR Discharge Time	2.05%

Max ESR Charge Load	1,358 MW
Max ESR Charge Time	09:14
Penetration at Max ESR Charge Time	2.35%

Max ESR Discharge Penetration	2.06%
Max ESR Discharge Penetration Time	20:28
ESR Discharge Generation at Max ESR Discharge Penetration Time	1,251 MW

Max ESR Charge Penetration	2.35%
Max ESR Charge Penetration Time	09:14
ESR Charge Load at Max ESR Charge Penetration Time	1,358 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).

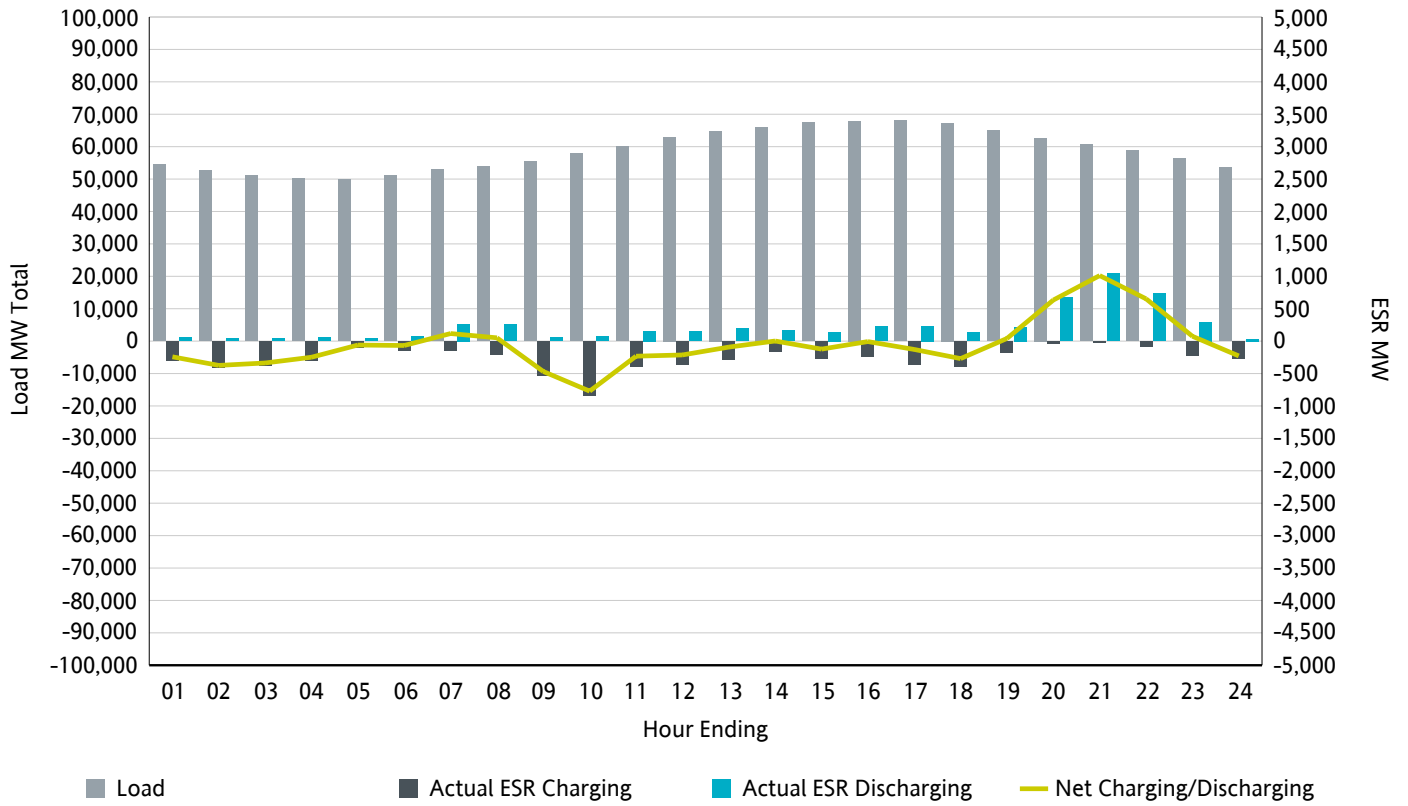
++ Sum of maximum capacity (i.e. maximum point of delivery total load in R100) of all ESR CLR's that are modeled in ERCOT's network operations model.

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

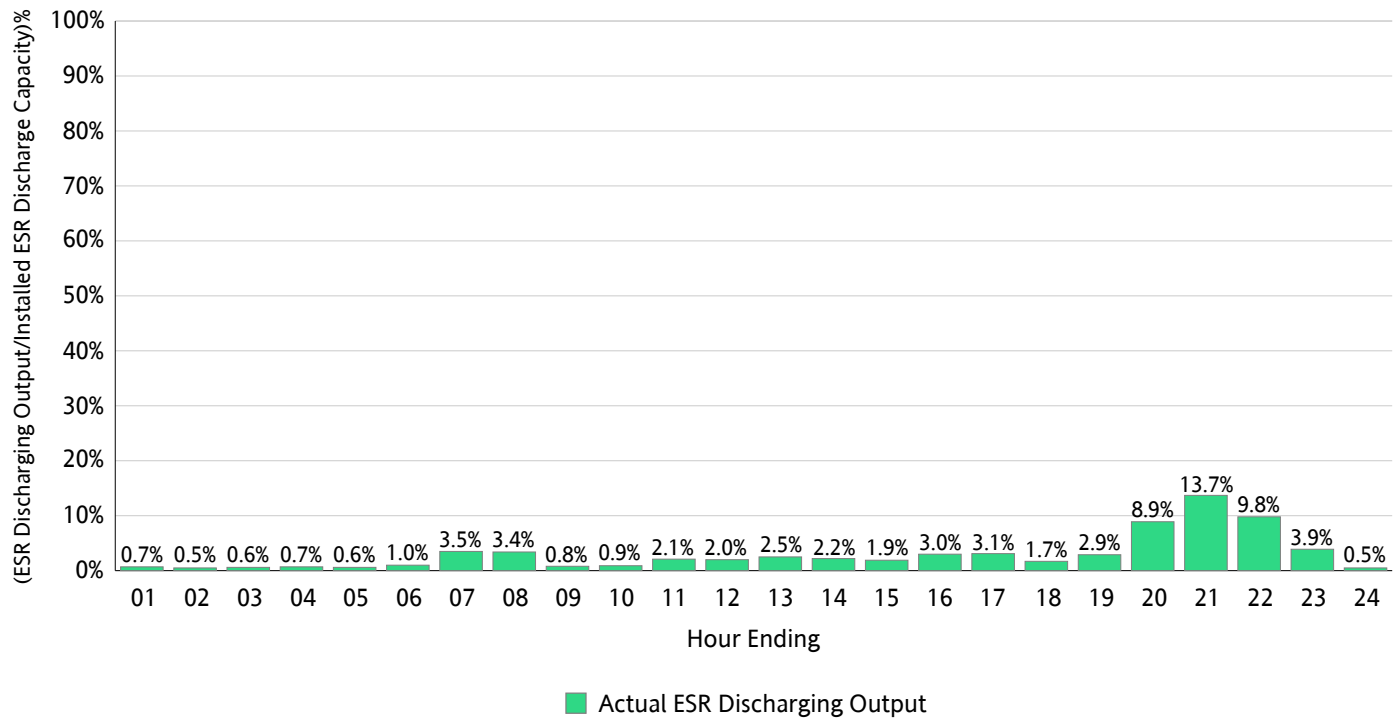
Note that generation, generation record, and generator capacity values in following pages of this report are based on units modeled in ERCOT's network operations model.

## Hourly Average Actual Load vs. Actual ESR Output

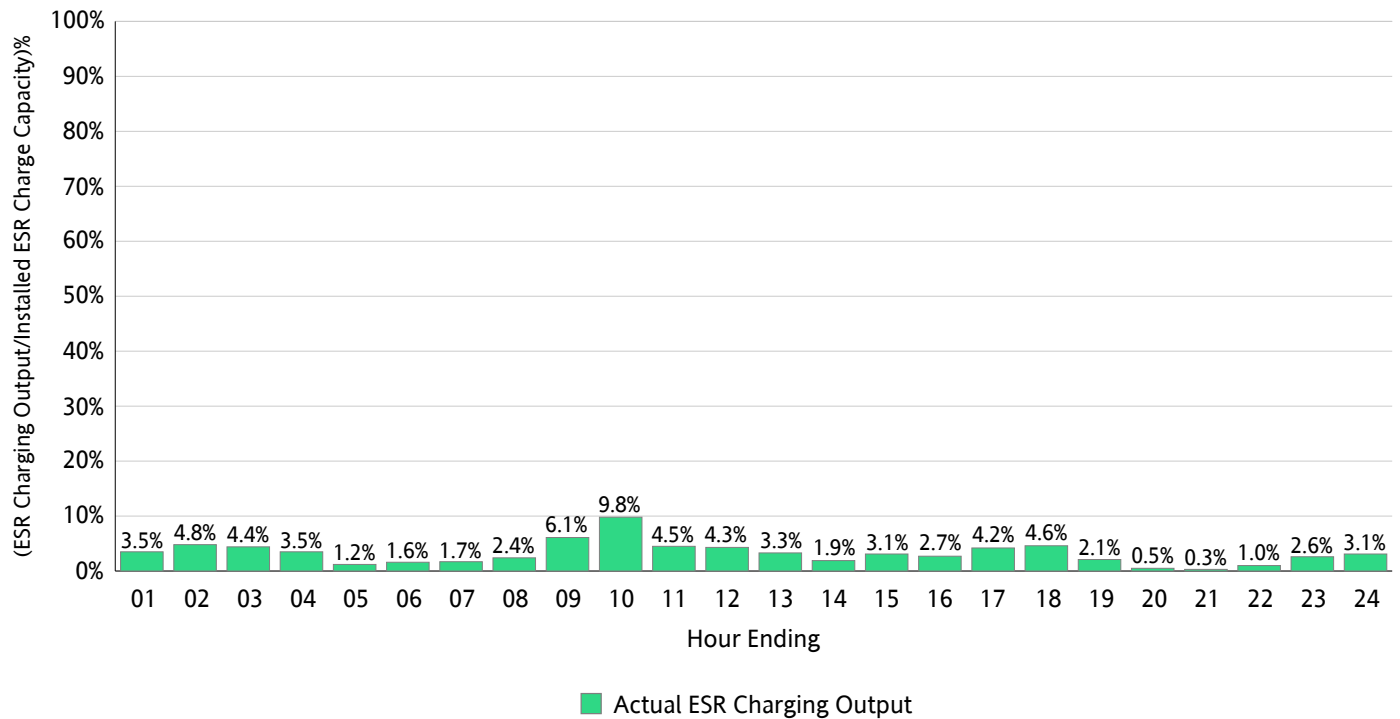
05/22/2024



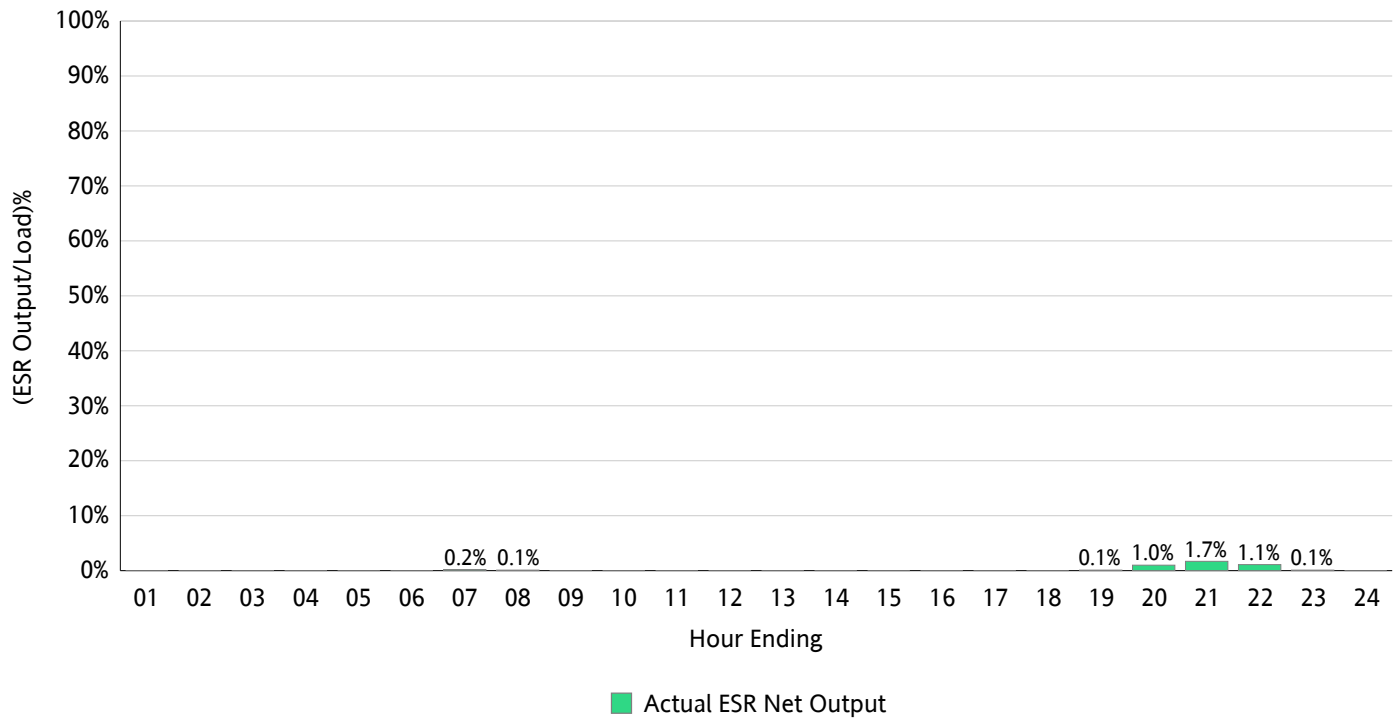
## Actual ESR Discharging Output as a Percentage of Total Installed ESR Discharge Capacity 05/22/2024



## Actual ESR Charging Output as a Percentage of Total Installed ESR Charge Capacity 05/22/2024



## Actual ESR Net Output as a Percentage of ERCOT Load 05/22/2024



ERCOT Load vs. Actual ESR Net Output  
05/15/2024 - 05/22/2024

