



## ERCOT Grid Operations

### ESR Integration Report : 07/20/2024

#### Current Daily Values:

Installed ESR Discharge Capacity*	8,025 MW
Total ESR Discharge Capacity**	9,308 MW
Installed ESR Charge Capacity+	9,253 MW
Total ESR Charge Capacity++	9,253 MW

Peak Load	73,106 MW
Peak Load Hour (HE)	18
ESR Discharge at Peak Load Hour	46 MW
ESR Charge at Peak Load Hour	233 MW
ESR Net Charge/Discharge at Peak Load Hour^	-187 MW

Max ESR Discharge Generation	691 MW
Max ESR Discharge Time	20:26
Penetration at Max ESR Discharge Time	1.04%

Max ESR Charge Load	866 MW
Max ESR Charge Time	01:55
Penetration at Max ESR Charge Time	1.69%

Max ESR Discharge Penetration	1.08%
Max ESR Discharge Penetration Time	06:08
ESR Discharge Generation at Max ESR Discharge Penetration Time	505 MW

Max ESR Charge Penetration	1.70%
Max ESR Charge Penetration Time	03:10
ESR Charge Load at Max ESR Charge Penetration Time	834 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).

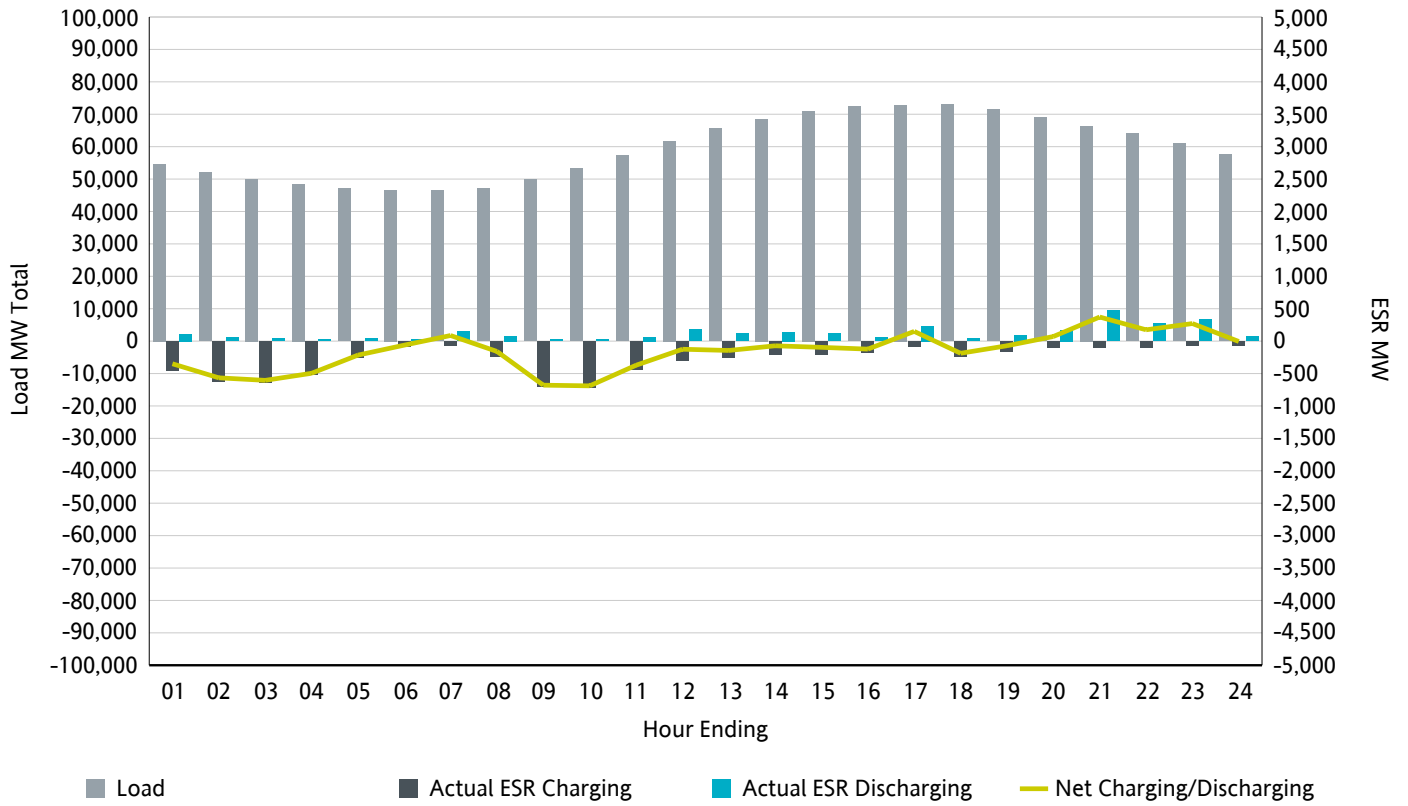
++ Sum of maximum capacity (i.e. maximum point of delivery total load in R100) of all ESR CLRs that are modeled in ERCOT's network operations model.

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

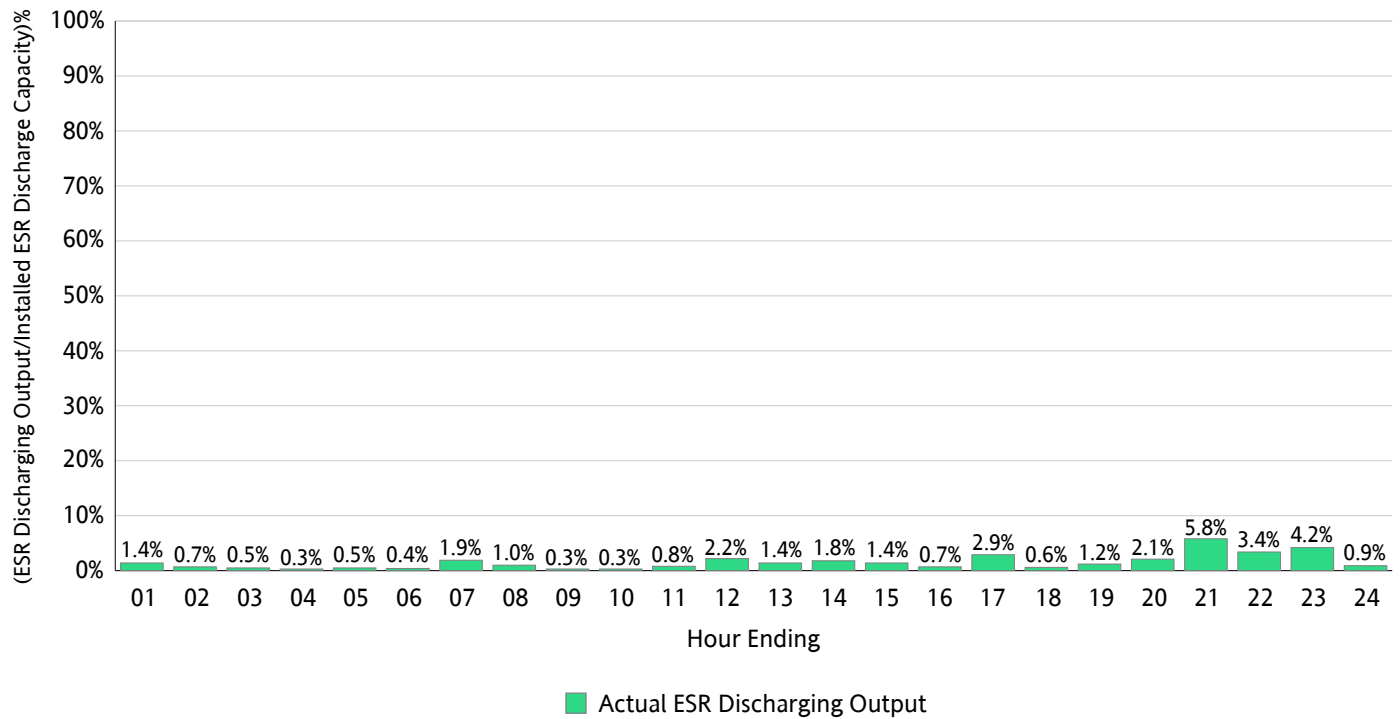
Note that generation, generation record, and generator capacity values in following pages of this report are based on units modeled in ERCOT's network operations model.

## Hourly Average Actual Load vs. Actual ESR Output

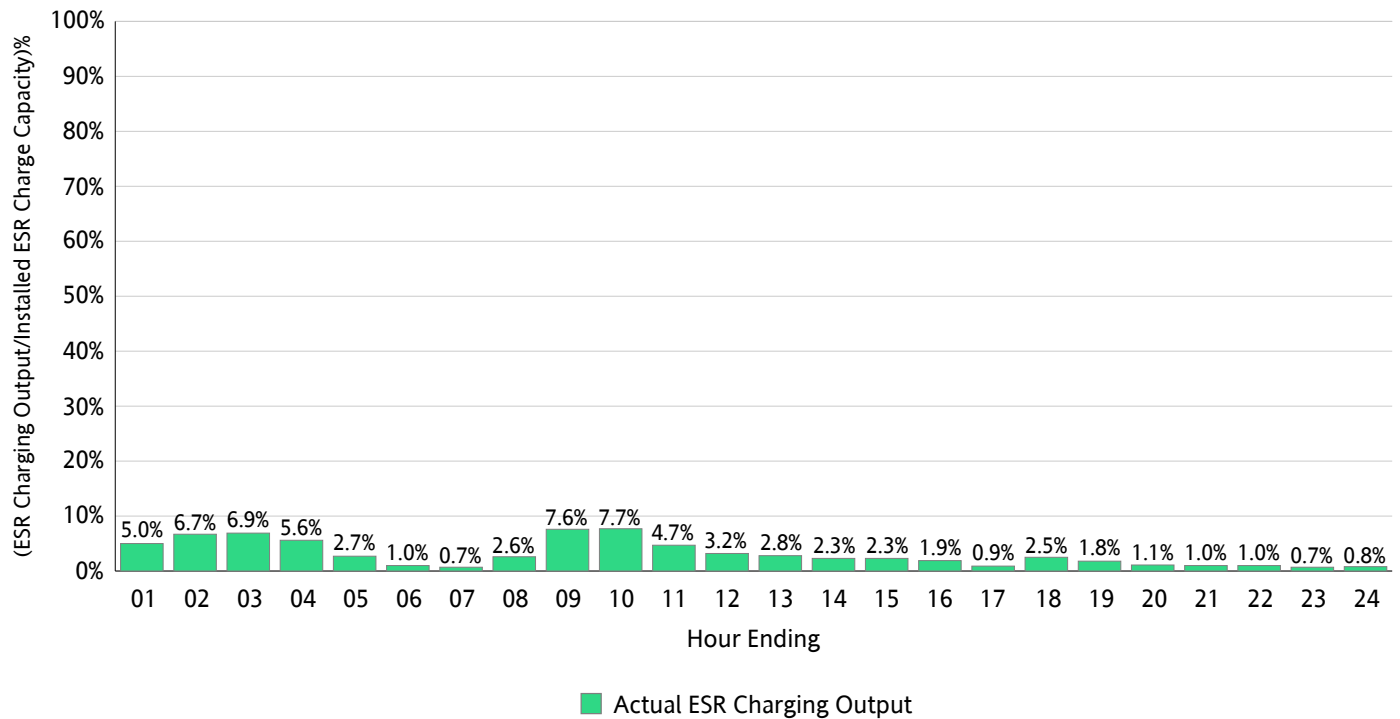
07/20/2024



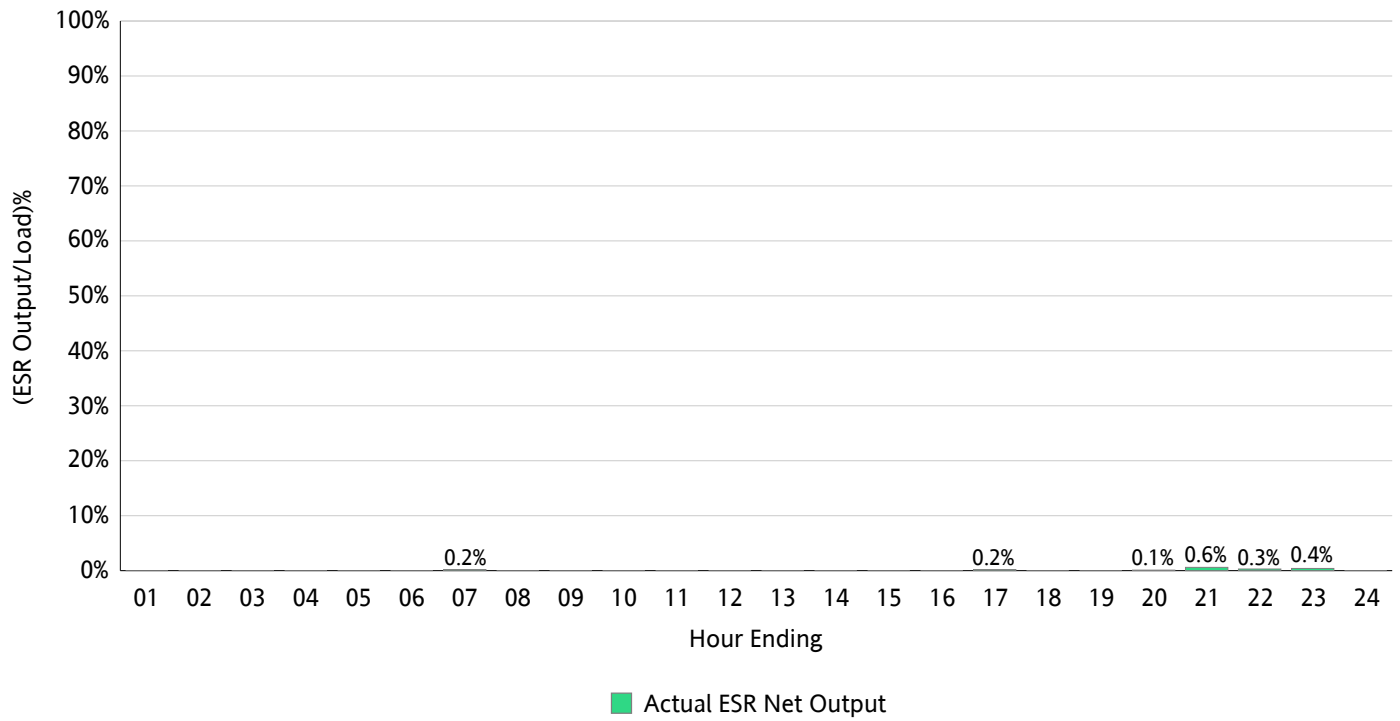
## Actual ESR Discharging Output as a Percentage of Total Installed ESR Discharge Capacity 07/20/2024



## Actual ESR Charging Output as a Percentage of Total Installed ESR Charge Capacity 07/20/2024



## Actual ESR Net Output as a Percentage of ERCOT Load 07/20/2024



ERCOT Load vs. Actual ESR Net Output  
07/13/2024 - 07/20/2024

