



## ERCOT Grid Operations

### ESR Integration Report : 05/25/2024

#### Current Daily Values:

|                                   |          |
|-----------------------------------|----------|
| Installed ESR Discharge Capacity* | 7,620 MW |
| Total ESR Discharge Capacity**    | 8,639 MW |
| Installed ESR Charge Capacity+    | 8,591 MW |
| Total ESR Charge Capacity++       | 8,591 MW |

|   |           |
|---|-----------|
| Peak Load                                   | 73,748 MW |
| Peak Load Hour (HE)                         | 17        |
| ESR Discharge at Peak Load Hour             | 323 MW    |
| ESR Charge at Peak Load Hour                | 179 MW    |
| ESR Net Charge/Discharge at Peak Load Hour^ | 144 MW    |

|                                       |          |
|---------------------------------------|----------|
| Max ESR Discharge Generation          | 1,168 MW |
| Max ESR Discharge Time                | 20:30    |
| Penetration at Max ESR Discharge Time | 1.77%    |

|                                    |        |
|------------------------------------|--------|
| Max ESR Charge Load                | 661 MW |
| Max ESR Charge Time                | 00:05  |
| Penetration at Max ESR Charge Time | 1.20%  |

|  |          |
|--|----------|
| Max ESR Discharge Penetration                                  | 1.77%    |
| Max ESR Discharge Penetration Time                             | 20:30    |
| ESR Discharge Generation at Max ESR Discharge Penetration Time | 1,168 MW |

|  |        |
|--|--------|
| Max ESR Charge Penetration                         | 1.32%  |
| Max ESR Charge Penetration Time                    | 03:14  |
| ESR Charge Load at Max ESR Charge Penetration Time | 641 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 CLR's that are modeled in ERCOT's network operations model and are commercially operable (estimated based on Commercial Operations Date in RIOO).

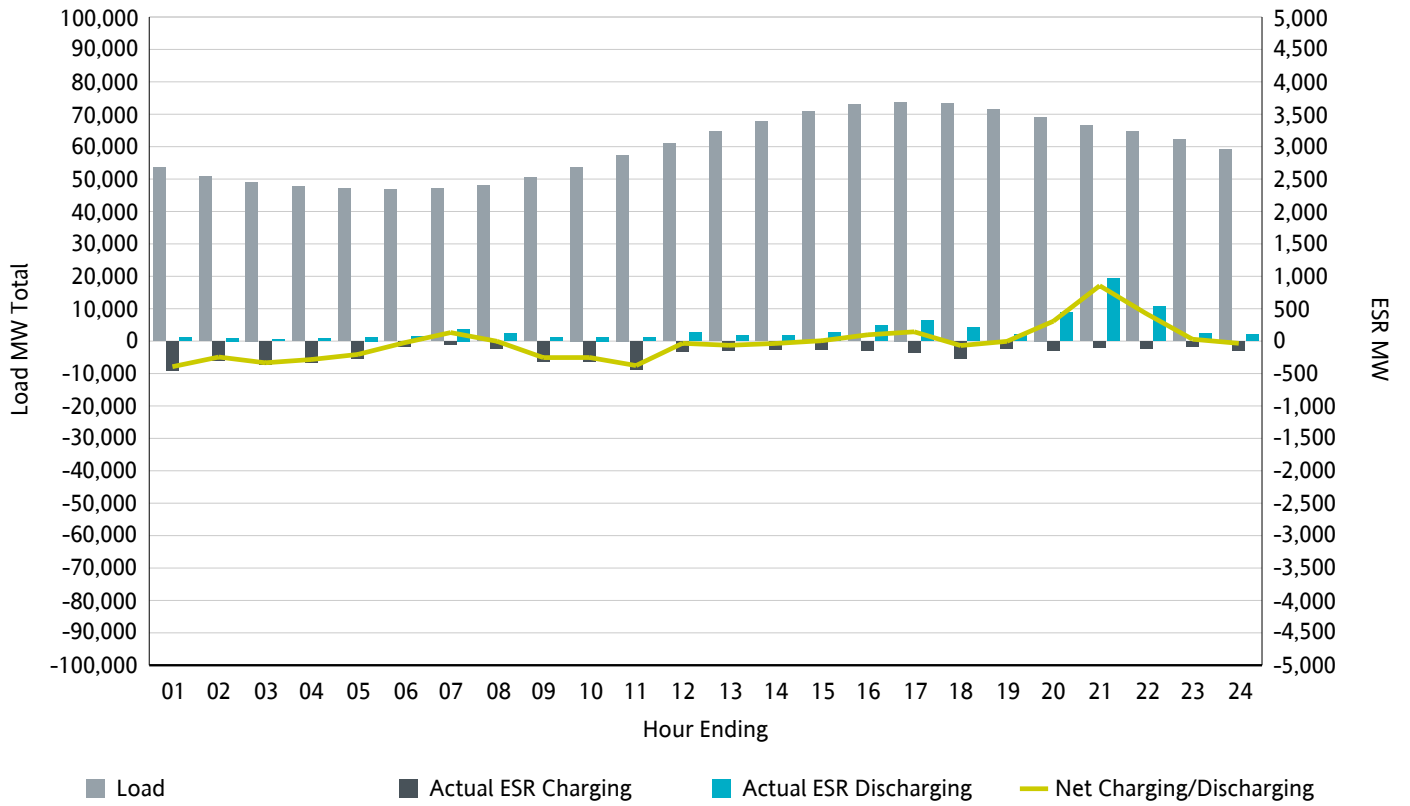
++ Sum of maximum capacity (i.e. maximum point of delivery total load in RIOO) of all ESR CLR's that are modeled in ERCOT's network operations model.

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

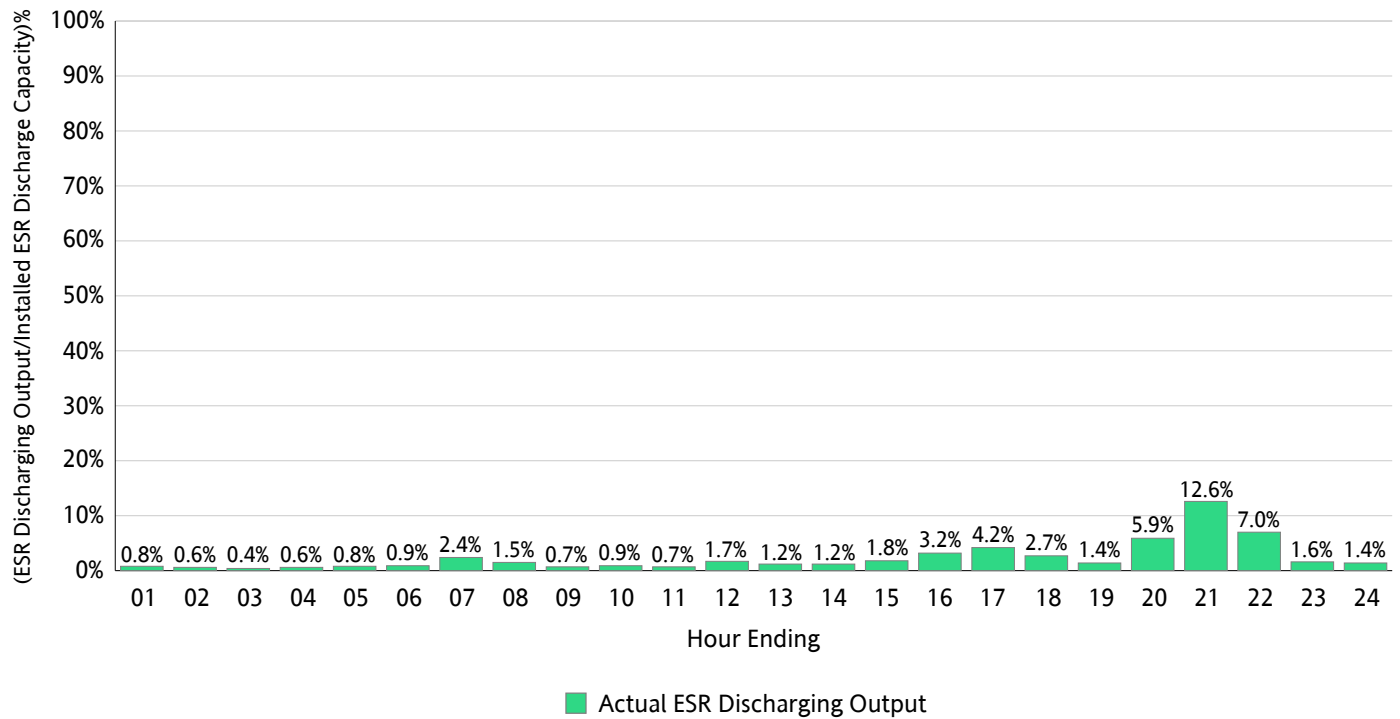
Note that generation, generation record, and generator capacity values in following pages of this report are based on units modeled in ERCOT's network operations model.

# Hourly Average Actual Load vs. Actual ESR Output

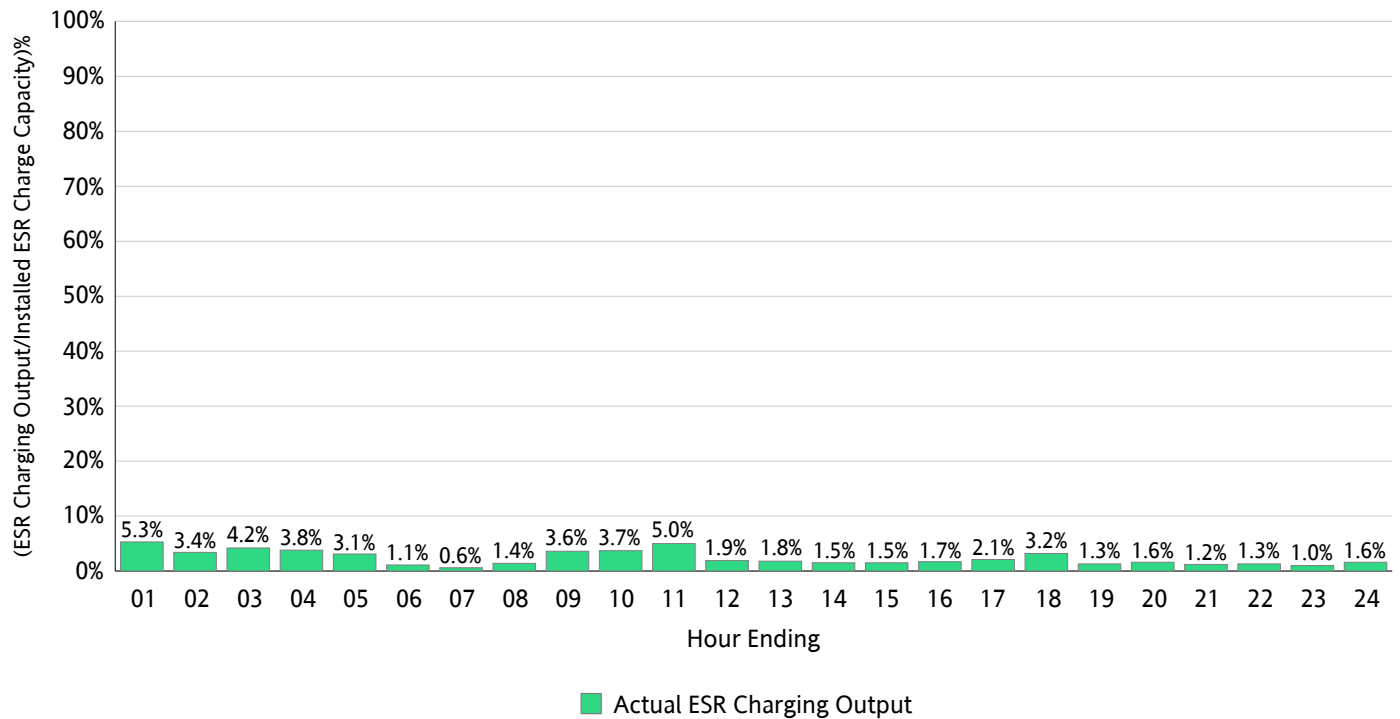
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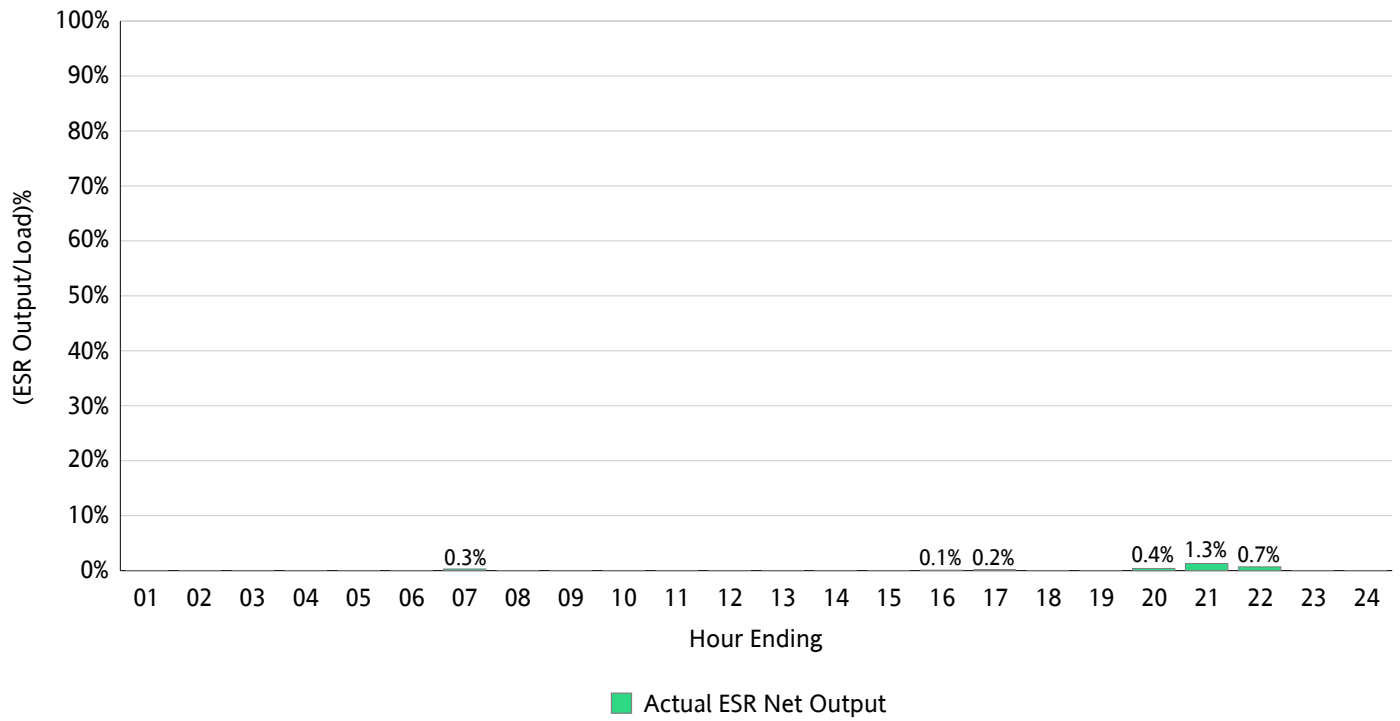
## Actual ESR Discharging Output as a Percentage of Total Installed ESR Discharge Capacity 05/25/2024



## Actual ESR Charging Output as a Percentage of Total Installed ESR Charge Capacity 05/25/2024



## Actual ESR Net Output as a Percentage of ERCOT Load 05/25/2024



ERCOT Load vs. Actual ESR Net Output  
05/18/2024 - 05/25/2024

