



## ERCOT Grid Operations

### ESR Integration Report : 09/11/2024

#### Current Daily Values:

|                                   |           |
|-----------------------------------|-----------|
| Installed ESR Discharge Capacity* | 8,689 MW  |
| Total ESR Discharge Capacity**    | 10,044 MW |
| Installed ESR Charge Capacity+    | 9,971 MW  |
| Total ESR Charge Capacity++       | 9,971 MW  |

|   |           |
|---|-----------|
| Peak Load                                   | 65,751 MW |
| Peak Load Hour (HE)                         | 18        |
| ESR Discharge at Peak Load Hour             | 204 MW    |
| ESR Charge at Peak Load Hour                | 448 MW    |
| ESR Net Charge/Discharge at Peak Load Hour^ | -243 MW   |

|                                       |          |
|---------------------------------------|----------|
| Max ESR Discharge Generation          | 2,376 MW |
| Max ESR Discharge Time                | 19:41    |
| Penetration at Max ESR Discharge Time | 3.81%    |

|                                    |          |
|------------------------------------|----------|
| Max ESR Charge Load                | 1,343 MW |
| Max ESR Charge Time                | 10:34    |
| Penetration at Max ESR Charge Time | 2.43%    |

|  |          |
|--|----------|
| Max ESR Discharge Penetration                                  | 3.81%    |
| Max ESR Discharge Penetration Time                             | 19:41    |
| ESR Discharge Generation at Max ESR Discharge Penetration Time | 2,376 MW |

|  |          |
|--|----------|
| Max ESR Charge Penetration                         | 2.43%    |
| Max ESR Charge Penetration Time                    | 10:34    |
| ESR Charge Load at Max ESR Charge Penetration Time | 1,343 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).

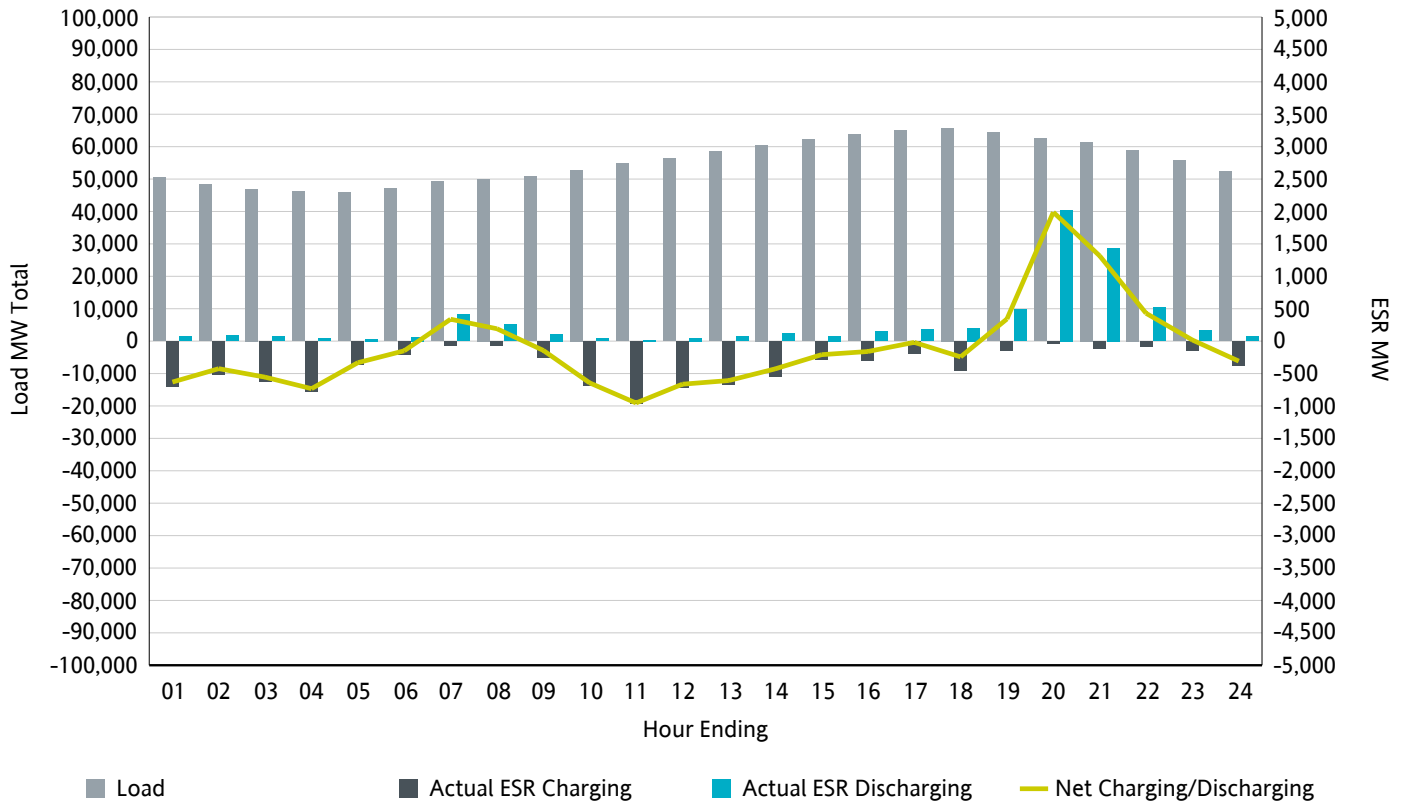
++ Sum of maximum capacity (i.e. maximum point of delivery total load in RIOO) of all ESR CLRs that are modeled in ERCOT's network operations model.

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

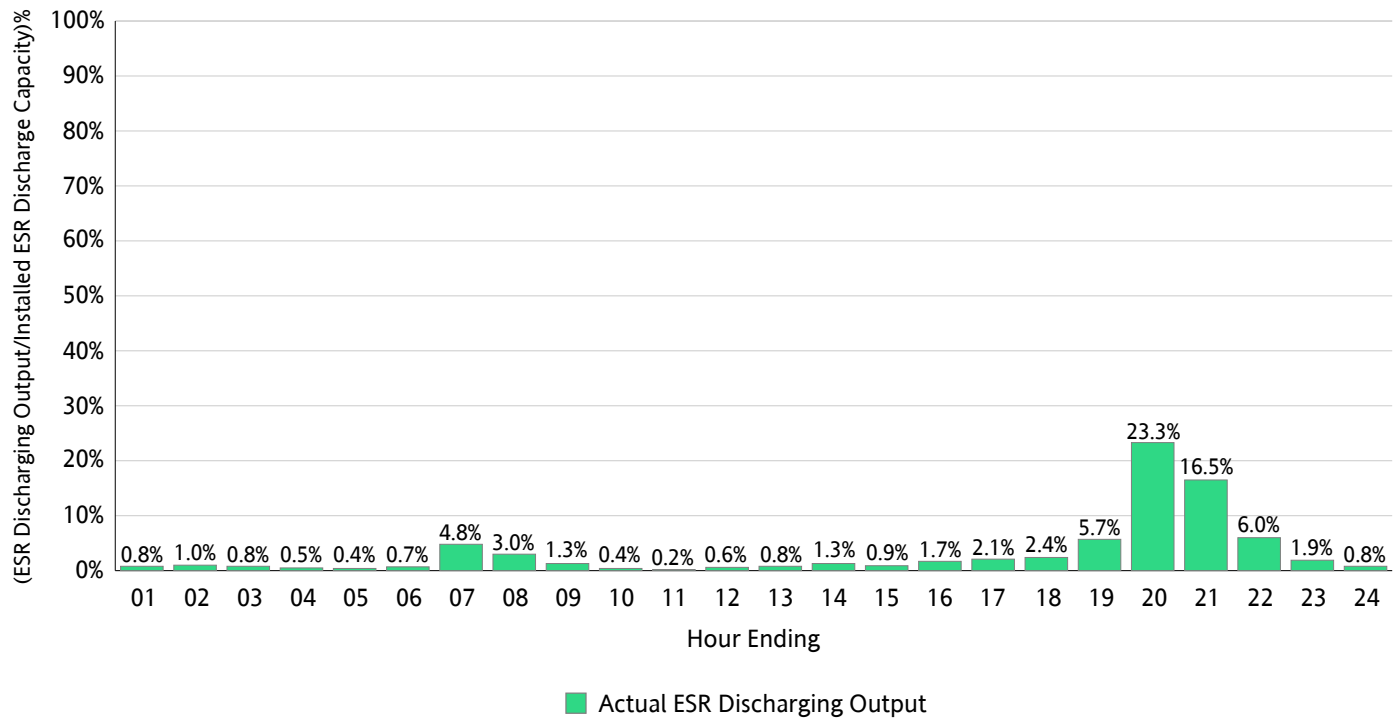
Note that generation, generation record, and generator capacity values in following pages of this report are based on units modeled in ERCOT's network operations model.

# Hourly Average Actual Load vs. Actual ESR Output

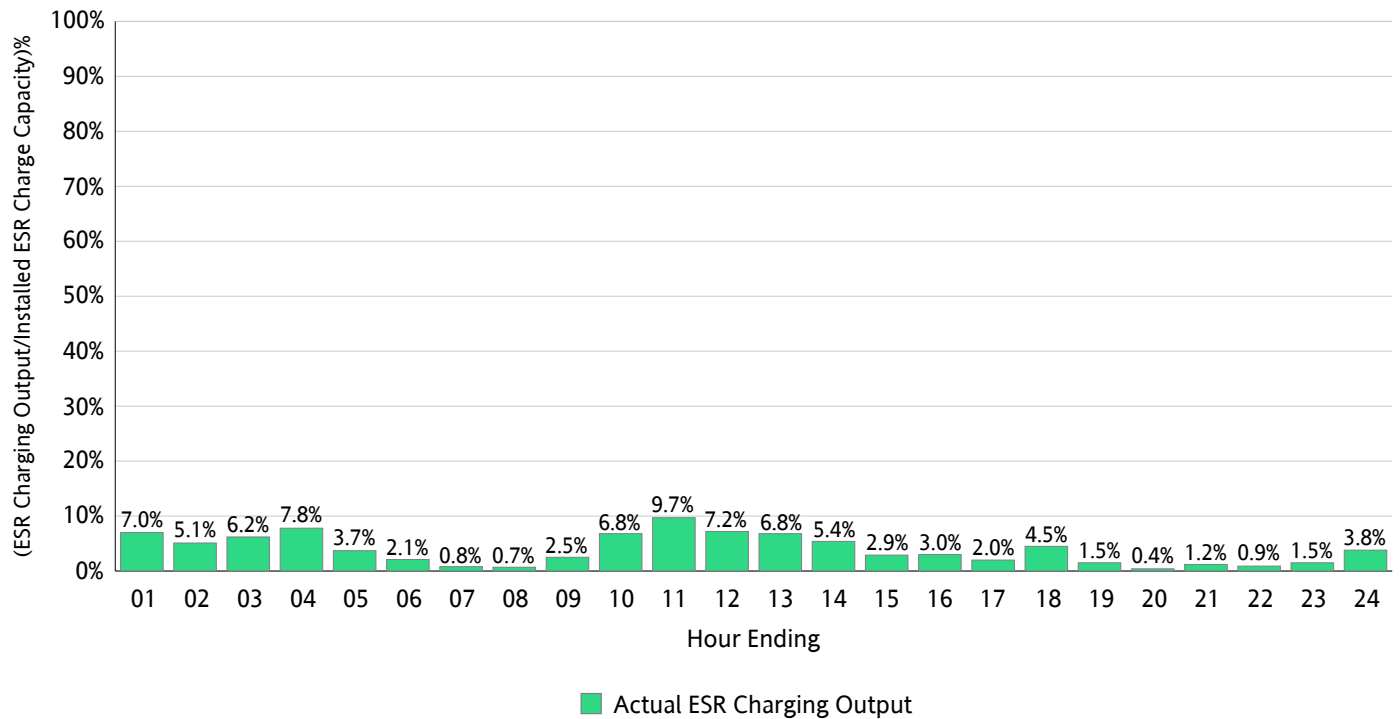
09/11/2024



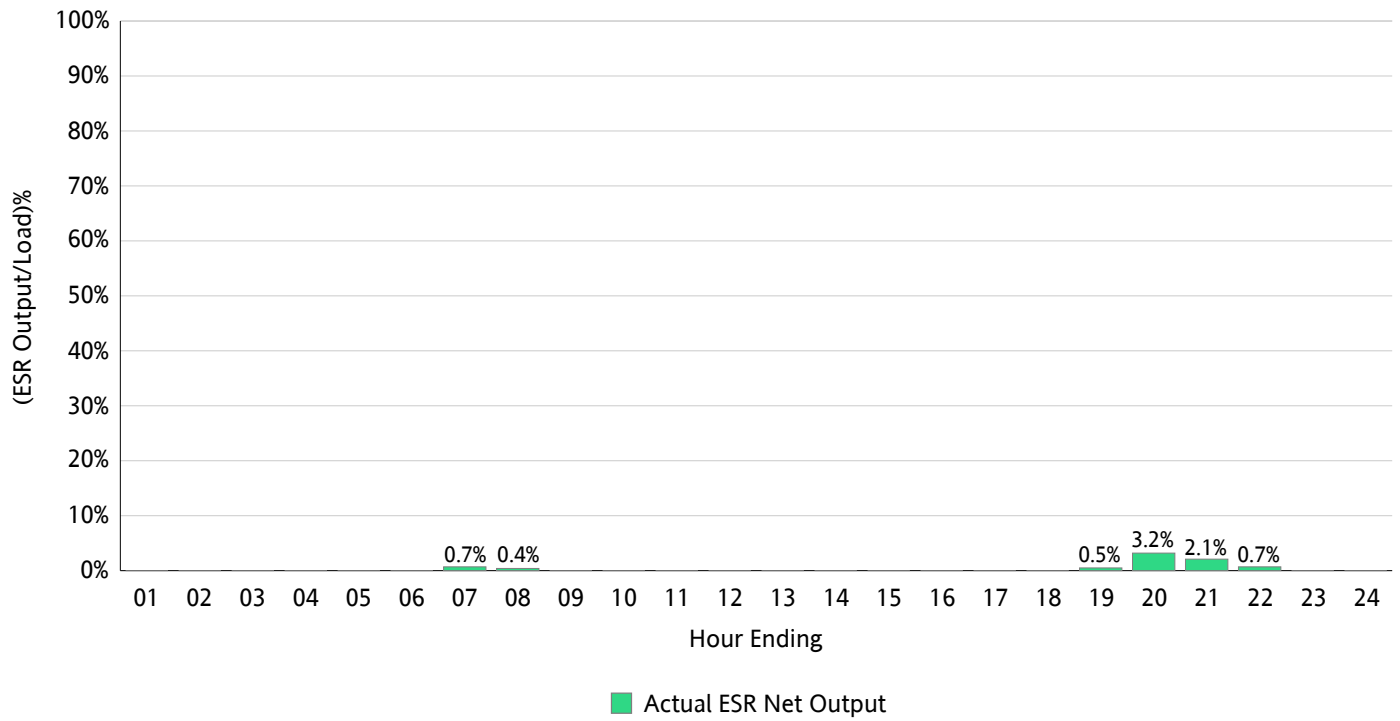
## Actual ESR Discharging Output as a Percentage of Total Installed ESR Discharge Capacity 09/11/2024



## Actual ESR Charging Output as a Percentage of Total Installed ESR Charge Capacity 09/11/2024



## Actual ESR Net Output as a Percentage of ERCOT Load 09/11/2024



ERCOT Load vs. Actual ESR Net Output  
09/04/2024 - 09/11/2024

