ERCOT Grid Operations

ESR Integration Report : 03/27/2024

Current Daily Values:

Installed ESR Discharge Capacity*	6,860 MW
Total ESR Discharge Capacity**	7,871 MW
Installed ESR Charge Capacity+	7,822 MW
Total ESR Charge Capacity++	7,822 MW

Peak Load	46,592 MW
Peak Load Hour (HE)	8
ESR Discharge at Peak Load Hour	724 MW
ESR Charge at Peak Load Hour	48 MW
ESR Net Charge/Discharge at Peak Load Hour^	676 MW

Max ESR Discharge Generation	1,092 MW
Max ESR Discharge Time	07:15
Penetration at Max ESR Discharge Time	2.34%

Max ESR Charge Load	850 MW
Max ESR Charge Time	13:30
Penetration at Max ESR Charge Time	1.92%

Max ESR Discharge Penetration	2.34%
Max ESR Discharge Penetration Time	07:15
ESR Discharge Generation at Max ESR Discharge Penetration Time	1,092 MW

Max ESR Charge Penetration	1.92%
Max ESR Charge Penetration Time	13:30
ESR Charge Load at Max ESR Charge Penetration Time	850 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).

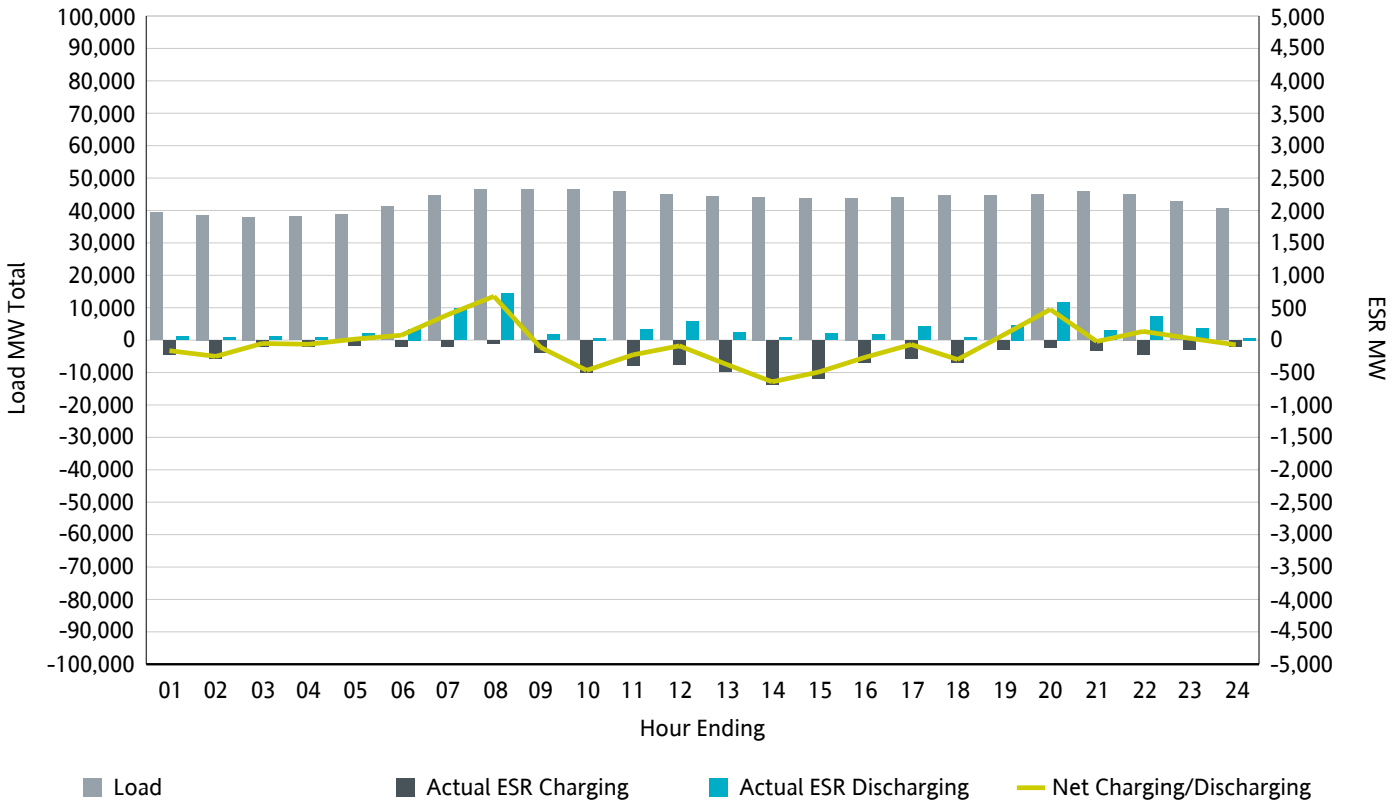
++ Sum of maximum capacity (i.e. maximum point of delivery total load in RIOO) of all ESR CLRs that are modeled in ERCOT's network operations model.

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

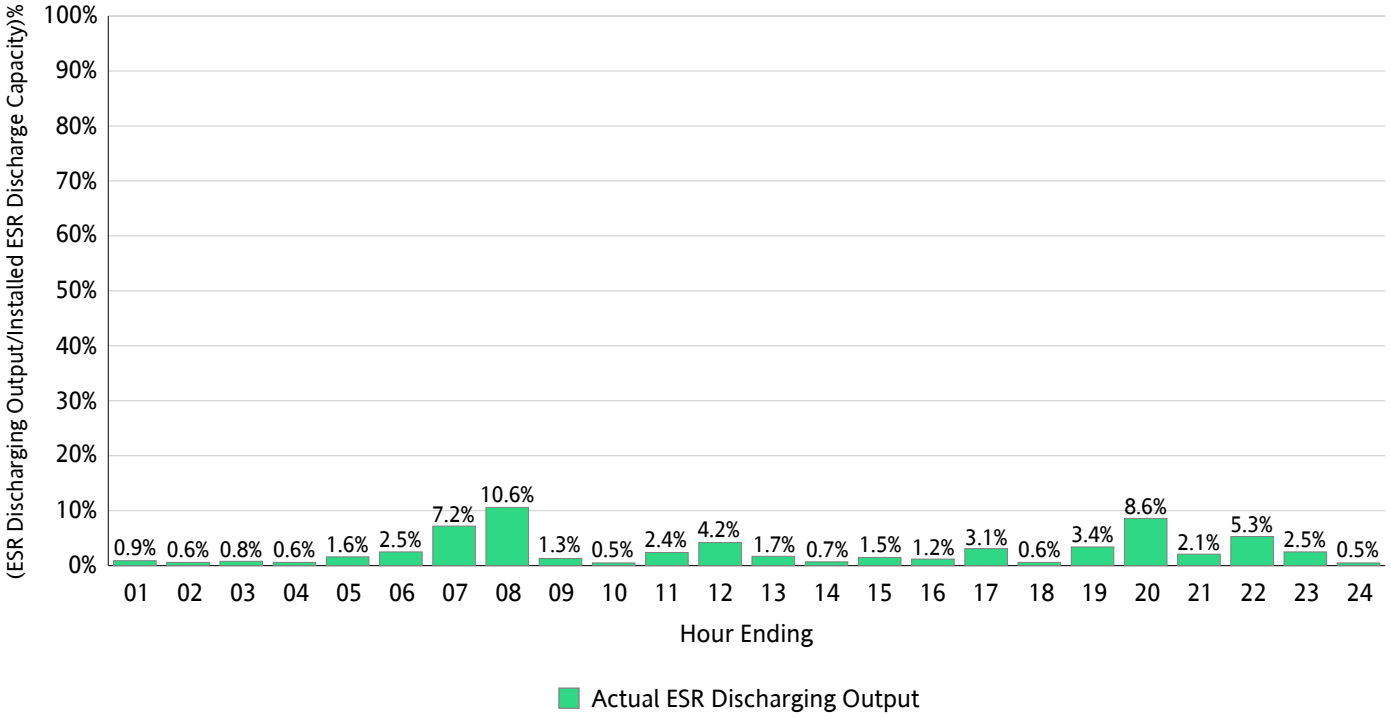
Note that generation, generation record, and generator capacity values in following pages of this report are based on units modeled in ERCOT's network operations model.

Hourly Average Actual Load vs. Actual ESR Output

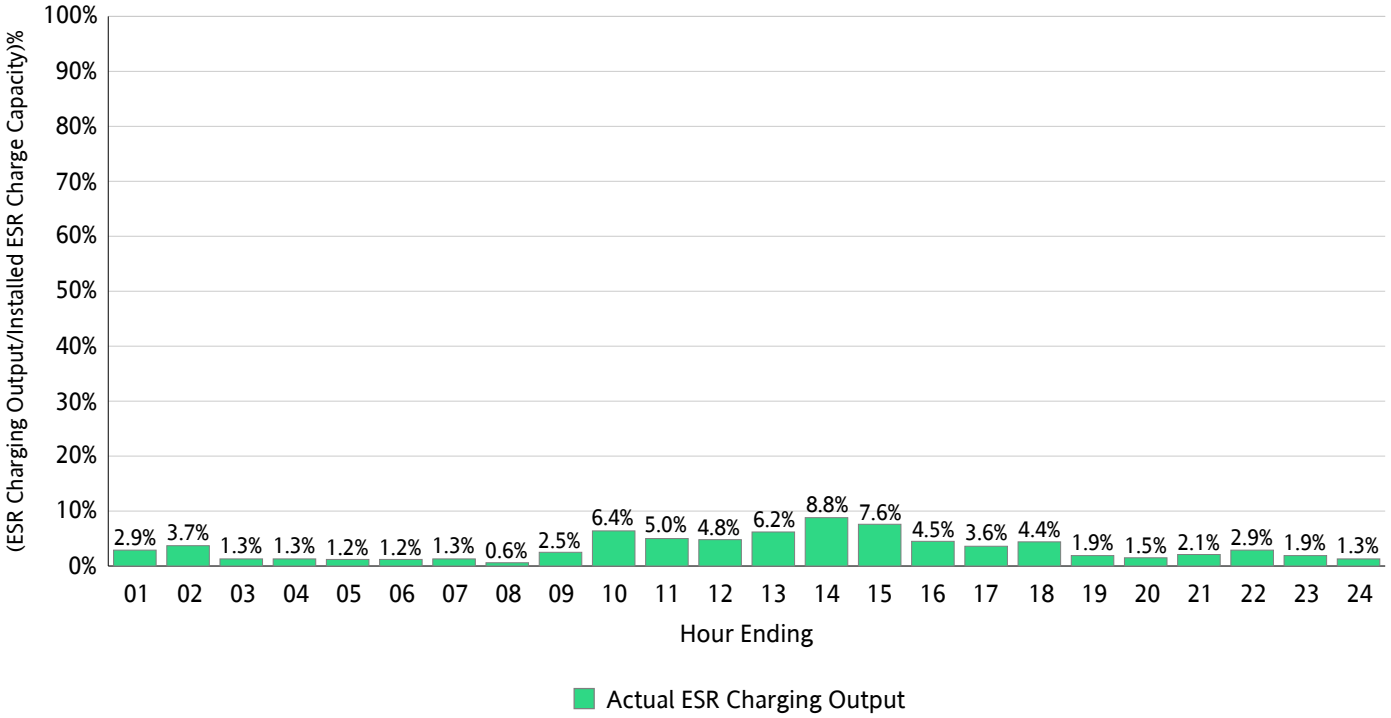
03/27/2024

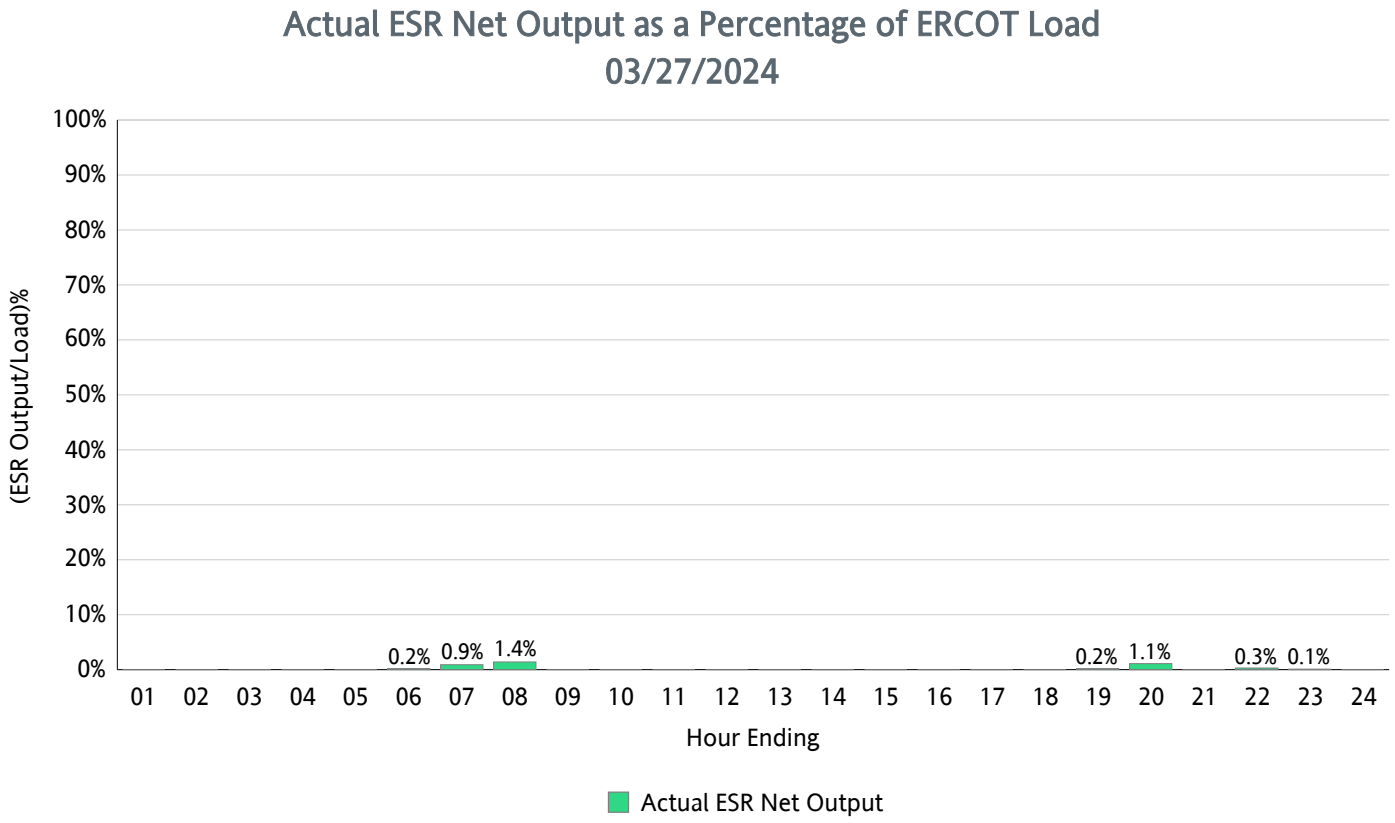


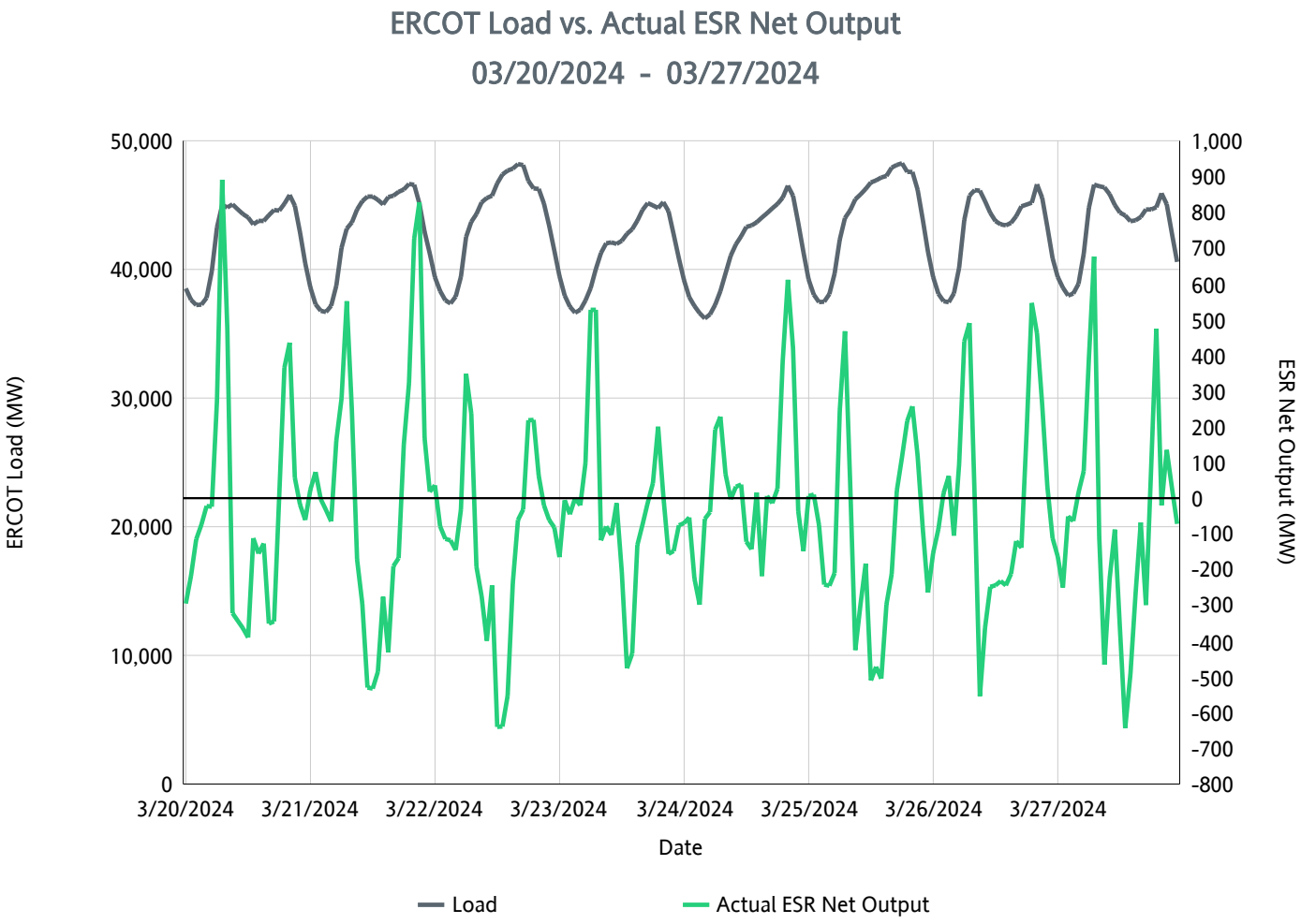
Actual ESR Discharging Output as a Percentage of Total Installed ESR Discharge Capacity
03/27/2024



Actual ESR Charging Output as a Percentage of Total Installed ESR Charge Capacity
03/27/2024




Actual ESR Net Output as a Percentage of ERCOT Load
03/27/2024
(ESR Output/Load)%
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
0.2%
0.9%
1.4%
0.2%
1.1%
0.3%
0.1%
01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Hour Ending
Actual ESR Net Output


ERCOT Load vs. Actual ESR Net Output
03/20/2024 - 03/27/2024
ERCOT Load (MW)
ESR Net Output (MW)
50,000
40,000
30,000
20,000
10,000
0
1,000
900
800
700
600
500
400
300
200
100
0
-100
-200
-300
-400
-500
-600
-700
-800
3/20/2024
3/21/2024
3/22/2024
3/23/2024
3/24/2024
3/25/2024
3/26/2024
3/27/2024
Date
Load
Actual ESR Net Output