

Hourly, Monthly and Seasonal Loss of Load Distribution in 2023/24 ELCC Model

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Sessions on CIRs for ELCC
Resources

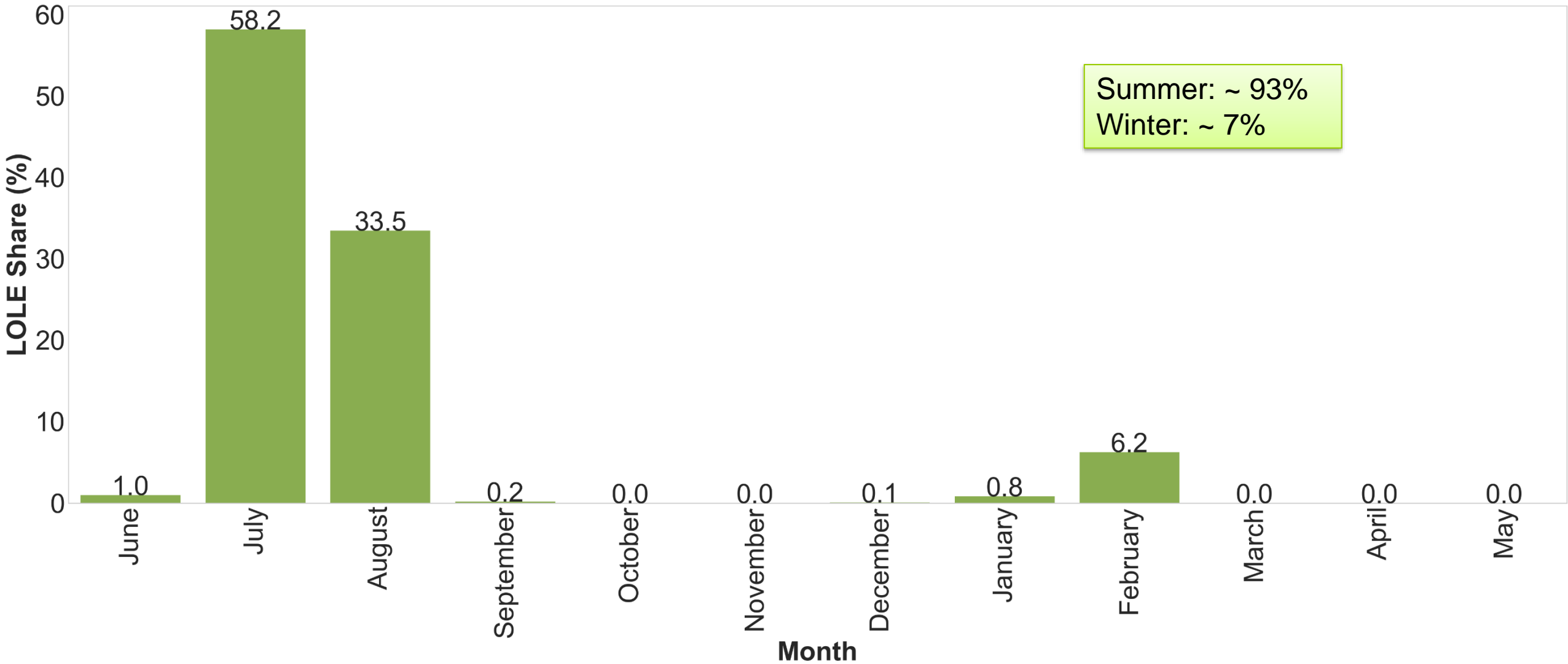


Loss of Load Expectation (LOLE) vs Loss of Load Hours (LOLH)

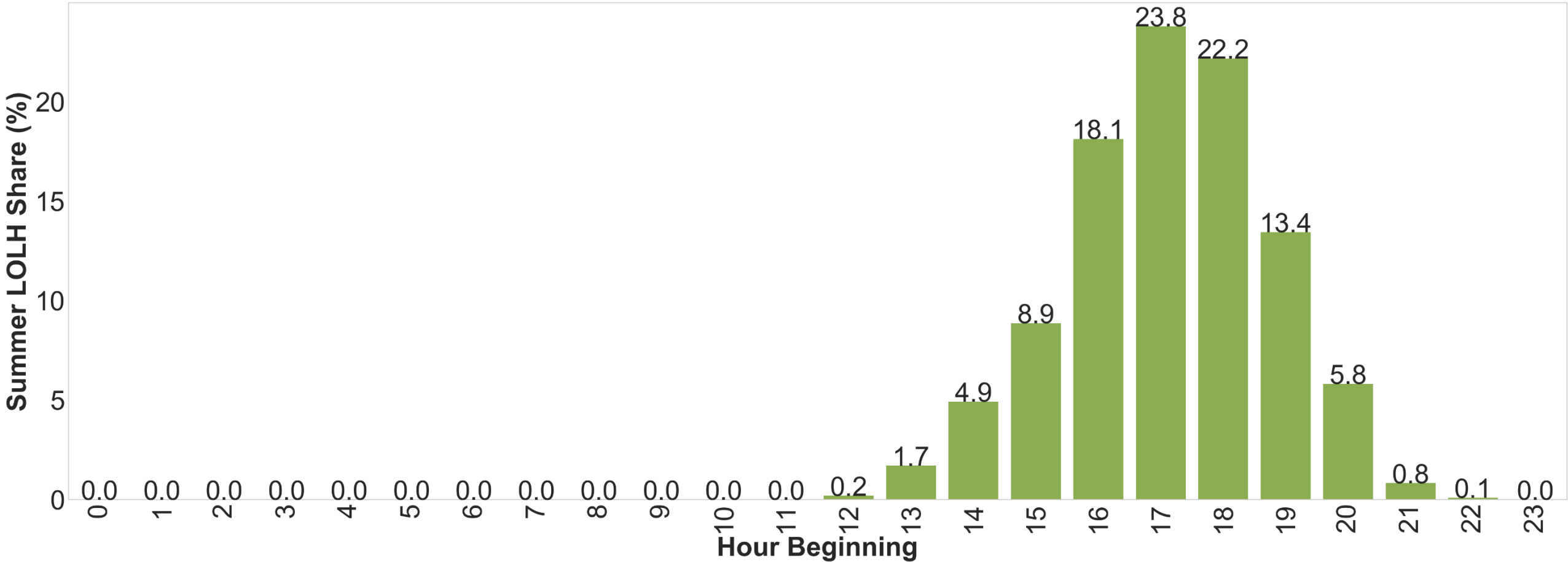
- LOLE and LOLH are two different metrics. LOLE is measured in days/year while LOLH is measured in hours/year
- Therefore, the main difference in the calculation of the two metrics is in the “counting” of loss of load events
- For example, if in a simulated day there were 3 hours with loss of load:
 - For LOLE, such day will count as 1. LOLE is concerned with the existence of loss of load events in a day, not with the number of hours with loss of load.
 - For LOLH, such day will count as 3.

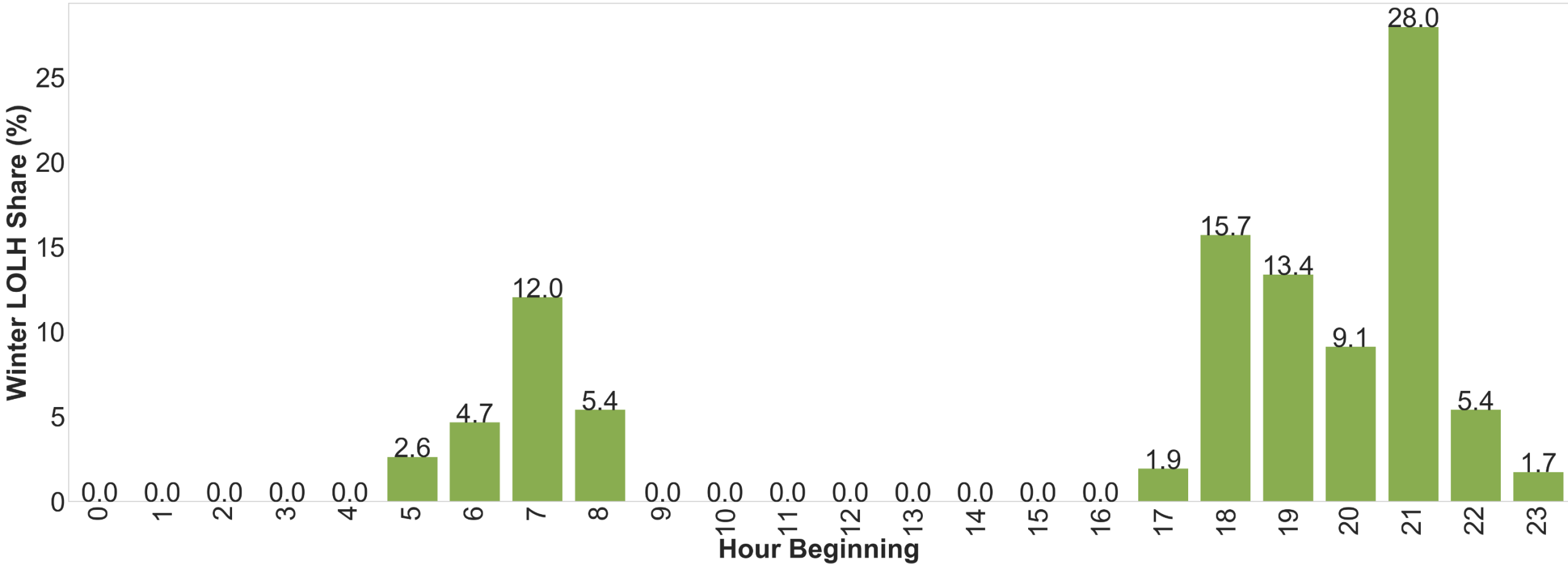
- The LOLE in the 2023/24 ELCC run is 0.1 days/year
- The LOLH in the 2023/24 ELCC run is 0.358 hours/year
- As expected, LOLH is greater than LOLE because in the ELCC model whenever there is a day with Loss of Load such day tends to have more than a single hour with loss of load

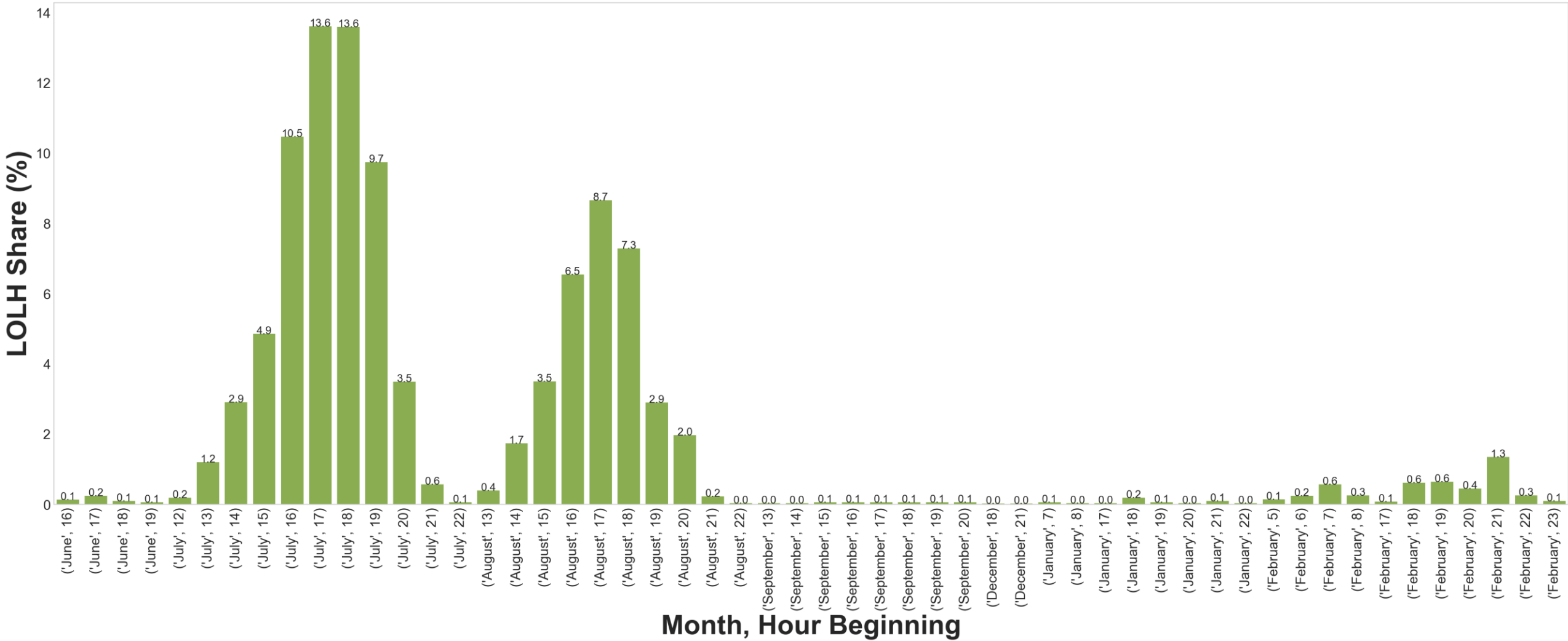
LOLE - Monthly and Seasonal Distribution



LOLH – Hourly Distribution for Summer







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Hourly, Monthly and Seasonal Loss of Load Distribution in 2023/24 ELCC Results



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