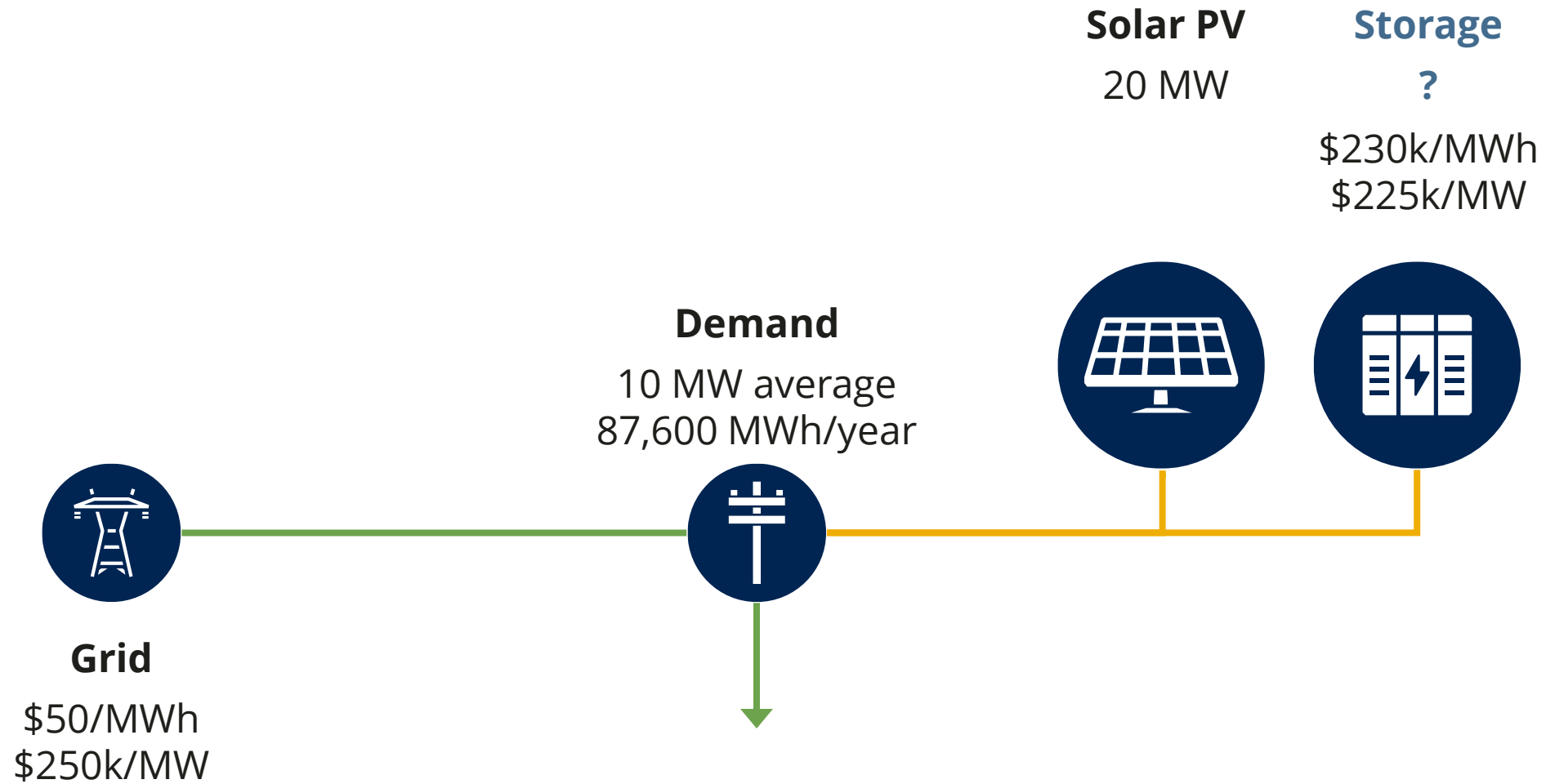


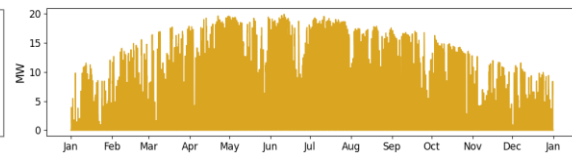
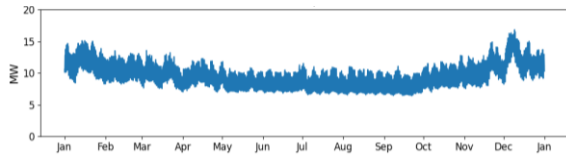


# Decoupling the value of energy storage

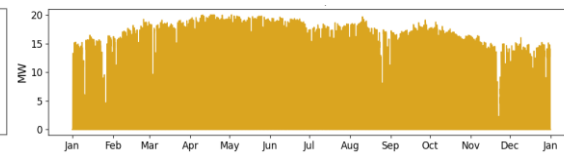
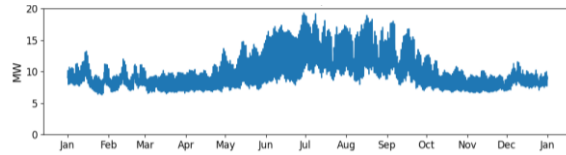
March 27, 2024





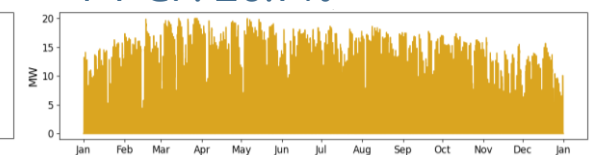
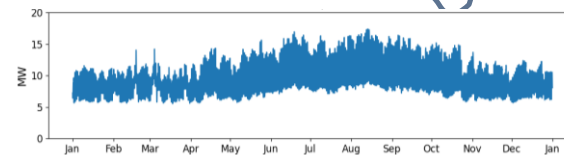


**Seattle** Peak: 16.8 MW  
PV CF: 23.4%



**Phoenix** Peak: 19.3 MW  
PV CF: 32.5%

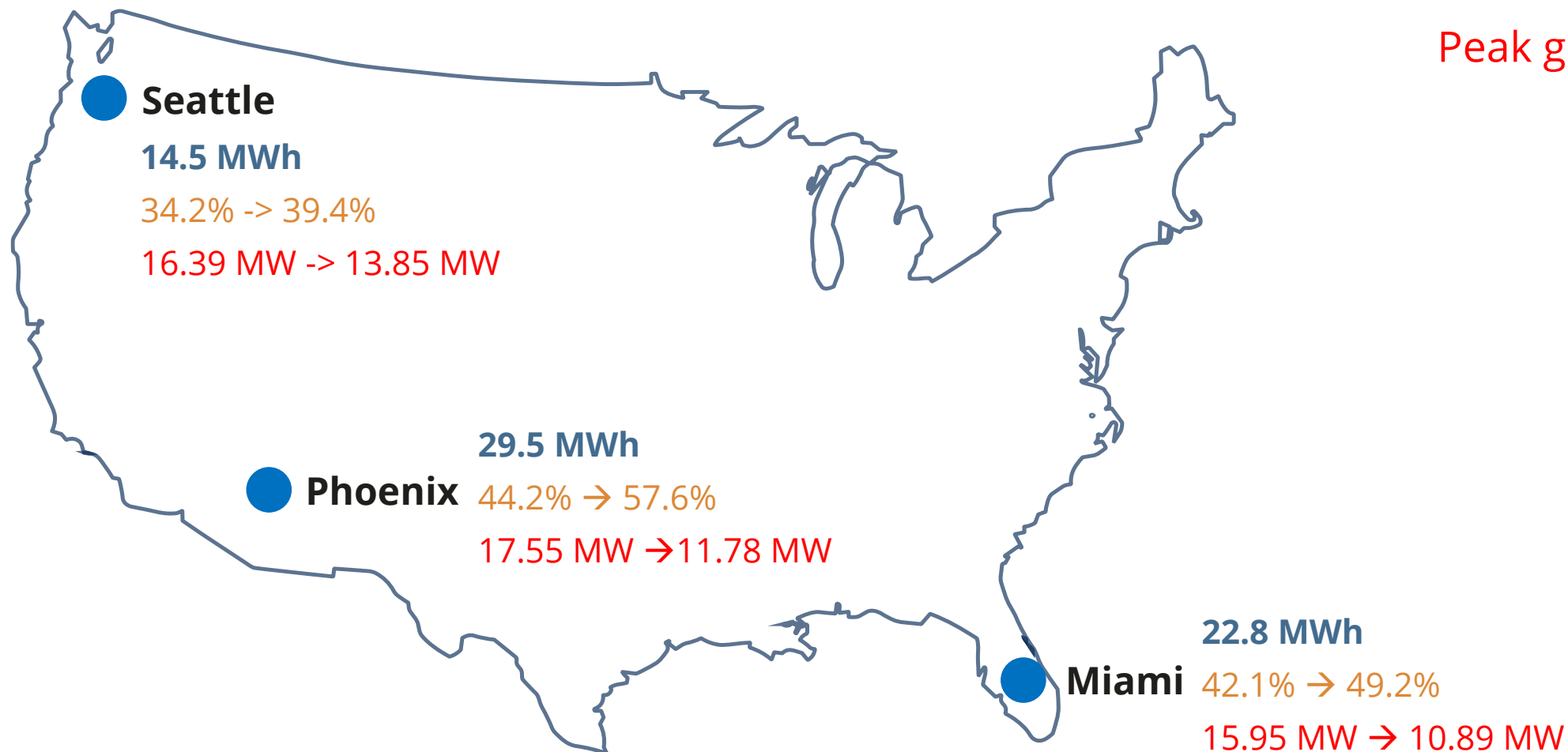
**Miami** Peak: 17.4 MW  
PV CF: 26.7%



## Optimal 4-hour storage

PV penetration

Peak grid demand

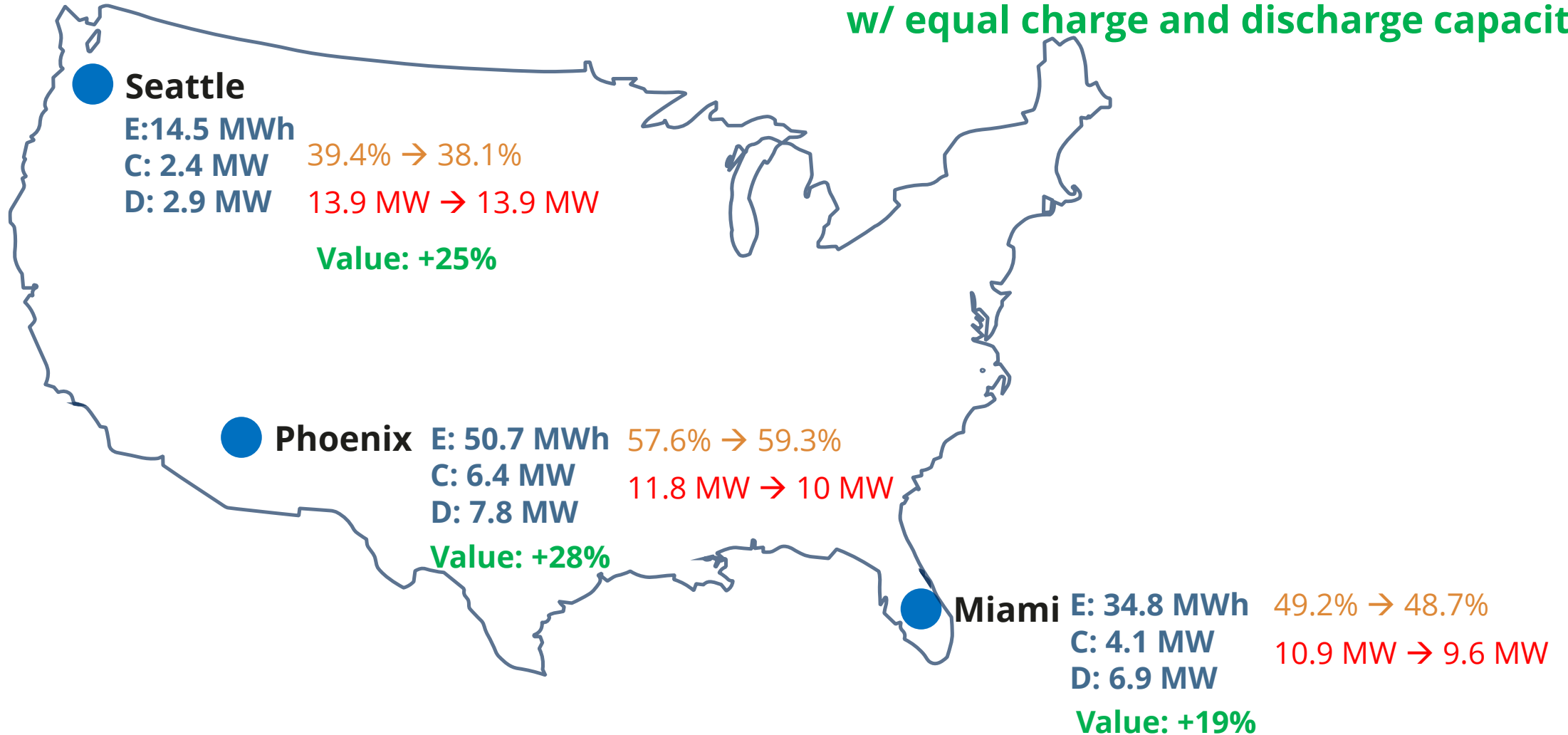


PV penetration

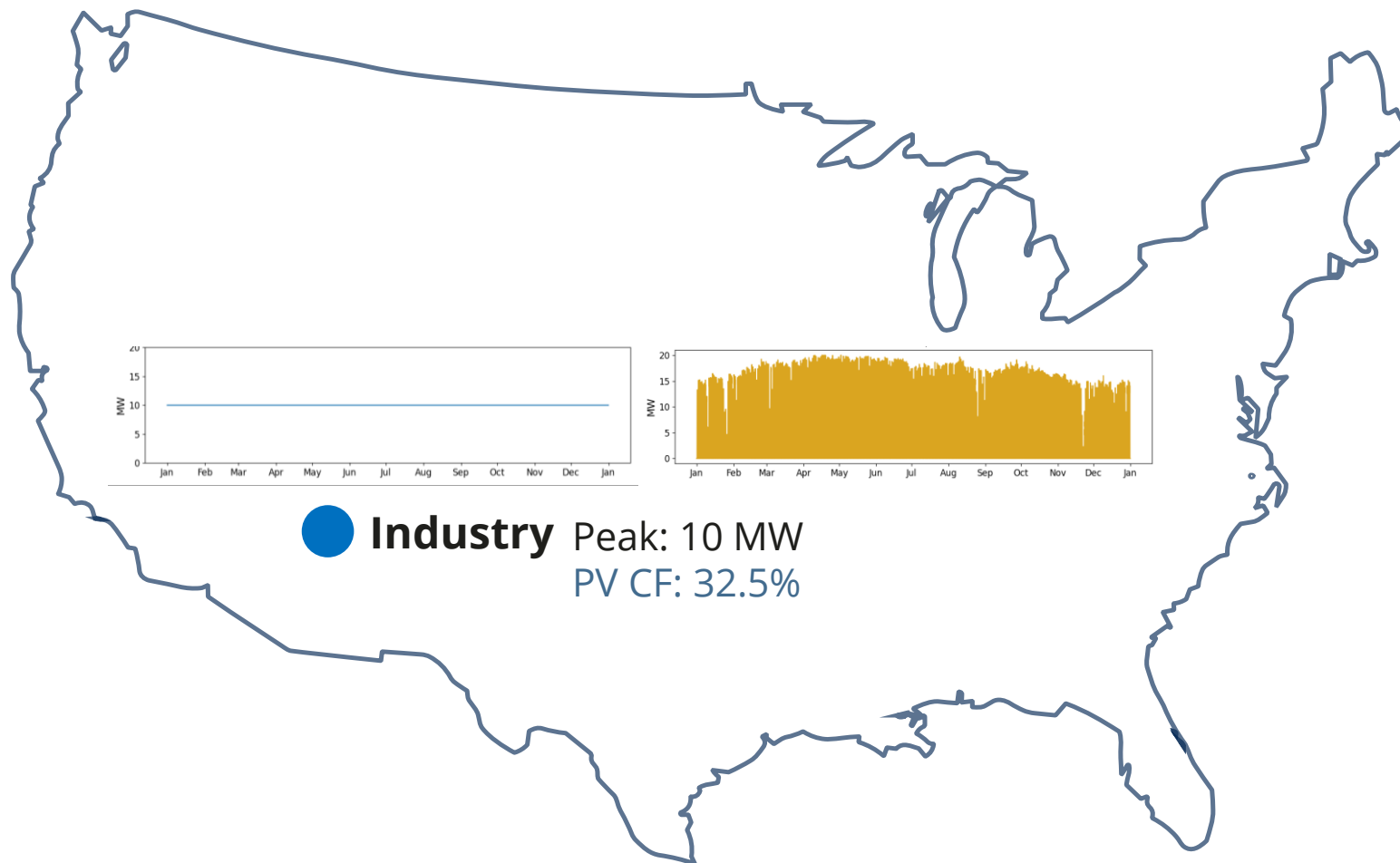
Peak grid demand

What would be the optimal energy, charge, and discharge capacities?

Storage value compared to 4-hour storage w/ equal charge and discharge capacities



# What if we are an industry with constant demand?

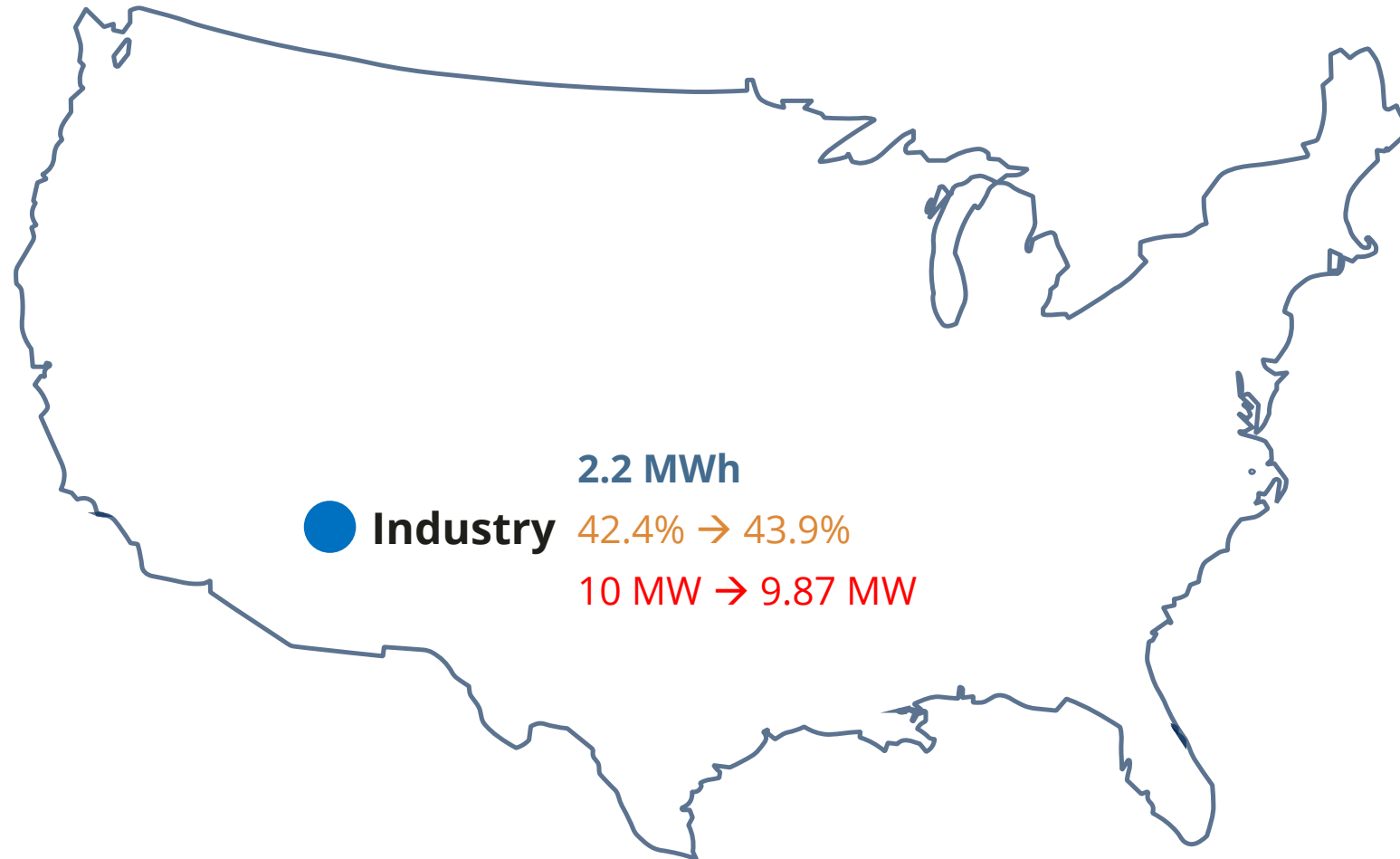


● **Industry** Peak: 10 MW  
PV CF: 32.5%

## Optimal 4-hour storage

PV penetration

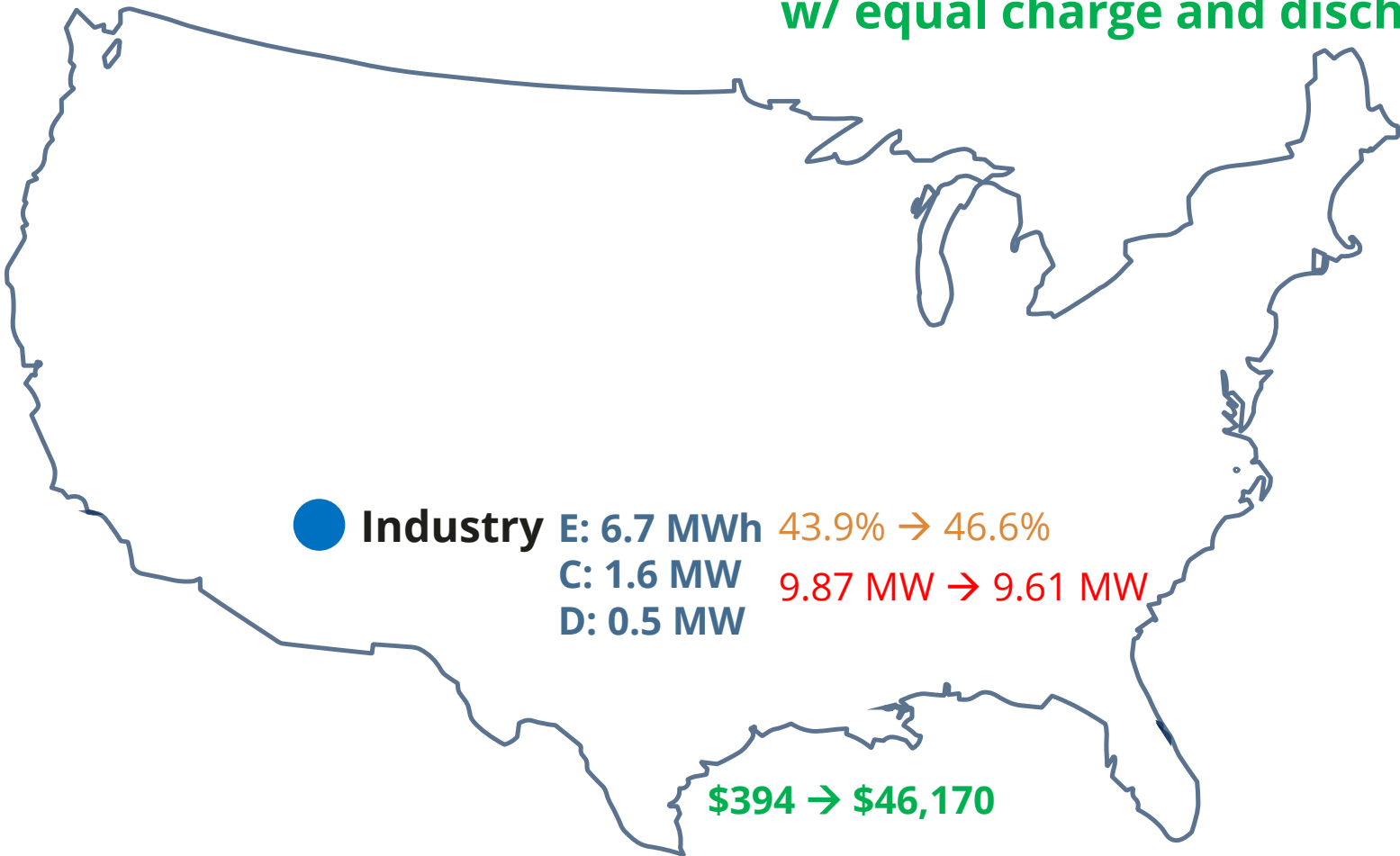
Peak grid demand

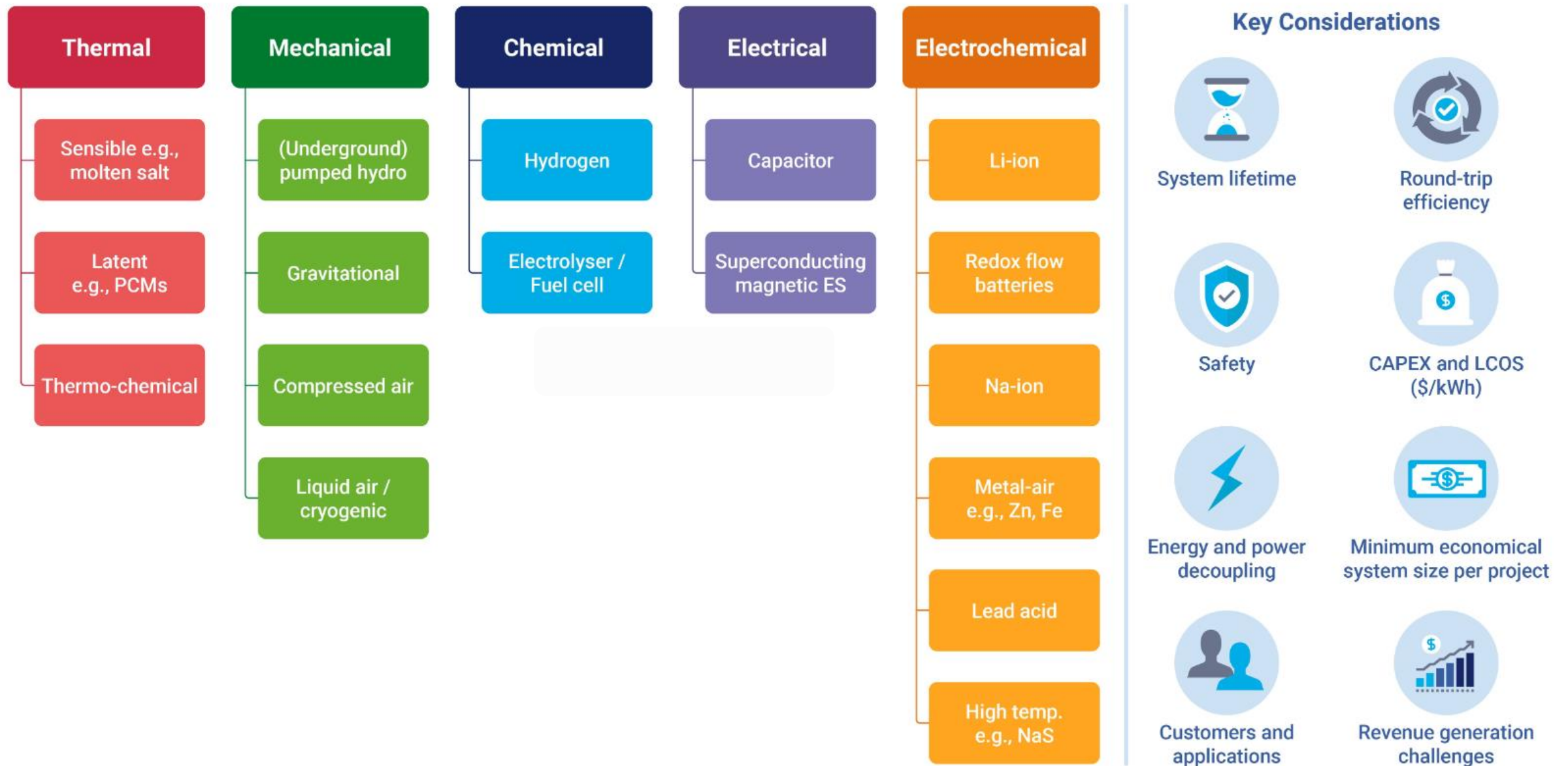


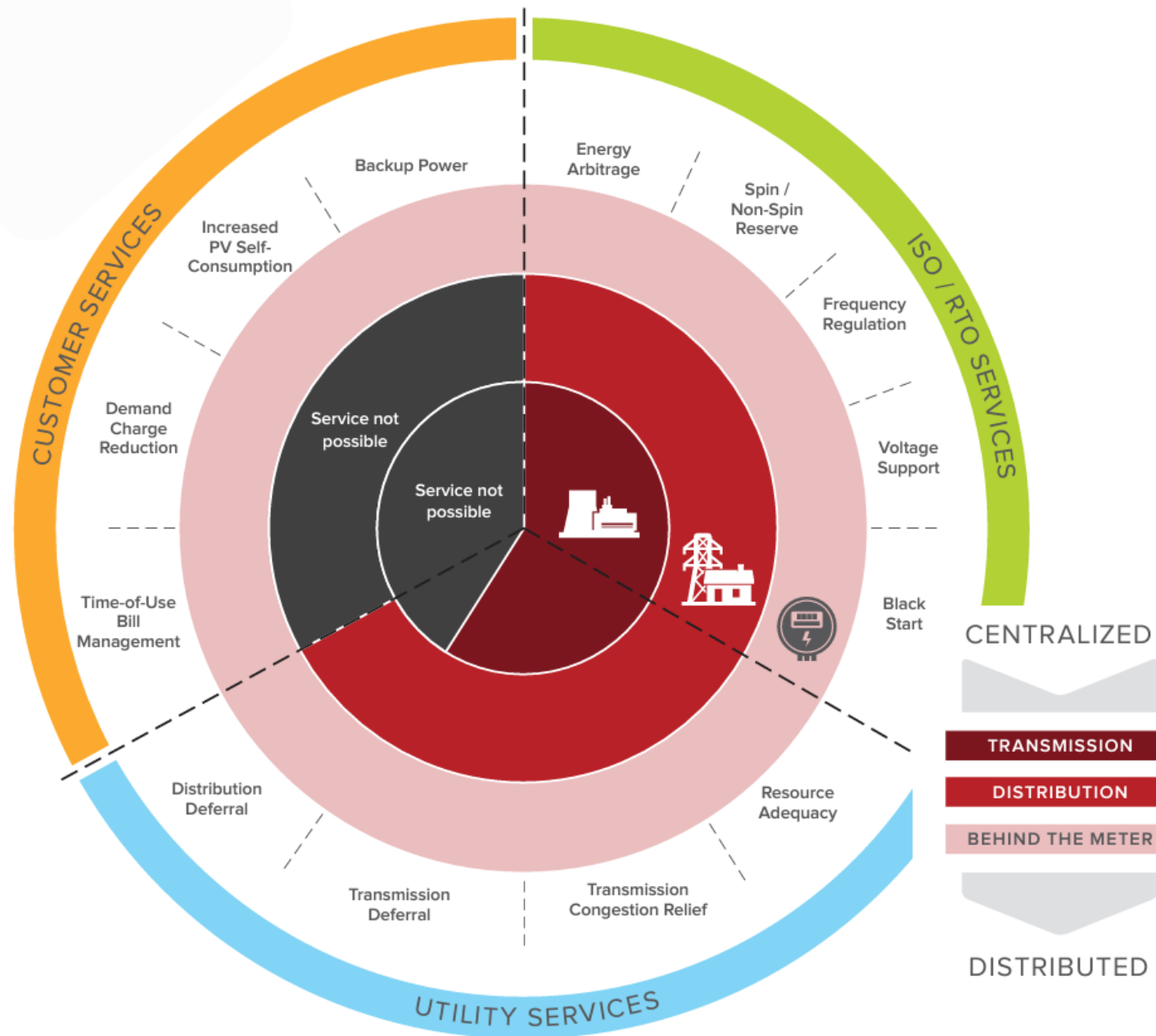
PV penetration  
Peak grid demand

What would be the optimal energy, charge, and discharge capacities?

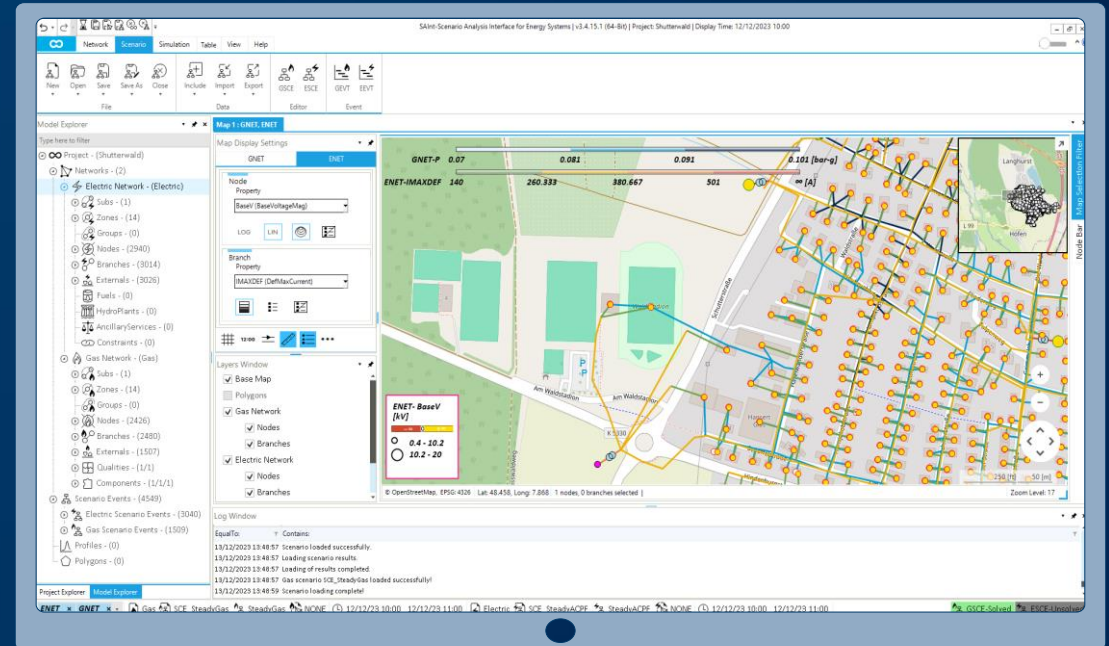
Storage value compared to 4-hour storage w/ equal charge and discharge capacities







# Integration of Traditionally-Siloed Planning Processes



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