

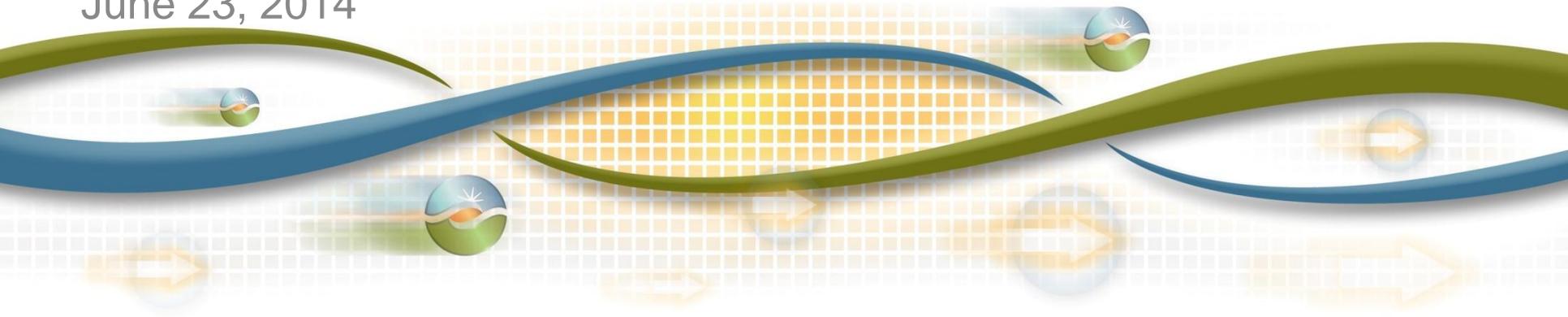
# Panel 1: Role of Battery Electric Vehicles and Smart Charging on the Grid

Lead Commissioner Workshop on Electric and Natural Gas Vehicles  
in California

Heather Sanders

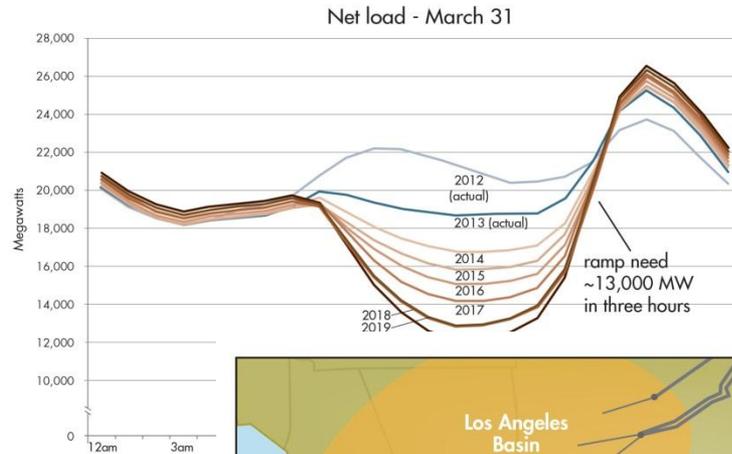
Director, Regulatory Affairs, Distributed Energy Resources

June 23, 2014



# Resources that maintain a reliable green grid need specific capabilities in the right place at the right time.

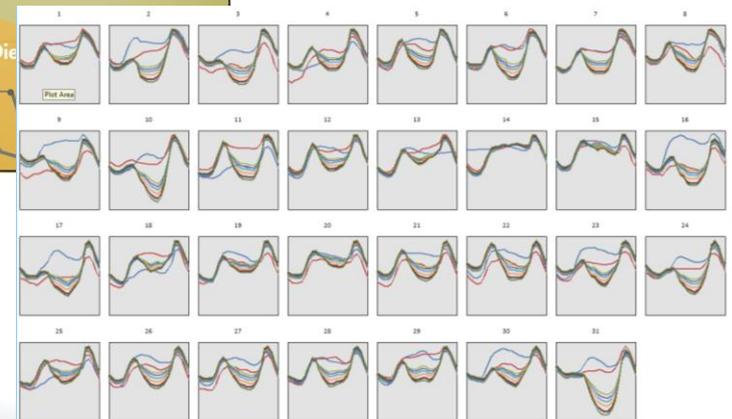
→ What



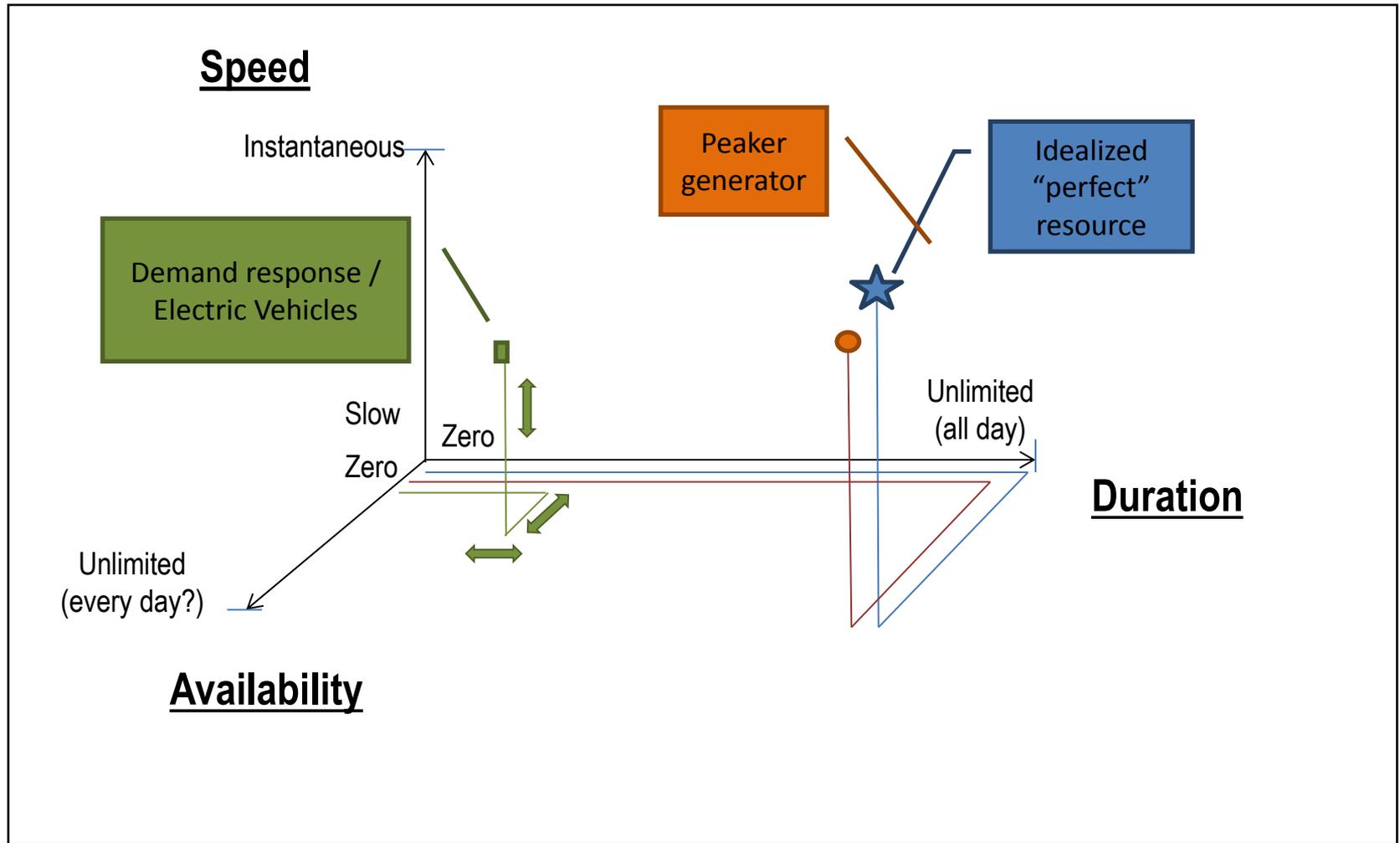
✓ Where



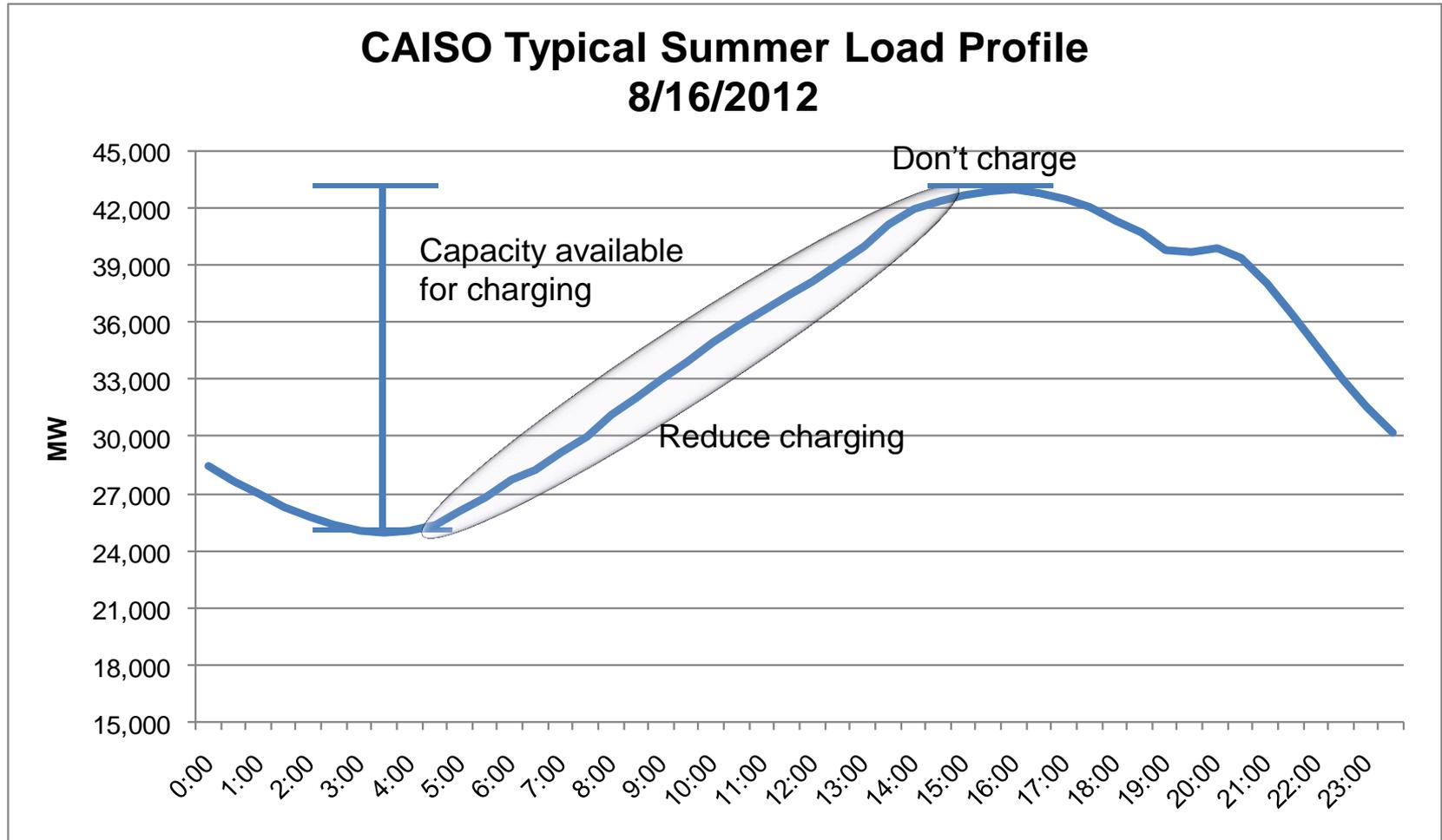
→ When



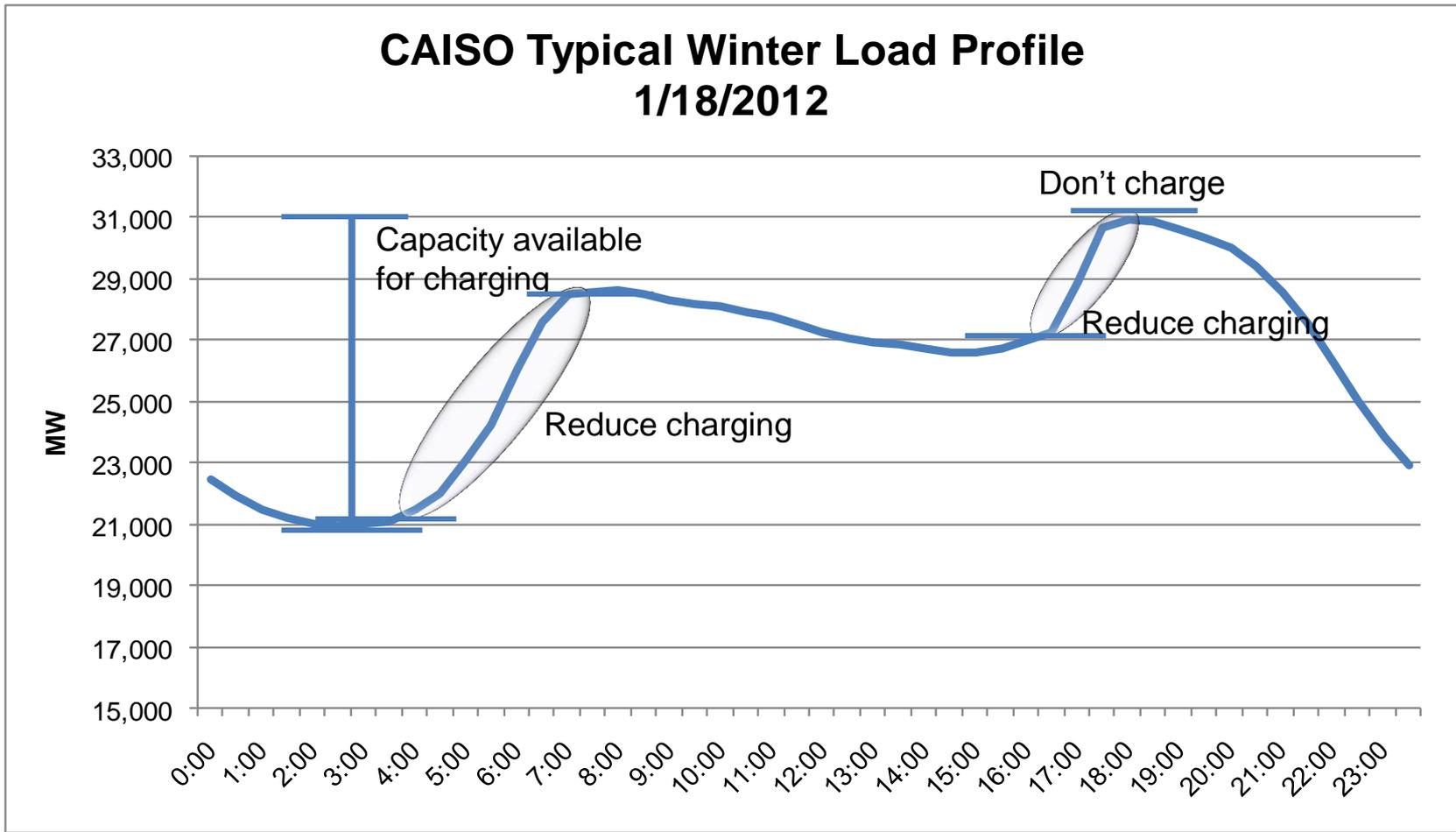
# Three key characteristics contribute to a resources' effectiveness to provide the WHAT.



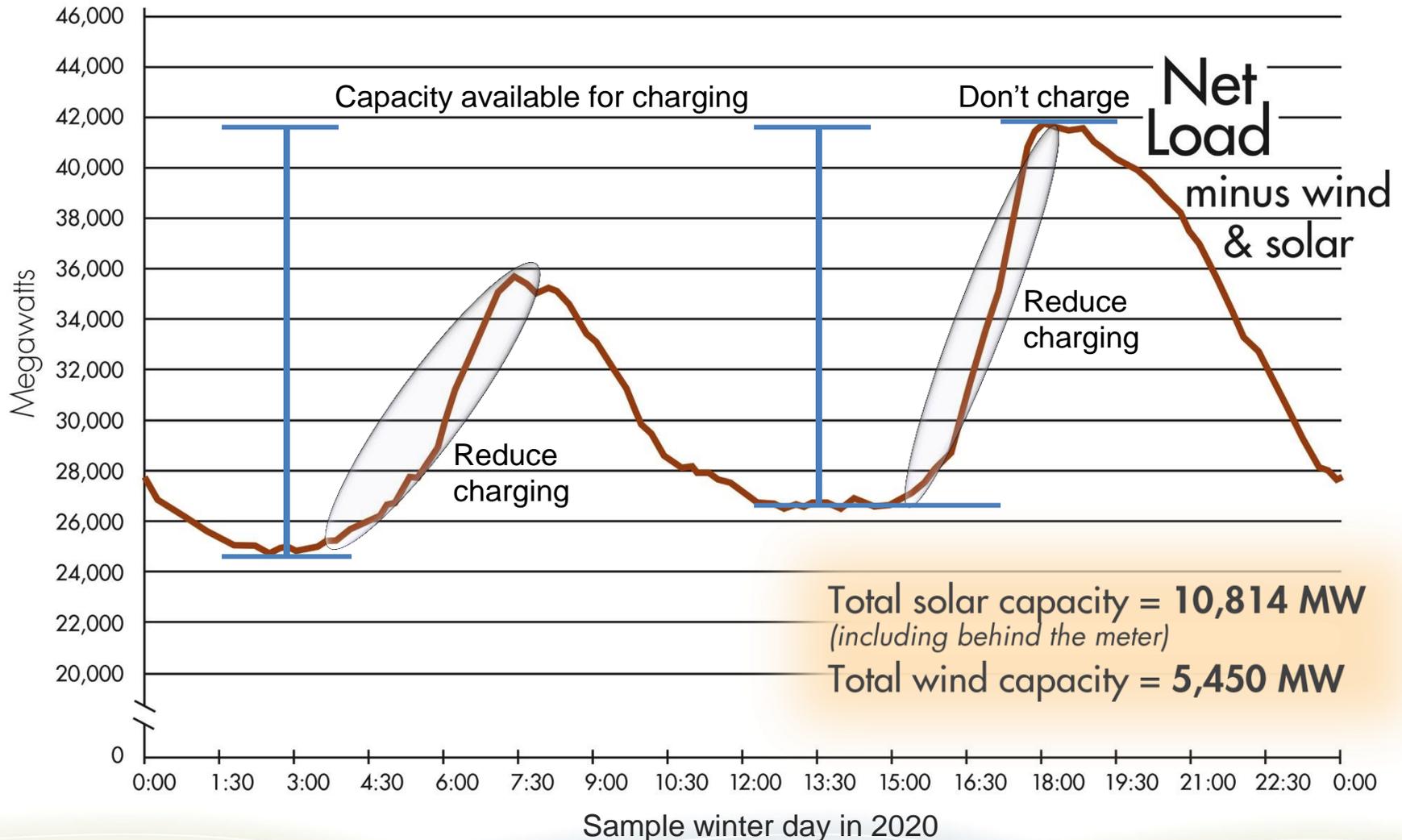
The CAISO typical load profile for a summer day indicates appropriate vehicle charging times.



The CAISO typical load profile for a winter day shows different times for vehicle charging.



# In 2020, the net load curve shows different timing suited for electric vehicle charging



# Resources that maintain a reliable green grid need specific capabilities in the right place at the right time.

What

→ Speed

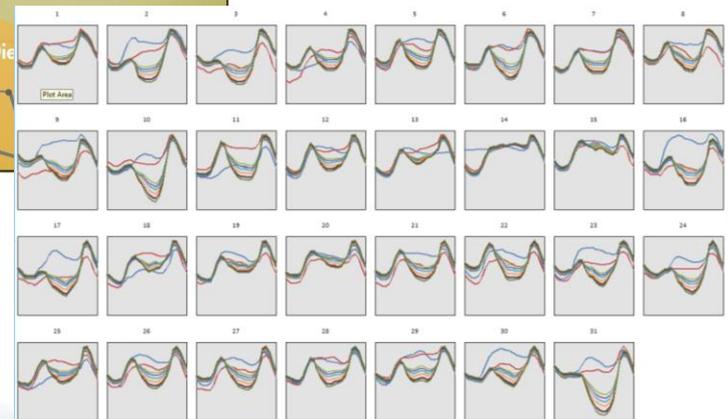
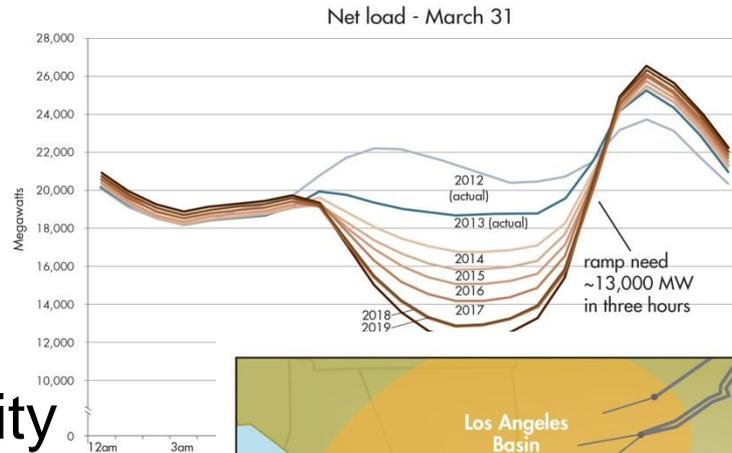
→ Duration

→ Availability

✓ Where

When

→ Flexible  
Timing



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**THANK YOU**