

# MICROGRID KNOWLEDGE™

2023 CONFERENCE

# LIGHTS ON!

May 16-17, 2023 | Anaheim, CA

OWNED &  
PRODUCED BY:



PRESENTED BY:

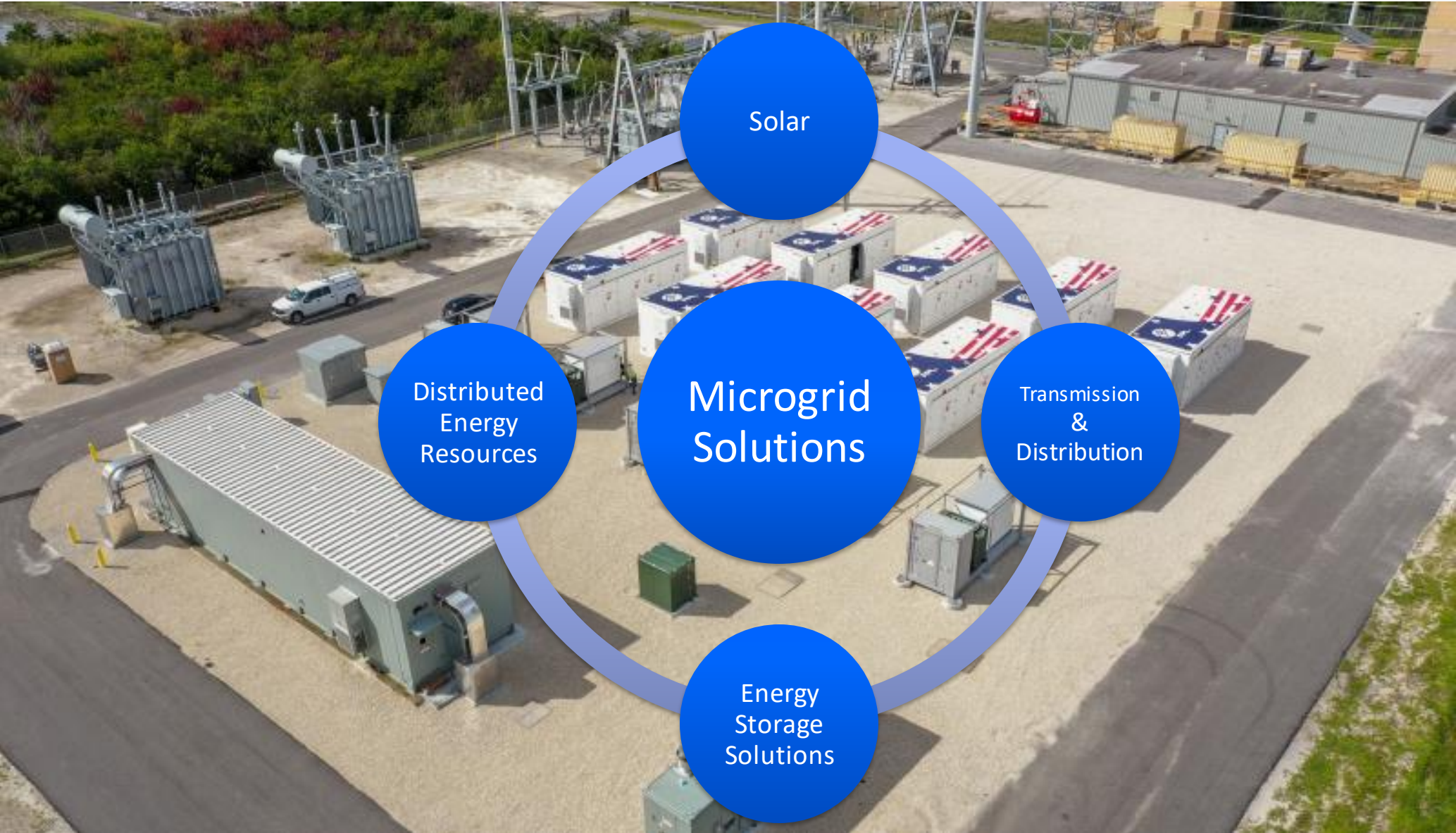
MICROGRID  
KNOWLEDGE™

## Invisible. Invaluable.

Infrastructure is more than turbines, battery storage or solar panels. It's a competitive advantage for clients seeking to **accelerate growth, eliminate carbon emissions**, and meet **financial, sustainability and reliability** goals.

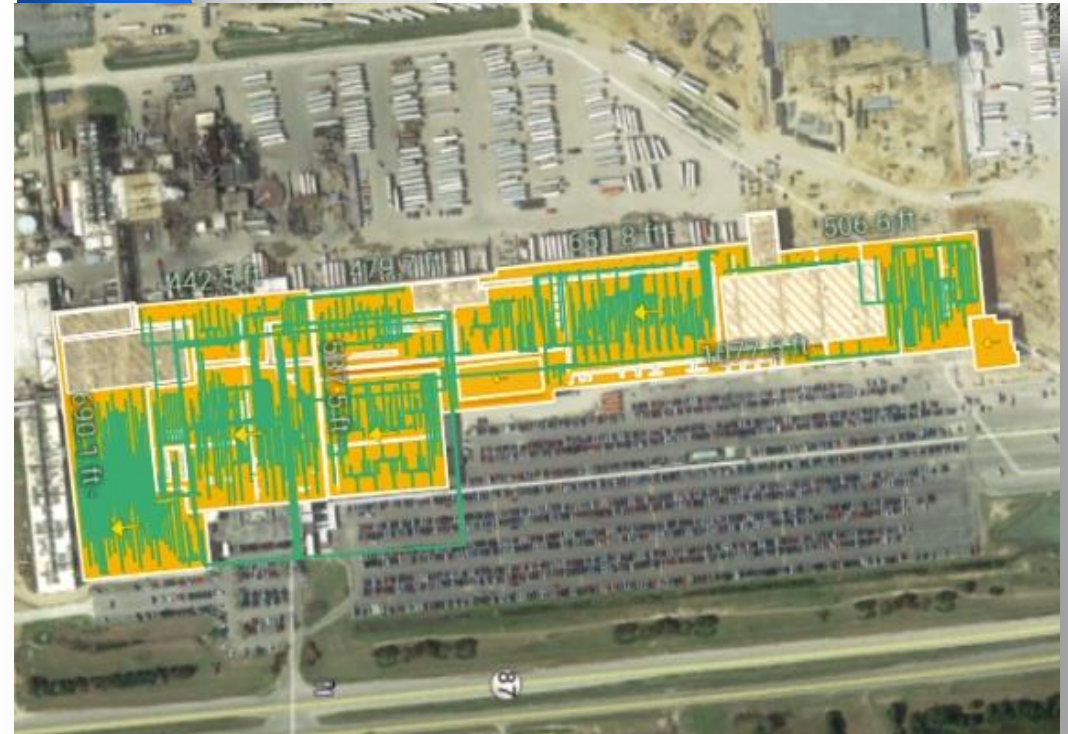
How to  
Incorporate  
Cleaner Fuels  
in  
Microgrids?

# Microgrids and Resilient, On-Site Power



# Energy Storage

Realize the economic, reliability, sustainability, and resiliency benefits of next-gen energy microgrid infrastructure



# Storage Technology – Power & Energy, Size & Duration

## Energy Application

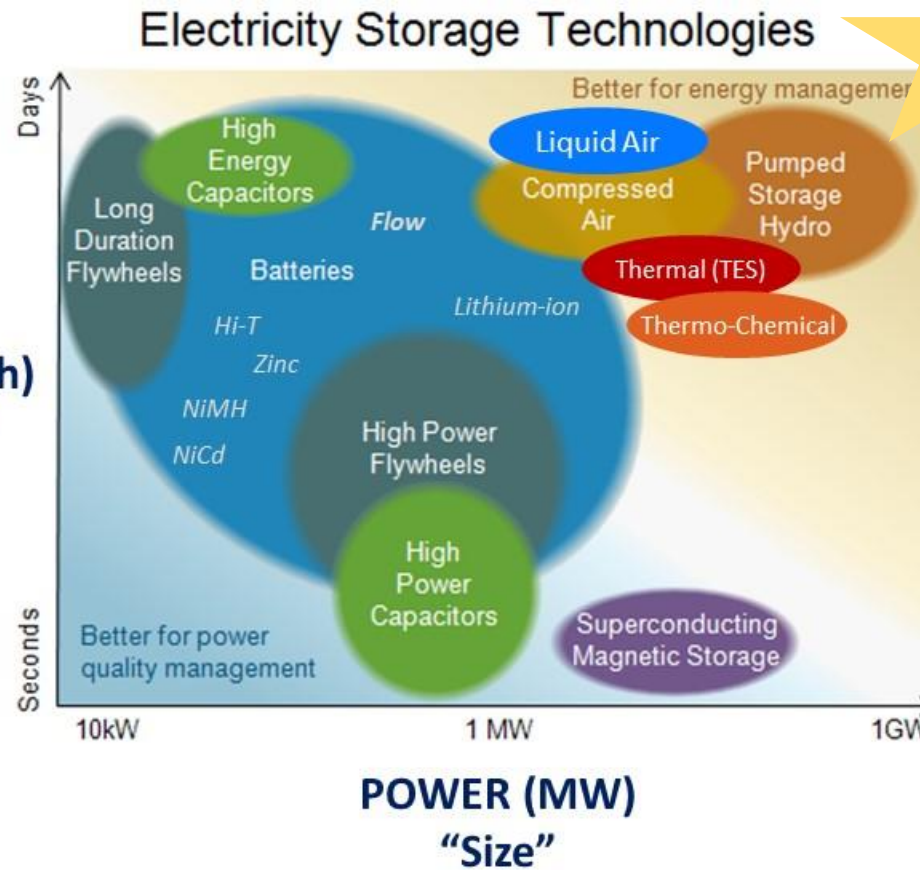
- Over one hour



## Power Applications

- Under one hour

ENERGY (MWh)  
“Duration”



## Others:

PtG: Power to Gas

- H2 Hydrogen
- SNG Synthetic Natural Gas  
 $2H_2 + CO_2 \rightarrow CH_4 + O_2$   
for prime movers or fuel cells

CAES: Compressed Air Energy Storage.  
“Co-fire”

LAES: Liquefied Air

TES: Energy Storage. “Thermal”

TCEC: Thermo-chemical. “Heat pump”

Considerations of Power, Time, and Energy Identify the Types of Storage to Use

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