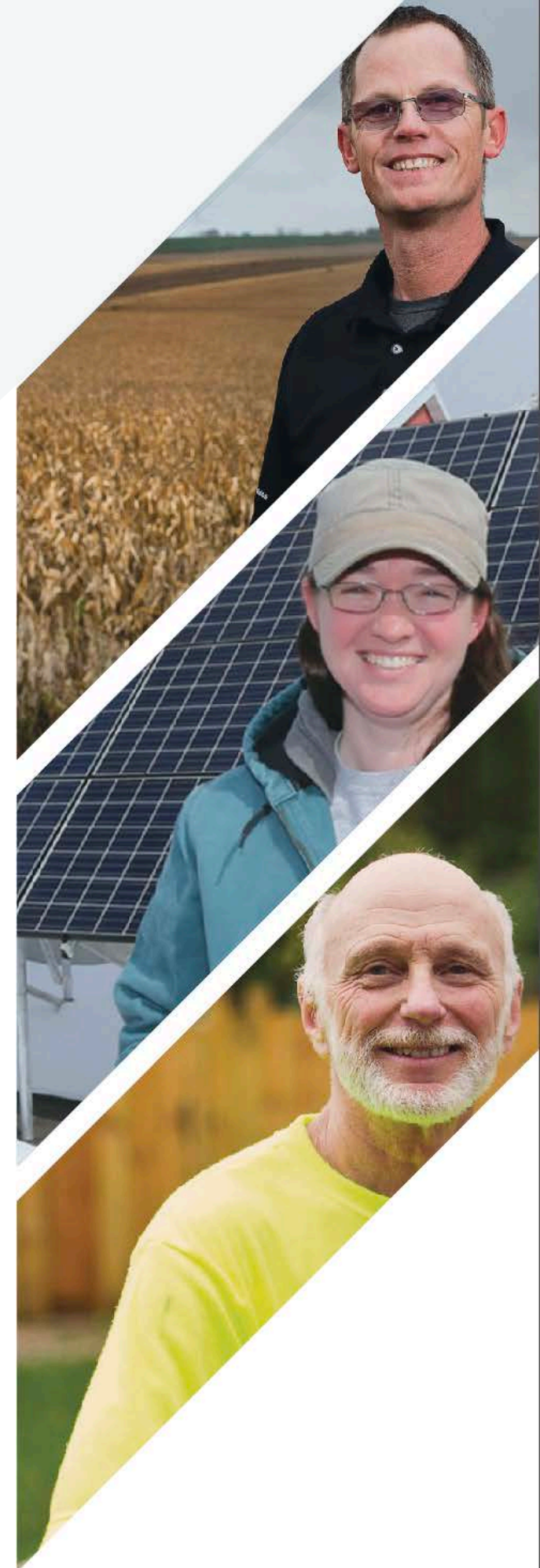


# RENEWABLE ENERGY SUMMIT 2019

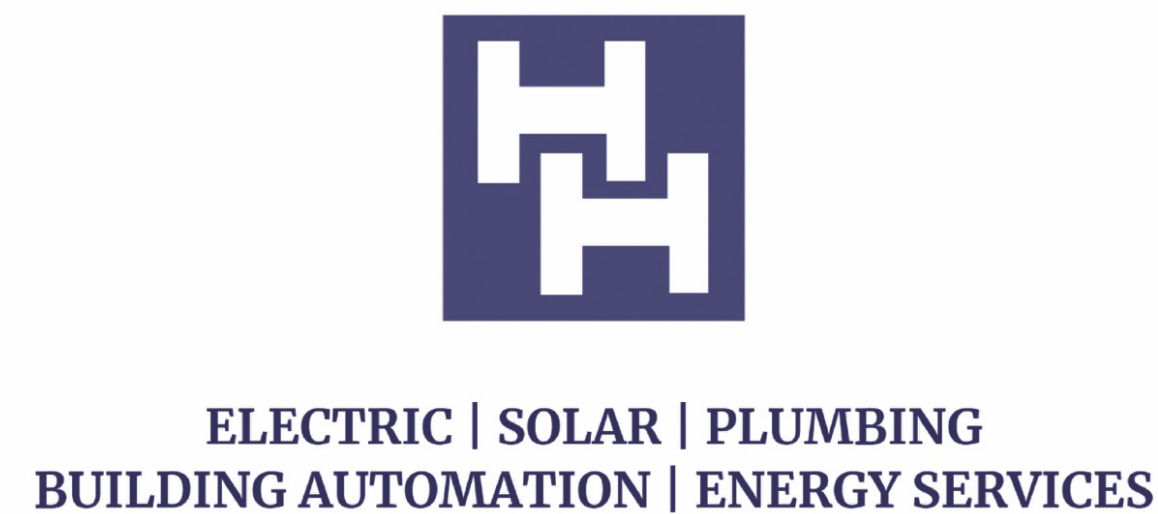
## Scaling Up for the Job Ahead

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Beth Soholt, Clean Grid Alliance

Cari Anne Renlund, Madison Gas & Electric

Amy Heart, Sunrun

Ken Walz, Madison College



# Clean Grid Alliance

- Purposeful collaboration of eNGOs and renewables industries/supply chain
- Regional non-profit advocacy organization launched in 2001, focused on:
  - Public policy for clean energy/transitioning our electric generation fleet to higher levels of renewables (legislatures, state public utilities/service commissions, public education)
  - Technical and engineering issues/renewable integration – we “speak MISO” and participate extensively in the stakeholder process at the MidContinent Independent System Operator
  - Communications – connect the dots/demystify what happens behind the light switch
  - Members include NGOs, wind/solar/storage developers, turbine manufacturers, businesses that provide goods/services to the industries (construction, legal, supply chain)
  - 9 state footprint: ND, SD, MN, IA, WI, MO, MI, IL, IN

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# Madison Gas and Electric



## Service Territory

- ▶ 151,000 electric customers
- ▶ 158,000 gas customers

## MGE is an investor-owned utility

- ▶ Madison roots date back 150+ years.
- ▶ MGE has 700 employees.
- ▶ We are your community energy company.
- ▶ Electric reliability ranked No. 1.



# Renewable Energy Generation

## MGE-Owned Wind Farms

- ▶ Saratoga Wind Farm
- ▶ Forward Energy Center Wind Farm
- ▶ Top of Iowa Wind Farm
- ▶ Rosiere Wind Farm

**MGE has grown its wind capacity  
in the last decade from 11 MW to 153 MW.**

# Renewable Energy Generation

## MGE Solar

- ▶ Shared Solar project (expansion planned)
- ▶ Badger Hollow and Two Creeks solar (proposed)
- ▶ Dane County airport solar (planned under Renewable Energy Rider)
- ▶ About 670 Customer-owned Distributed Generation interconnections



# Renewable Energy Generation

Customer-owned Distributed Generation interconnections

- ▶ Residential systems have nearly doubled since 2016.
- ▶ Commercial capacity has nearly quadrupled since 2016.

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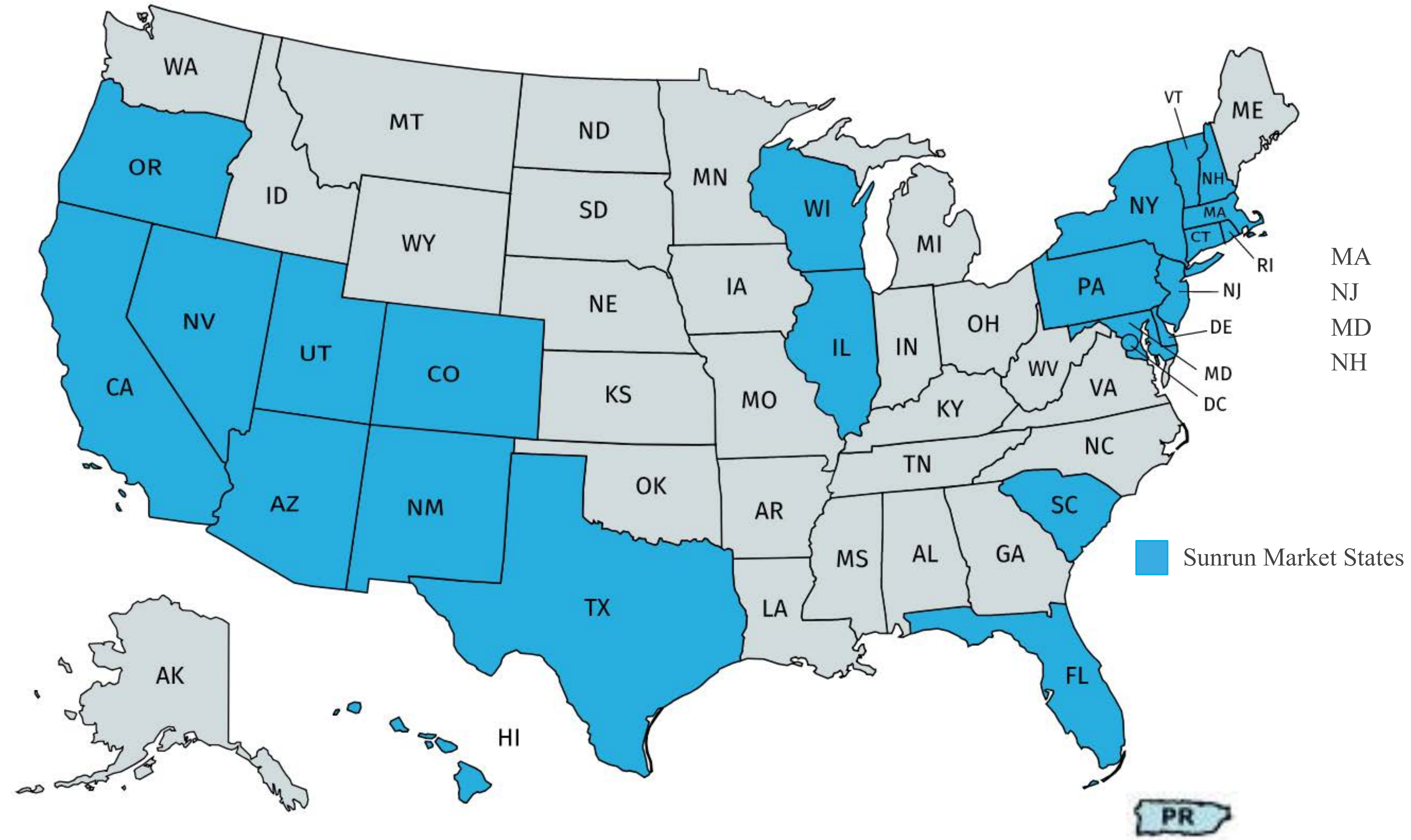
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# Sunrun Solar Service



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**One of 16 colleges in the WTCS system**

**Comprehensive community college providing technical and liberal arts education since 1912.**

**Serve 12 Counties: all of Dane, most of Columbia, Jefferson, Marquette and Sauk and parts of Adams, Dodge, Green, Iowa, Juneau, Richland and Rock.**

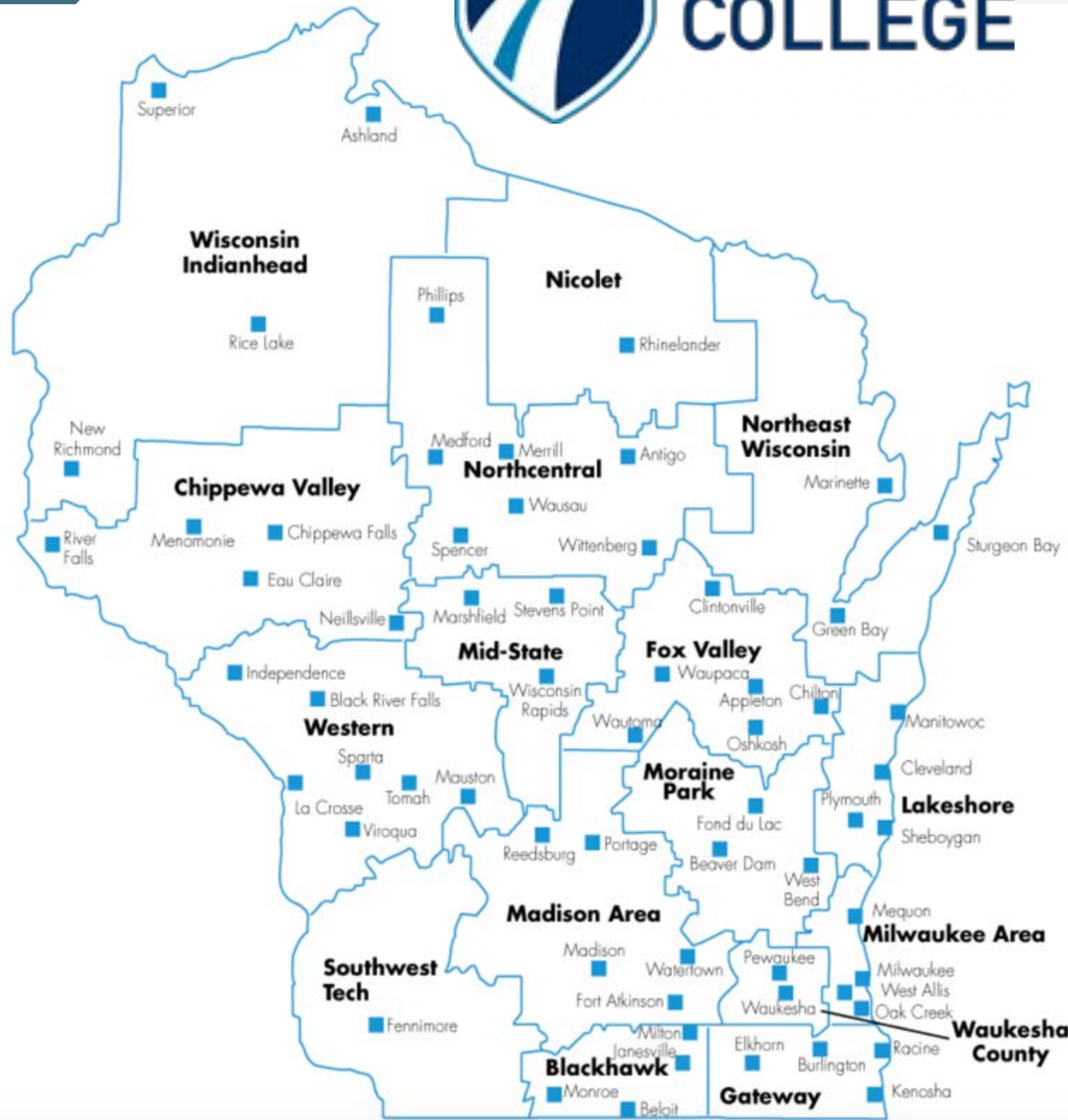
**~40,000 students from a pop. base of ~750,000 that includes 224 municipalities and 40 public school districts.**

**Campuses in Fort Atkinson, Madison, Portage, Reedsburg, Watertown and Columbus.**

**Madison campuses located Downtown, Commercial Ave, Truax Airport, and a new South campus opening in fall 2019.**

**Buildings range in size from 5,700 to 1,100,000 sq ft**

**Have offered a Renewable Energy Certificate since 2005**





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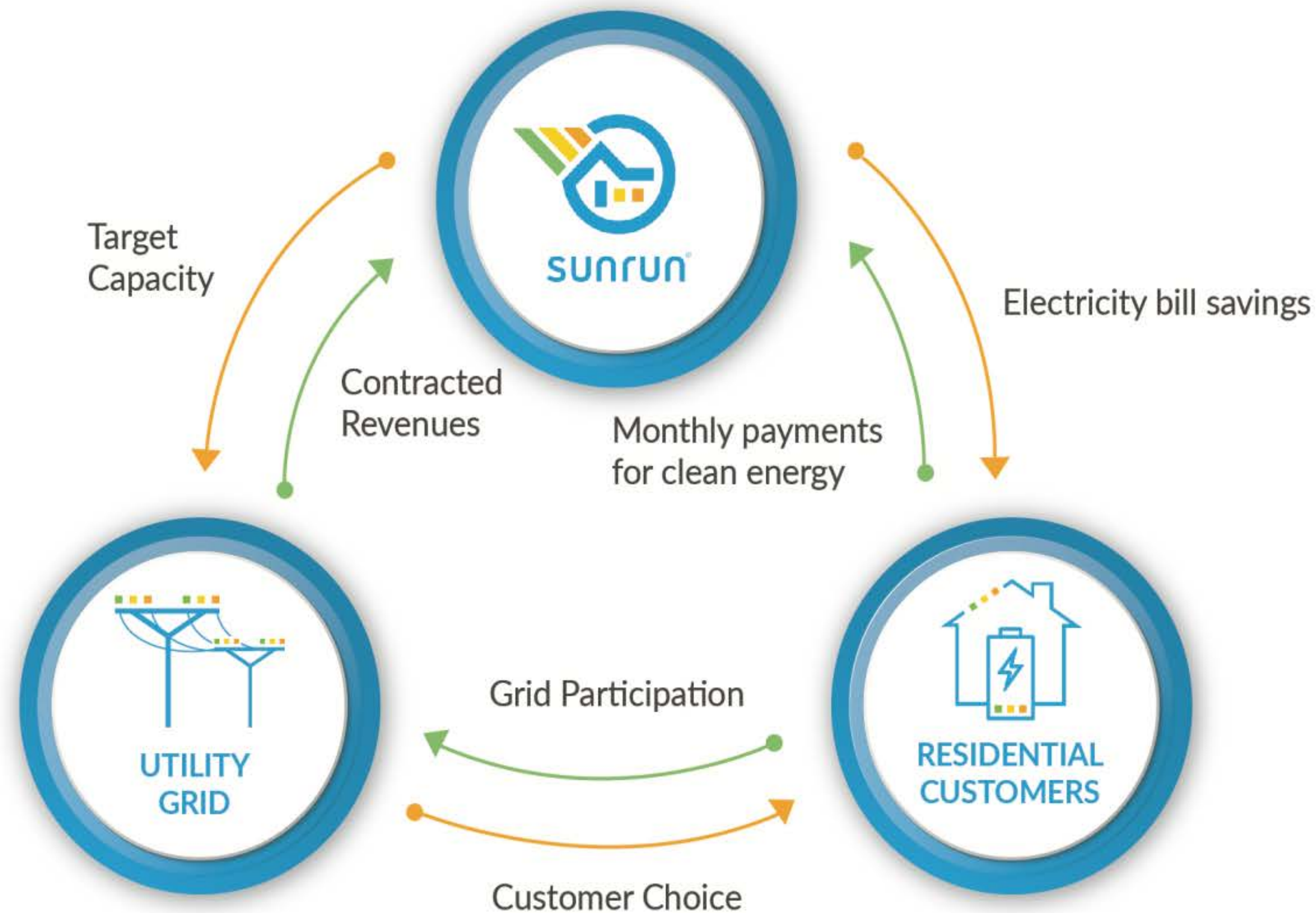
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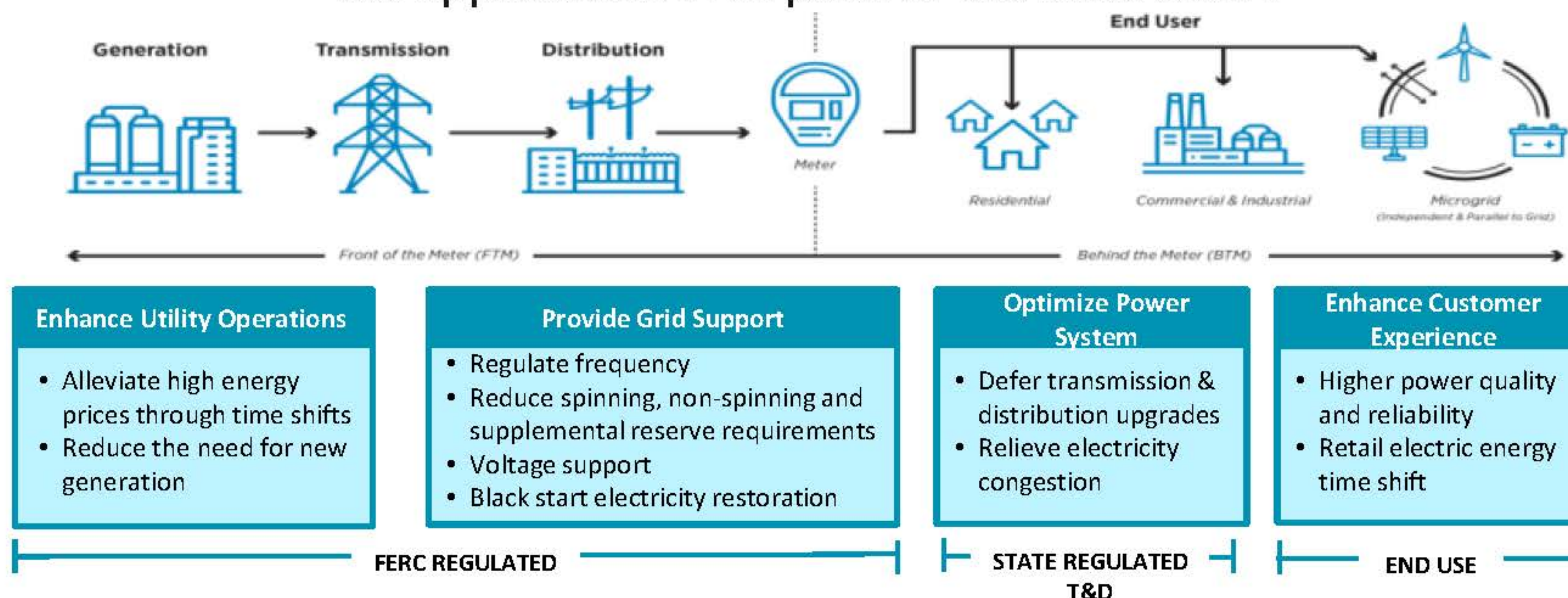


# The Grid of the Future Includes Rooftop Solar



# Why Energy Storage?

Energy storage can be deployed in all parts of the grid, and has applications in all parts of the value chain.



Source: Adapted from DOE/EPRI Handbook, EEI (graphic)



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**THANK YOU FOR ATTENDING!**

## SUMMIT LEADERS — RECEPTION SPONSORS AT 3:30PM



renewables



Invenenergy

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