



## Resiliency as a Service Proposed Pilot

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January 12, 2021

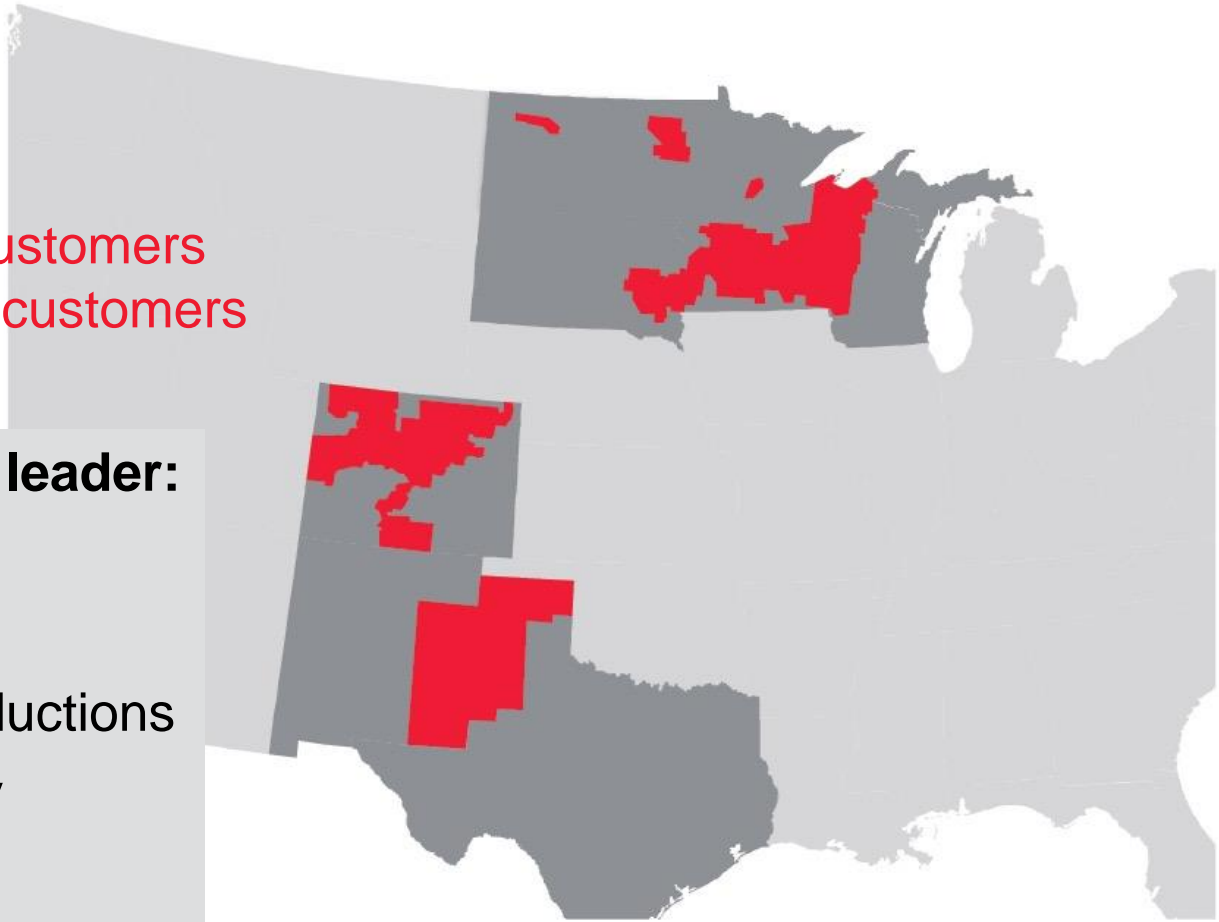
# Xcel Energy

## Serving eight states

- 3.7 million electricity customers
- 2.1 million natural gas customers

## Nationally recognized leader:

- Wind energy
- Energy efficiency
- Carbon emissions reductions
- Innovative technology
- Storm restoration



# Serving NSPW – Wisconsin & Michigan



**Electric  
Customers**

**251,000  
Wisconsin**

**9,000  
Michigan**



**Natural Gas  
Customers**

**110,000  
Wisconsin**

**6,000  
Michigan**

# Xcel Energy Priorities



Lead the Clean  
Energy Transition



Enhance the  
Customer Experience



Keep Bills Low

# Goals for WI Resiliency Program Design

**End Goal** → Convenient, affordable option for increased resiliency

## **Program Design Goals** →

- Minimize/avoid subsidization by other customers
- Promote fairness
- Enable participation by a variety of different types of customers
- Address the complexity and custom nature of resiliency projects
- Technology- and provider-neutral
- Facilitate deployment of new and innovative technology
- Maximize benefits to participating customers
- Minimizes administrative costs and burdens while delivering value for customers

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## **Proposed Program**

- Optional Xcel Energy ownership of Resiliency Assets
- Customer can also bring their own assets
- Resiliency Assets paid for on-bill under 10 year contract
- Projects will be custom-designed for each participating customer
- Can include Battery Storage, Solar, Back-Up Generators, Other Generation, Microgrid Support
- Proposed WI pilot cap of 30 MW of combined Battery and Generation capacity
  - 10 MW reserved for non-profit and government entities

# Interested Customers in Wisconsin

Preliminary customer conversations to gauge interest and inform pilot design

<b>Project Site Description</b>	<b>New Resiliency Assets</b>	<b>Existing Customer Assets</b>	<b>Rough Cost Estimate</b>
Community Center/ Emergency Shelter	Solar, BESS, BUG, Microgrid	None, new build	\$1-2 million
Military Critical Facility	Solar, BESS, Microgrid	BUG	\$4-5 million
Water Treatment Plant	Solar, BESS, Microgrid	BUG	\$1 million
Wastewater Treatment Plant and Government Buildings	Solar, BESS, Microgrid	Biogas generator	\$1-3 million
Local Government Building	BESS, Microgrid	Solar	\$1 million
Healthcare Clinic	BESS, Microgrid	Solar, Landfill gas generator	\$1 million
Local Government/ Emergency Services	Microgrid, other TBD	Solar, BUG	\$1 million

# New Approaches Can Enable Microgrids

- The Role of the Utility continues to evolve, and this is a good thing!
- Microgrids can help achieve a number of policy objectives
- Embracing this is complicated!
- For more information:
  - Public Service Commission of Wisconsin Docket 4220-TE-106  
<https://psc.wi.gov>
  - Resiliency as a Service Request for Qualifications – responses due February 1  
[www.xcelenergy.com](http://www.xcelenergy.com) or [ResiliencyRFQ@xcelenergy.com](mailto:ResiliencyRFQ@xcelenergy.com)



