

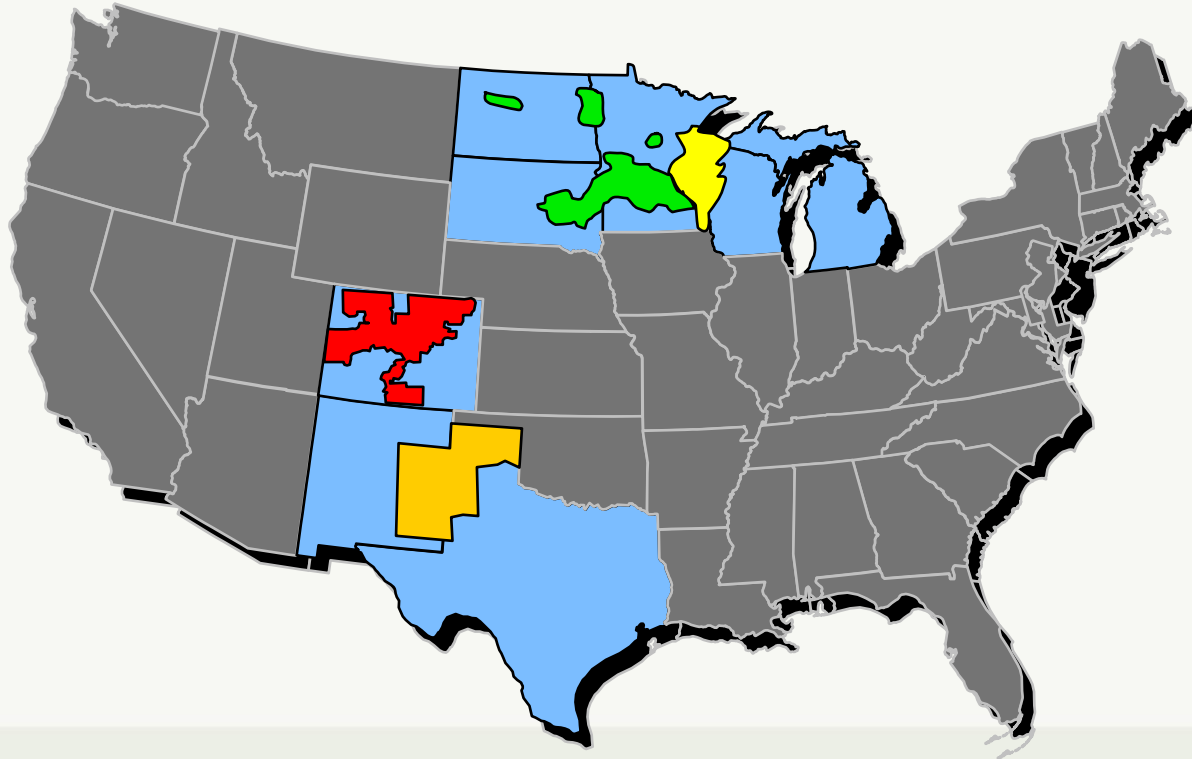


# Energy Storage Summit

Chris Clark, President, Xcel Energy  
Minnesota, North Dakota & South Dakota

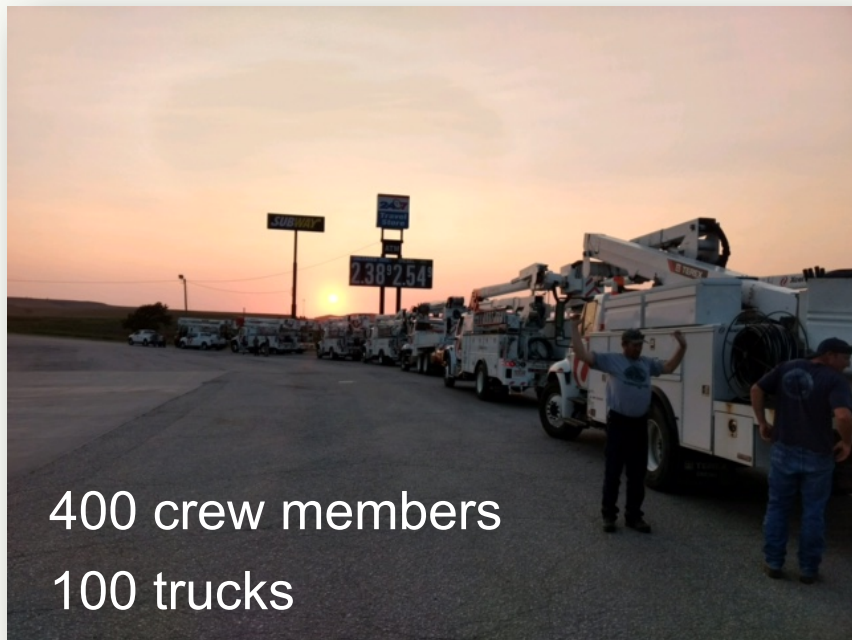
Friday, Sept. 15, 2017

# Xcel Energy



- No. 1 utility wind energy provider in the U.S.
- 3.4 million electric customers
- 2 million natural gas customers
- 12,000 employees

# Hurricane Irma Relief



400 crew members  
100 trucks



Minnesota, Wisconsin, Colorado,  
North Dakota, South Dakota,  
Texas, New Mexico

# Reducing Carbon Affordably

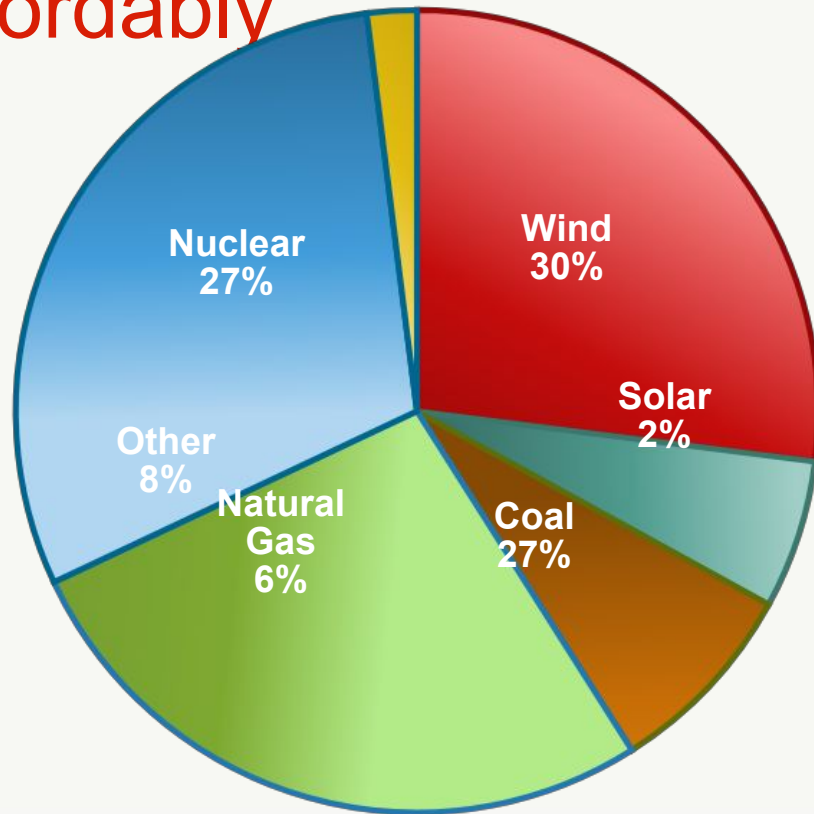
## Upper Midwest Energy Mix

### Now

- 25% renewable
- 55% carbon-free

### 2021

- 40% renewable
- 67% carbon-free



# Battery Storage Projects

## Panasonic Battery Demonstration



## Wind-to-Battery



