

The Future of Energy

June 2017



About Alliant Energy

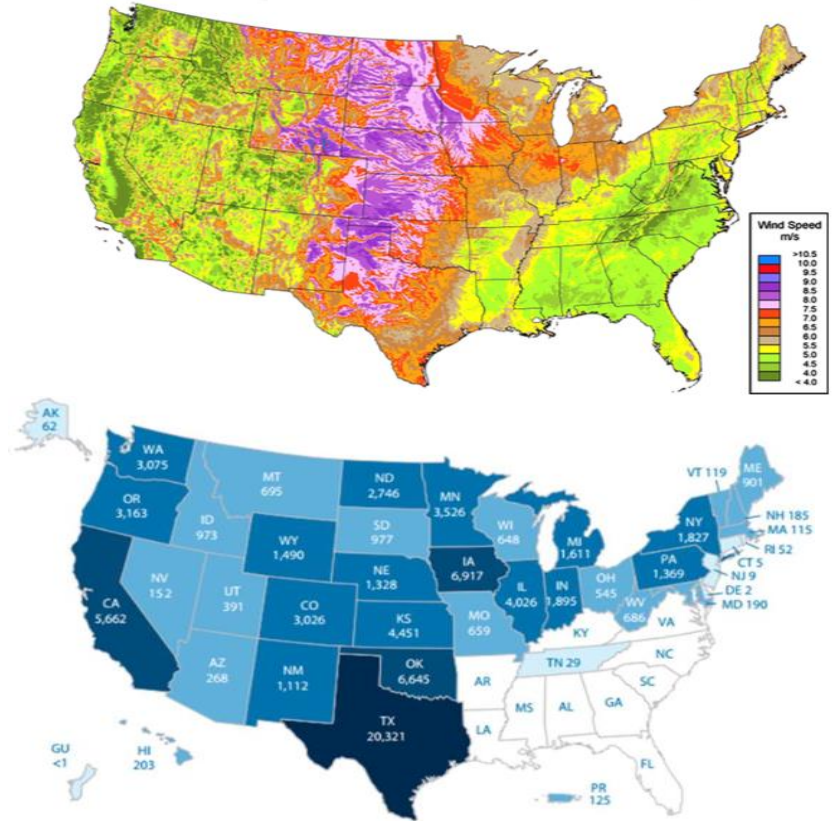
- Joined Fortune 500 in 2016
- ~4,000 employees
- 950,000 electric customers
- 410,000 natural gas customers
- 42K miles of distribution lines

- 9,500 miles of gas main
- 6,350 MW of Generation
 - 1,200 MW of Renewables
 - 650 MW of new CC Gas under Construction



Renewables at Alliant Energy

- WIND
 - Operate four wind farms – 568 MW
 - Will double in next three years
- HYDROELECTRIC
 - Two Hydroelectric Dams – 41MW
- SOLAR
 - Beloit – 2.25MW
 - Dubuque, IA – 6.2 MW
 - Two fields under construction
 - Solar Lab at Madison Headquarters



Solar Lab



- Installation of over 1000 panels
 - 11 Different Panel Types
 - Roof Mounts
 - Different angles – rotating panels
 - 13 Electric Vehicle Charging Stations – public access
 - Battery Storage System



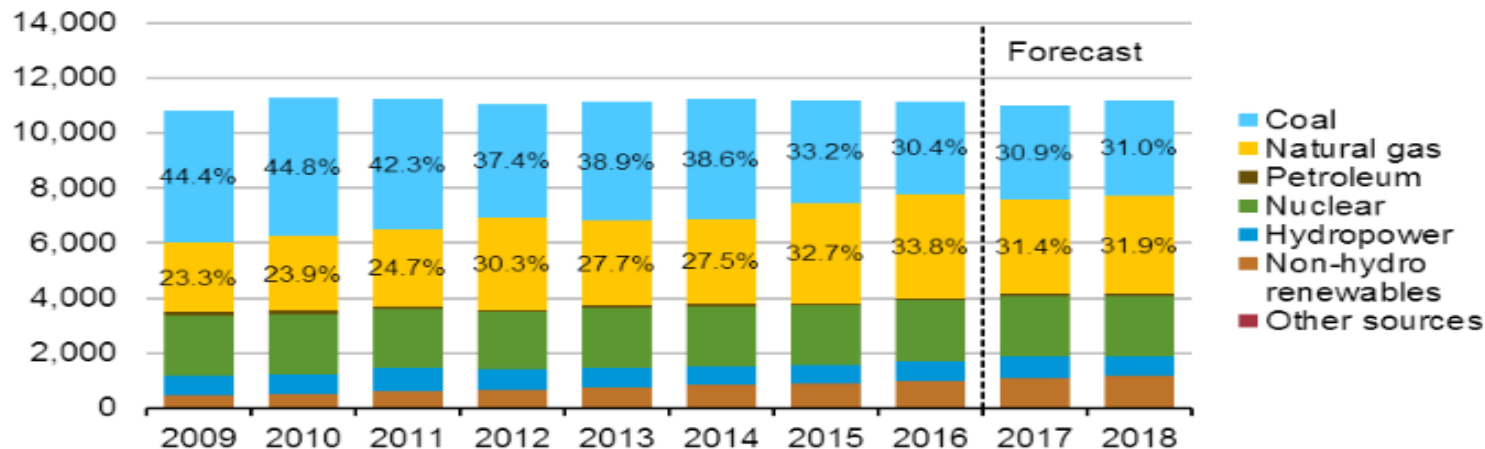
Recent Industry History

- Significant increases in...
 - Natural Gas Generation
 - Solar Installations – Industrial and Residential
 - Wind Construction
 - Retirement or retrofitting of coal plants
- Demand has remained flat
 - Energy Efficiency Programs/Technology

Refueling the Industry



U.S. electricity generation by fuel, all sectors
thousand megawatthours per day



Note: Labels show percentage share of total generation provided by coal and natural gas.

Source: Short-Term Energy Outlook, June 2017.

US Population up 10% from 2010 to 2018



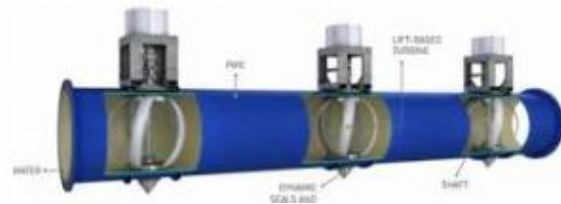
What's next?

- **Future of Fuels**

- Wind Production Tax Credits
- Solar efficiency and cost
- Transmission capacity
- Clean Power Plan (CPP)

- **Emerging Technologies**

- New Power Source:
- Robotics
- Analytics
- Battery Storage
- Microgrids
- Electric Vehicles



Working with Utilities

- **The Basics**
 - Safety values
 - Partnerships
 - RFP Responses
 - Risk Profile

- **Be a 21st Century Contractor**
 - Technological Capability
 - IT Security
 - Innovation
 - Sustainability



Questions?