

Transforming our Energy Future Together

Sustainability Symposium and Expo

Hilary Davidson, Sustainability Director, Duke Energy Corporation

September 11, 2015

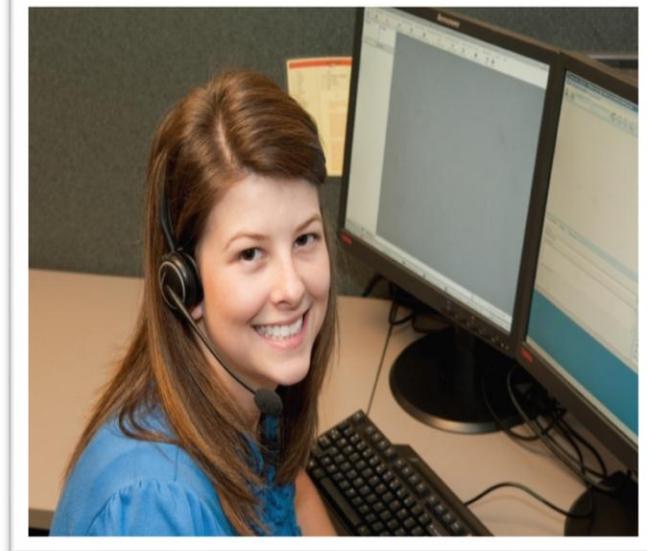


Transforming Our Energy Future Together

- Duke Energy Today
- Challenges and Trends in U.S. Electric Utilities Sector
- Duke Energy's Sustainability Approach
- Community Opportunities

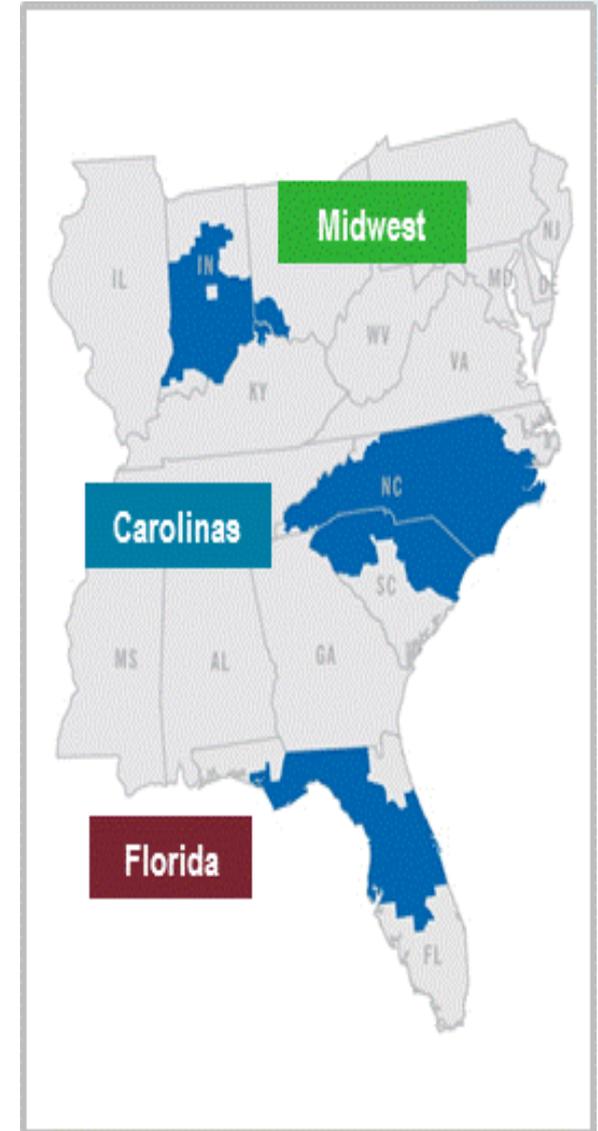
About Duke Energy

- We've been serving customers for over 150 years:
 - Fortune 250 company
 - Headquarters – Charlotte, N.C.
 - 28,000 employees
 - Traded on NYSE as DUK
 - Stock dividends for 88 consecutive years
 - For the 10th consecutive year, included in the 2015 [Dow Jones Sustainability North America Index](#).
- We rely on a mix of fuels to generate power, including natural gas, coal, nuclear and renewable energy.

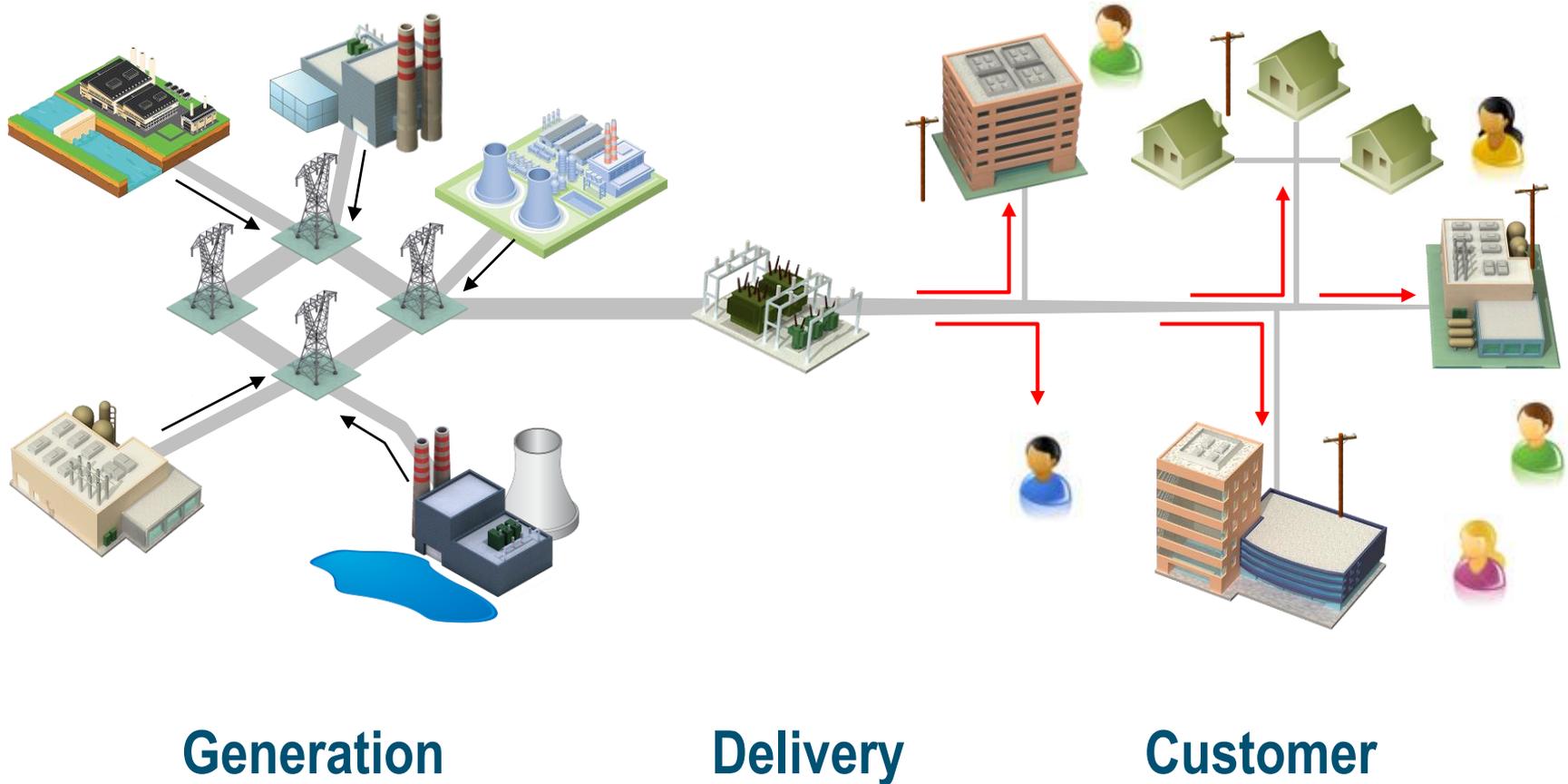


We power roughly 23 million lives

- We're a regulated energy provider in Indiana, Kentucky, Florida, Ohio, North Carolina and South Carolina:
 - 7.3 million retail electric customer accounts – impacting about 23 million lives
 - 500,000 retail natural gas accounts (Ohio and Kentucky)
- We also:
 - Own and operate wind and solar farms across the U.S., where the power generated is sold to regional utilities
 - Generate wholesale electricity for customers in Central and South America



The Electric Utility Grid You've Known



Global / Business Challenges Today

- Recovering economy
- Growing world population
- Growing world 'middle class'
- Limited natural resources
- Concerns about changing environment
- Increasing stakeholder expectations
- Transparency is at an all time high



Five Trends in the U.S. Electric Utility Sector

- 1. Customers:** Today's customers expect control, choice, convenience, and more.
- 2. Consumption:** New technologies and behaviors are flattening load growth.
- 3. Grid:** The electric grid becomes central to integrating diverse technologies.
- 4. Generation:** Natural gas price, carbon constraints and the continued growth in renewable energy will reshape the energy portfolio.
- 5. Regulation:** The regulatory construct is ripe for modernization.

How Do We Respond to Challenges?



Lynn Good
Duke Energy President and CEO

To me, sustainability comes down to enduring business success and responsible stewardship. We'll do this by understanding stakeholders' needs, running our business with excellence and adapting to an ever-changing industry. We must be responsible, creative and driven to demonstrate that big can also mean agile, flexible and innovative.

Sustainability Defined

*Operating in a way that is good
for people, the planet and profits*



The Business Case For Sustainability



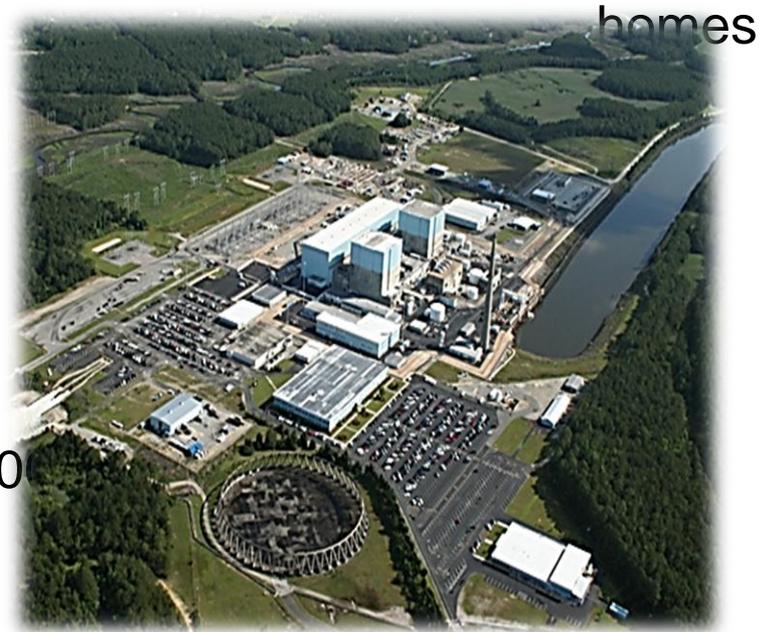
We're constantly innovating for you

- We're actively investing in emerging technologies like digital electric grid infrastructure, battery storage and electric vehicles.
- We're transitioning to a lower carbon future. Over the past decade, we've invested:
 - \$9 billion in new, cleaner coal and natural gas power plants
 - \$7.5 billion to significantly lower sulfur dioxide and nitrogen oxide emissions



Brunswick Nuclear Plant – Carbon Free Emissions

- Dual-unit GE boiling water reactor
- Can power approximately 1.3 million
- Unit 1 – 1977, Unit 2 – 1975
- First nuclear power plant built in N.C.
- Approximately 1,400 full-time employees
- 20-year license extension received in 20

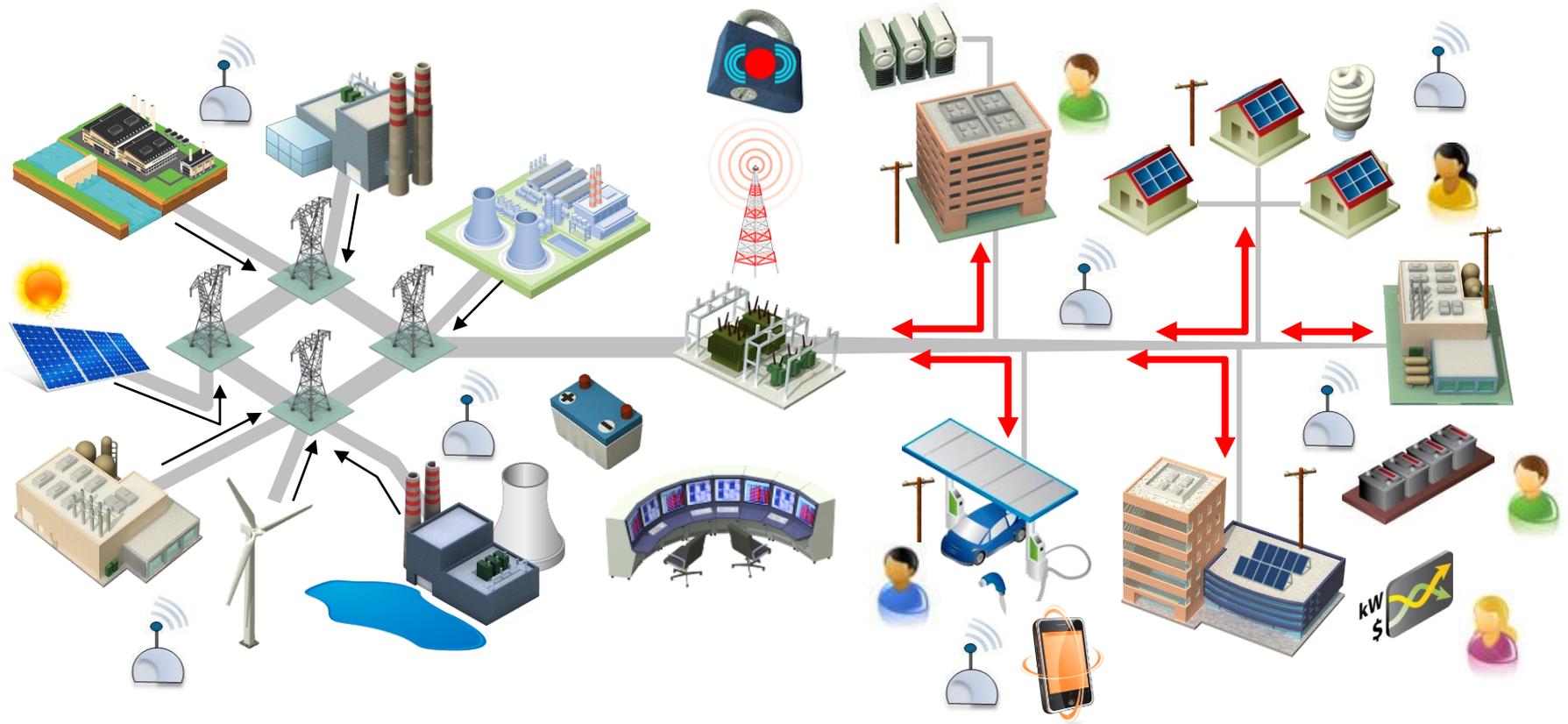


We've invested nearly \$4 billion in renewable energy

- We own and operate 16 wind farms and 24 solar farms across the U.S.
- Electricity from these farms can power more than a half-million homes.
- We're investing in solar power in our regulated regions:
 - In 2014, we announced a \$500 million solar expansion program in North Carolina.
 - As it currently stands, North Carolina is the fourth-largest producer of solar power behind California, Arizona & New Jersey.
 - We're accelerating our solar power efforts in South Carolina, as well.
 - We plan to add up to 500 megawatts of solar power in Florida by 2024.



The Electric Utility of the Future - Grid Modernization



← Communications and Information →

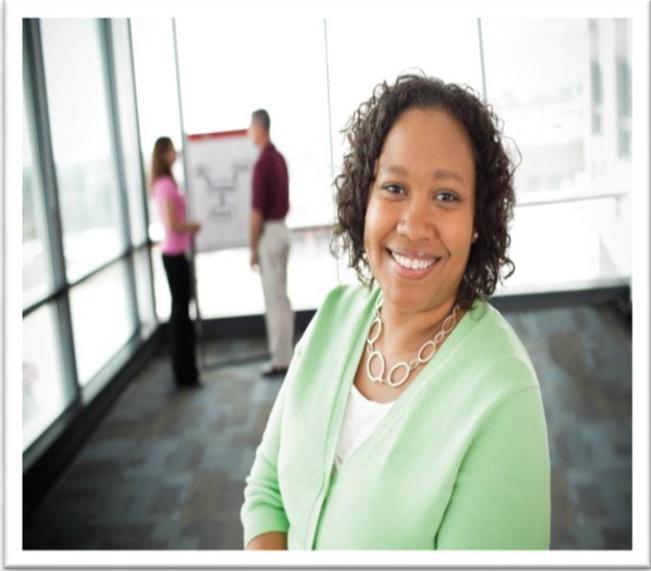
A Highly Interconnected Power System that Optimizes Energy Resources

We want to help YOU save energy and money

- Why? Because energy saved today helps us avoid having to build as many new power plants tomorrow.
- Our energy-saving programs vary by state and may include:
 - Personalized home energy reports and audits
 - Home improvement rebates
 - Light bulb discounts
 - High-efficiency equipment rebates
 - Appliance recycling credit
- Learn more at duke-energy.com/savings.



The power is in your hands

- Visit duke-energy.com to take advantage of tips and tools to save money and make life easier.
 - Energy calculators help you understand where your energy dollars are being used.
 - Outage maps share known outages and estimated restoration times.
 - Sign up to receive text message updates about outages affecting your neighborhood.
- 
- Use Twitter, Facebook, YouTube, Flickr and LinkedIn to:
 - Receive real-time alerts on storm and outage events, safety tips and helpful services
 - Learn how your power company is making a difference in the community

Energy Efficiency for Business

Boost Profits with a Twist.

One small change can bring big incentives.
And impact your bottom line.



New online application
for incentives.

Apply now

Find a trade ally for your
energy efficiency project.

Search

We aim to help our communities grow and thrive

- We help attract business and new jobs to our regions through:
 - Electric rates below the national average
 - Partnerships with economic development organizations, including chambers of commerce
 - Initiatives aimed at training workers with 21st century skills
- The Duke Energy Foundation, our philanthropic arm, focuses its investments on:
 - **Education** – STEM and early childhood literacy
 - **Economic and Workforce Development**
 - **Environment**
 - **Community Impact and Cultural Enrichment**



Community Volunteerism and Partnerships



Environmental Partnership



Summer Reading Program



STEM Outreach



Educational Partnership



Waterfront Cleanup



Powering Your Life

Appendix

Powering economic growth for over a century

