Moving Forward to a Smarter Energy Reality







- World-renowned research center in Niskayuna for 100+ years
- More than 3,000 GE Energy employees and 12,000 total GE employees
- 12 major manufacturing operations
- Executive training center in Crotonville
- Working with NY to deploy smart grid solutions
- GE Foundation donating nearly \$30 million to NYCarea education initiatives





We need more power

 By 2030, more than 60% of the global population will live in cities

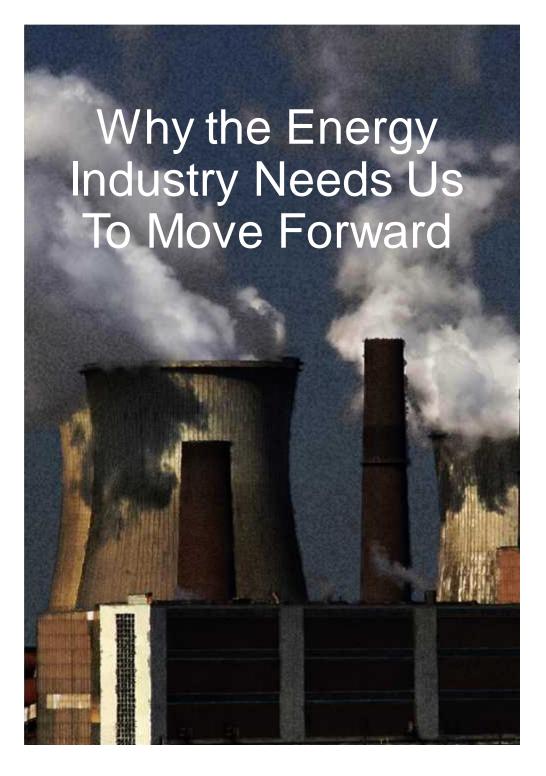
Power must remain affordable

 Double-digit price increases are already commonplace

Sustainability must be achieved

 More than 40% of our current emissions are from electric generation





- Industrialized nations are living on borrowed time
 - More than 50% of installed transformers are reaching the end of their design life
- Emerging economies will compete for resources
 - Per capita electricity use will soar around the globe
- Prosperity vs sustainability
 - Competitiveness will be determined by our ability to grow in a prosperous yet sustainable manner

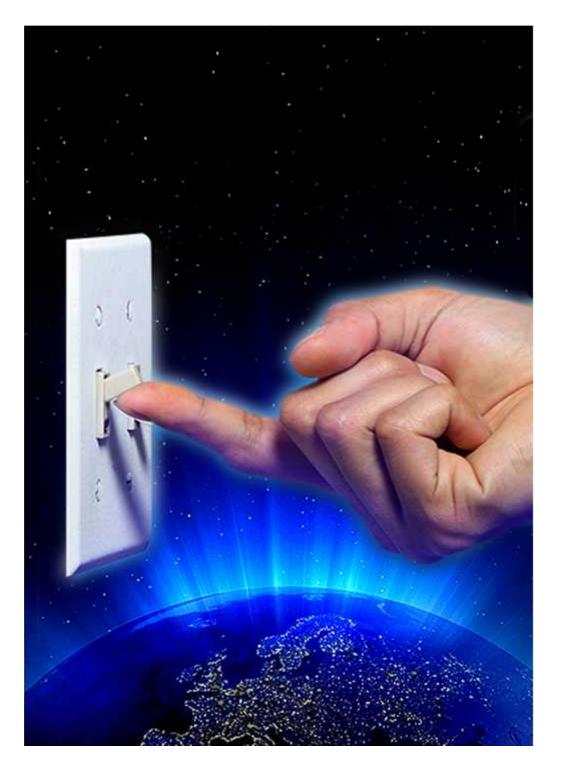




There is no "Smart Energy" switch...

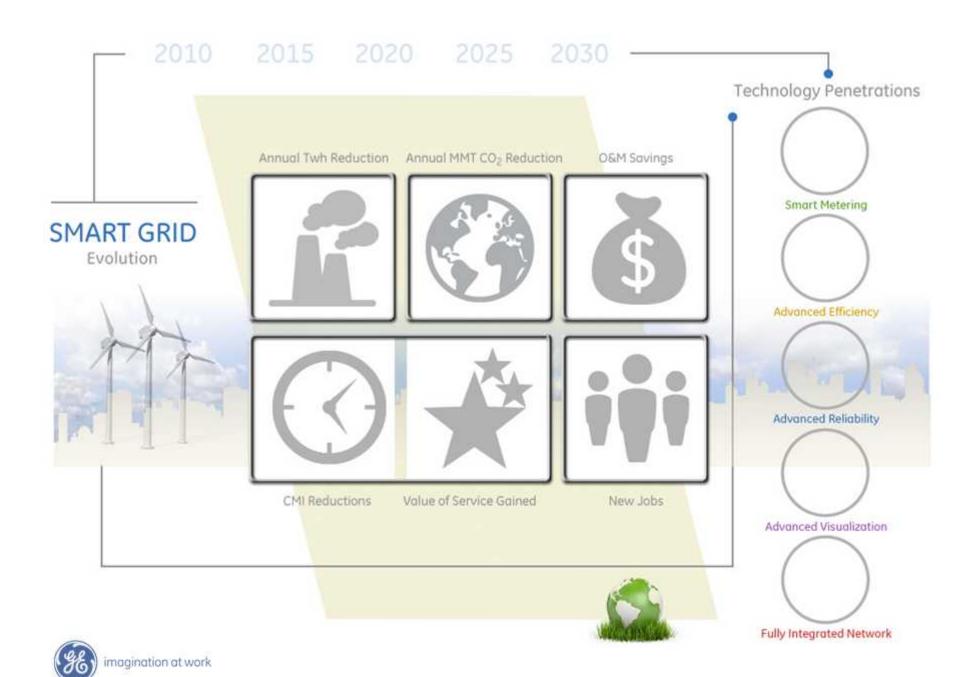
to solve our power problems

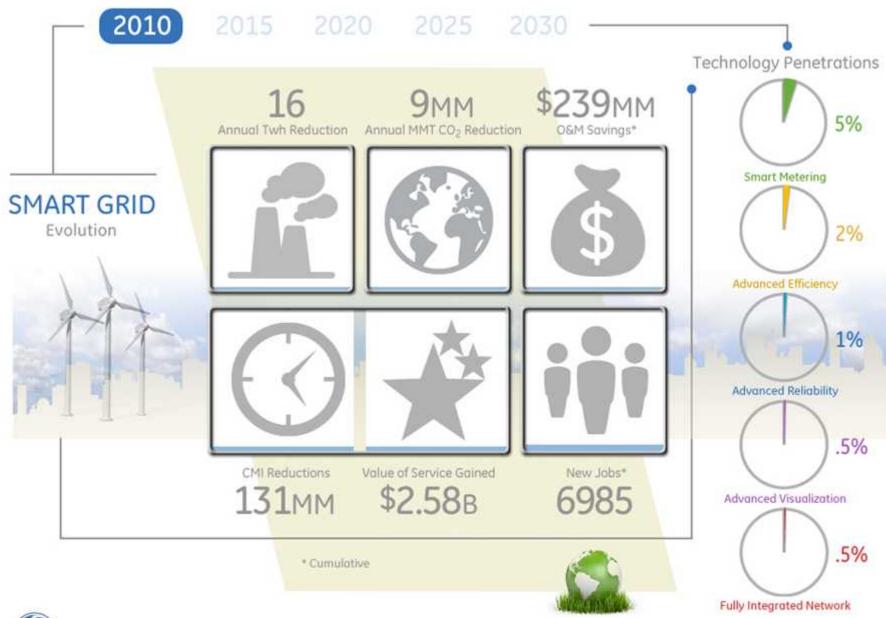




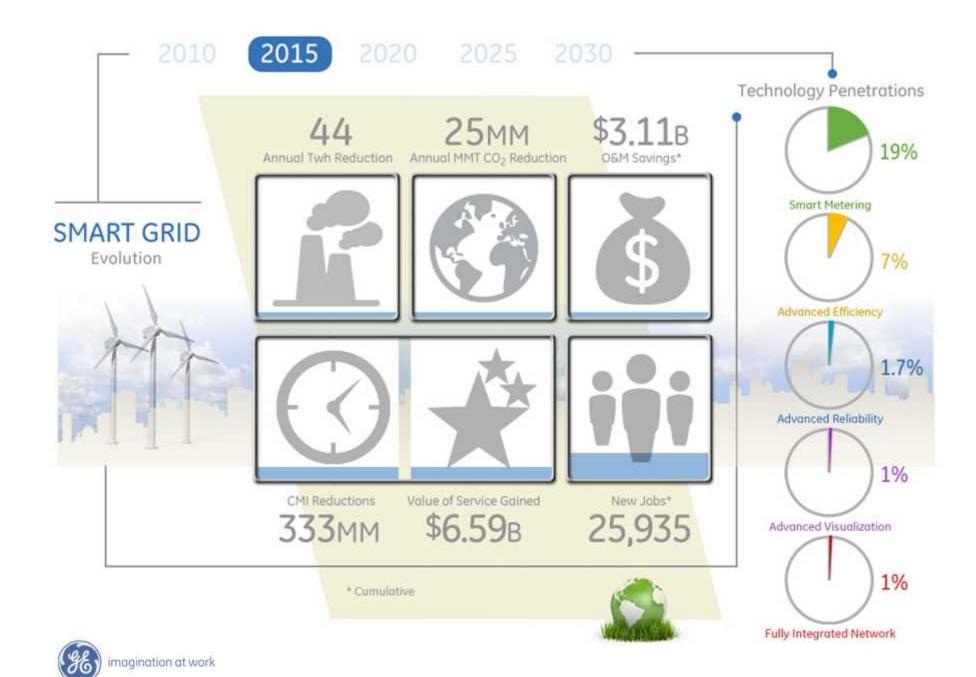
- Today's investments build the foundation for a sustainable energy future
- As our energy landscape evolves, benefits will kick in gradually
- Ratcheting up our collective Grid IQ moves our energy prospects from dim to bright

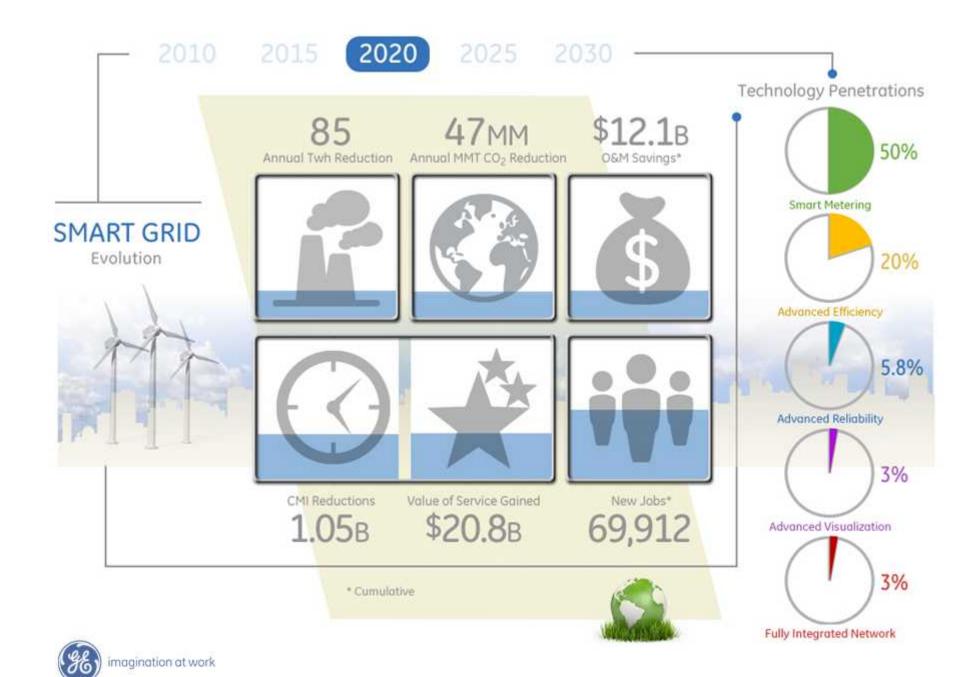


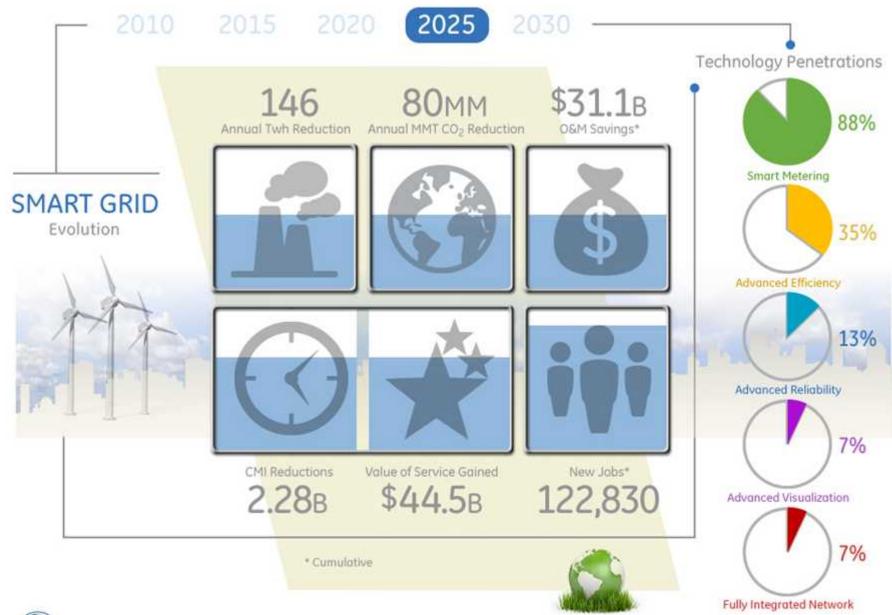




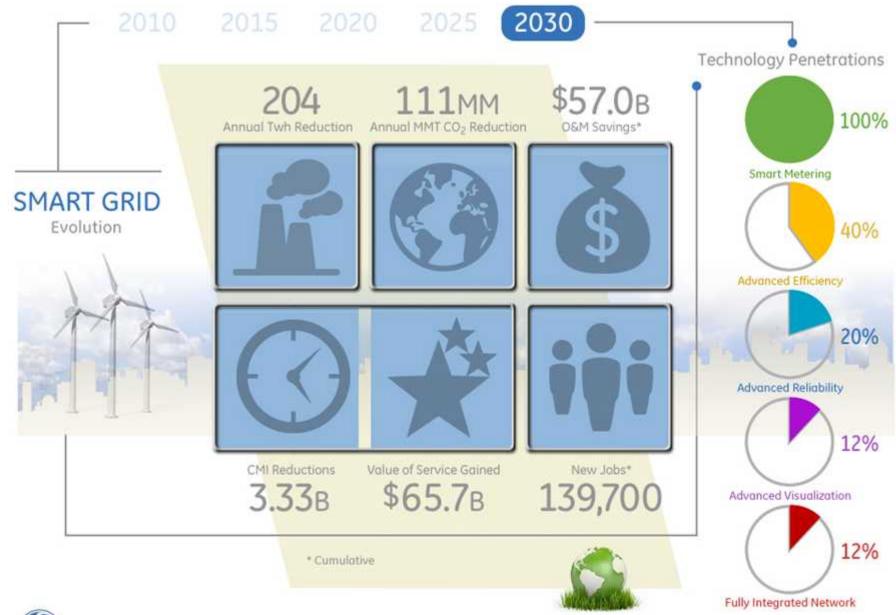




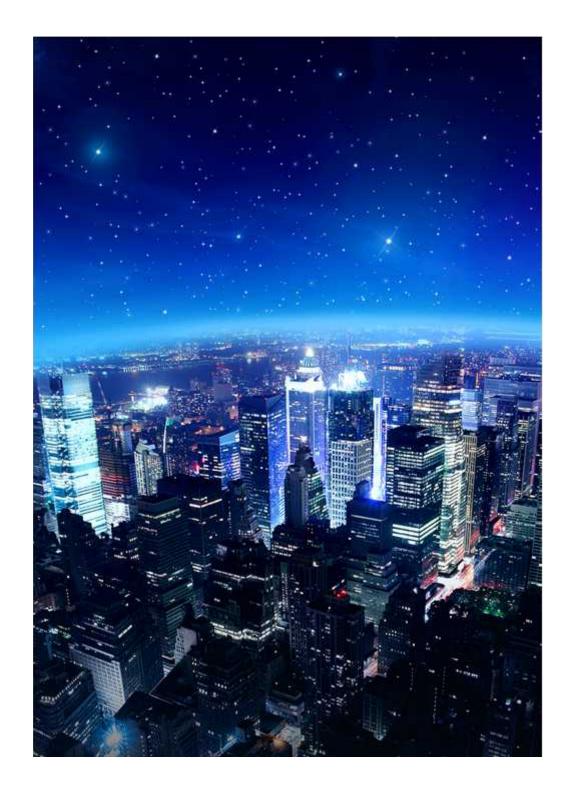








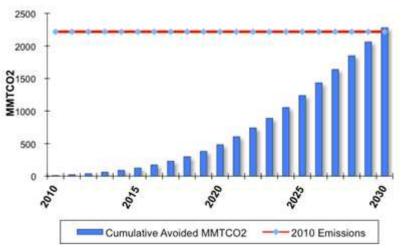




Net result:

Like 2010 never happened

If these very conservative smart grid adoption estimates prove true, the savings will exceed our total electrical consumption and electrical CO₂ output for 2010







More Results: New lifestyle options

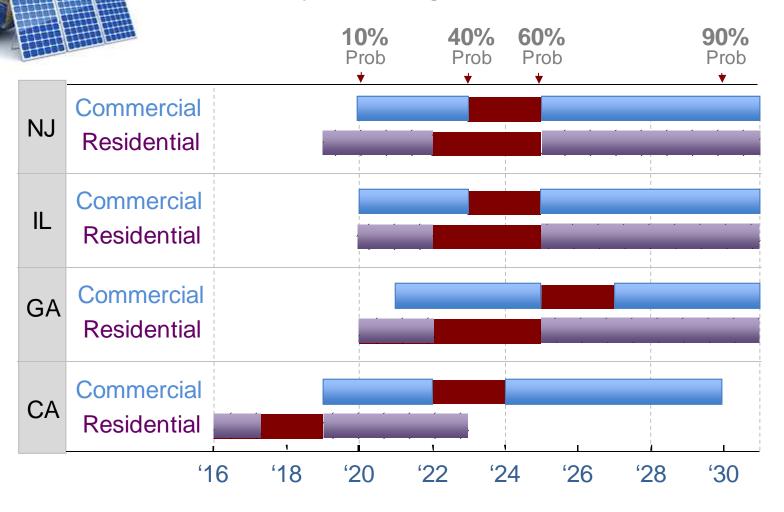
- 73% of cars, SUV's and pickup trucks or 84% of light duty vehicle fleet could be powered by <u>existing</u> electrical generation, transmission and distribution*
- Green house gas emissions ... reduced 27% max
- Organic compounds down 93%, CO₂ down 98% and NOX down 31%
- Reduce oil imports by 6 million barrels per day

barrels per day
*Impacts assessment of plug-in hybrid vehicles on electric utilities & regional U.S.
pow er grids Pacific Northw est National laboratory, Nov. 2007



More Results: Mainstream distributed solar

PV Grid Parity is Coming ... without incentives



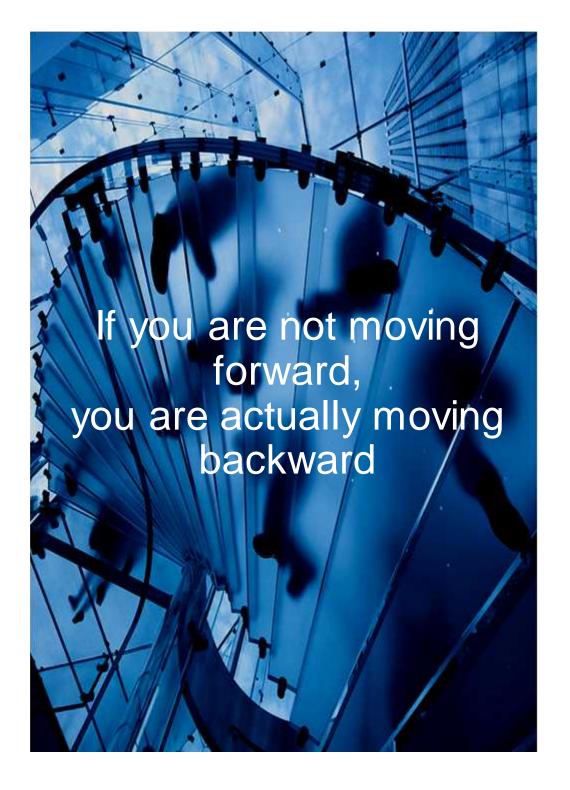


10-25% IRR's today in AZ, CT, HI, MA, NJ, & OR with incentives

Smart Policies Help Us Move Forward







- Energy-savvy regions will leapfrog late-adopters in business, lifestyle and opportunity
- The revolution begins with the first steps of the evolution
- Smart grid technology and software foundations are scalable, adaptable and flexible for future breakthroughs
- Forward-thinking decisions today ensure a secure, robust energy tomorrow

