# Speeding Solar Deployment

# A local company leveraging global capabilities

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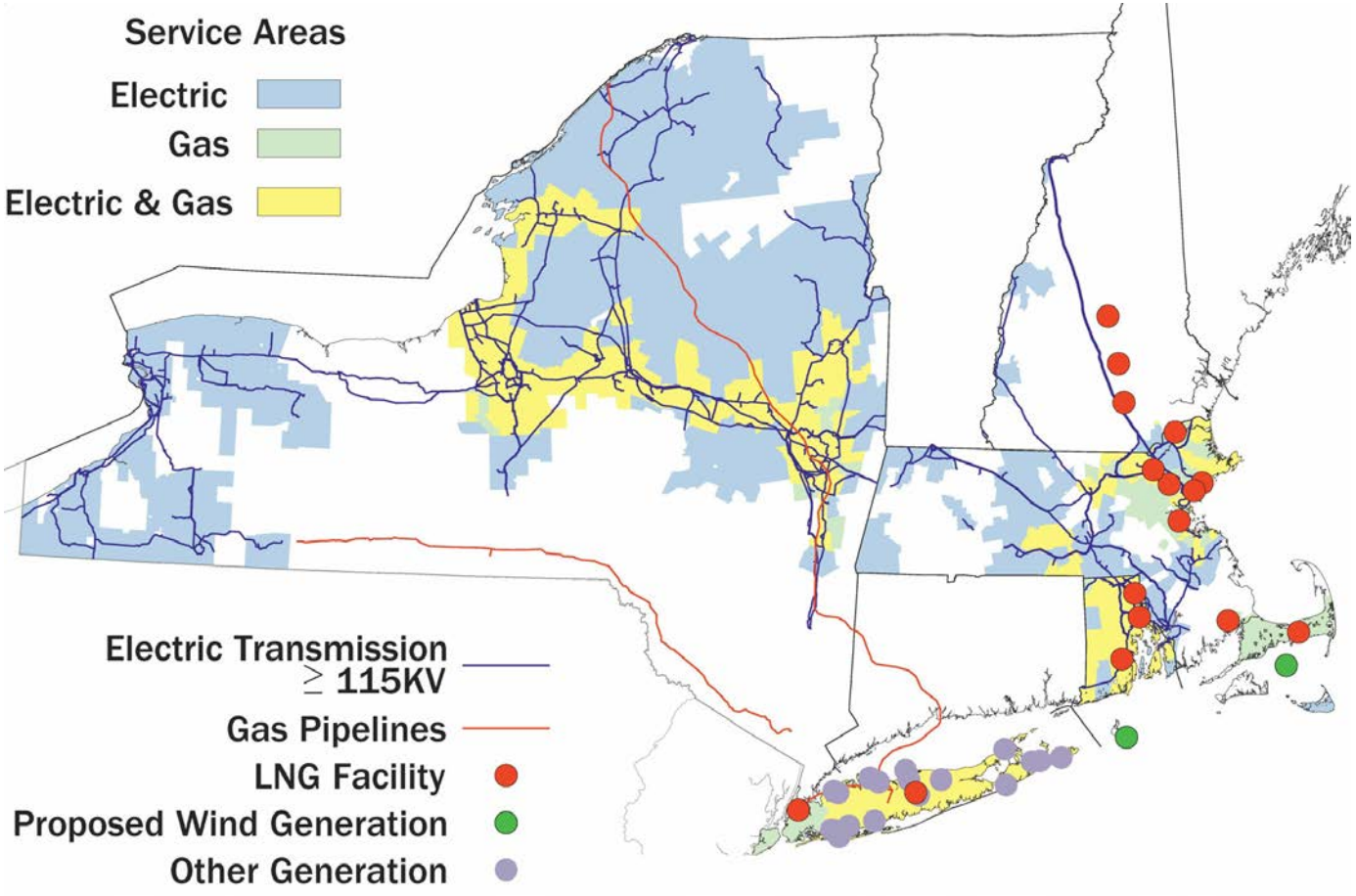


- **Customers**
  ~ 7 million
- **Transmission & Distribution**
  Over 120,000 miles of pipes and wires
- **Electric Generation**
  ~4100MW on Long Island
- **LNG Storage**
  9+ Bcf
- **Employees**
  over 15,900

# We are committed to growth and innovation that starts and ends with our customers

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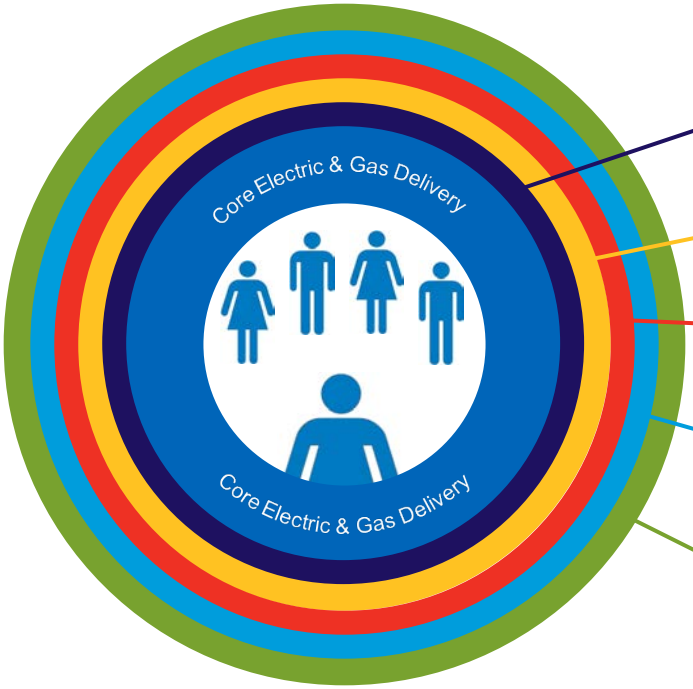


***Gas Growth***
*Making the switch to natural gas*

***Energy Efficiency***
*Discovering value in using energy wisely*

***Alternative Fuel Vehicles***
*Turning to National Grid for your transportation needs*

***Distributed Generation & Storage***
*Producing energy and strengthening the system*

***Grid Modernization***
*Experiencing the convenience and choice of the modern grid*

"Minimizing our impact on the environment while delivering safe, secure and economic supplies of energy to customers is not an option, it is a must."

– Steve Holliday, National Grid CEO

# Solar deployment is accelerating and much can be learned from the progress

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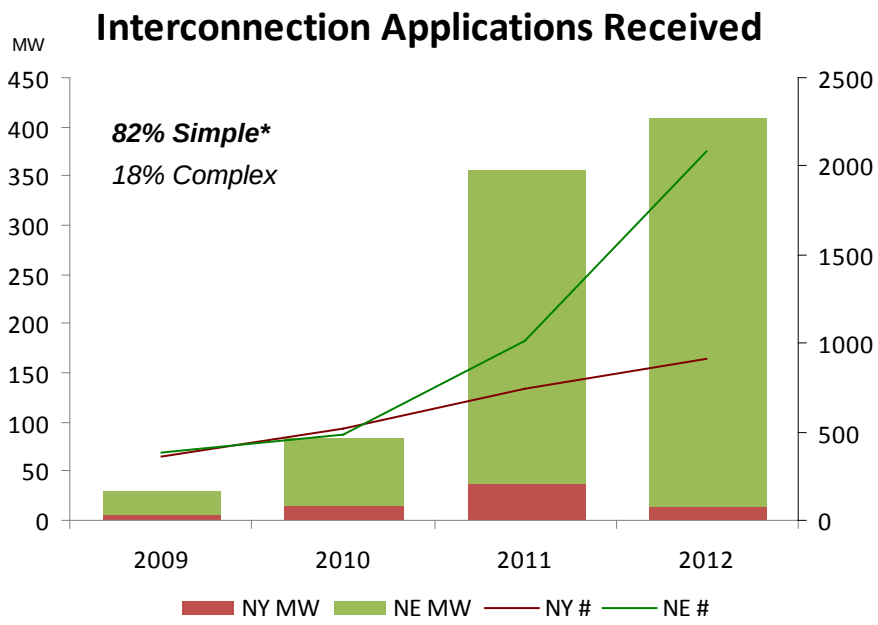


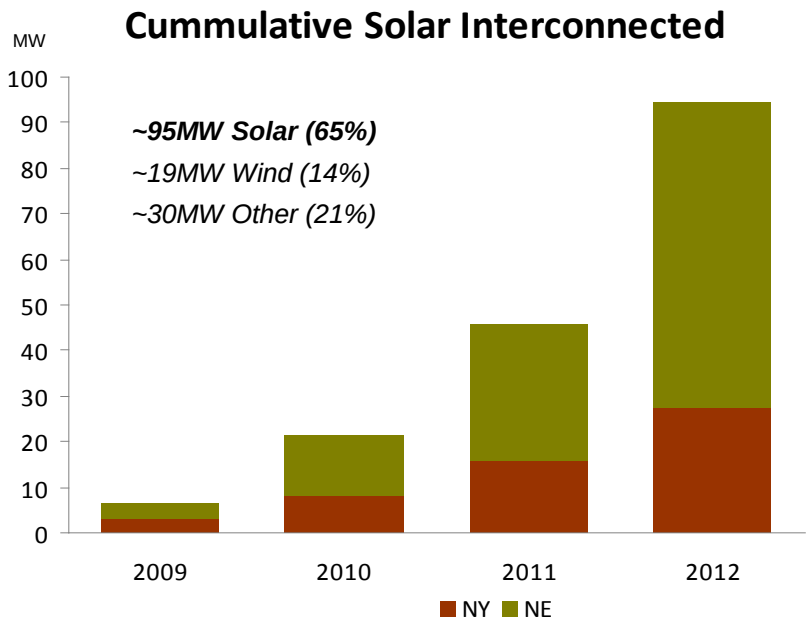


- Interconnection resources reorganized and increased by more than 50% in two years
- Process re-engineered…twice…due to shifting market dynamics and customer needs
- Customer communications increased through workshops and webinars

- Reaching greater velocity with simple projects and simplified process (2,500+ in 2012)
- For complex projects, technical challenges evolving with new & unique situations
- Real safety and design issues persist
- Shared understanding of distribution system and technology constraints remains limited

*Simple - <10kW (now 15kW) in MA, <25kW (now 50kW) in NY

# Looking ahead, three priorities for speeding solar deployment

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1. **Put more solar where it makes the most sense**
   - More, better information sharing
   - Expedited interconnection based on geography, size or configuration
   - Continued focus on safety, reliability and costs/benefit optimization
2. **Continue getting better at managing process variability**
   - Flexible resourcing and separation of screening from project management
   - Group study and cost sharing
   - On-line application and better queue management
3. **Drive technology and innovation…modernize the grid**
   - Implement solutions which solve real technical or safety constraints at lower costs (e.g. PLC) and which support operability (e.g. inverter controls)
   - Design and build for flexibility (e.g. two-way power flow) and visibility (monitoring)

***Progress through collaboration…with customers, industry, government, and other stakeholders***