

# Smart Grid: A Duke Energy Perspective



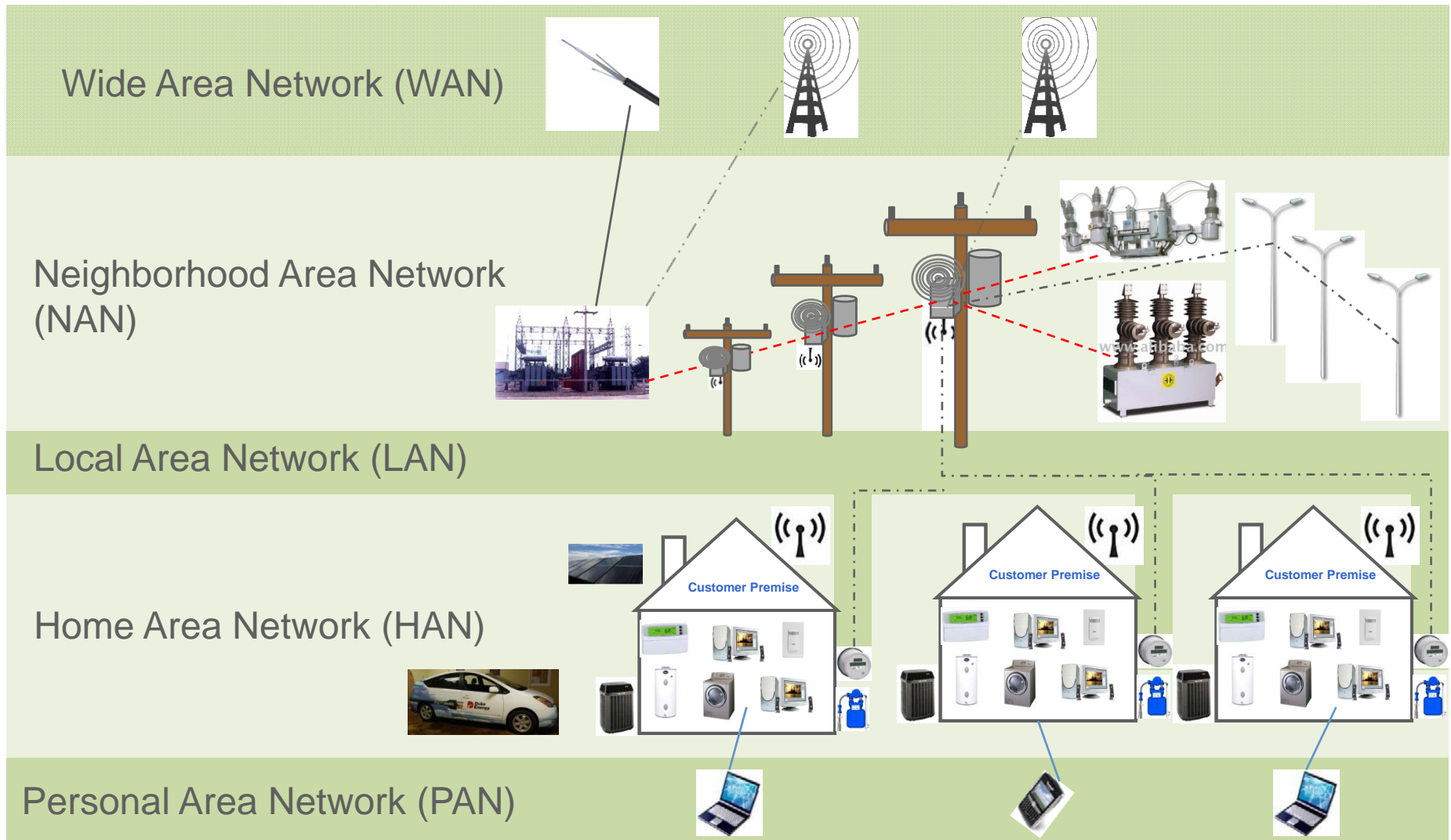
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# My Personal Perspective



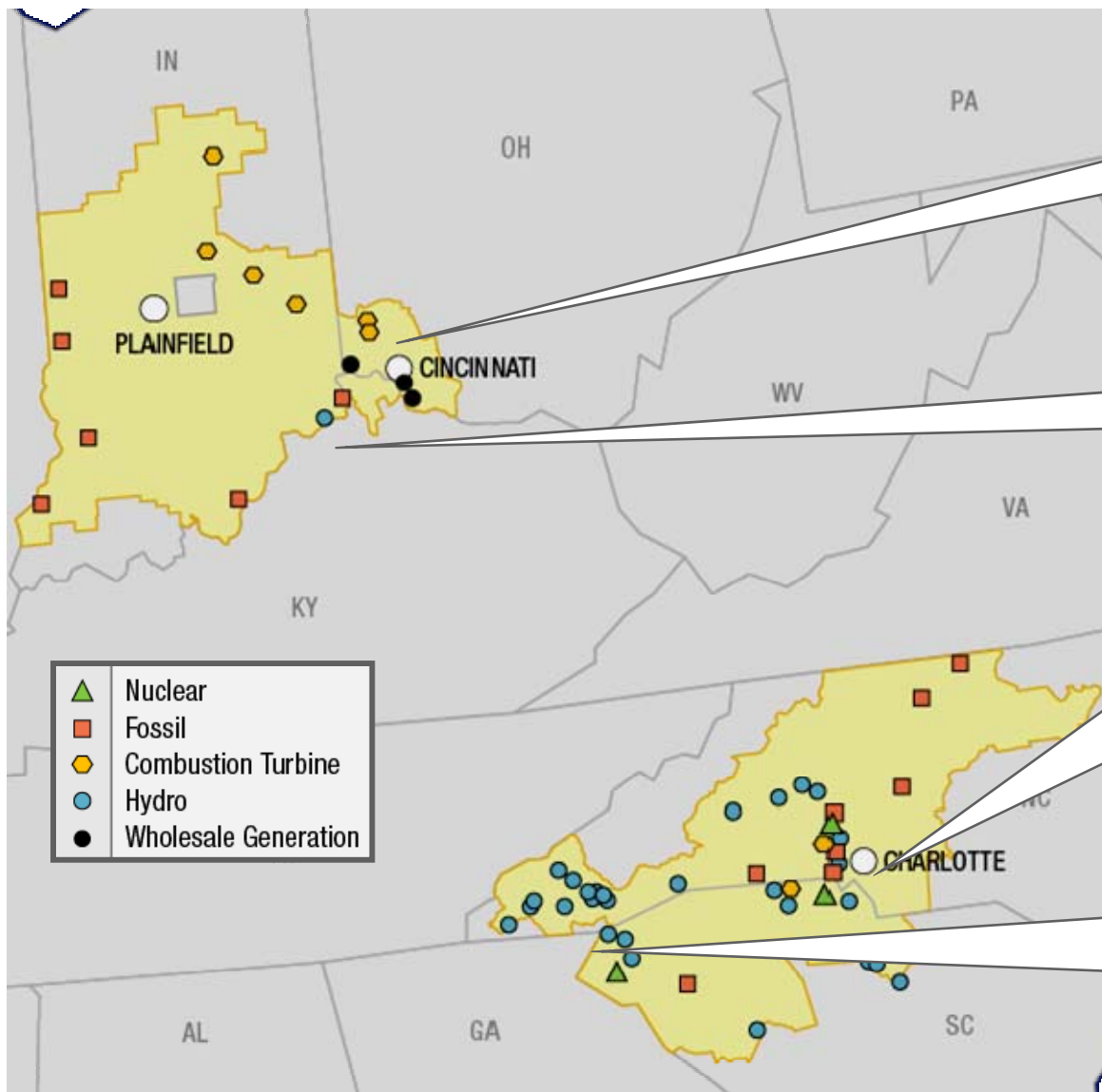
# Smart Grid – Intelligent Network



- Smart Grid will transform the way customers manage energy...
  - Shifting the paradigm of assisting customers from paying reactively to managing proactively
  - Proactively detecting and resolving problems
  - Preventing and shortening outages
  - Improving service, reliability and power quality
  - Helping customers conserve energy and save money
  - Preserving the environment
- Smart Grid is necessary to provide smarter energy solutions and easy-to-use tools for customers and enable Duke Energy to meet future energy needs in a low-carbon environment.



# Duke Energy Smart Grid Efforts to Date



## *OH Overview*

- Deployment is underway to replace ~ 50,000 electric meters and ~ 40,000 gas modules in 2009.

## *KY Overview*

- In 2007 and early 2008 we deployed 37,300 electric AMI meters and 25,800 gas modules.

## *NC Overview*

- 4,800 electric meters were deployed in South Charlotte in early 2008. We plan to deploy an additional 10,000 in 2009. This area is an ongoing test bed for products and services related to the Smart Grid

## *SC Overview*

- 6,850 smart meters have been installed. We continue to test configuration of communication and endpoints in this area.



 **Envision Center**

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