

Microgrids for Enhancing the Grid Resiliency

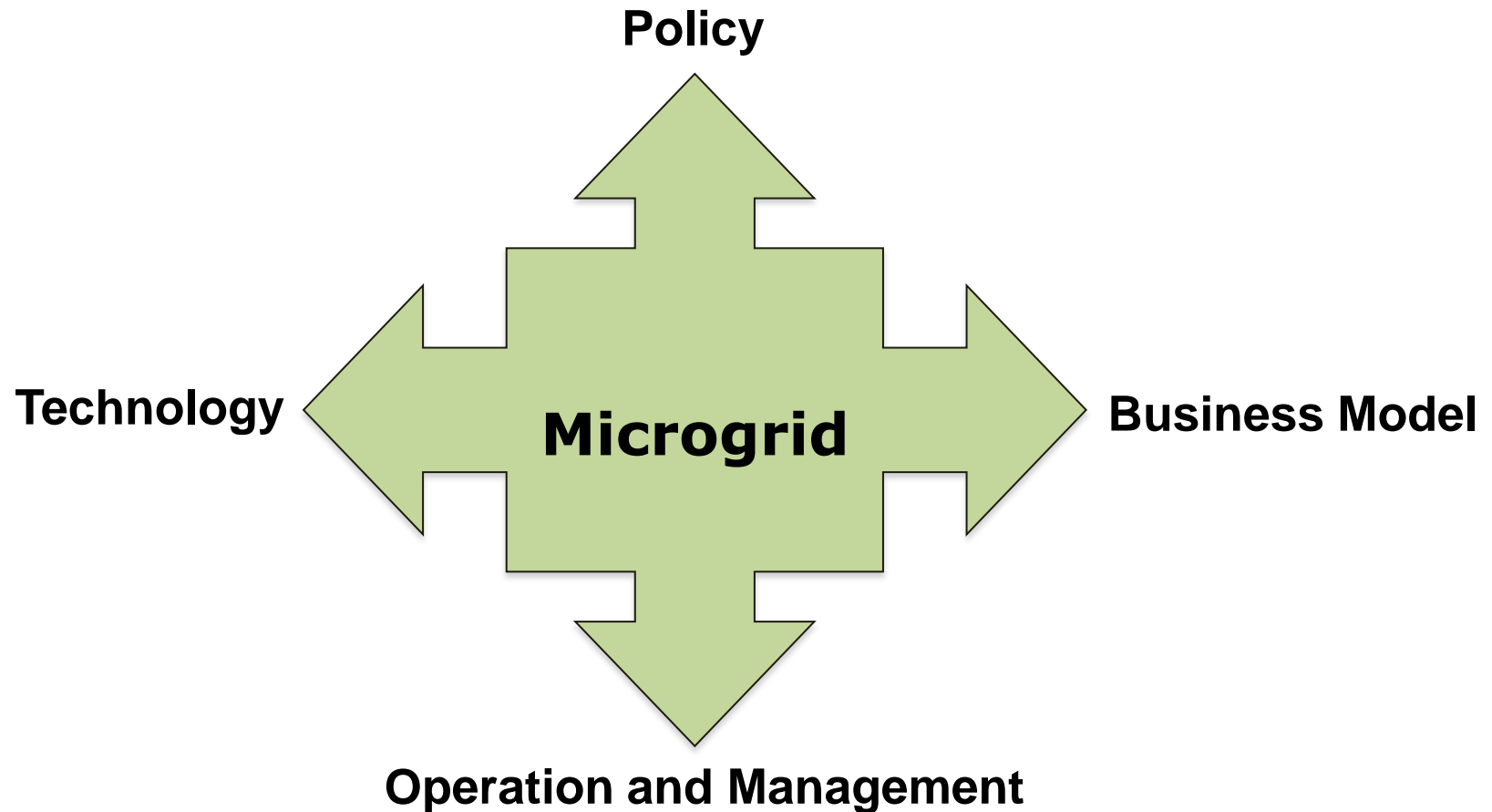
Chair: Shay Bahramirad, S&C Electric



DOE's Definition of Microgrid

- “A group of interconnected loads and distributed energy resources (DER) with clearly defined electrical boundaries that acts as a single controllable entity with respect to the grid [and can] connect and disconnect from the grid to enable it to operate in both grid connected or island mode.”

What Influences Microgrid?



Microgrid Deployment Tracker 2Q13

- North America:

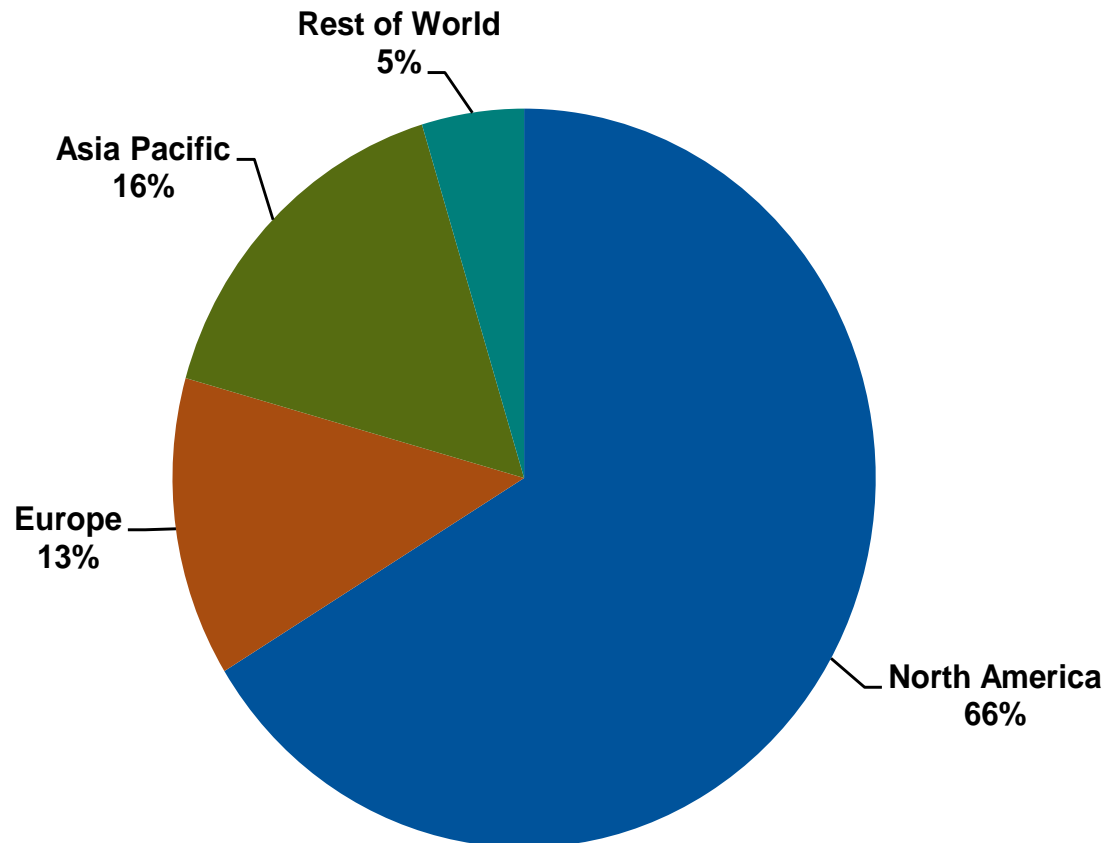
- 274 projects
- 2504.9MW

- Europe:

- 51 projects
- 507.75 MW

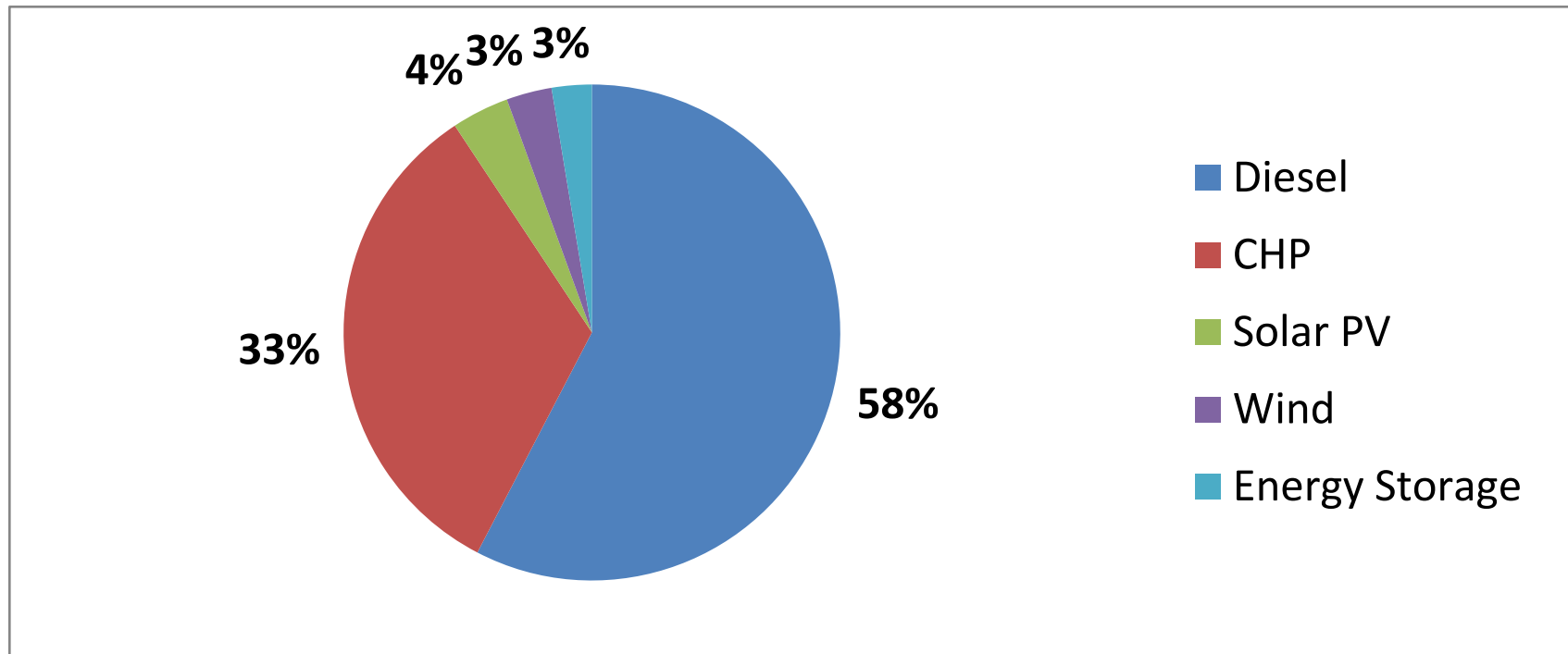
- Asia Pacific

- 109 projects
- 387.2 MW



Ref: Navigant Research

Type of Generation (MW)



Ref: Navigant Research

Today's Speakers

- **Math Bollen:** Microgrids and the Utility; a European perspective
- **Mark McGranaghan:** The Role of Microgrids in the Future Utility Network
- **Anuradha Annaswamy:** An Analytical Perspective for Evaluating Microgrid Resiliency
- **Tom Basso:** Analysis, Testing and Conformance: Establishing Microgrids As A Utility's Friend
- **Steven Pullins:** Citizen Microgrid