

# SEPA Briefing on Leveraging Grid Edge Integration for Resilience & Decarbonization

June 25 2021

## Clean + Modern Grid

Regulatory and Business Innovation | Grid Integration | Electrification

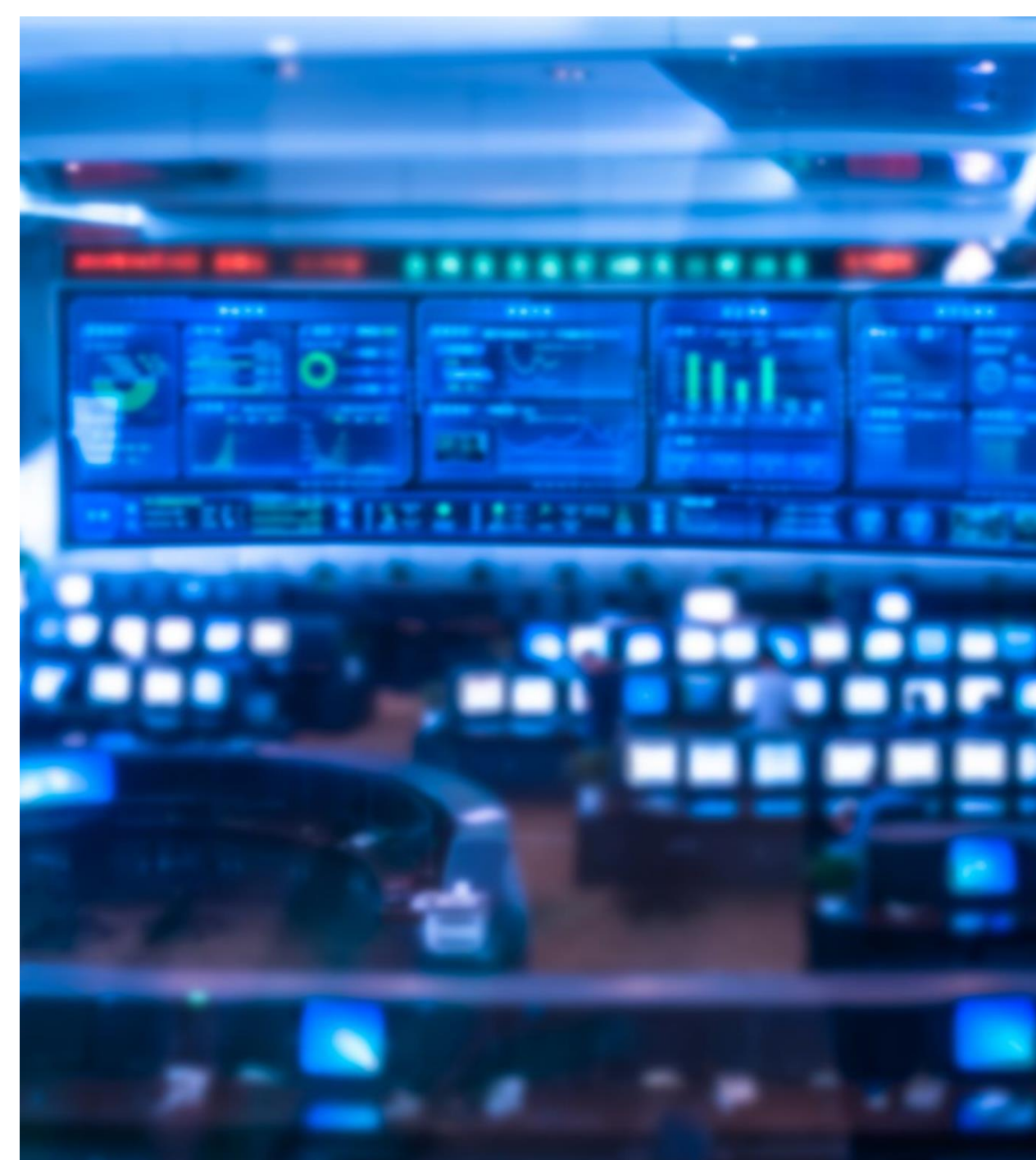


# Vision

A carbon-free energy system by 2050

# Mission

To facilitate the electric power industry's **smart transition** to a clean and modern energy future.





# Who Are We?



Smart Electric  
Power Alliance

A membership  
organization



Founded in 1992

Staff of ~50



Research,  
Education,  
Collaboration &  
Standards

Based in  
Washington, D.C.

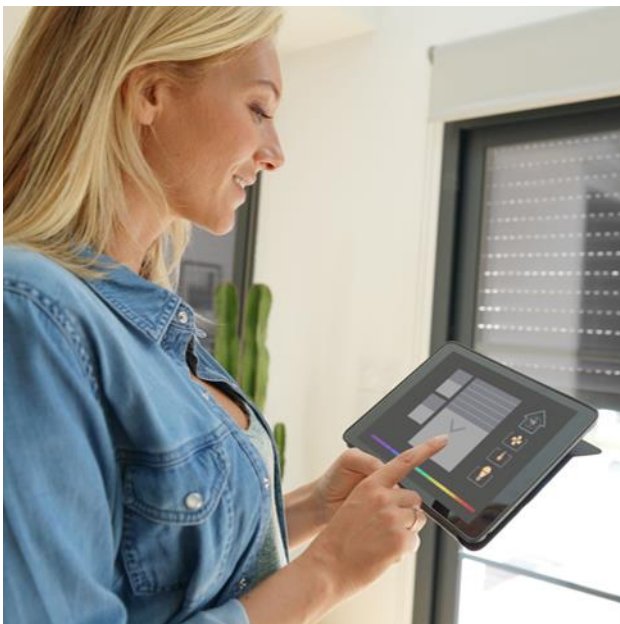


Unbiased

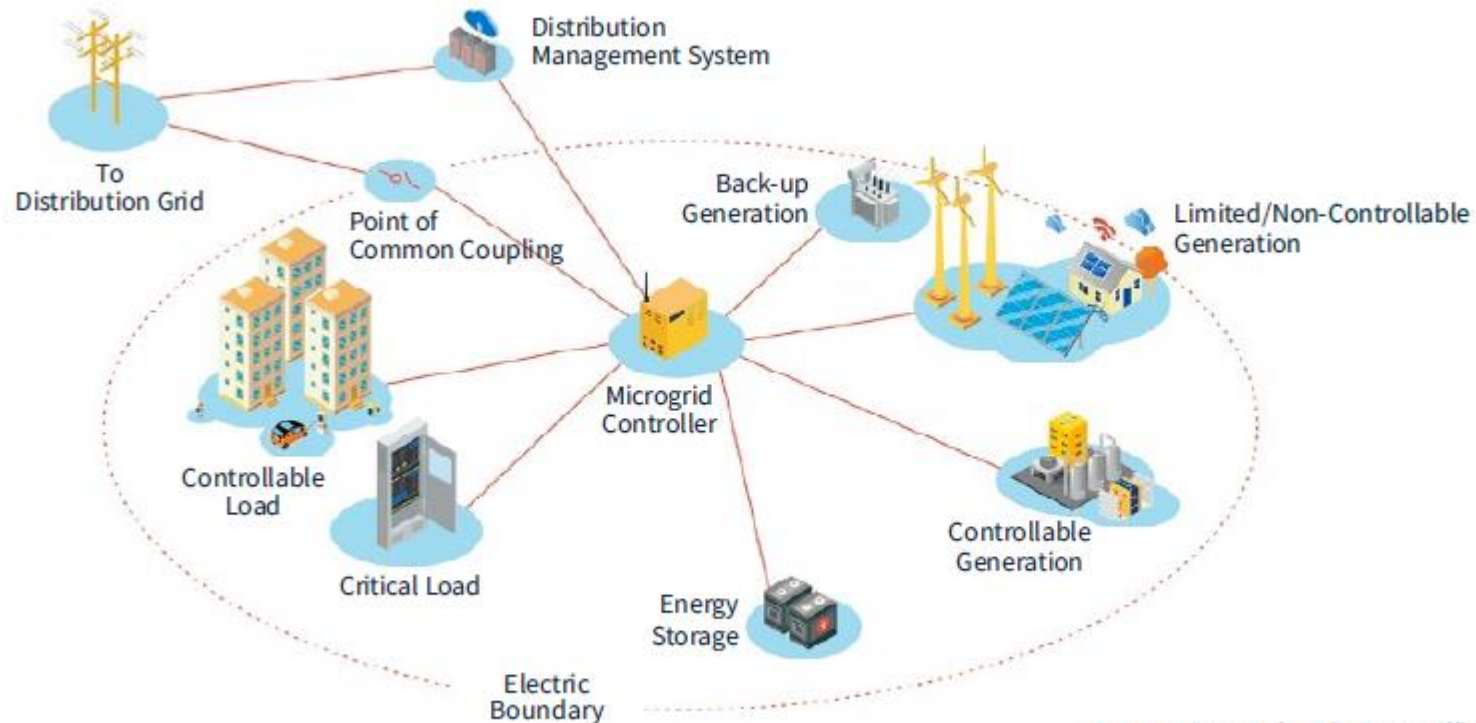
No Advocacy –  
501c3



Technology  
Agnostic



# Microgrid Overview



The **DOE** defines the **microgrid** as "a group of interconnected loads and distributed energy resources within clearly **defined** electrical boundaries that acts as a single controllable entity with respect to the grid."

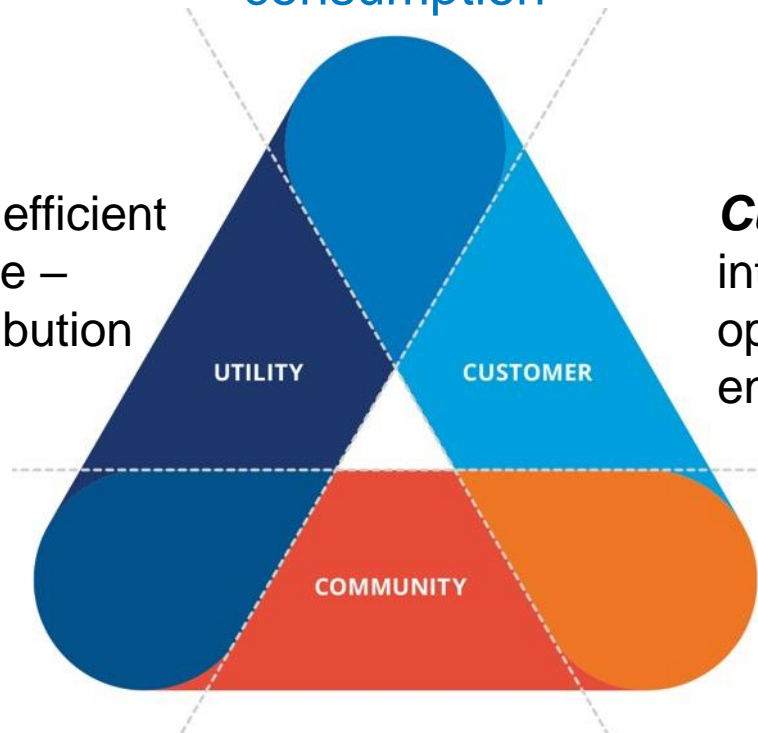
Source: Smart Electric Power Alliance, 2020

# Differing Perspectives on the Resilience Value Proposition

Reliability | continuity | lower consumption

**Utilities** value maintaining safe and efficient operations with highly reliable service – leveraging grid edge assets for distribution grid services.

**Customers** value avoiding power interruptions and maintaining critical operations and economic production – energy cost savings and energy efficiency.



National security | critical infrastructure | public institutions

Public health and safety | emergency preparedness

**Communities** value avoiding power interruptions and assuring critical services – access to clean and resilient power for all communities.

# Areas that need continued focus...



## Gaps

- Lack of standards and terminology
- Siloed and proprietary systems
- Utility Business Models
- Microgrid Provider Compensation Mechanisms
- Regulatory Frameworks
- Equal access to clean and resilient power



## Potential Solutions

- Standard Data Taxonomy
- Interoperability Frameworks
- Rate Recovery for Resilience Investments
- Contracts and Tariffs for Resilience Services
- Pilots and Demonstrations for Regulatory Sandboxes
- Stakeholder Informed Resilience Planning and Site Selection





# SEPA Research on Microgrids and Resilience



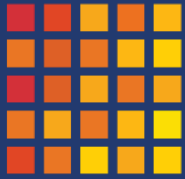
Commonwealth of Kentucky  
Regional Microgrids for Resilience  
Study

MEA Resilient Maryland Newtowne  
Twenty Microgrid Feasibility Study

U.S. Department of Energy Voices of  
Experience: Microgrids for Resilience

SEPA Microgrid Playbook:  
Community Resilience for Natural  
Disasters





Smart Electric  
Power Alliance

# Questions?

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