



The Value of Microgrids During Societal Disruption



Moderator: Elisa Wood (Microgrid Knowledge) Editor-in-Chief

Speakers:

- 1. Erik Svanholm (S&C Electric) Vice President of Non-Wires Alternatives
- 2. Mark Feasel (Schneider Electric) President, Smart Grid
- 3. Ravi Pradhan (Siemens Digital Grid) Vice President of Technical Solutions

Resources:

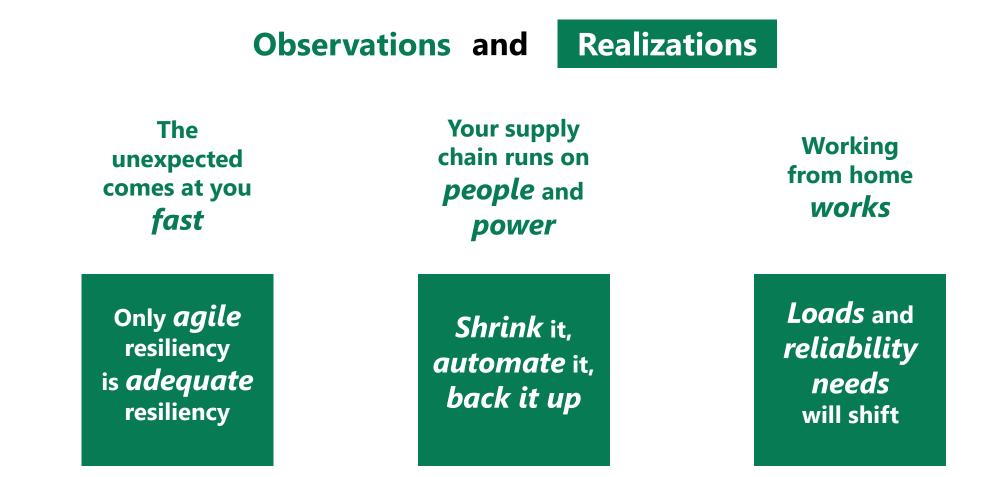
- Speaker Bios
- Ask the Experts: Q&A at End
- Microgrid Resources Library



COVID-19 and Grid Evolution: Early Indicators



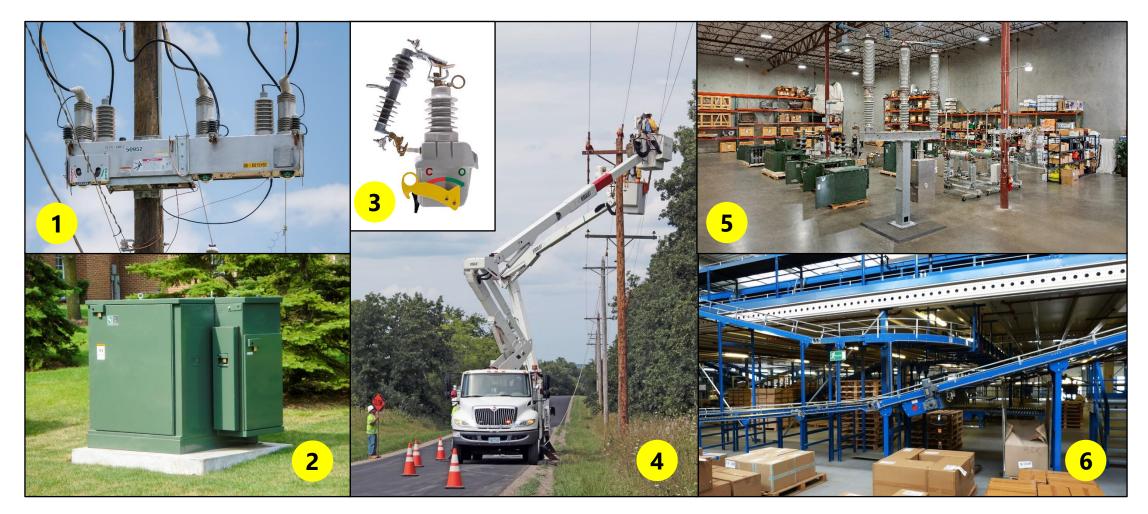
Erik Svanholm, VP Non-Wires Alternatives, S&C Electric Company





Resiliency responses on both sides of the meter







Microgrid outlook under COVID-19







Energy in an Unpredictable World



Mark Feasel

President, Smartgrid Schneider Electric North America

In our connected and urbanizing world, the ramifications of energy disruptions are much different than a decade ago

- Cellphone towers lost during California Public Safety Shutoffs impede ability of safety workers to collaborate
- The transition of healthcare to the home left many vulnerable during recent outages
- Food supply chains are threatened giving rise to indoor agriculture

Our approach to critical infrastructure must pivot to a new reality in which lower energy-intensity loads must be addressed (shopping centers, elder care, food processing, banks etc.)

- The custom engineered, highly bespoke solutions to hardening energy infrastructure of the past will not work
- Capital-intense solutions will not work for these types of consumers



Solutions for the New Energy Landscape

Technological complexity abstracted to the manufacturing facility and the cloud



Energy Control Center – a modular, flexible microgrid built in an assembly plant in Salisbury, NC that requires very little customization onsite



EcoStruxure Microgrid Controls – an edge to cloud based solution that simplifies onsite controls while providing sophisticated energy orchestration

Camuy Coopertiva, a credit union in Puerto Rico

Business models that remove capital constraints and transfer regulatory and technical risks

Energy as a Service

Schneider and Scale Microgrid Solutions design, build and finance a distributed energy solution for indoor farming company Fifth Season



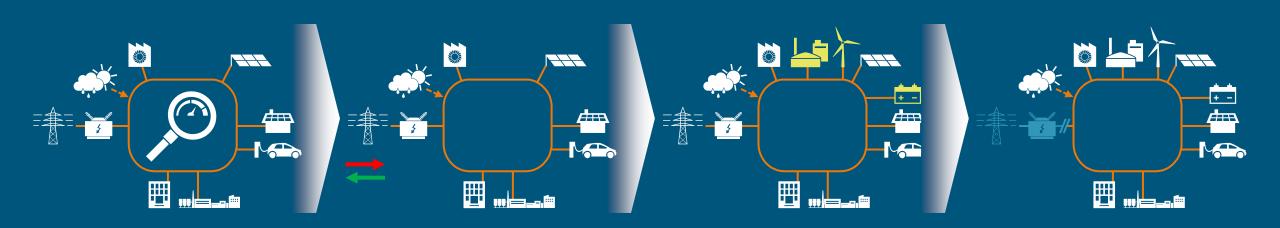




Ravi Pradhan, Vice President of Technical Solutions – Siemens

The COVID-19 crisis has shown us that distributed systems can function as long as there is the power to keep them running

Microgrids Grid Independence with improved reliability and resilience



Grid Independence

- Improve reliability and resilience by ensuring grid independence
- Improve sustainability

Visibility

- Collection of generation and consumption profiles
- Analysis of generation and consumption profiles
- Analysis of value streams

Optimized Energy Mix

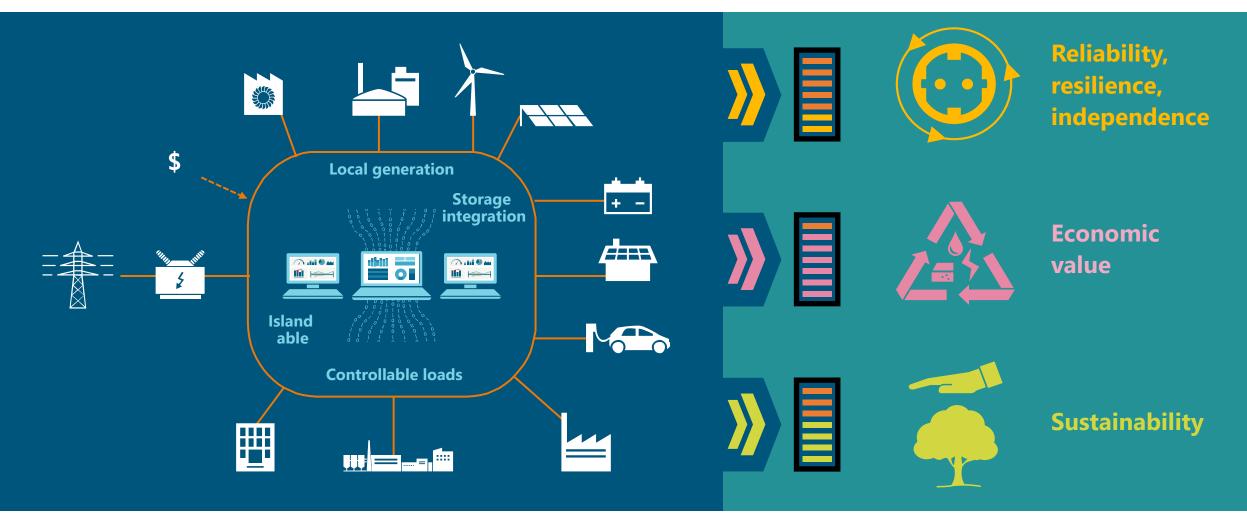
- Improve and optimize the microgrid generation mix to minimize energy cost or reduce emissions
- Improve sustainability

Optimized Value Streams

- Optimize generation, load profiles and energy purchase
- Improve sustainability



Microgrids with their management systems have value propositions that will be valuable as part of the recovery









Ask the Experts: Q&A Session

Type your questions in to the Q&A box

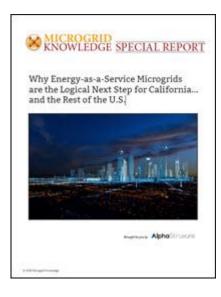
Microgrid Knowledge Virtual Conference Resource Library

Recommended Resources

Microgrid Resource Library

- www.ThinkMicrogrid.com

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Save the Date : Microgrid 2020 Conference Nov. 18-20 - Philadelphia, PA

Finance Session: Microgrids Have Leapt 'the Chasm.' What's on the Other Side?

- Plus 90 speakers in 30+ sessions on best practices
- 35 exhibitors
- Networking opportunities









Thank You!

Next Session: Healthcare & Microgrids: Ensuring Power When the Value of Resiliency is Immeasurable @ 2 PM Eastern