Berkshire Medical Center CHP Microgrid

How does CHP microgrid provide resiliency to healthcare facilities

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Berkshire Medical Center Overview

- Location - Pittsfield, MA
- Private, non-profit 307-bed community teaching hospital
- Rely on diesel generators for backup power
- If outage is long, or generator is down during grid outage, the hospital would have to evacuate.
“New distributed energy system at BMC to provide continuous, affordable, and reliable on-site power during regular operations and blackouts / emergencies.”

• Continuously provide medical services through long-duration electricity outages by using clean energy technologies.

• Reduce overall energy, both electrical and thermal, costs -- $500,000 expected reduction in annual energy costs.

• Reduce the dependency of diesel backups.
BMC CHP Microgrid Project Overview

- **Project Team Members:**
  - Berkshire Medical Center
  - AZ Corp
  - Siemens
  - Martin Energy
  - Massachusetts Department of Energy Resources

- **Project Main Scope:**
  - Design, Engineering, Construction, Commissioning and Start up
  - 725kW Siemens Guascor Engine
  - Siemens SiCAM Microgrid Controller
Summary and Lessons Learned

• Strong leadership both at hospital and state level
• EPC with similar project experience
• Major component (such as microgrid controller, generation asset) vendors with proven technology and project experience
• 3 C’s: Committed, Collaboration & Communication
• Nothing is too small for a microgrid
• KIS (Keep it Simple) to start with
• It takes a village!