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DEPARTMENT OF ENVIRONMENTAL PROTECTION

Energy Programs Office

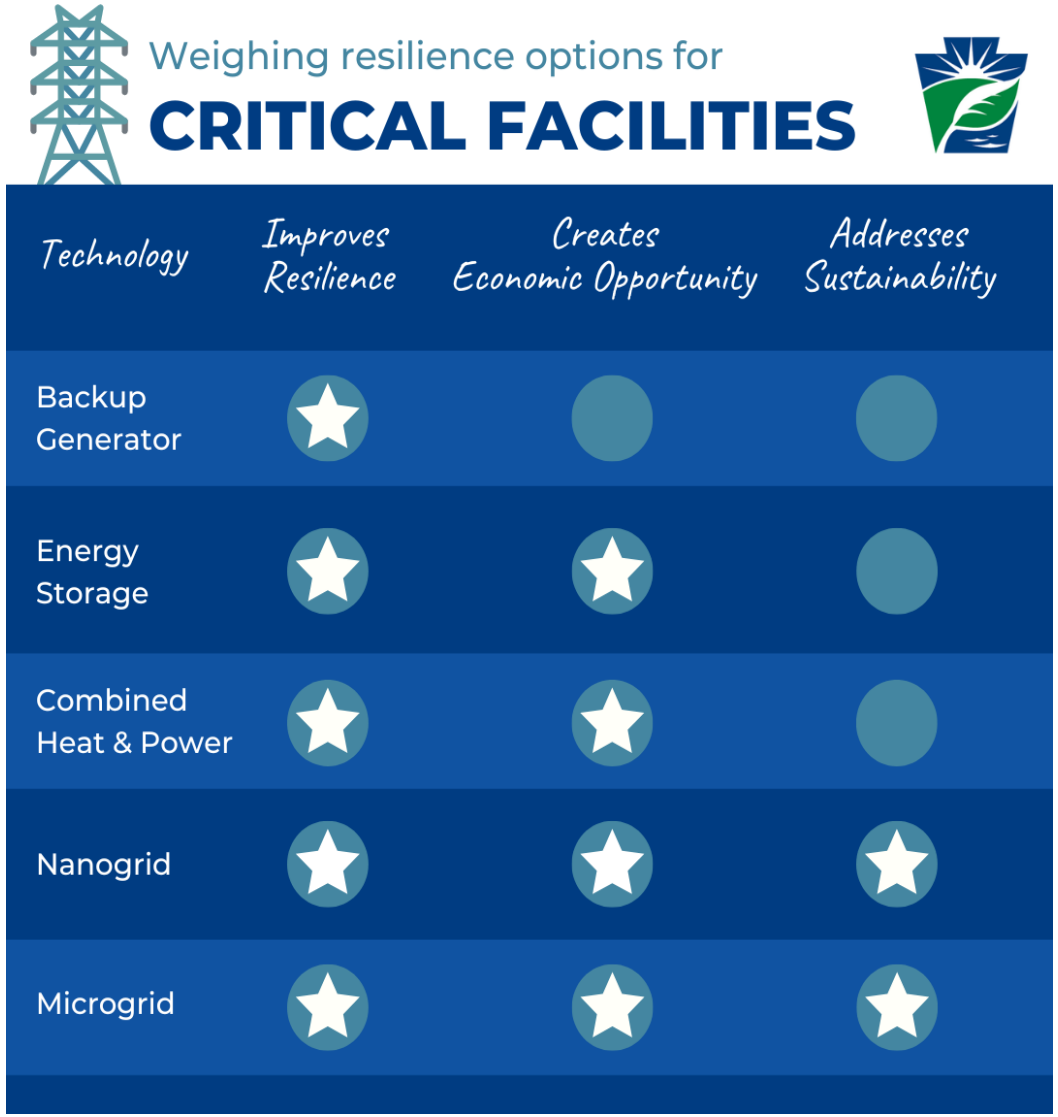
On-site Energy Generation and Storage in Your Community

November 4, 2022

Tom Wolf, Governor

Remez Ziadeh, Acting Secretary

Critical Facility Energy Resilience



LOOKING TO BECOME MORE RESILIENT DURING POWER OUTAGES?

With adverse events, such as severe weather and cyber threats becoming more common, it is important that we increase the resilience and reliability of Pennsylvania's critical facilities and infrastructure.

The Department of Environmental Protection is searching for owners and operators of critical facilities who are interested in increasing resilience to participate in a no-cost initial feasibility study for on-site energy generation and storage at your critical facility.

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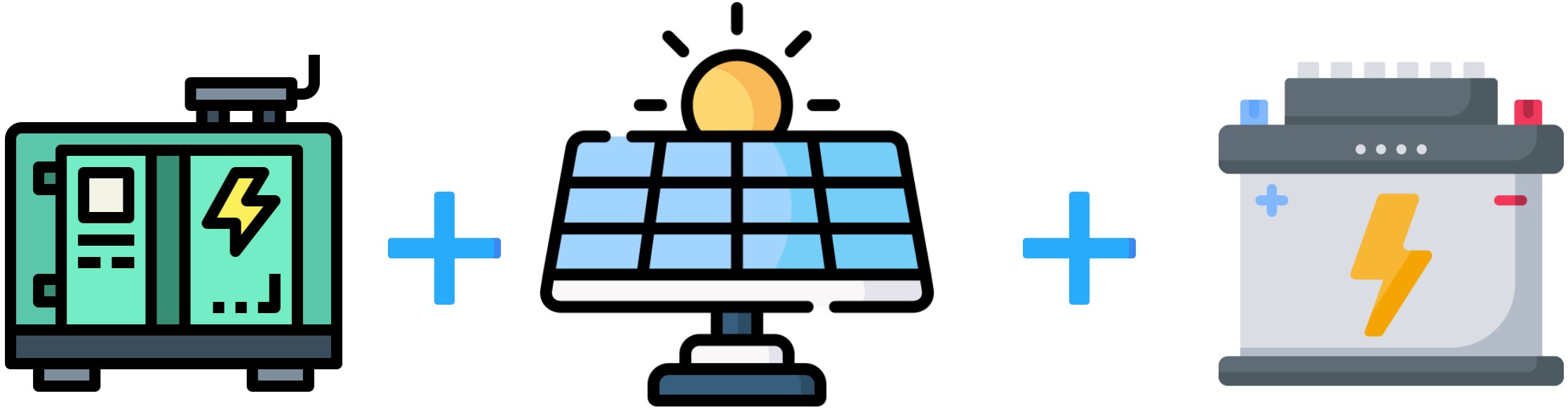
How can renewable energy work with diesel backups?



- Critical facilities typically have existing standby generators
- Adding PV solar and battery storage can improve resilience, economics, and environmental impact

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How Can We Help?

No-cost Feasibility Studies:

- Local, County and State bodies are encouraged to apply for one of five available no-cost project feasibility studies. Can be combined if multiple communities use the same asset.
- Analysis will assess the feasibility of energy-related resilience projects and will be performed by ProtoGen, Inc.
- Studies conducted will be sufficient for adoption into a hazard mitigation plan (HMP)
- Studies can also be used to seek funding or issue a formal RFP.

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Case Study: Sharpsburg Borough

- Investigated three buildings: Municipal Building; Public Works Building; and Gymnasium (used as shelter).
- Contractor gathered electrical use data and modeled solar potential on various roofs for installing back up power equipment to use in a 2-week power outage.

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Case Study: Sharpsburg Borough

Findings:

- Solar installed at Public Works Building and Gym can offset Sharpsburg Greenhouse Gas Emissions for their entire operations.
- Excess energy could be sold back to grid for a monetary incentive. Both buildings would be operational for two-week power outages in emergency scenarios.

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Learn More!

- View a pre-recorded webinar to learn:
  - How non-traditional backup systems are different from onsite generation, storage, and microgrids
  - What makes one a better choice than the others?
  - What grants or other funding sources are available for resilience projects
  - How resilience projects can be developed to maximize their impacts for communities
- Fill out survey to indicate interest in participating here: https://forms.office.com/g/jFHRKy1dZ6
- Start compiling billing information for electrical usage at facilities.

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