CHP / Onsite Energy Technical Assistance Tools from US DOE’s NY/NJ CHP TAP

The Pace Land Use Law Center for Sustainability (LULC) is pleased to announce the availability of *No Cost* Onsite Energy evaluations, supported by the U.S. Department of Energy’s New York / New Jersey Combined Heat and Power Technical Assistance Partnership (NY/NJ CHP TAP). Operated out of the Pace LULC, and with the assistance of three expert engineering / technical assistance contractors the NY/NJ CHP TAP offers free assistance for CHP and Onsite energy systems.

**Technical Services**
As leading experts in CHP (as well as microgrids, heat to power, and district energy) the CHP TAPs work with sites to screen for CHP opportunities as well as provide advanced services to maximize the economic impact and reduce the risk of CHP from initial CHP screening to installation.

Learn More about the LULC’s NY/NJ CHP TAP, funded by the U.S. Department of Energy
https://chp.ecatalog.ornl.gov/chp-taps

US DOE’s CHP TAPs cover all 50 states and Puerto Rico. If you are outside of NY/NJ Region find more information about the US DOE’s national network of CHP TAPs here at the Better Buildings Better Plants site
https://betterbuildingssolutioncenter.energy.gov/chp/chp-taps

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<th>Where are CHP/District Energy/Microgrid Systems Likely to be Sited?</th>
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<tr>
<td>Hospitals</td>
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<td>Mixed Use Developments</td>
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<td>Colleges / Universities</td>
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<tr>
<td>Wastewater Treatment Plants</td>
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<td>Food Processing</td>
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<td>“Smart” Uses of Food Waste</td>
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**Critical Infrastructure and Activities Requiring Resiliency**

"Critical infrastructure" refers to those assets, systems, and networks that, if incapacitated, would have a substantial negative impact on national security, national economic security, or national public health and safety."

Patriot Act of 2001 Section 1016 (e)

**Applications:**
- Hospitals and healthcare centers
- Water / wastewater treatment plants
- Police, fire, and public safety
- Centers of refuge (often schools or universities)
- Military/National Security
- Food distribution facilities
- Telecom and data centers
- Continuity of services

- Resiliency addresses life, health, safety matters
- It provides cooling and heating in emergencies
- It facilitates communication for first responders and emergency services
- It ensures adequate supplies of food and drink
- It allows financial transactions and avoids economic chaos

**CHP TAP Role: Technical Assistance**

1. **Screening and Preliminary Analysis**
   - Quick screening questions with spreadsheet payback calculator; Advanced technical assistance to explore equipment or operational scenarios.

2. **Feasibility Analysis**
   - Perform 3rd Party reviews of site feasibility assessments: Estimates on savings, installation costs, simple paybacks, equipment sizing, and type.

3. **Investment Grade Analysis**
   - Perform 3rd Party reviews of Engineering Analysis. Review equipment sizing and choices.

4. **Procurement, Operations, Maintenance, Commissioning**
   - Review specifications and bids.
Examples of Sites Using Microgrids

Wastewater treatment plants

NYU Langone Hospital
New York/ New Jersey
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For more information about the TAPs:
https://betterbuildingssolutioncenter.energy.gov/chp/chp-taps