

Critical Equipment Upgrade for Industrial Facility

\$12M Avoided CapEx
Large Chemical Manufacturer
New Jersey



Challenge

Aging infrastructure with no capital for upgrades.

The manufacturer required:

- Modern, reliable energy infrastructure
- Predictable long-term energy costs
- Reduced emissions
- No balance sheet impact
- No interruption to plant operations during installation

Solution

Renew funded and built the combined heat and power (CHP) plant and continues to operate it.

- Backed by 15-year Power Purchase Agreement (PPA)
- Federal and state incentive benefits passed to the customer through the PPA
- Installed an HRSG with supplemental duct firing to provide N+1 steam redundancy

Technology



**1 MW Microturbine
CHP Plant**



**Integrated with Site Energy
and Manufacturing Processes**



**20,000 lbs/hr Heat
Recovery Steam Generator
(HRSG)**



**Provides both electricity and
medium-pressure steam**

Outcome

- \$12M avoided CapEx
- Availability guarantee
- 4,621 MT of CO₂ reduction annually
- Construction and operating risk transferred to Renew
- Contracted long-term energy pricing with predictable annual escalation



RenewEnergy
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Powering What's Possible

Engineering + Capital for critical building infrastructure

>\$1 billion of C&I energy systems developed

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