



Photo Credit: Jake Snyder, Red Skies Photography

CASE STUDY

20 MW Fuel Cell Power Plant Repurposes Industrial Site

20 MW Fuel Cell Power Plant provides Grid Power and Heat Recovery to Campus Infrastructure

Our expertise in clean energy, fuel cell technology, and Combined Heat and Power (CHP) plants was vital to repurposing the former iconic Stanley Tools Works vacant site. Concord Engineering Group, the engineer of record for Phase 1, established a cogeneration energy source to support the Energy & Innovation Park in New Britain, CT that primed the site for redevelopment. Solution included the design and construction of an Ultra-Low Emissions 20 MW Fuel Cell Merchant Power Plant to provide grid power and heat to the Innovation District.

THE CONCORD DIFFERENCE

- Design and integrate a first-of-a-kind heat recovery system from the Bloom Energy Servers to provide thermal energy to an adjacent industrial facility.
- Hands-on approach working across teams minimizes construction costs and ensures a successful outcome.

THE CHALLENGE

- Revitalization of an iconic heavy industrial site.
- Convert DC Power and step-up voltage to meet electric grid requirements.
- Connection to the local utility.
- A legacy substation in need of refurbishment.

CONCORD ENGINEERING SOLUTION

- Design a 20MW Bloom Fuel Cell merchant power plant that provides low-emission Class 1 renewable energy exported to the NE ISO.
- Refurbish a legacy substation, allowing interconnection to local utility and design of supporting infrastructure.
- Provide all MEP engineering for the CHP plant and site distribution.
- Minimize construction costs.

+ LOCATION

New Britain, Connecticut

+ SERVICES

MEP Engineering
Engineer of Record
Energy Services

+ PARTNERS

Generate Capital
O&G Industries
Bloom Energy

+ TAGS

Fuel Cells
Power & Infrastructure
CHP Plants
Data Center
Campus Infrastructure
Cogeneration

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