

## CASE STUDY

# Energy Infrastructure Solutions

**A legacy brownfield site is being transformed into the Bellwether District, Philly's new sustainable development centered around e-commerce, life sciences, logistics, and data center infrastructures**

Brownfield project developers need innovative and flexible energy infrastructure solutions to support their development plans. Solutions that are comprehensive and allow a developer to assess options for renewable energy, energy storage, demand management, grid arbitrage, resiliency, and microgrids, ahead of major capital investments.

### THE CONCORD DIFFERENCE

- Concord's knowledge of energy markets and commercial energy procurement strategies informs our economic modeling, avoiding utility costs, demand management, and power sales agreements.
- Concord's experience in developing early-stage concept energy infrastructure designs with economic modeling allows our clients to assess options for buildout and deployment of capital.
- Providing detailed engineering for electrical distribution onsite power and utility interconnection.

### THE CHALLENGE

- Develop a comprehensive microgrid / distributed generation solution to support client's redevelopment of a brownfield site.
- Develop energy infrastructure concepts to inform the client's business model and development efforts.
- Incorporate flexible and mobile power generation solutions.

### CONCORD ENGINEERING SOLUTION

- Multi-distributed energy resource solution maximizing PV solar and using Battery Energy Storage and natural gas-fired power generation for firm power
- Using our experience Concord developed energy density and use models for client development plans that were used to size the microgrid energy infrastructure concepts.
- Assessed status of legacy medium voltage substations for refurbishment
- Unique AC/DC local load centers to support deployment of battery energy storage and PV solar

### + LOCATION

Bellwether District,  
Philadelphia, PA

### + SERVICES

Design Engineering  
Program Manager  
Energy Services

### + TAGS

Brownfield Redevelopment  
Energy Infrastructure  
Natural Gas Fired Power  
Utility Scale Power  
Renewable Energy  
Energy Storage

## GET IN TOUCH

[concord-engineering.com](https://www.concord-engineering.com)

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