



PowerSecure



# Borough of Berlin, PA

## Microgrid

An integrated solution for reliability and cost-savings  
to beat extreme weather and rising energy costs

**CASE STUDY**

## About the Customer

The Borough of Berlin, Pennsylvania, is a small town, located in the mountains, serving approximately 1,150 electric customers. It buys wholesale power from American Municipal Power of Ohio and then distributes it to its customers.

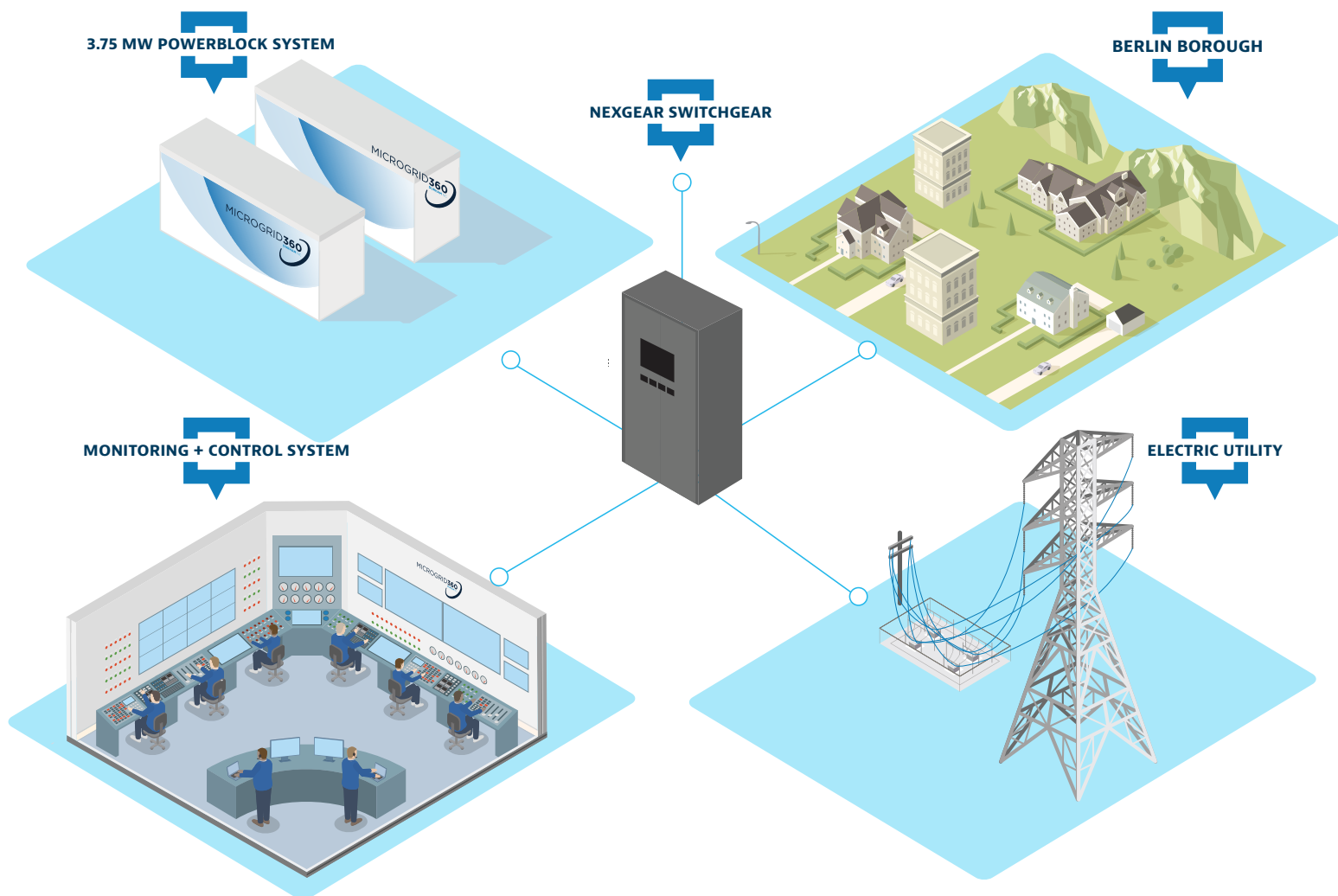


## The Challenge

The Borough of Berlin often experiences extreme weather, resulting in frequent power outages. At the same time, wholesale electricity rates were rising. Frequent weather-related outages and rising electricity costs led Berlin to seek a highly reliable and affordable alternative energy solution.

# The Solution

In seeking a reliable energy solution, Berlin selected PowerSecure to engineer, construct and install a fully integrated 3.75 MW diesel-powered Tier 4 Final PowerBlock generation system that incorporates proprietary NexGear switchgear and controls, provides 100% backup power and enables peak shaving and demand response operation.



# Benefits to the Customer

PowerSecure's solution provided:

- 1** Greater system reliability
- 2** High economic value with peak shaving and demand management
- 3** Lower electric costs for customers
- 4** Expected net annual savings from generators is approximately \$300,000
- 5** PowerSecure monitors the system's assets 24/7 and is ready to respond immediately to an outage event

***"The savings Berlin expects to realize from utilizing the generators during times of peak usage will enable our customers to continue to realize the lowest kilowatt-hour rate of any of the 35 Pennsylvania Municipal Electric Systems and of those charged by most Investor-Owned Utilities."***

**- Tom Jones**, Berlin Borough executive secretary

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