



PowerSecure



Dyneema Manufacturing Distributed Generation

Powering economic development with
distributed generation

CASE STUDY

About the Customer

DSM Dyneema, a polyethylene (plastic) fiber manufacturer located in Greenville, North Carolina, runs production 24/7/365 for a variety of product lines, with an annual peak demand of about 12 MW. The Greenville Utilities Commission (GUC) provided electric economic development credits for plant expansions.



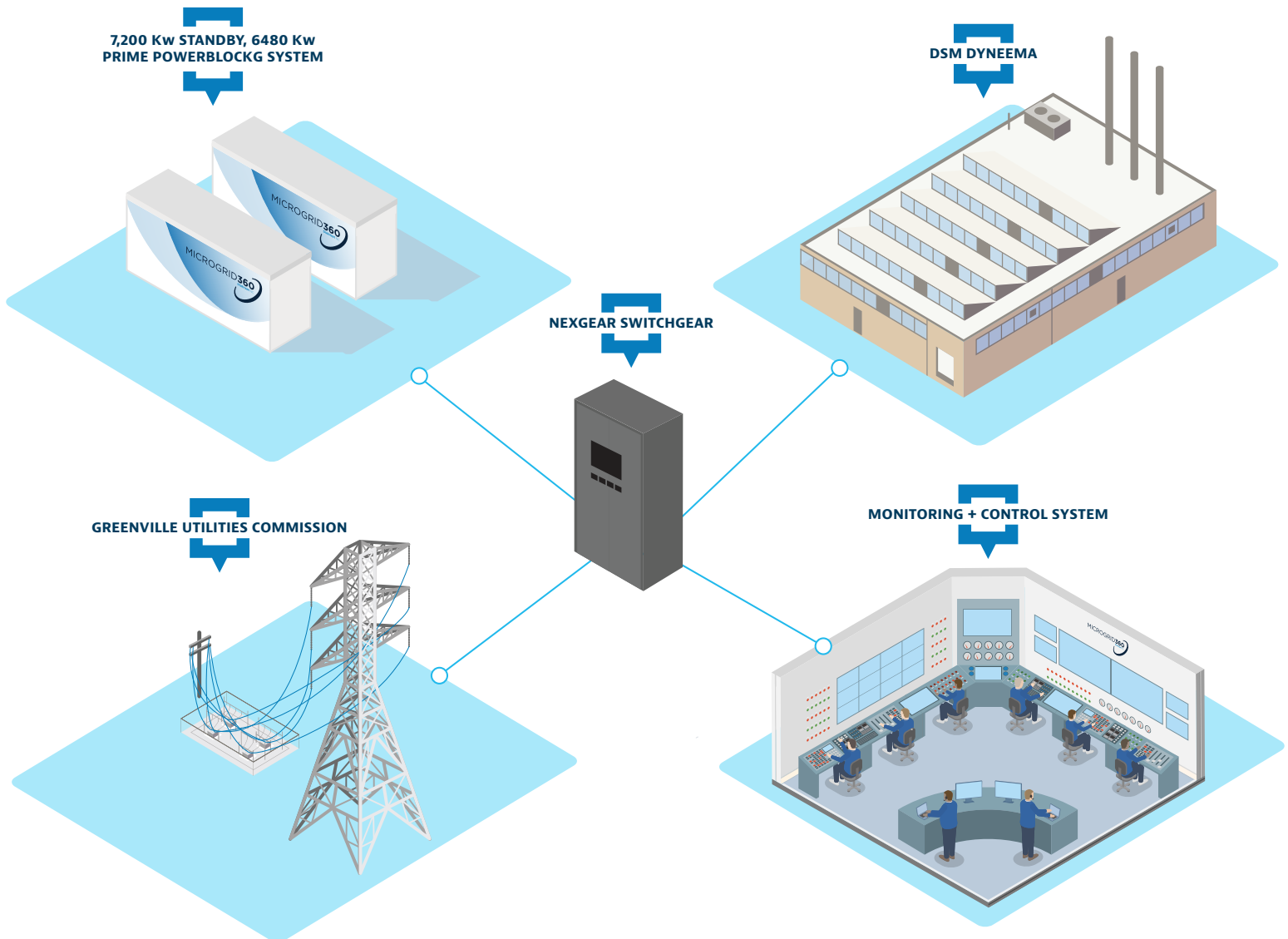
The Challenge

Dyneema, which invested heavily in plant expansions, did not have the capital or resources to finance a generator project. However, the increase in demand from expanded production would drive up the cost for not only Dyneema, but all of GUC's ratepayers.

The Solution

In order to cut the cost of wholesale power, GUC selected PowerSecure to build a natural gas-fired distributed generation system.

The system includes a 7,200 kW standby natural gas-powered PowerBlock G[®] system, a PowerSecure Control System and NexGear switchgear. PowerSecure's full-service approach provides world-class service with 24/7/365 monitoring of the assets and industry-leading reliability.



Benefits to the Customer

PowerSecure's solution provided:

- 1** PowerSecure's proprietary NexGear provides dependable, cost-effective electrical switchgear with integrated control solutions, aiding in demand management/peak shaving
- 2** PowerBlockG engines are fully NFPA emergency genset compliant with dual fuel capabilities, allowing GUC to switch fuels on the fly under load
- 3** Enables GUC to forecast fuel use and realize significant savings
- 4** Five-year project payback

"PowerSecure submitted the perfect natural gas-fired solution that met the project specifications and also had the best competitive price. Since going online in July 2016, the financial savings are performing almost exactly in line with the estimates."

- John Worrell, Assistant Director of Electrical Systems, GUC

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