



"Control Your Energy Destiny, or
Someone Else Will."

HYBRID POWER • GRID INDEPENDENCE • INDUSTRIAL RESILIENCE

POWER YOUR OPERATION

More control. More resilience. Less grid dependence.

MTD designs and delivers integrated turbine, solar, battery, and thermal-recovery systems that help industrial facilities reduce grid dependence—or operate independently from the grid.

**Turbine or facility-wide
hybrid power installation**

A Smarter Path to Energy Independence.

Modern Thermal Design engineered and delivered a comprehensive off-grid energy solution for Rock Run Industries, a 101-employee industrial facility in Northern Indiana. The integrated system combines gas-fired turbines, a 1 MW solar PV array, 2.5 MW of battery energy storage, and three 60 kW microturbines to provide dependable, cost-effective power while reducing reliance on the utility grid.



WHY IT MATTERS



REDUCE GRID DEPENDENCE

Use on-site generation and storage to reduce exposure to grid constraints, outages, and changing utility costs.



BUILD FOR RESILIENCE

Combine multiple energy assets into a system designed around the facility's operating priorities.



RECOVER WASTE HEAT

Capture microturbine waste heat for useful process loads instead of letting it go to waste.



ONE ACCOUNTABLE PARTNER

MTD helps design, procure, and implement the complete hybrid solution through a single point of contact.

HOW THE HYBRID POWER PLATFORM WORKS

Generation. Storage. Recovery. Control.

MTD integrates complementary power and thermal assets so the facility can use energy more intelligently, improve uptime, and extract more value from every fuel source.

01. GENERATE

Turbines & Microturbines

On-site gas-fired generation supplies dependable power.

02. ADD RENEWABLES

1 MW Solar PV

Solar production contributes clean electricity during available daylight hours.

03. STORE & MANAGE

2.5 MW BESS

Battery storage helps balance supply, demand, and operating priorities.

04. RECOVER HEAT

Process Heat

Microturbine waste heat supports valuable thermal loads.



ROCK RUN INDUSTRIES: A 101-EMPLOYEE INDUSTRIAL FACILITY TRANSFORMED TO OFF-GRID OPERATION.

Rock Run Performance Signals

The Rock Run installation demonstrates how MTD can combine generation, renewable power, energy storage, and thermal recovery into one coordinated industrial solution.

101	1 MW	2.5 MW	≈80%
employees supported at the Northern Indiana industrial facility	solar PV array integrated into the off-grid energy package	battery energy-storage capacity	of usable process heat supplied by microturbine waste heat

Built for Industrial Control

Every facility has a different mix of energy costs, operational risk, process-heat needs, utility constraints, and growth plans. MTD develops systems that can range from reduced grid dependence to full off-grid generation, depending on the project’s goals.

Industrial Facilities Improve resilience, stabilize critical operations, and put on-site generation and thermal recovery to work.	Manufacturers with Process Heat Demand Use microturbine waste heat to offset a meaningful share of process-heat requirements.
Energy-Intensive Operations Reduce exposure to utility constraints, peak demand, and power-quality concerns.	Developers & Facility Owners Work through one experienced MTD partner for design, procurement, implementation, and coordination.

High-Value Outcomes

A well-designed hybrid power system creates value beyond electricity production by coordinating multiple energy assets around what the operation needs most.

Off-Grid Capability Create an integrated platform capable of supporting independent operation when project conditions warrant.	Lower Grid Exposure Reduce dependence on utility supply and related cost or reliability uncertainty.	Power Resilience Support continuity for critical production and facility loads.
Solar + Storage Value Use PV and BESS as part of a coordinated energy strategy rather than isolated assets.	Waste-Heat Recovery Convert microturbine exhaust heat into useful process energy.	Single-Source Delivery Keep the project moving through one accountable MTD relationship.

POWER YOUR OPERATION. CONTROL YOUR ENERGY FUTURE.

Ready to explore a hybrid generation strategy? Contact Modern Thermal Design.

317-505-9200 • www.modernthermaldesign.com

Rock Run figures are based on the supplied project description. Final results and system configurations vary by facility load, fuel availability, utility conditions, equipment selection, and project design.