A multi-faceted resource for on-site power generation and efficient use of energy, GEM Energy is a trusted adviser to leading organizations in the institutional, industrial, government, and commercial sectors. We optimize a facility’s efficiency to reduce your operating costs through technology and integrated services which include:

- On-site power generation through combined heat and power (CHP) and solar development. Our turn-key offerings include funding, system design, integration, installation and ongoing maintenance.
- Procuring energy
- Managing and maintaining facilities
- Designing, installing and repairing building automation controls systems
- Performing preventive HVAC maintenance
- Energy Performance Contracting
- Finding and securing financing for energy projects and on-site power

And as a member of the Rudolph Libbe Group of companies, we have design/build capabilities and a host of other services to steer your energy productivity project from construction all the way through commissioning.

LOCATIONS

Northeast Ohio—Independence
Northwest Ohio—Walbridge and Lima
Central Ohio—Columbus
Southeast Michigan—Plymouth
New York—Ithaca

FEATURED PROJECTS

- President Container Group Solar Array Design/Build
- Toledo School for the Arts Renovation and Energy Upgrade
- Maintaining HVAC for 24/7 manufacturing operations for Ardagh Group

For more information, visit GEMEnergy.com
HVAC AGREEMENT AT ORAZEN ADDS VALUE TO ITS BUSINESS

Orazen Extruded Polymers, a Ravenna, Ohio-based manufacturer and supplier of extruded polymer products, relies on the GEM Energy HVAC service team to keep its equipment humming. Orazen chose a Comprehensive Plus HVAC agreement that covers three pieces of equipment on the rubber extension line including the wire cutter machine used to make the die the rubber is pulled through, a process chiller and air compressor. Service visits are scheduled in the early mornings to eliminate production downtime.

Initially the company was hesitant to switch from a standard Preventive Maintenance contract to a Comprehensive Plus agreement. After making the change, Orazen realized how much easier annual budgeting and billing has become.

A Comp Plus agreement includes all standard Preventive and Comprehensive agreement services and covered parts with the addition of items like condenser coil replacements, evaporator coil, heat exchanger, actuators and control belts as well as non-maintainable parts such as circuit boards.

“Working with the GEM Energy team has been an ideal fit...Our equipment has to be up and running or we are losing money and customers. The GEM team provides the best service and customer care in the industry! I no longer worry about getting hit with a big bill when I need a repair. I know that when I call the issue will be resolved.”

Mike Orazen, President and Owner
Initially an equipment-only sale through GEM Energy, this Capstone C1000 microturbine, provides heat, power and steam to Ann Arbor’s 1.1 million-square-foot VA Medical Center.

A couple years after the installation was completed by a general contracting firm, GEM Energy was contacted by the VA to help improve the CHP system’s run-time and efficiency.

GEM Energy coordinated with the VA to get a Factory Protection Plan (FPP) in place enabling us to work directly with facility management on the Capstone equipment. After a short period of time, our skilled in-house technicians had the system running at full capacity and all service/repairs updated. The C1000 is now in continuous use and is serviced and maintained under the FPP so that the VA experiences no unexpected downtime.

The system is capable of operating in both grid-connected and stand-alone mode producing 1MW of electrical output. It’s integrated recovery steam generator provides over 2,258 pounds of steam per hour at 75 PSIG.

“I’ve really enjoyed working with each of you. I appreciate the vast expertise, unending dedication and humor-filled, can-do spirit that you’ve continually brought to and shown throughout this project.”

Jan Shahan, Contract Specialist
Veteran’s Health Administration
OHIO NORTHERN UNIVERSITY

Construction of a 2MW field solar array that supplies electricity to Ohio Northern University began in September 2016.

GEM Energy secured the project financing under a negotiated Power Purchase Agreement (PPA) structure, and designed, constructed, and will continue to operate and maintain the solar array. Under the 25-year PPA, ONU will benefit with a no-out-of-pocket solution where no university capital is required for the array’s construction and ongoing maintenance.

The commissioning of the system was done in early 2017 and the array is fully functional.

Project specifics include:

- Over 18,000 thin-film panels from First Solar were used.
- The array includes a single-axis tracker that moves panels to follow the sun, allowing maximum solar harvest.
- The solar field generates approximately 10 percent of ONU’s annual electricity needs – an emissions reduction of 2,202 tons, equal to 215 average households.
- ONU will include the solar array in its renewable energy curriculum. The new program will be led by GEM Energy and will include pilot student teams.