

## Asset performance

GE's Asset Performance Management (APM) software includes analytics capabilities based on the analysis of more than 125 million hours of data from generators and turbines. These analytics can help to reduce unplanned downtime by up to 5%, reduce false alarms by up to 75%, and reduce operations and maintenance costs by up to 25%, according to GE.

APM is powered by Predix, GE Digital's platform for the Industrial Internet. It can identify patterns and trends in data that could indicate a problem with a machine's performance. This allows industrial businesses to increase machine reliability and availability, while also reducing maintenance costs and managing operations risks.

Typically, plant operators who run traditional monitoring capabilities have limited advanced notice when critical machine issues arise. Warning of potential issues of anywhere from a few days up to several weeks can enable better productivity and lower maintenance costs.

GE Power's Monitoring & Diagnostics Center in Atlanta is utilizing APM to increase the reliability of the thousands of power producing turbines and generators it monitors. More than 500 power producers and utilities responsible for 900 power plants around the world use the M&D Center's data scientists, engineering resources, and monitoring services to identify machine and equipment issues. Every day, the center receives more than 200 billion data tags coming from 1 million sensors attached to 5,000 assets in power plants across more than 60 countries.

[ge.com/digital](http://ge.com/digital).

## Generator oil

Kohler has introduced a line of aftermarket oil for generator applications. Available in three formulations for different fuel types, they are optimized for use in industrial, mobile, marine, and home generators. The synthetic line was engineered to help generators run at peak performance, reducing downtime and helping to lower total cost of ownership compared with conventional oils used in the same applications.

The 5W-30 formulation is for generators powered by gasoline or gaseous-fueled engines. The 5W-40 formulation is for generators powered by diesel-fueled engines. The 15W-40 option is for generators with gaseous-fueled engines. Each is formulated with a synthetic base oil that maintains viscosity while also resisting "burn off," which can occur with other, lesser quality oils. Special additives oil protect against engine wear and corrosion, extending overall generator life.

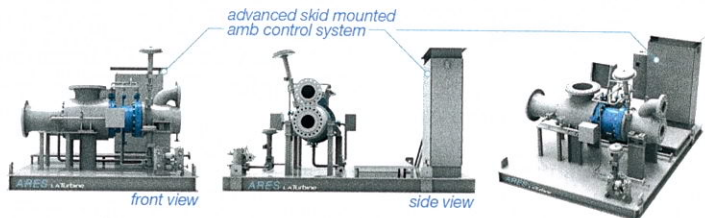
[KohlerPower.com](http://KohlerPower.com).

## SGT-800 upgrade

Siemens is offering its SGT-800 GT with a power output of 57 MW and an electrical efficiency of more than 40% in simple cycle application. In a combined cycle configuration, the power output is 163 MW at a net efficiency of more than 58.5%. The SGT-800 is available with a power output from 47.5 MW to 57 MW thanks to this upgrade. Only improvements of gas turbine parts using Siemens existing and mature core engine technologies have been made. The improved performance has also been achieved through better gear box, and outlet casing and diffuser efficiencies. To date, more than 325 SGT-800 turbines have been sold across the world. The turbine, which was originally known under the product name GTX100, began development in 1994 and was launched in 1997.

[siemens.com](http://siemens.com)

[www.turbomachinerymag.com](http://www.turbomachinerymag.com)



L.A. Turbine Standard-Turboexpander Compressor Project ARES

## Ares turboexpander

L.A. Turbine's (LAT) first standard turboexpander-compressor with active magnetic bearings (AMB) is in production. The AMB turboexpander configuration, designed for use in a 200MMSCFD gas plant, provides a condensed footprint and reliability; meets the performance requirements and operating conditions of the facility; and features a skid-mounted AMB controller and PLC.

The AMB control system has digital signal processors, and control algorithms to continuously optimize dynamic performance and efficiency. The control panel features secure remote connectivity for monitoring, tuning and diagnostic services. It can also perform automated commissioning.

[laturbine.com](http://laturbine.com)

## Accelerometers

Hansford Sensors launched the latest versions of its HS-100 and HS-150 Series vibration sensors. They are over 10% smaller and lighter than existing versions, and offer greater frequency response, with an improvement in resonant frequency. The new family is designed for use typically on drives and rotating shafts such as those found in pumps, fans, motors, gearboxes and compressors.

The height of each accelerometer was cut by 10mm. Frequency response has been improved to between 0.8kHz and 15kHz. The resonant frequency has been increased to between 26kHz and 34kHz depending on specification. The accelerometers are available with options such as special purpose cable assemblies and a choice of mounting threads.

[hansfordsensors.com](http://hansfordsensors.com)

## Shaft alignment

Ludeca's Easy-Laser XT660 is a laser shaft alignment system. An iOS or Android phone or tablet can be



Industrial accelerometers from Hansford Sensors



Easier shaft alignment from Ludeca.