BIG POWER ON DEMAND

Don't skip a beat with turbine packages supplied by Peterson Power Systems

It's late Friday night and there is an emergency. You need big power to resolve your issue-10 MW, 20MW or more. Normally you would use a XQ2000 power module but in this case you want to use natural gas as a fuel. So you call Peterson Power Systems.

For the vast majority of Big Power Projects the XQ2000 power module is still the best economic option. However, if your fuel preference is natural gas, if low emissions are required, or limited space is available then a mobile turbine is likely to be the best option.

Peterson's mobile turbine rental program lets you get the power you need when you need it. Peterson Power is based in Northern California, where the company has built an outstanding reputation for fast, efficient, cost-effective mobile power solutions that please and impress customers.

The Peterson Power fleet features seventeen Solar XQ5200 mobile turbine rental units powered by Solar Taurus™ 60 gas turbines.

The XQ5200 is highly transportable, and its modular design makes setup a snap. It requires no concrete foundation and occupies minimal space. Its low emissions make it environmentally friendly and thus easy to permit.

Best of all, you do not need to have any previous turbine experience. Peterson Power handles every aspect of the project from engineering and shipping to setup and commissioning, to operation and maintenance.

These new industrial gas turbine power modules are portable, low-cost power alternatives incorporating Solar Taurus 60 gas turbine generator set packages and prefabricated power control room modules.

The challenges associated with bringing a complete power plant online quickly, are an important reason the XQ5200 is playing a crucial role in meeting peak seasonal and emergency power demands around the world.

Quick setup is accomplished with a modular design including plug-in connections. The XQ5200 is dispatchable to be online in six minutes from cold start, which makes it ideal for utility rental applications. Utility-grade switchgear and a programmable protective relay module are standard. A range of control system options for remote operation and Supervisory Control Data Acquisition System (SCADA) compatibility are also available.

Rapid Response

Peterson vividly showed its full-service capabilities when a major oil producer in northern Alaska needed emergency power –fast. The challenge of the job was apparent when confronted with the location, the remote North Slope site made the job especially challenging. Nonetheless, within two days, the first of three XQ5200 packages was on its way to Fairbanks in a chartered Antonov AN-124, the world's largest commercial freight aircraft. From there, the equipment traveled by heavy duty truck on a 30-hour ride to the site. In approximately two weeks, the three units were fully operational and running, Peterson had the personnel and contacts at their disposal to execute flawlessly.

Turnkey Solutions

Thousands of miles east, in Ontario, Canada, Peterson played a key role in setting up a temporary 98MW utility back-up power supply as a hedge against summer peak loads. The provincial government turned to Peterson Power for the installation in Markham, Ontario.

Peterson Power was able to be an integral part of the project and acted as a central point of contact.

Such a project was a true test for Peterson, a test that was met head on. The test came in the form of how the turbines were to be installed in a very tight space in a short period of time. It also required 82 Trailer loads of equipment, 25,000 feet of electrical cable, and roughly 17,000 feet of new natural gas lines. Once installed the turbines had to be up and running at peak capacity within 15 minutes to meet any requests for additional power. Peterson was able to meet all the objectives completely.

Anywhere Power is needed

Peterson's expertise was instrumental in satisfying the need for temporary power at a remote underground natural gas storage facility. Peterson's ability to get power where and when it is needed was showcased.

SG Resources needed electricity to run leaching pumps, but the closest utility power was five miles away, and extending power lines to the site would take too long. Time was essential and Peterson was up to the challenge.

Enter Peterson, which stepped in and provided everything from engineering support to installation of two turbines for a six month period, to operational training. Peterson is happy to offer a full and comprehensive service to all of its customers.

Flexible Solutions

In Indiana, the Iroquois Bio-Energy Company enlisted the help of Peterson Power Systems to provide temporary power to run an ethanol production plant. Iroquois had promised its financers the plant would be operational by a certain date, but that vow was jeopardized when the local utility discovered that it could not deliver power to the new plant within a previously proposed timeframe and budget.

Peterson solved the problem by installing one XQ5200 turbine package for a four month period. The Iroquois Bio –Energy Company was quick to acknowledge that "Peterson had done a very good job – they were very professional" and they were impressed with the ease of installation. "Once the turbines were up and running, they ran like clockwork."

Find Out More

Peterson Power Systems stands ready to supply turbine packages to fulfill customers' need for large-scale temporary power. To learn more, contact Peterson Power at **800.963.6446** or visit **www.petersonpower.com/turbines**.