How GE’s aeroderivative gas turbines can help

Now that you understand what grid firming is—and why it’s needed in areas with renewable energy resources—why would you choose an aero to help? It’s simple.

**FAST START**

Aeros can get on the grid quickly and start producing power—with a rapid start—in as few as 5 minutes. Aeroderivative turbines are designed for high cycling capability, allowing multi-day start/stop cycles without maintenance penalties.

**FLEXIBILITY**

A fast ramp rate (up to 50 MW/min), high part load efficiency, a low minimum load and deeper turndown all contribute to aeros’ flexibility and their ability to quickly work within an intermittent grid, quickly getting power to where it needs to be.

**FAST INSTALLATION**

Not only can aeros get on the grid faster, they can get to you and get working faster, too. Our aero packages can be installed in as few as 11 days in some cases!

**BETTER FREQUENCY REGULATION**

GE aeroderivatives’ fast ramp rate means they can start up quickly to address a load change. They’re multi-shaft machines that can quickly handle drops and rises in loads, providing better transient response than reciprocating engines. Aeros’ higher inertia and power output, when compared to reciprocating engines, improve grid stability and help avoid both brownout and blackout events.

Your grid firming power players

- **TM2500** Power plant on wheels
- **LM2500Xpress** The world’s most modular power plant
- **LM6000** 40 million operating hours
- **LMS100** The efficiency you’ve been looking for