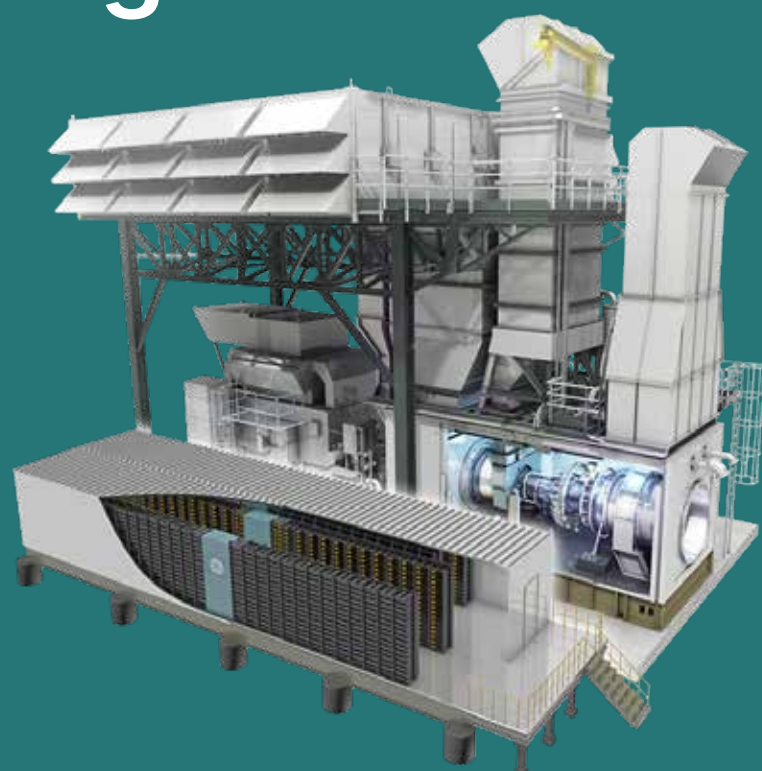# WHAT'S THE FUTURE OF GRID FIRMING?

GE VERNOVA

At GE Vernova, we never stop innovating.

Every day we're looking for ways to make our solutions better, so they can power tomorrow. Our **LM6000 Hybrid EGT™** integrates a battery energy storage system with the LM6000 gas turbine, enabling contingency (spinning or non-spinning) reserve without fuel burn between demand events.

Combining energy storage and gas turbines **for the first time**
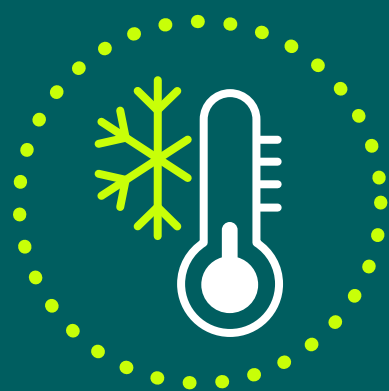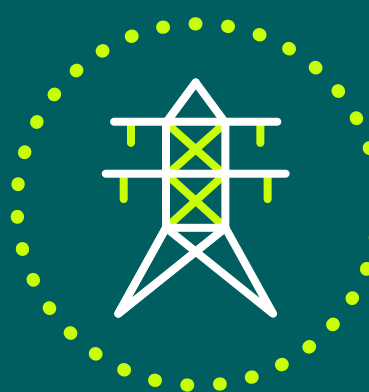
The LM6000 Hybrid EGT

Reduces annual fuel and O&M costs for an LM6000 EGT in certain grids, where the EGT is recognized as a reserve capacity and so eliminates the need to keep running another unit at an inefficient load point for balancing purposes.

Saves substantial capital in carbon tax credits by **reducing tons of CO_2 emissions**

CO_2
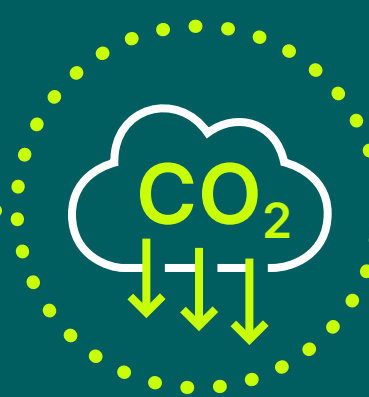
Provides flexibility to start/stop and **high ramping capability within 30 to 50 MW/min** to support renewables' intermittency

Supports Black Start capabilities on the grid*—not only sustaining the grid in contingency situations that can lead to lost revenue, but can monetize or eliminate the cost needed to fund another asset for that purpose.

Smooths and strengthens the AGC (automatic generation control), so as the load goes up and down, the LM6000 Hybrid EGT can address all the changes rapidly and efficiently by **reducing thermal stress on the gas turbine**

Provides load following capabilities to provide quality power on the grid for industrial applications that cannot afford any frequency or voltage irregularities—bringing even more savings by eliminating lost revenue.

Supports increased asset utilization vs. a simple cycle peaker—providing increased asset utilization and more revenue.

*Consult with GE Vernova for black start applications.

"The new system will help SCE better utilize the resources on the grid, provide enhanced reliability, reduce environmental impact, and reduce cost for our operations and for our customers."

—Ron Nichols, SCE President, Southern California Edison, first worldwide installers of the LM6000 Hybrid EGT.