



# ADVANTAGES OF AERODERIVATIVES

Aeroderivative engines can save up to \$16 million USD per year in fuel costs when used in a combined-cycle configuration because they have a significantly lower heat rate when compared to reciprocating engines.

 **\$16** MILLION

Potential **Annual Savings**

 **\$1** MILLION

Lubricating Oil Consumption  
Potential **Annual Savings**

A highly efficient aeroderivative gas turbine in combined cycle like the LM2500 consumes only about 2 mL/MWh of lube oil per year—200 times less than a reciprocating engine. That can translate to a savings of more than \$1 million USD per year for a 100 MW aeroderivative power plant.

From a cold start to delivering power to the grid, GE's aeroderivative gas turbines can ramp up in only 5 minutes. Reciprocating engines require pre-warming, lube oil, and cooling conditions to start.

 **5 MIN.**  
**FAST START**

From Cold Iron to **Full Power**

 **FAST  
INSTALLATION**

In as **little as 3 Months**

Because they are small and modular, aeroderivatives can be transported, installed, and commissioned in as little as 3 months, as compared to 12-18 months for reciprocating engines. They can be installed outdoors with minimal foundation requirements, making them an effective solution for any region that needs fast, clean, reliable power.

Because they have about 22 times more power output per unit than comparable high-speed diesel reciprocating engines, GE's aeroderivative power plants take up less space—a true advantage where real estate is expensive.

 **4X**  
**UP TO SMALLER**

**Reduced Footprint**

 **10X**  
**FEWER EMISSIONS**

**Cleaner/Supporting Renewables**

Equipped with best-in-class combustion systems, aeroderivatives can offer 15 or 25 ppm NOx without needing SCR (selective catalytic reduction) devices or the use of ammonia.

