

# 200 Upgrade (Mod 5020)

Applicable fleet: SGT-A20

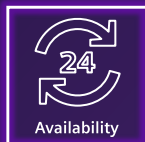


**Fuel savings of up to € 1.05 million between overhauls, and carbon tax savings of up to € 112,000 annually, can be realized with the 200 upgrade for 1535 engine at base load.**

Note: Estimated Fuel Cost / CO2 tax Savings above are provided for indicative purposes only and are based on a fuel gas price of €7/MMBtu and CO2 tax of €50/ton.



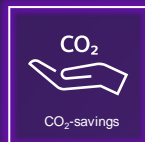
Power Increase



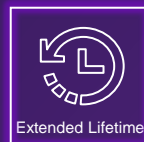
Availability



Efficiency



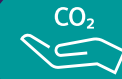
CO<sub>2</sub>-savings



Extended Lifetime



Equivalent  
to ~7%  
H2 blend



Up to 2.6% CO<sub>2</sub>  
reduction

## Product Overview

The SGT-A20 Mod 5020 is the application of advanced aero technology to the turbine section of the gas generator.

- This upgrade extends component durability and increases power and efficiency without increasing the exhaust gas temperature.



## Improved Features

This modification improves the following components of the HP/IP/LP turbine:

- Material.
- Sealing.
- Geometry.
- Cooling.



## Benefits

- Up to 8.5% increase in power.

**OR**

- If operating at the same power output, increased MBTO of 30,000 hours.
- Both cases offer up to 4.4% increase in efficiency.
- Up to 75% reduction in CO emissions.
- Up to 2.6% reduction in CO<sub>2</sub> emissions for 1535 engine at base load.



## Scope of work & Implementation

- **At overhaul:**
  - New HP, IP, LP NGVS / turbine blades / discs / LP turbine casing.
- **On site:**
  - No berth modifications required for gas-fueled berths.
  - Minor berth modifications required for dual fuel berths.



SE GP | SV AGT MK&S 1

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