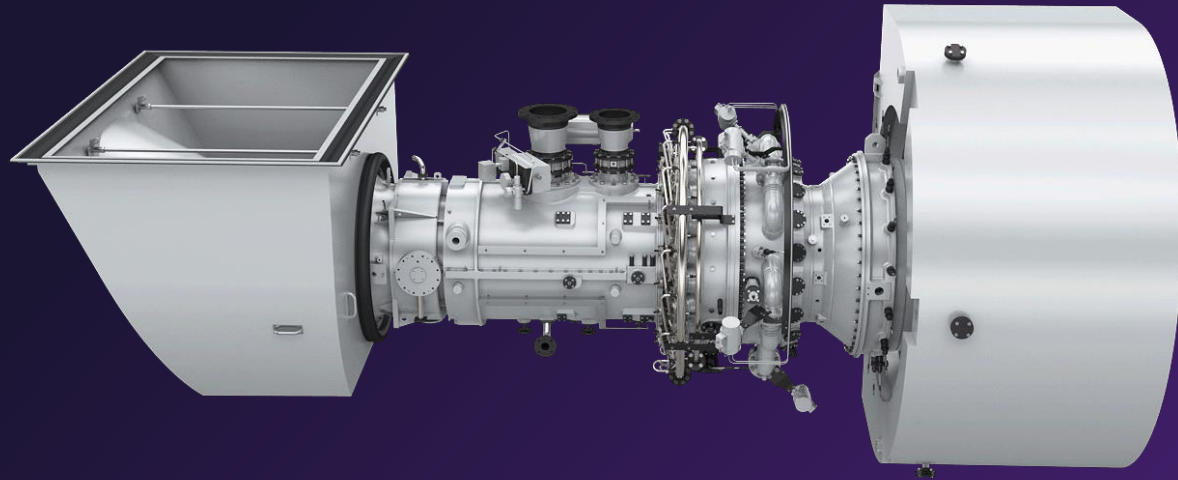


# Performance enhancement SGT-600 3<sup>rd</sup> Generation DLE

World leading dry low emissions and fuel flexibility



Jul-22



CO<sub>2</sub> <9ppm NOx & CO on natural gas

## Product Overview

The 3rd Generation DLE combustion system and improved compressor turbine is available as upgrade or new engine sale for existing SGT-600 owners. The upgrade is offering world leading dry low emissions and fuel flexibility for operation on H<sub>2</sub>.



## Improved Features

- A new central casing with 3<sup>rd</sup> generation DLE combustion system will be installed in existing unit
- Install new compressor turbine stage #1 with new design, giving less power reduction at high ambient temperatures



## Benefits

- World leading dry low emissions with <9 ppm NO<sub>x</sub> and < 9 ppm CO on Natural Gas (ISO conditions, full load)
- CO control with combustion bypass valves and additional CO and NO<sub>x</sub> reduction with Bleed valve 3 for part load operation.
- Fuel flexibility with 25 ppm NO<sub>x</sub> guarantee for 75 % H<sub>2</sub> at full load
- Power output + 1,5 MW at +45°C can be achieved
- Higher efficiency with 2.3% in fuel savings at +45°C
- New design of compressor turbine increases cycles up to 2400 EOC between Major Overhauls, and 68 000 EOH with dynamic lifing models with FlexLTP



## Scope of work & Implementation

- Upgrade existing gas generator
  - Re-use existing compressor, install new central casing with 3<sup>rd</sup> generation combustion system
- Install a completely new gas generator
  - Feasibility study required of existing site, scope and implementation at site to depend on package version and age



SE GP | SV MGT PP 1

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\* Percentage points