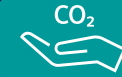
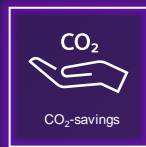
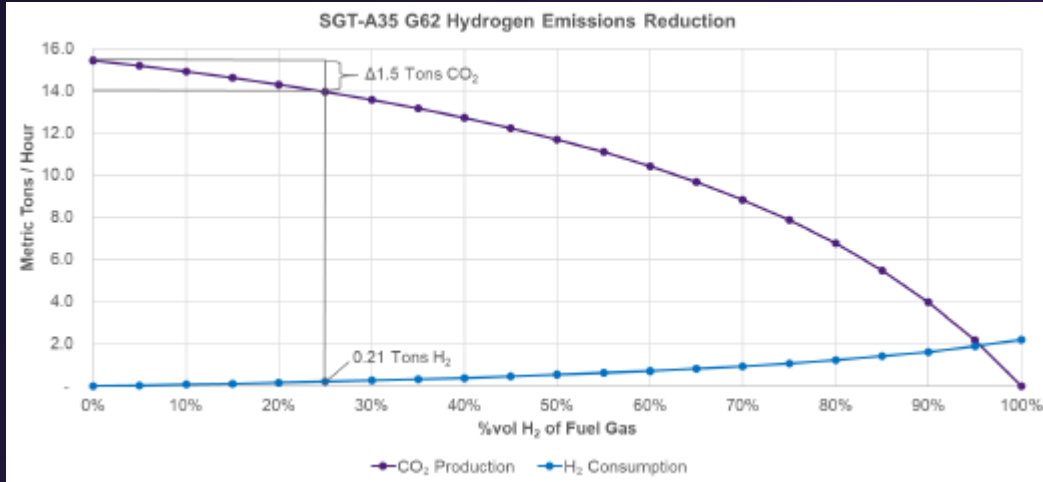


# Hydrogen Conversion

Applicable fleet: SGT-A05, SGT-A20, SGT-A35, SGT-A65



Up to 100% CO<sub>2</sub> reduction

## Product Overview

Siemens Energy AGT began operating their frames on H<sub>2</sub> in 1968 and has since accrued over 200,000 hours of operational experience running on H<sub>2</sub>.

Engine and package can be modified to run on Hydrogen blends or 100% Hydrogen. Power is maintained even at 100% Hydrogen.



## Improved Features

- No CO<sub>2</sub> emissions.
- Flexibility in managing transition to carbon-neutral operation.



## Benefits

- Minimal hardware changes at lower H<sub>2</sub> blends.
- Significant CO<sub>2</sub> reductions at higher H<sub>2</sub> blends.
- Maintain full power all the way up to 100% H<sub>2</sub>.
- Both diffusion (WLE) and DLE combustion.
- Upgraded H<sub>2</sub> burners can still run natural gas.



## Scope of work & Implementation

- Sub-15% H<sub>2</sub>: No changes.
- 15 – 25% H<sub>2</sub>: **On site** survey for pre-2006 builds.
- 25 – 100% H<sub>2</sub>: **On site** package modifications required:
  - Electrical certifications.
  - Fuel capacity, materials compatibility.
  - Nitrogen purge.
  - Fire & Gas detection, ventilation systems.
  - Controls upgrade.

