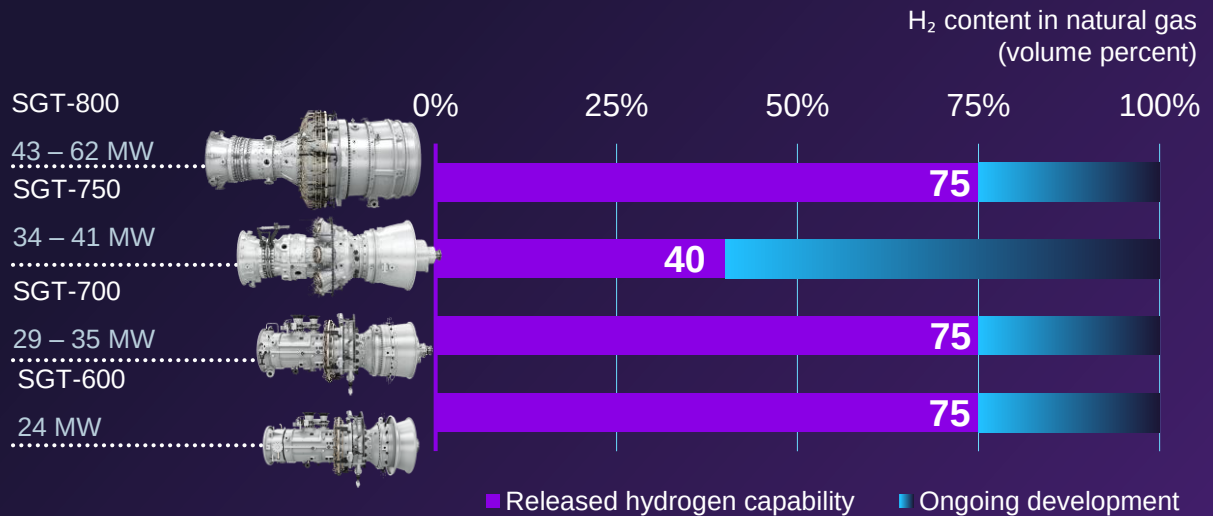
Hydrogen Capability in Siemens Energy Medium Gas Turbines

All turbines equipped with DLE burner technology
Power output in MW at ISO ambient conditions and natural gas



Product Overview

Siemens Energy offers upgrade solutions to adopt your gas turbine to operation on up to 75 vol-% H_2.

Features

Upgrade package for gas turbine and auxiliary systems adapted to fuel composition and installed equipment

- Burners
- Fuel system
- Fire protection, gas detection and enclosure ventilation
- Control system

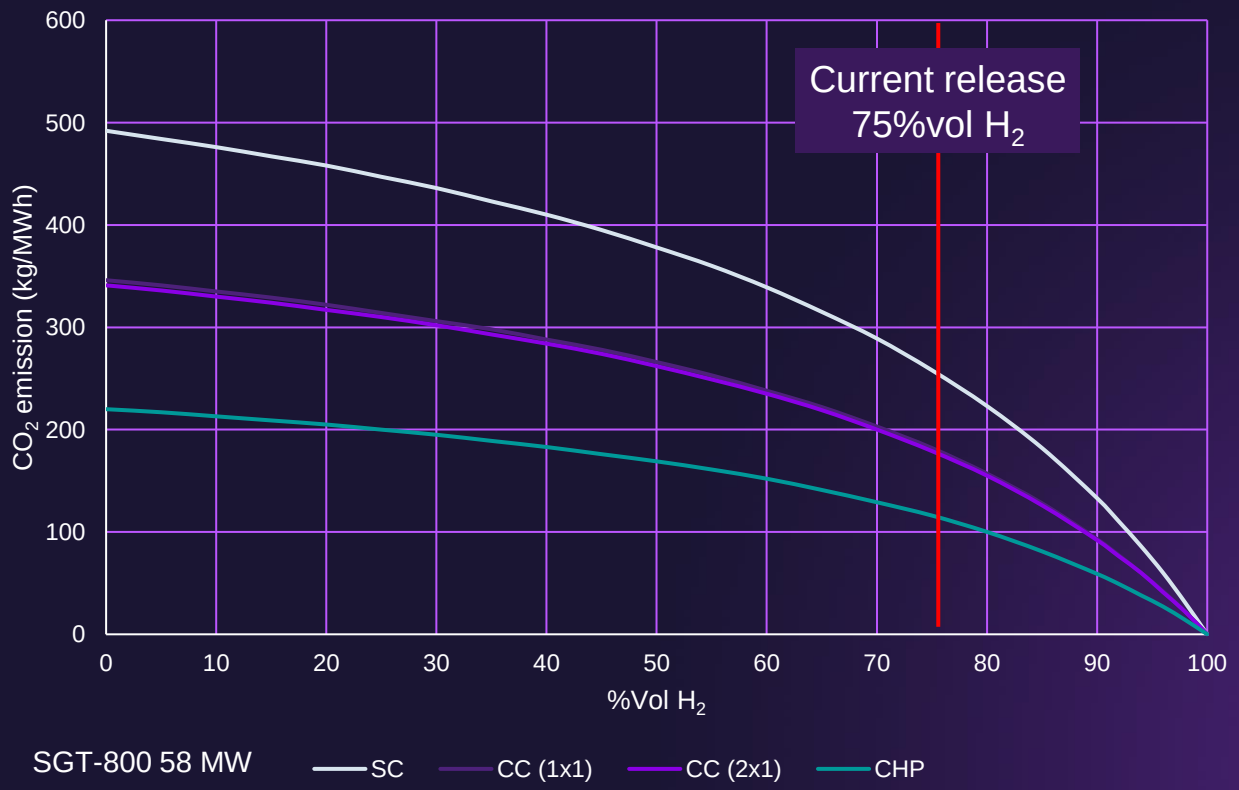
Benefits

- Significant reduction of CO2 emissions compared to natural gas/CH_4
- Low NO_x emissions through DLE technology
- Meet market sustainability expectations and requirement
- Reduced carbon cost
- Storage of excess renewable energy as H_2 for use at a time where power demand is higher, usually referred to as Power-2-X. The benefits are both environmental and economical
- Be prepared for a natural gas mix that includes H_2 in the gas network
- Utilization of available H_2 off-gas from, e.g., a refinery or chemical plant and saving on natural gas

Scope of work & Implementation

- Solution optimized to fuel composition, operation and current installation
- Initial engineering study can be performed to evaluate equipment and boundary conditions and define a customized scope of delivery
- Quick installation at site, minimal disruption to operation

CO_2 reduction from operating your medium gas turbine on hydrogen



Find more information and calculate your carbon dioxide (CO_2) reduction and cost-savings potential by running your SGT-800 fully or partially on hydrogen

MGT Hydrogen Retrofit Capability

www.siemens-energy.com/hydrogen-calculator