

# Hydrogen Upgrade

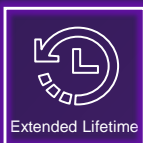
Applicable fleet: Industrial Radial, Gas Trans Pipeline



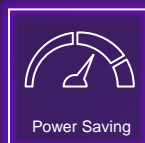
Reliability



Efficiency



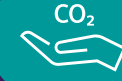
Extended Lifetime



Power Saving



## Increased Operational Flexibility



Reduced CO<sub>2</sub>

### Product Overview

Fuel shift from carbon-based to hydrogen-based is one pillar of decarbonization. Creating a Hydrogen infrastructure is on the agenda and governmental regulations will also allow to run natural gas pipelines with Hydrogen blends.



### Improved Features

- The low Mol weight of Hydrogen requires an adapted layout of the compressor. New advanced impeller concepts take this into account.
- Material selection for the specific requirements of Hydrogen blends



### Benefits

- Existing compressors can be utilized for Hydrogen blend services
- Siemens Energy can perform a comprehensive upgrade for the core machine and the auxiliaries



### Scope of work & Implementation

- Execution of comprehensive feasibility studies
- Suitability checks of materials and aero flow path for the new service
- Re-calculation of thermo dynamics
- Design and supply of new parts

