



# Engineering Services

## Hydrogen Transition Analysis

Have you considered hydrogen's impact on your reciprocating compressor's performance and compliance?

Would you like to know more about how much H<sub>2</sub> in natural gas is acceptable?

Would you like to learn more about potential modifications that can optimize your compressor for additional hydrogen volume?



### What is the Hydrogen Transition Analysis?

Gain insights and a better understanding of your compressor's performance with existing gas vs. new mixtures, in preparation to convert your compression equipment from natural gas to H<sub>2</sub>.

### What do you get?

An in-depth report with detailed results that include BHP (brake horsepower) capacity, interstage pressures, discharge temperatures, and rod load changes

### What do we need from you?

To perform this analysis, we'll need the following information about your compressor:

- Driver speed
- Compressor geometry
- Operating conditions (temperatures and pressures)
- Gas composition
- Max. allowed combined rod load (compression and tension)
- Reciprocating weights for pistons, piston rods, crossheads, and con rods
- Temperature alarm and trip values
- Rated power of frame and driver
- Current capacity control scheme
- Cylinder arrangement
- Safety valve pressures