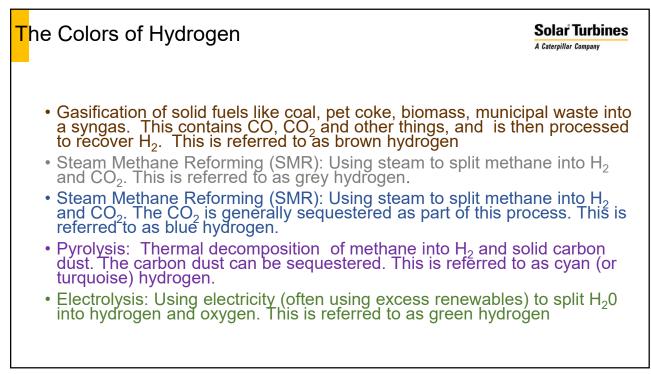


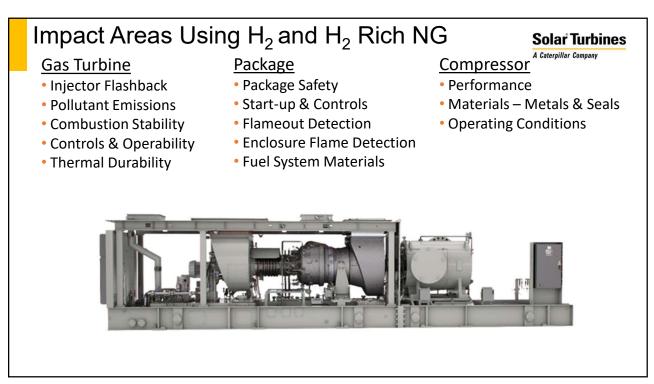
Applications



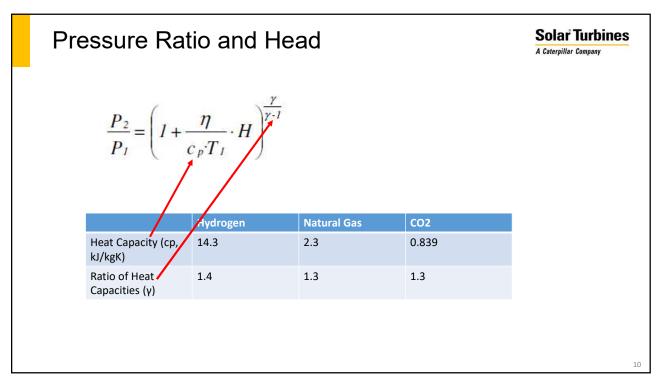
Transport Applications

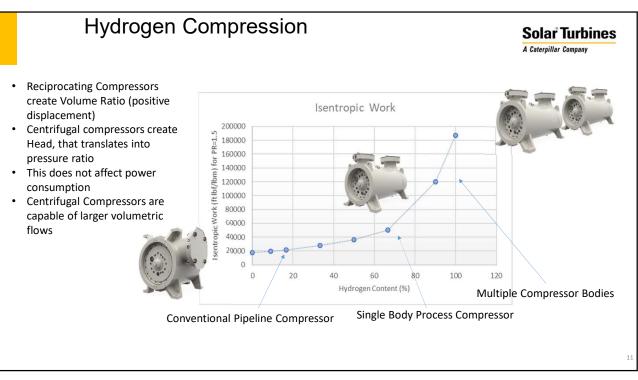
Solar Turbines

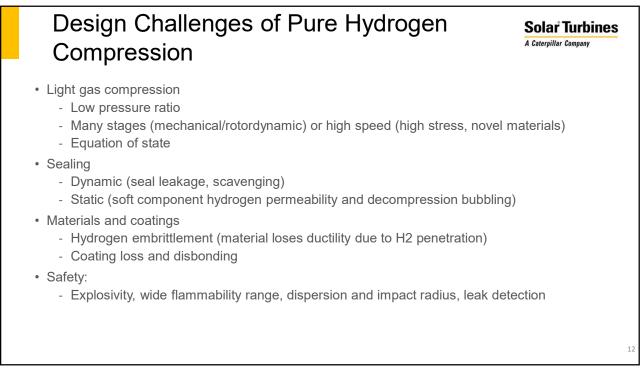
- Green or Blue Hydrogen mixed into Natural Gas Pipelines
- Green or Blue Hydrogen transported in pure form in Pipelines
- Transport of CO₂ from Blue Hydrogen (or Exhaust) to Sequestration Site
- Transport of Natural Gas to Power Plant or SMR site
- Storage (to Balance Supply and Demand)



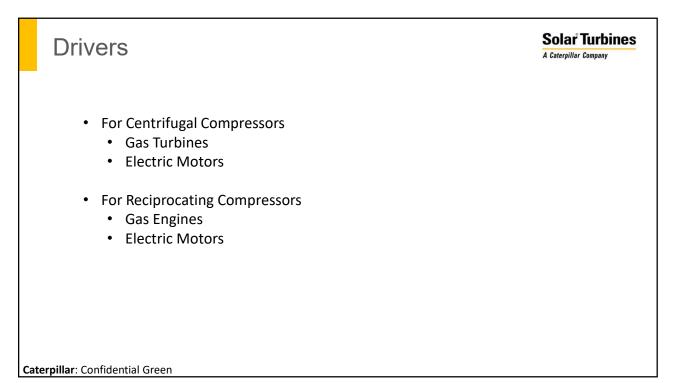
Compression		

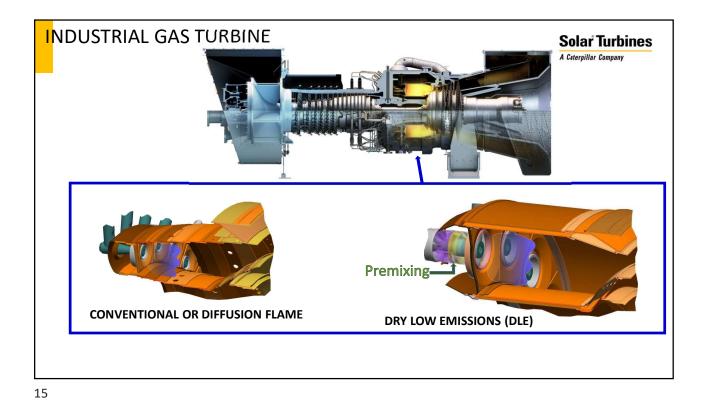






Drivers





Hydrogen Combustion Characteristics **Solar Turbines** Combustor Volume • Higher Flame Speed – H2 is 7x Faster - Flame Position in Combustor - "Flashback" Risk Fuel & Air Premixer **Direction of Flow** - 20% H2 and Below only 15% Faster • Higher Flame Temperature • Higher NOx Emissions FLAME TEMPERATURE (C) 2400 2500 2300 **Pipeline Natural Gas** Ċ 4 atm Hydrogen + Methane (10 - 100%) 1.5 0.5 1.0 2.0 **Flashback in DLE Injector** NOx / NOx FROM METHANE

