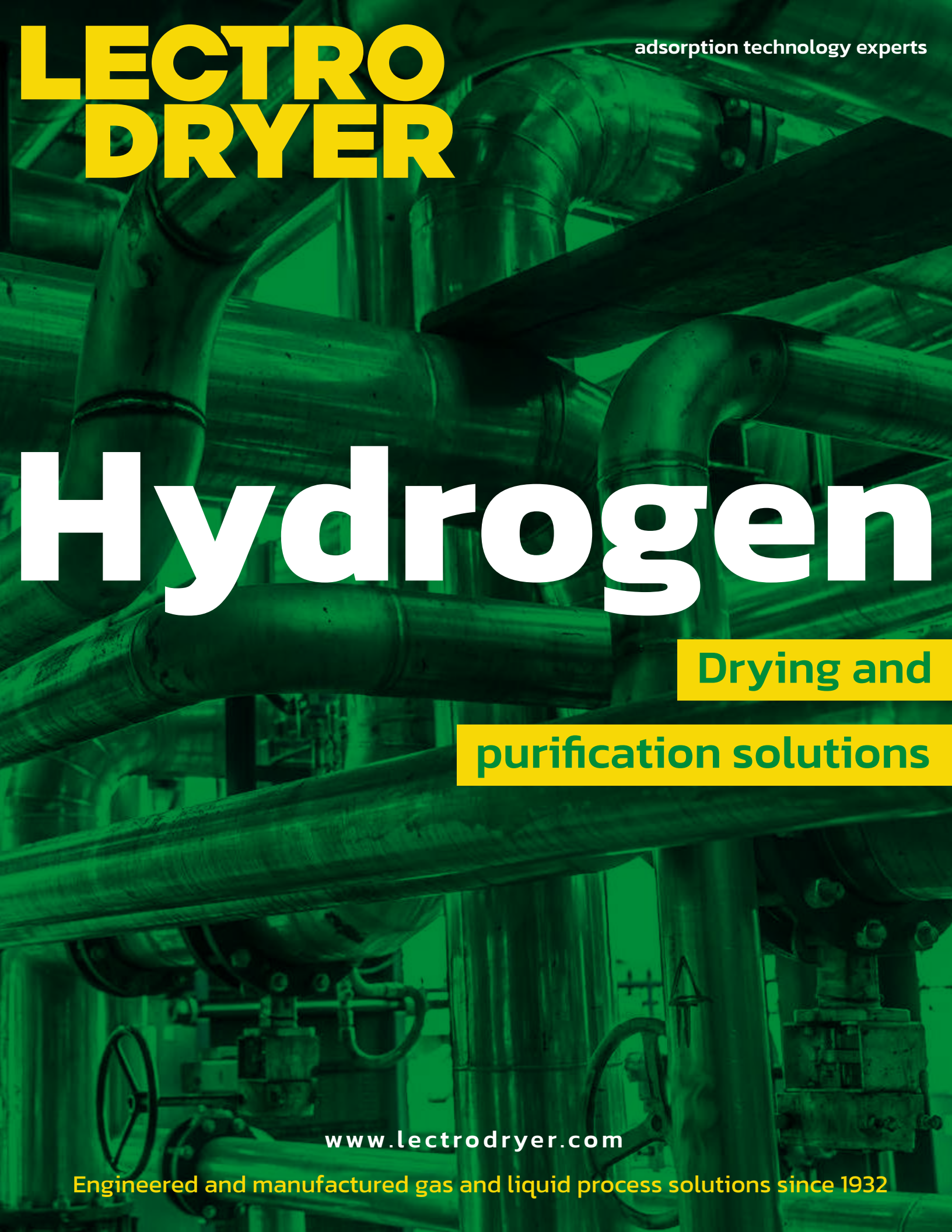

LECTRO DRYER

adsorption technology experts

Hydrogen

Drying and purification solutions

www.lectrodryer.com

Engineered and manufactured gas and liquid process solutions since 1932

Hydrogen Drying and purification solutions that are optimized by capital and operational cost reductions so return on investment can be identified with confidence.

- Drying hydrogen from electrolysis since 1963
- Zero purge drying for no loss of hydrogen
- Water removal to 5ppmv or lower
- Designs from 1 to 5000 psig (0.7 to 345 barg)
- Designed to meet all safety and worldwide certifications
- O_2 removal as required

Sources of Green hydrogen

1. Electrolysis of water with electricity from low carbon sources
2. Steam reforming of biomethane
3. Pyro-reforming of glycerine of renewable origin
4. Electrolysis of salt solution from renewable sources

In the industry, hydrogen is color coded based on the source and/or process used to manufacture it

Hydrogen Color	Hydrogen Generation Process
Black / Brown	Coal (Black), Lignite (Brown), or Fossil Fuel Processing
Grey	Steam Reforming of Methane/Natural Gas **WITHOUT** CCS*
Blue	Steam Reforming of Methane/Natural Gas **WITH** CCS*
Green	Electrolysis Powered by a Renewable Energy Source
Pink	Electrolysis/Steam Reforming Driven by Nuclear Power
Turquoise	Methane Pyrolysis Processes
Yellow	Electrolysis Powered by Solar Energy
White	Naturally Occurring Geological Source

** **CCS** = Carbon Capture and Storage*

Brochure Rev. 01

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