



COMPRESSORS

The H<sub>2</sub> Experts

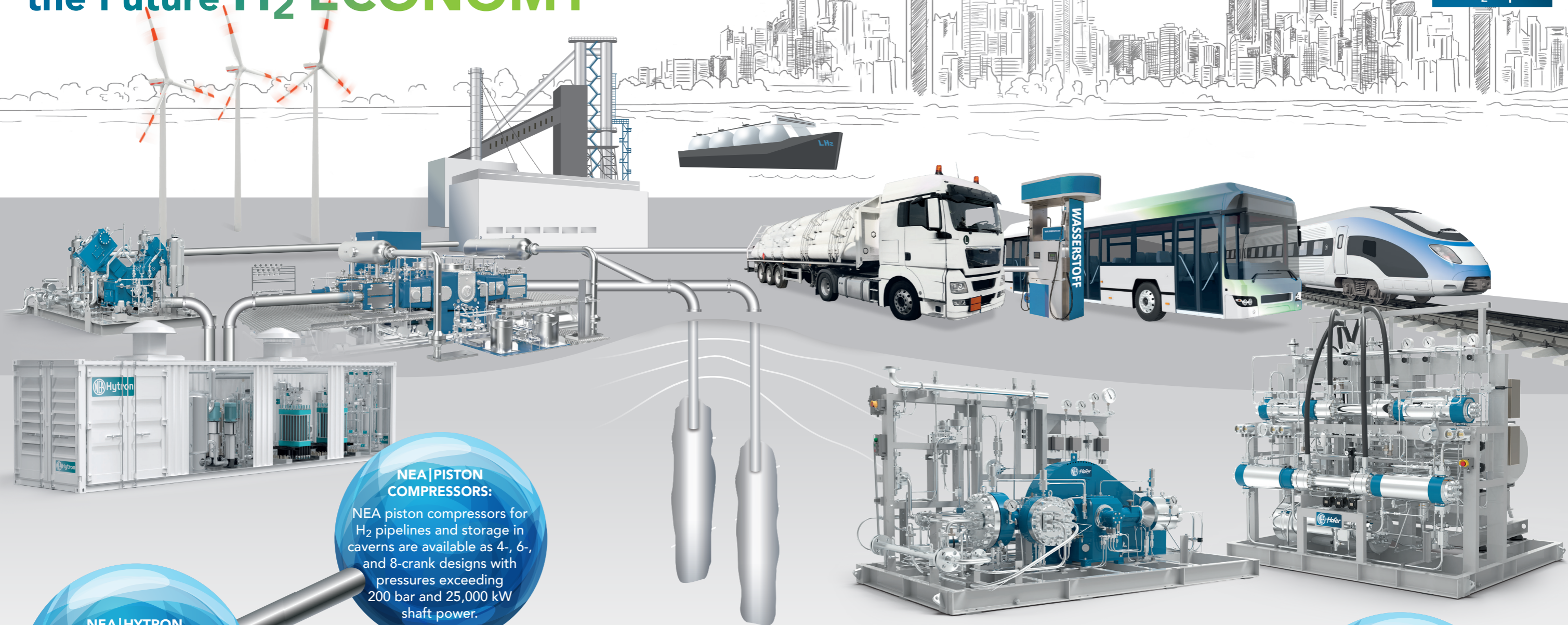
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H<sub>2</sub>

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**NEUMAN & ESSER GROUP**

# ELECTROLYZERS and COMPRESSORS Optimizing the Future H<sub>2</sub> ECONOMY



**NEA|HYTRON ELECTROLYZERS:**  
The NEA|HYTRON HyPEM and alkaline electrolyzer systems with a wide range of capacities producing high quality H<sub>2</sub> up to 99.9999% with pressures more than 30 barg.

**NEA|PISTON COMPRESSORS:**  
NEA piston compressors for H<sub>2</sub> pipelines and storage in caverns are available as 4-, 6-, and 8-crank designs with pressures exceeding 200 bar and 25,000 kW shaft power.

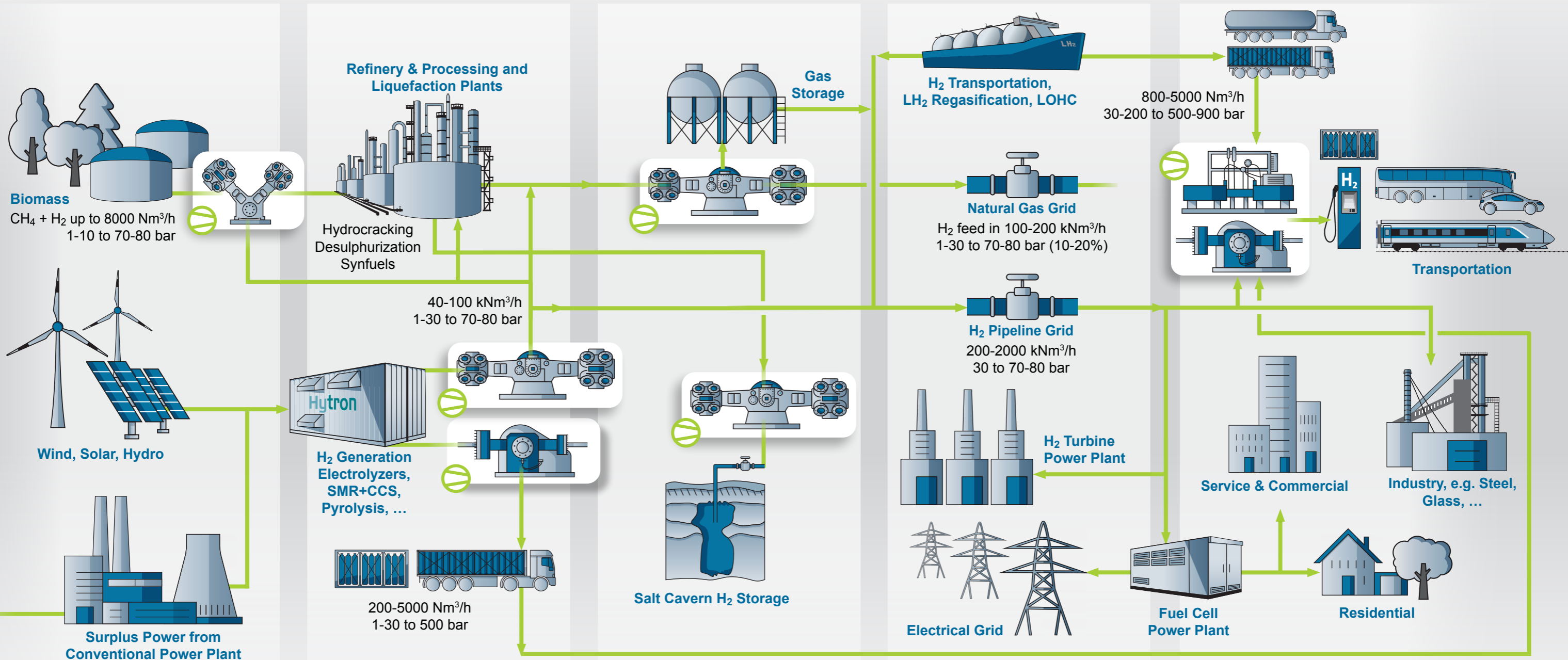
**Energy transition with compressors**  
For 80+ years NEUMAN & ESSER have been serving processes in refineries, the petrochemical and chemical industries according to API 618. This is why NEA has a profound know-how in the compression of all process gases, especially of hydrogen and hydrogen mix gases. NEA GROUP has broadened its portfolio of applications by supporting the transformation from the fossil fuel based oil & gas sector to an H<sub>2</sub> Economy with green hydrogen from renewable energy. This is where the proven compressor technologies from NEA and HOFER come into play. The conversion of the energy system with Power to Gas needs energy-efficient piston and diaphragm compressors. They are the perfect match to ensure both the flexibility of demand and energy security with green gases.

**NEA|HOFER MKZ COMPRESSORS:**  
Oil- and abrasion-free compression with MKZ diaphragm compressors from HOFER serve all power-to-X applications with pressures even beyond 1000 bar, suitable for H<sub>2</sub> bottle & trailer fillers, car, truck, bus and rail fuel stations.

**NEA|HOFER TKH COMPRESSORS:**  
Hydraulically driven TKH piston compressors from HOFER for 100% non-lube fueling of 700 bar hydrogen vehicle tanks.

**NEUMAN & ESSER: Agile. Solution. Experts.**  
[neuman-esser.com](http://neuman-esser.com)

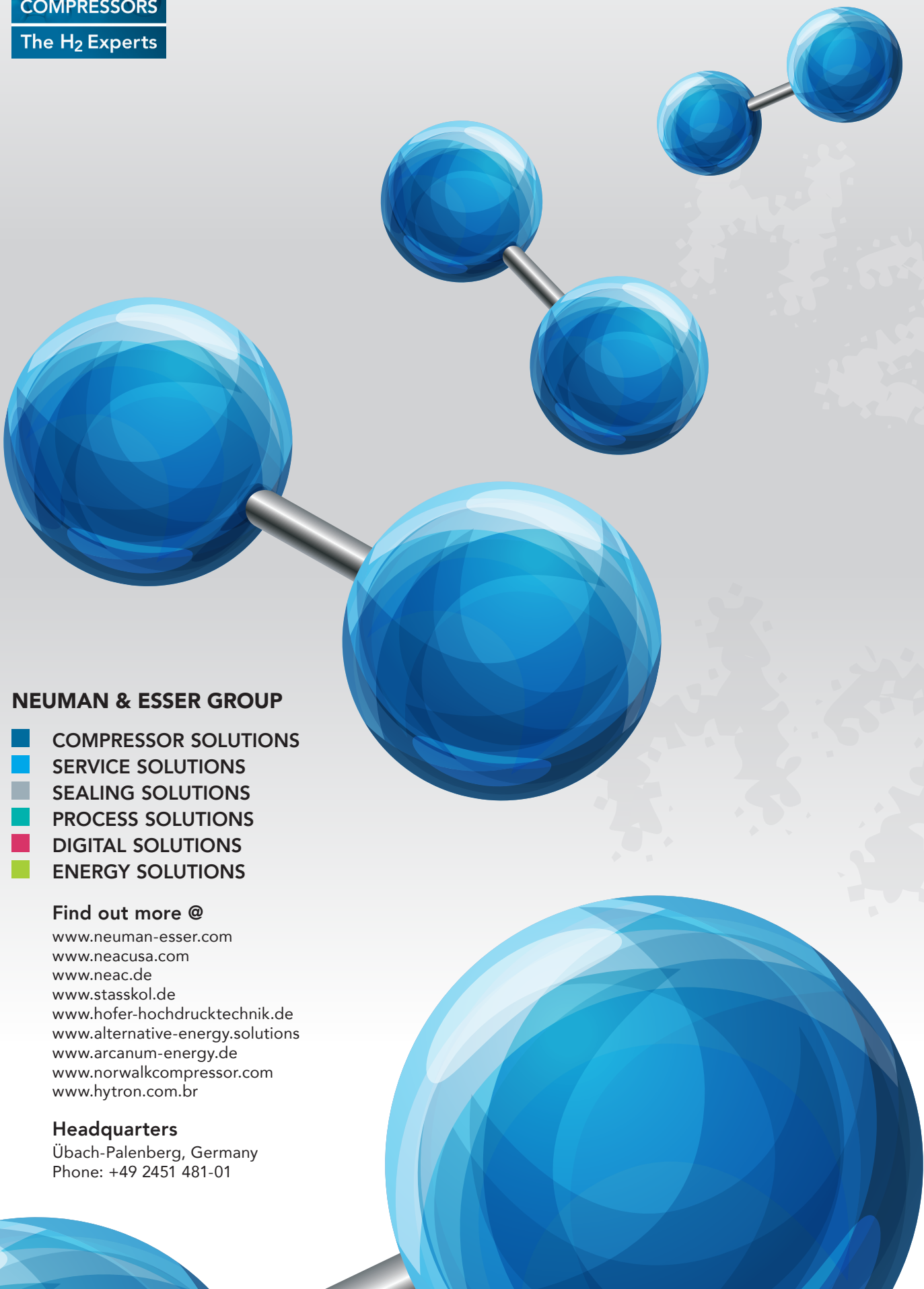
# The NEA GROUP Portfolio for the H<sub>2</sub> Value Chain





COMPRESSORS

The H<sub>2</sub> Experts



## NEUMAN & ESSER GROUP

- COMPRESSOR SOLUTIONS
- SERVICE SOLUTIONS
- SEALING SOLUTIONS
- PROCESS SOLUTIONS
- DIGITAL SOLUTIONS
- ENERGY SOLUTIONS

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### Headquarters

Übach-Palenberg, Germany  
Phone: +49 2451 481-01