

CRITICAL SEALING FOR HYDROGEN PRODUCTION AND STORAGE

At Technetics Group, we believe no challenge is too daunting and no strategy is unachievable. Because when maximum performance is mandatory, and failure is unacceptable, you need the utmost confidence that only Technetics Group can deliver.

Introducing Today's Speakers

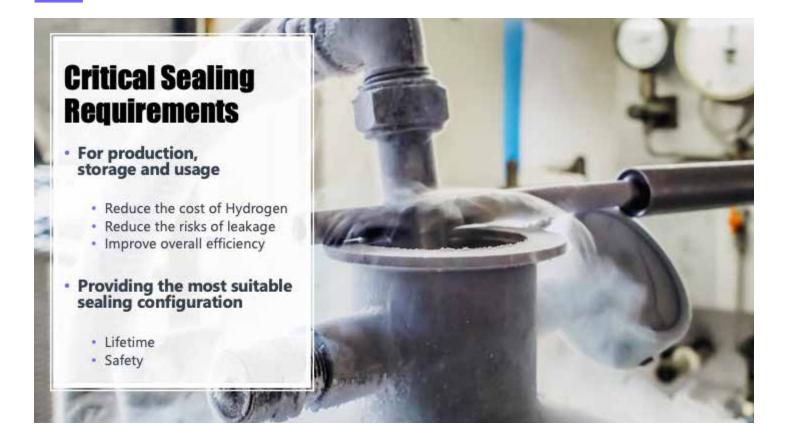
Geraud Riffard

 Geraud Riffard has worked in the sealing industry with Technetics for more than 20 years in particular nuclear, semiconductors, and scientific researchrelated applications, mainly in Asia. Supported by an experienced scientific team involved in high-temperature electrolysis, he has also been working on the engagement of Technetics towards renewable energies and hydrogen applications for the last 4 years.

Brad Lodge

 Brad Lodge, President of Technetics Group has worked in various roles within the sealing industry over the past 14 years. He holds a BS in Mechanical Engineering from The Ohio State University and earned his MBA from Case Western Reserve University.

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Challenges of the production & handling of (Green) Hydrogen

- Electrolysis : reliable and cost effective H2
- Fuel Cells : produce competitive electricity on-demand
- Turbines : H2 or mixed with Natural Gas to reduce CO₂ emissions
- Transport and storage : safety and cost

Technetics' Experience in Critical Environments

Markets including:

- Nuclear
- Aerospace
- Semiconductor
- Scientific research

Conditions including:

- Cryogenic temperatures
- High temperatures
- Ultra-high vacuum (UHV)
- High pressure



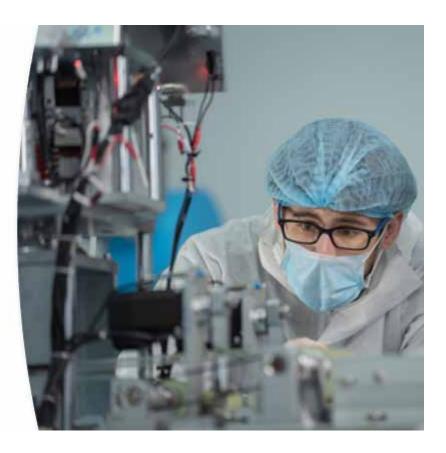
Technetics Research & Development, Engineering

Materials

- Characterization
- Qualification of systems under actual Hydrogen environment

Design and testing

- Custom-systems
- Test benchs with test campaigns
- Expertise and analysis



Technetics Solutions

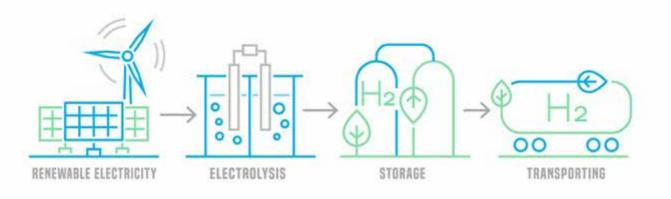
- Metal Seals
- **Elastomer Seals**
- Mechanical seals
- We can be found in:
 - Pumps
 - Compressors
 - Valves
 - Turbines
 - Reactors
 - Exchangers
 - Cryogenic systems
 - UHV equipment



Technetics Embraces the Challenges of Hydrogen

- Solid oxide fuel cells
- High temperature electrolysis
- High temperature water stream electrolysis
- · Proton exchange membrane fuel cells





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Property and Co.

How we Currently Support the Hydrogen Industry



- Next generation of fuel cells and electrolyzers
- Transport and storage of LH2

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- Aerospace industry
- Hydrogen turbines
- Scientific research

R&D and Looking Forward



Our bottom line is to support :

- Efficiency
- Reliability
- Safety

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