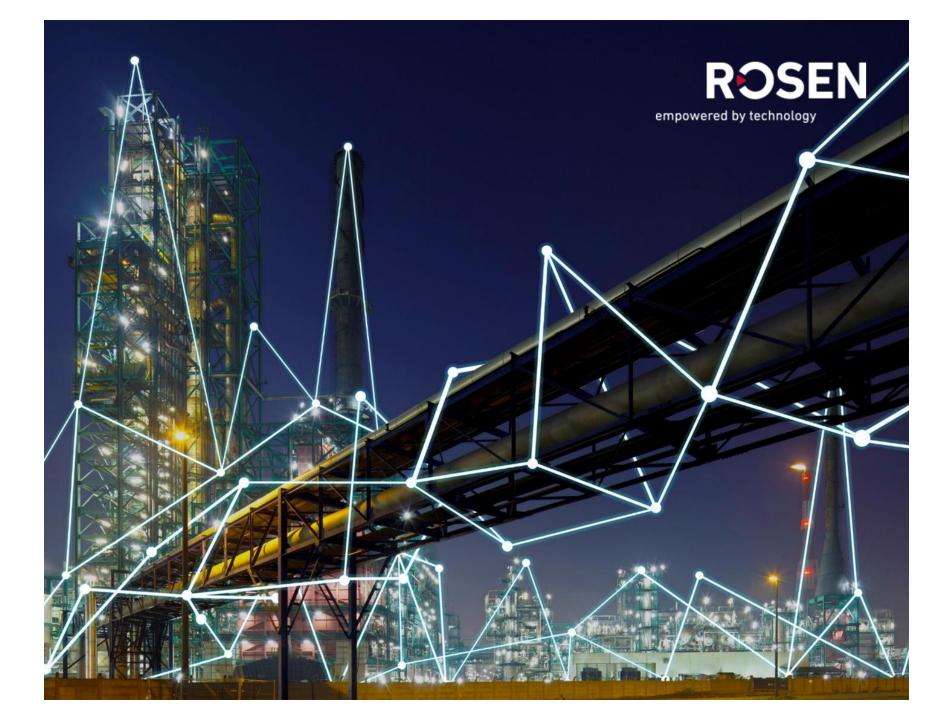
Netherlands

We support Operators & Institutions transitioning to Hydrogen





H2 Conversion & CCUS 2020-2023



Hydrogen Projects



Conferences & Journals



Project Examples:

- Repurposing of Pipeline and Pipe work
- Asset integrity in repurposing existing natural gas infrastructure for Hydrogen.
- Hydrogen Pipelines Design and Materials Challenges and Mitigations
- Review of Hydrogen Procedures for suitability for hydrogen blended gas networks
- Assessment of the Acceptability of Injecting 10% Hydrogen into the National Transmission System
- Review of Company specification for steel pipelines (Natural Gas) against hydrogen pipeline specifications
- Laboratory material testing for oxygen inhibition of hydrogen embrittlement



Our experience and knowledge in the field of hydrogen

Hydrogen Material Challenges

Clarification and aggregation of available information with respect to the effect of hydrogen on the structural integrity of steel pipelines and non-metallic pipeline materials.

Hydrogen Integrity Assessments

Reviewing the available data and development of methods for the fitness for service assessment of pipelines exposed to hydrogen.

Hydrogen Engineering Guidelines

Development of engineering guidelines for preparing natural gas networks for the accommodation of hydrogen.

Hydrogen Exposure Testing

Material compatibility tests of hydrogen exposed diagnostic components and equipment in hydrogen atmosphere.

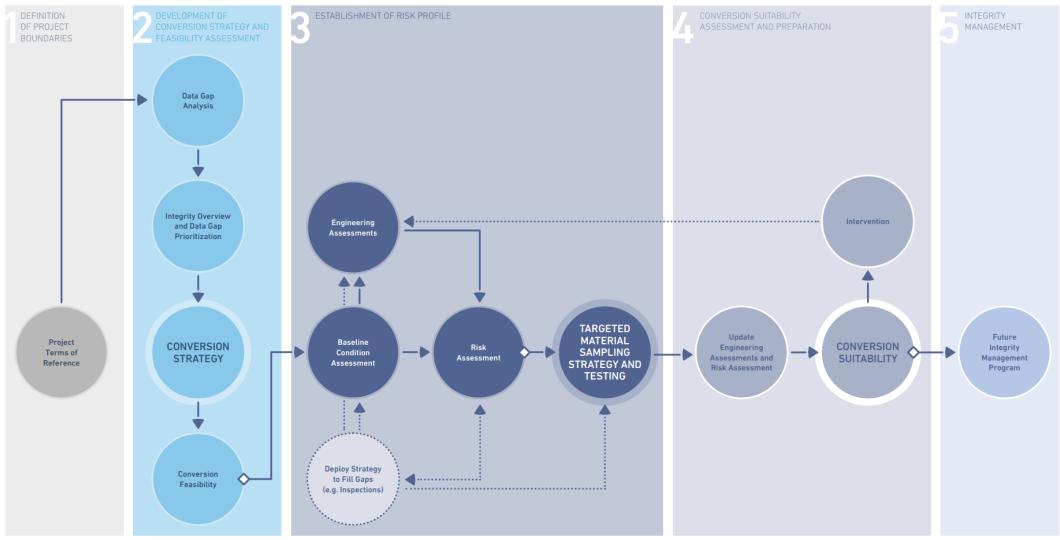
Hydrogen In-line Inspection

Realization of successful in-line inspection runs in 100% hydrogen pipelines during their operation.



Hydrogen Repurposing Roadmap







Netherlands

I would love to continue the conversation.

Please e-mail us at oruizmartinez@rosen-group.com

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