

Digital Solutions: Hydrogen Toolkit

Developed as part of our ongoing commitment to digital transformation and energy transition, Penspen's cloud-based digital software solution THEIA, has been equipped with a hydrogen toolkit to provide critical insights into the influence of hydrogen on pipeline systems. THEIA implements multiple modules to empower engineering teams to assess the impact of hydrogen on new or existing pipelines.

PIPELINE ENERGY CAPACITY



Assess the energy capacity of a pipeline based on new or repurposed infrastructure and the impact of revised operating pressures and velocity restrictions.

RISK ASSESSMENT



Assess the impact on societal and individual risks and compare these with natural gas operations.

MAXIMUM ALLOWABLE OPERATING PRESSURES



Calculate wall thickness or maximum allowable operating pressures based on hydrogen-compatible materials and location class.

TECHNICAL LIBRARY/E-LEARNING



Keeps your team trained with the latest hydrogen-related standards and practice with e-learning materials developed by Penspen.

WHY THEIA?



Address the constraints of costs, ageing assets, loss of skill in the industry, energy transition, and much more. By using a flexible, intuitive, cloud-based software solution, users can quickly and efficiently access information on their pipeline and maintain optimal operability of their asset.

SCAN TO
LEARN MORE



CAPTURE THE VALUE OF YOUR DATA - EMPOWER YOUR INTEGRITY TEAM

