



**Solutions for hydrogen
projects from start to
finish**



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Environmental safety of hydrogen plants

A quantitative risk assessment (QRA) for hydrogen plants is an important step and often a prerequisite to obtain an environmental permit.

When a hydrogen project

- requires the preparation of a safety study or
- a dispersion calculation for the safe blow-off of pressure relief valves or
- a Building Risk Assessment indicating the safest location for your hydrogen project,

our recognised QRA experts will make it their business to prepare this study for you independently and quickly.

Risk assessments for hydrogen projects

Hydrogen, compared to natural gas, has a number of properties that make it more dangerous. So, a risk analysis is extremely important. Given the high risk, all scenarios where something can go wrong should be considered and covered.

Among others Vincotte can perform the following technical assessments and studies: a HAZOP, an explosion protection document and a zoning file, lightning protection, tightness tests such as for natural gas installations, compliancy with applicable regulations, assessment of the structural integrity of the installation, analysis of material certificates, conducting additional tests on materials, assessment of measuring equipment (Measuring Instruments Directive), PED (Pressure Equipment Directive), etc.

Origin and carbon footprint of hydrogen

Green hydrogen essential to support the EU's drive to be carbon neutral by 2050 and the global effort to implement the Paris Climate Agreement and aim for climate neutrality.

The use of green hydrogen emits no CO₂ and almost no air pollution if the hydrogen is made with e.g., electrolysis based on renewable energy

Vincotte helps you prove the sustainable origin of hydrogen you produce, transport or use.