

HEALTH AND SAFETY

Mercury Renewables is committed to minimising the risk to employees, the local community and the environment and will achieve this through safe design, the management of risks and the training of personnel.

Hydrogen has a proven safety track record as a fuel for more than 80 years. Hydrogen has various properties that make it an ideal energy carrier:

- Hydrogen is non-toxic and non-poisonous, unlike conventional fuels. A hydrogen leak will not contaminate the environment or endanger the health of humans or wildlife. Hydrogen does not create “fumes”.
- Hydrogen is 14 times lighter than air, consequently when it is released it dilutes quickly into a non-flammable concentration, significantly reducing the risk of ignition at ground level.
- Hydrogen has a lower radiant heat than conventional gasoline, i.e. the air around the hydrogen flame is less hot than around a gasoline flame, reducing the risk of secondary fires.

There are properties of hydrogen that require careful consideration to ensure risk is appropriately managed and sufficient controls are applied to ensure safe use. Here is what we have done so far and what we will continue to do to ensure the safety of all stakeholders and the environment:

UPDATE ON ACTIONS AND ENGAGEMENTS

Mercury Renewables has been engaging with various stakeholders and safety specialists for almost 2 years. Here is an update on what we have done so far:

- Review of internationally recognised safety standards and codes
- Incorporation of safety considerations to initial facility design
- Organisation of Preliminary Hazard Analysis (PHA) Identification sessions
- Development of PHA Report
- Engagement with the Health and Safety Authority (HSA)
- Engagement with Sligo Fire Service
- Engagement with Sligo and Mayo County Councils
- Development of a Safety Assurance Outline Plan

FUTURE STEPS

Safety will continue to be at the forefront of every phase. Here is what's to come:

- Continued engagement with local councils and HSA
- Completion of Quantitative Risk Assessment
- Continued engagement with Sligo Fire Service
- Development of a Risk Management Programme
- ATEX Assessment (workplace / employee based assessment)
- Development of a Safety Management System
- Continued review of facility design as hazards are identified
- Completion of Major Accident Prevention Policy