

# Load monitoring and damage detection



Topic: Hydrogen

•**TITLE:** Model-based structural health monitoring in composite pressure vessels.

•**RESEARCH ACTIVITIES:**

1. Development of a finite element model to obtain the strain field in composite pressure vessel.
2. Experimental research to measure strain in composite pressure vessel using bucky paper and fibre optic sensors.
3. Validation of FEM results by experimental measurements.

•**METHODOLOGY:** Numerical, experimental

•**DURATION:** 9 months

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