

Title:

NIP II - FuE - Verbund: Continuous and economical monitoring of hydrogen pressure vessels using integrated sensors; Sub-project: Production of hydrogen pressure vessels and sensor integration

Brief description:

The main objective of the HZwo:SafeTank research project is the development and integration of a continuously operating monitoring system with various sensors and corresponding evaluation methods. Such a monitoring system can drastically reduce the safety factor in dimensioning. This results in both material and CO_2 savings. Increased (perceived) safety also strengthens customer acceptance and trust.

Motivation:

- Increasing safety of hydrogen storages
- CO₂-reduction (decarbonization)

Objectives:

- Integration/application of sensor technology in the production cycle
- Monitoring of the CF-reinforced structure

Duration: January 01, 2024 to June 30, 2026

Funding and project sponsor: ptj; BMDV

Partners:

FAE Elektrotechnik GmbH & Co. KG, Heidenau ETO SENSORIC GmbH, Nürnberg CONTAG AG, Berlin Brandenburg University of Technology Cottbus-Senftenberg, Cottbus diondo GmbH, Hattingen Chemnitz University of Technology, Chemnitz

Contact person:

Norbert Schramm, norbert.schramm@lse-chemnitz.de

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