

# Reference

## Plant for H2 production with subsequent methanation

### Client

SolarFuel GmbH  
(End customer: Audi)

### Location

Germany / Werlthe

### J.H.K.-Scope of supplies

Installation of plant components as well as piping and steel construction

### Duration

Sep 2012 / Apr 2013

In 2013, we successfully completed a pilot plant for Audi for the production of “e-gas,” a synthetic fuel produced from renewable energies. This plant in Werlthe, Lower Saxony, was the first of its kind and has an input power of around six megawatts for hydrogen production using three alkaline electrolyzers. It produces approximately 1.4 million m<sup>3</sup> of grid-compatible “e-gas” annually.

Through our expertise in combining our know-how with third-party technologies, we were able to complete the ~2,000 m Balance of Plant piping (DN15 – DN200) as well as the installation of the entire plant technology, including the required ~55 t steel construction, on schedule.

Oil and gas

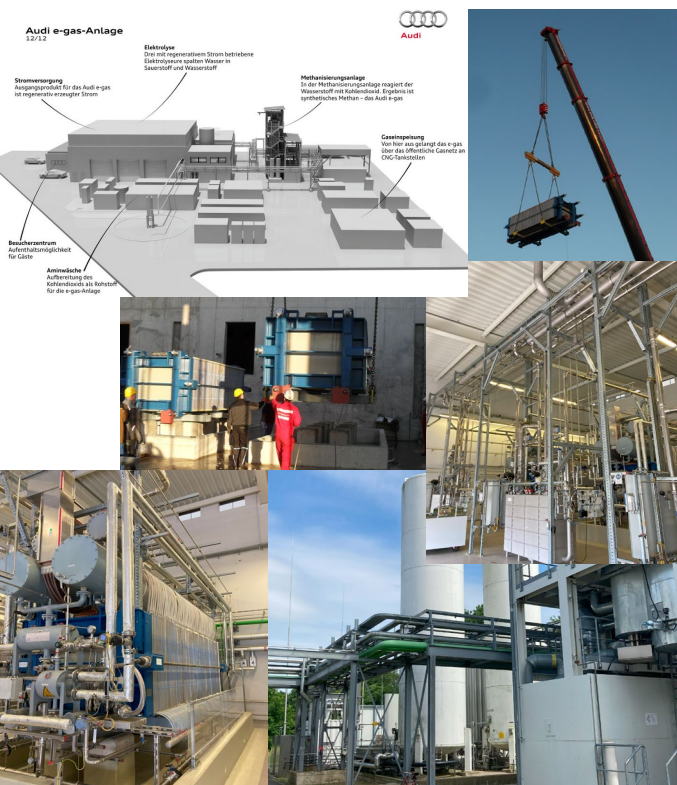
✓ Energy economy

Process-industry

Shipbuilding

Offshore

Infrastructure



### Summary

- Complete 3D engineering including static calculations up to workshop planning
- Installation and commissioning of the plant including supplied systems

### Scope of supplies

- Isometrics, assembly, and workshop drawings
- Steel and pipe constr.: prefabrication, delivery, and assembly incl. corrosion protection and insulation
- Pressure tests, NDT, and documentation including CE conformity

### Customer advantages

- + Single source project
- + Coordination and interface management
- + Solution finding and detail clarification
- + On-time execution
- + Steel and pipe construction (stainless steel and carbon steel) from in-house production

### Executing companies:

J.H.K. Anlagenbau und Industrieservice GmbH & Co. KG  
J.H.K. Industriebeschichtung GmbH & Co. KG

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