



# Hydrogen Europe: European Hydrogen & Fuel cell Project Database

## Project HyLIFT-EUROPE

HyLIFT-EUROPE - Large scale demonstration of fuel cell powered material handling vehicles

The aim of HyLIFT-EUROPE is to demonstrate more than 200 fuel cell material handling vehicles and associated refuelling infrastructure at 5-20 sites across Europe, making it the largest European trial of hydrogen fuel cell material handling vehicles so far and the world's first large scale demonstration of airport tow tractors. This will continue efforts of the ongoing FCH JU supported HyLIFT-DEMO project. In the HyLIFT-EUROPE project the partners will demonstrate fuel cell systems in material handling vehicles from the partners STILL and MULAG and potentially from non-participating OEMs. STILL will purchase fuel cell systems from suppliers according to the FCH JU purchasing rules ("principles of economy, efficiency and effectiveness"). MULAG will integrate fuel cell systems from the partner DTP. Fuel cell vehicles from other non-participating OEMs may also be demonstrated depending on identified customer needs. The high volume combined with the FCH JU support is enabling a cost-neutral demonstration operation for vehicle-users. Dialogues have been established with 33 vehicle-users with a combined fleet of 2,097 vehicles of the types targeted for demonstration. At the vehicle-user sites 5-20 hydrogen refuelling stations (HRSs) will be deployed using the latest technology by Air Liquide. To arrive at the target hydrogen price of 8-12 €/kg (average target < 10 €/kg) dispensed at the pump, vehicle deployment locations will be chosen close to hydrogen production locations whenever possible in order to arrive at the lowest hydrogen supply cost. The project partners cover the entire value chain and all the disciplines and technologies required for providing fully working hydrogen powered fuel cell material handling solutions ranging from fuel cell system providers, vehicle manufacturers, infrastructure operators and SME companies. The partners will also plan and ensure initiation of supported market deployment beyond 2015 and validation performance targets on durability, efficiency and costs from the demonstration activities. Project results and experiences will be disseminated throughout Europe targeting early adopters of hydrogen vehicles, focused on European airports and large industrial users of material handling vehicles, as well as on key policy and industry stakeholders.

## Project Information

**Type of project :** Demonstration

**Timing :** 01/01/2013 > 31/12/2017

**Project website:** <http://www.hylift-europe.eu/>

**Project Budget :** 15.680.960 €

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## Funding

European Union through FCH JU: **Grant agreement 303451 - CORDIS link**

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## Project partners

**Coordinator :**

Ludwig-Boelkow-Systemtechnik GmbH

**Partners :**[AIR PRODUCTS GMBH](#)[Air Liquide Group](#)[Ballard Power System Europe AS](#)

STILL GMBH

MULAG FAHRZEUGWERK HEINZ WÖSSNER GMBH U. CO. KG

COPENHAGEN HYDROGEN NETWORK AS

ELEMENT ENERGY LIMITED

FAST - FEDERAZIONE DELLE ASSOCIAZIONI SCIENTIFICHE E TECNICHE

JRC - JOINT RESEARCH CENTRE - EUROPEAN COMMISSION

HEATHROW AIRPORT LIMITED

H2 Logic A/S

PRELOCENTRE

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**Sub project(s)****Sub project 1****Country:** Germany**Address:**

Daimlerstr. 15 85521 Ottobrunn

**Sub project categories**

Demonstration

Project Id: 1006

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