



# elyntegration

## PROGRAM – WORKSHOP ELYNTEGRATION

H<sub>2</sub> applications and end users:  
challenges, barriers, and lessons learned

### 9:30 Registration and welcoming of participants

#### 10:00 Opening remarks

Agenda, Review of workshop objectives. Project ELYNTEGRATION Presentation.

#### 10:30 SESSION 1: ELECTRICITY MARKET

Objective: Understanding, through studies, discussion, and participation of attendants, the actual and future paradigm of electricity and power market, achieving an affordable, decarbonized and secure electricity supply.

Participants intervening:

- INYCOM (Overview, solutions for smart electricity distribution);
- CENER (STORY Project, Innovative approaches for energy storage)

#### 11:45 NETWORKING COFFEE

#### 12:15 SESSION 2: HYDROGEN AS LINK BETWEEN ELECTRICITY AND GAS MARKETS

Objective: As one of the potential solutions to solve the needs of the future power markets, H<sub>2</sub> produced by electrolysis also has the characteristic of linking the electric market and gas market (Power to Hydrogen and Power to Gas). Attendants will discuss on projects and initiatives, status and prospects, challenges found while developing P2H/P2G deployments, potential needs in terms of regulation, codes, and standards that are encountered.

Participants intervening:

- GASUNIE (Hystock project)
- ENAGAS (RenovaGas project)
- Universidad de Zaragoza (Power to Gas in Aragon)

### 13:30 LUNCH and NETWORKING

#### 15:00 SESSION 3:

#### END USES OF HYDROGEN

Hydrogen is mostly used nowadays at the industrial level, with industry representing more than 90% of the hydrogen market share (chemical processing (ammonia, polyurethane, nylon...), refineries and metal processing). Regarding hydrogen for mobility applications, hydrogen as a fuel for FCE vehicles is considered a key market to achieve a sustainable growth, linked with the needed reduction in GHG emissions of transport. Session 3 will be focused on discussing how green hydrogen could empower the use one these markets and new market segments.

Participants intervening:

- IHT (Electrolytic hydrogen for energy applications in industry, DEMO4GRID case)

#### 16:00 CLOSING REMARKS. CONCLUSIONS AND NEXT STEPS

Date: 8<sup>th</sup> November 2017

Venue:

Hotel NH Zaragoza Centro – Hesperia  
Calle Conde Aranda, 48, 50003, Zaragoza

Registration: [www.elyntegration.eu](http://www.elyntegration.eu)

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