

# ENERGY STORAGE TECHNOLOGIES BY POWER TO FUELS AND CHEMICALS EVENT

Initiating a periodic event  
focused on the  
Power to X systems  
and perspectives

5<sup>th</sup> & 6<sup>th</sup> December 2016  
CEA-GRENOBLE,  
FRANCE



With the support of:



## Objectives:

Initiate an European periodic event on technologies and business development of Power to fuels and chemicals

## Confirmed Speakers :

ADEME(Fr), McPhy(Fr), ITM(UK), CEA(Fr), IREC(Sp), LLT(Fr), Climeworks(CH), ATMOSTAT(Fr), Electrochaea(Ge), MeOH Inst. (Be), GRTgaz(Fr), TAURON(PI), DVGW (Ge), Greenwin (Be), EC (Be), Aachen Uni. (Ge), Suez (Fr), KIT (Ge),

Registration fee: 120€ before end of Sept - after 240€  
Please contact [audrey.joly@ines-solaire.org](mailto:audrey.joly@ines-solaire.org)

Registration

[https://docs.google.com/a/ines-solaire.org/forms/d/1AkmVBpLxs5eSum7SGC\\_sWCY4z1hJ-2a7jnOYBOUZxt0/viewform](https://docs.google.com/a/ines-solaire.org/forms/d/1AkmVBpLxs5eSum7SGC_sWCY4z1hJ-2a7jnOYBOUZxt0/viewform)

# CONFERENCE PROGRAM

**5<sup>th</sup> December: Conference**  
**9:00 – 18:00**

**Welcome & introduction - CEA**

- ✓ **Challenge of Energy Storage - CEA**
- ✓ **Potential of Power to X technologies - ADEME**

## **Hydrogen production technologies**

- ✓ Alkaline technology – McPhy
- ✓ PEM technology – ITM, UK
- ✓ SOEC technology – CEA
- ✓ PEC technologies – IREC

## **CO<sub>2</sub> resources and capture technologies**

- ✓ Amine capture – LLT
- ✓ Ionic liquid solvent – KIT
- ✓ Membrane and cryo separation – Suez
- ✓ Atmospheric capture - Climeworks

## **CO<sub>2</sub> hydrogenation technologies to Fuels and Chemicals**

- ✓ Catalytic CO<sub>2</sub> methanation – CEA-ATMOSTAT
- ✓ Biologic methanation - Electrochaea
- ✓ Methanol reactor technology – MeOH inst.

# CONFERENCE PROGRAM

6<sup>th</sup> December: Conference  
8:30 – 13:00

## Demonstration projects

- ✓ JUPITER1000 project - GRTgaz
- ✓ CO<sub>2</sub>-SNG project - TAURON
- ✓ STORE&GO project - DVGW
- ✓ CO<sub>2</sub> MeOH plant project in Iceland- CRI or MeOH inst.

## Assessments and regulations

- ✓ Techno-economic assessment - Greenwin
- ✓ Environmental assessment – Aachen Uni.
- ✓ Legislation and directives – EU commission

**Panel discussion** : debate led by CEA

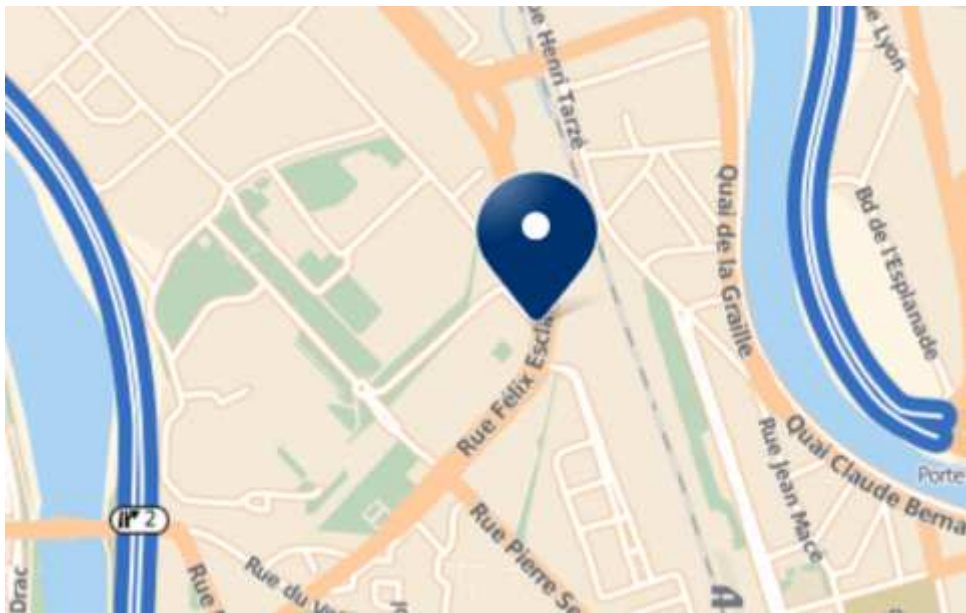
## Scientific committee

Prof. Morante Juan Ramon (IREC-Spain)  
Senior expert Bengaouer Alain (CEA-France)  
Senior expert Baurens Pierre (CEA-France)  
Dr-Eng Ducros Frédéric (CEA-France)  
Senior expert Bedel Laurent (CEA-France)

## Organization committee

(CEA-France)  
Audrey Joly  
Bedel Laurent  
Ducros Frédéric

# INFORMATIONS



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