

## **BATHYQUEBC (Battery-Hydrogen-Quebec-Basque Country)**

PRIMA Quebec, the Government of Quebec and the BRTA are organizing this webinar on Tuesday May 10 at 10:00AM Montreal time (4:00PM Basque-Country) which aims to raise awareness of the ecosystems and research priorities of the Basque Country and Quebec in the fields of energy storage (mainly electrochemical storage, batteries) and hydrogen as an energy vector. Funding instruments in the Quebec ecosystem and those of Horizon Europe will be presented to facilitate collaboration on projects. As well as two presentations on energy and two on hydrogen.

### **Agenda**

(5') Institutional introduction

(10') Quebec ecosystem - Funding instruments (Michel Lefèvre, PRIMA Quebec)

(10') Framework of bilateral collaboration programs in Horizon Europe and Eureka. (CDTI)

(30') Energy storage:

- Keynote BRTA (Dr. Nuria Gisbert, CIC energiGUNE) – 15'
- Keynote Quebec (Dr. Vincent St-Onge, Université de Sherbrooke) – 15'

(30') Hydrogen:

- Keynote BRTA (Dr. Ekain Fernandez, Tecnalia) – 15'
- Keynote Quebec (Prof. Pierre Bénard, Hydrogen Research Institute) – 15'

(15') Questions

(2') Closing

### **[Registration](#)**

## Keynote - Energy storage:

### BRTA - Dr. Nuria Gisbert, CIC energiGUNE



**Dr. Nuria Gisbert** has a Ph.D. in Business Management and Innovation, a degree in Electrical Engineering, and a master's degree in Telecommunications. Dr. Gisbert is also an Executive MBA by the prestigious Instituto de Empresa in Madrid.

She has over 20 years of experience linked mainly to the energy sector, both in the private sector and in research centers. Currently, she is the General Director of CIC EnergiGUNE, a research center member of the Basque Research & Technology Alliance (BRTA) focused on thermal energy storage, electrochemistry, and hydrogen.

One of the three best European centers in its field. She is also President of BCARE, the first spin-off of CIC energiGUNE that provides services and products related to batteries and she leads the promoter's team of the second spin-off of CIC energiGUNE, the BASQUEVOLT Gigafactory, an example of public-private partnership. Additionally, she is Vice-President of Innobasque, a member of the Energy Steering group for the Basque Government, a member of the Green-Deal Consultancy group of Vitoria-Gasteiz Major, and a member of the Scientific Advisory Committee of the Basque Council for Science, Technology and Innovation for the Basque Country.

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### Québec - Dr. Vincent St-Onge, Université de Sherbrooke



**Dr. Vincent St-Onge** (Ph.D) is a professional researcher at the University of Sherbrooke. He is the coordinator of the PYRIDINE project ("polymer big data interface") and a specialist in the advanced thermomechanical characterization platform for polymers (PYRIDINE - ATMCP). He holds a doctorate in polymer chemistry (solid polymer electrolytes for Li- and Na-metal batteries, done in partnership with the Center of Excellence for Transportation Electrification and Energy Storage of Hydro-Quebec) and a master's degree in materials chemistry from the University of Sherbrooke.

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## Keynote - Hydrogen:

### BRTA - Dr. Ekain Fernandez, Tecnalia



**Dr. Ekain Fernandez** has a PhD in Chemical Engineering at Eindhoven University of Technology (June 2016) on membranes and membrane reactors for hydrogen production and purification.

He is the Head of Hydrogen Technologies at TECNALIA. He coordinates all activities related to Hydrogen at TECNALIA level that covers the whole hydrogen value chain, including Hydrogen production, distribution, transport and storage and end uses. Since 2007 he has been working at TECNALIA in San Sebastian (Spain), as a researcher and project manager at Materials and Processes Area on the development and scale-up of membranes and membrane reactors for hydrogen production/purification application. He has participated / is participating in several European Projects in this field (DEMCAMER, ReforCELL, FERRET, FluidCELL, BIONICO, HyGrid, MEMBER, MACBETH, ARENHA, INNOMEM, HIGGS), and has also participated in Spanish and regional projects (H2SAREA, HYSHORE, MIRARI, MALTA, HYPUR, SINATRAH).

He is currently the project coordinator of national strategic projects in the Hydrogen field such as Elkartek H2BASQUE and Cervera H24NEWAGE. Moreover, he is the scientific coordinator of the Basque Country for the Spanish Complementary Plans in Energy and Green Hydrogen.

He is a Board member of the Spanish Hydrogen Association (AeH2) and Board member and Technical Committee Leader of Hydrogen distribution of Hydrogen Europe Research. He also participates in other hydrogen related associations such as Clean Hydrogen Alliance, EMIRI, SPIRE. More than 20 international scientific publications in relevant journals and 1 patent presented on this field. More than 50 communications (orals and posters) presented in main conferences related to hydrogen and membranes/membrane reactors (WHEC, EHEC, ICIM, NAMS, ICOM, ICCMR).

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## Québec - Prof. Pierre Bénard, Hydrogen Research Institute



**Pr. Pierre Bénard** (Ph.D) is a Professor of Physics at the Université du Québec à Trois-Rivières and he is the director of the Hydrogen Research Institute (HRI). He holds a PhD in theoretical condensed matter physics from the Université de Sherbrooke and a M. Sc. (Physics) from the University of Toronto. He has written over 100 refereed contributions.

His research interests cover the theoretical and numerical study of microporous adsorbents for hydrogen storage and purification (from materials to system) and the study of hydrogen safety issues using computational fluid dynamics and reduced models.

He led subtask A on Physical Effects Knowledge Gaps of the International Energy Agency's task 31 of the Hydrogen Implementing Agreement. He was a member of the board of director of CQMF, the Québec Centre on Functional Materials and member of the scientific committee of the Hydrogen Canada NSERC Strategic Research Network (H2Can). He is a member of the Québec Network on Intelligent Energy Systems and of the board of directors of the Canadian Hydrogen and Fuel cell Association. He is also guest professor at the School of Automotive Engineering at the Technical University of Wuhan. Pierre has worked in the field of hydrogen energy technologies since 1998.

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