

# European Gas and Energy Research and Innovation Days

Hosted by



# European Gas and Energy Research and Innovation Days

ERIG is organizing an online partner event “European Gas and Energy Research and Innovations Days” at gat|wat 2021.

During one week from Nov 15<sup>th</sup> – 19<sup>th</sup> you will have the opportunity to participate in the online conference and the thematic deep dives as well as the virtual fair.

This years event is taking a closer look at the role of Power-to-Gas in the regional context, hydrogen tolerance and metrology and is hosted by the current ongoing leading european projects on these topics.

Participate and get to know leading european research and industry activities that are featured with guest contributions, in-depth discussions and on the virtual fair.

All visitors of gat|wat 2021 fair and conference have access to this event.

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[Conference Registration](#)  
total price 30€



*Use the “Exhibition Attendance” option to participate in this event – select “online” and “GAT”*

# The three major features of the event

## VIRTUAL FAIR

for open networking and exchange

Provides a chance for all visitors to interact with the featured organisations in the virtual fair and access numerous project pitches in the “Open Stage” library.

## DEEP DIVE WORKSHOPS

for specific detailed topics

Parallel closed and open two hour workshops. All visitors can participate in open workshops. The closed workshops are intended for approximately 5–7 contributors to make substantial progress to the benefit of all participants

European  
Gas and Energy  
Research and  
Innovation Days

## ONLINE CONFERENCE

for the overarching issues

One day each for:

- The integration of Power to Gas in a regional context
- The progress of hydrogen tolerance of the gas infrastructure
- Addressing the challenges of hydrogen handling & metrology

Conference Registration  
total price 30€



# What is gat|wat 2021?

The annual congress gat|wat is the leading event of the energy associations in Germany, BDEW and DVGW.

It includes participants from

- Public utilities
- Industrial enterprises and manufacturers
- Service providers
- Engineering firms

It is expected to be attended by more than 500 managers, decisionmakers, governmental representatives, researchers and water and energy engineers.

## Extensive Online Platform

The gat|wat 2021 online platform will be open from October 25<sup>th</sup> to December 12<sup>th</sup>, 2021. Visitors have the opportunity to join the virtual fair for 7 weeks. In addition, there are 8 online events and several on demand videos within the platform. The “European Gas and Energy Research and Innovations Days” are a fully integrated virtual part of this event.



A trade fair with more than 100 exhibitors accompanies the congress.



# Our incorporation in the gat|wat 2021 programme

10/25/2021  
Online platform  
starts

12/12/2021  
Online platform  
ends

## ONLINE

## LIVE & ONLINE

## ONLINE

October 27<sup>th</sup>, 2021  
14:30 – 17:00

Conference ticket

Efficiency:  
Best practices

November 3<sup>rd</sup>, 2021  
14:00 – 17:00

Conference ticket

Biomethane

November 9<sup>th</sup>, 2021  
14:30 – 17:00

Conference ticket

Research for  
Hydrogen

November 15<sup>th</sup>, 2021  
14:30 – 17:00

All tickets

Innovation forum for  
the water industry

November 24<sup>th</sup> – 25<sup>th</sup>,  
2021

Conference ticket

In Cologne and as  
live stream



December 3<sup>rd</sup>, 2021  
9:00 – noon

All tickets

Roadmap Gas 2050

November 5<sup>th</sup>, 2021  
13:00 – 15:30

Conference ticket

Methane emissions

November 11<sup>th</sup>, 2021  
13:30 – 17:00

Conference ticket

Hydrogen readiness

November 15<sup>th</sup> – 19<sup>th</sup>,  
2021 · 9:00 – 16:30

All tickets

European Gas and  
Energy Research  
and Innovation Days

All tickets

Exhibition in Cologne  
and virtual

Hosted by



Virtual fair from October 25<sup>th</sup> – December 12<sup>th</sup>, 2021

# European Gas and Energy Research and Innovations Days programme overview

|                           |    |   |   |  |    |
|---------------------------|---|---|--|--|---|
|                           | 15th Nov<br>Opening Day – National research and European approach   | 16th Nov<br>P2G in the regional context Day   | 17th Nov<br>H2 tolerance of the gas infrastructure Day   | 18th Nov<br>H2 Handling and Metrology Day  | 19th Nov<br>Closing Day –Review, summary and outlook  |
| Morning Session           | 09:00 – 12:00 · Conference<br>· Opening by ERIG President, Dr Linke<br>· Keynote by EU Commission, N.N. (tbc)<br>· Keynote by H <sub>2</sub> Network North Rhine Westphalia, Dr Kattenstein<br>· <b>Highlight research relating to ERIG Country Members</b> | 09:00 – 12:00 · Conference<br>· Opening by SuperP2G coordinator, Prof Marie Münster, DTU<br>· Keynote by ERA-NET, Frederik Lundström, Swedish Energy Agency<br>· Keynote by EVIDA, Peter Kristensen<br>· <b>The business case for P2G – HEAVENN and SuperP2G</b><br>· <b>SuperP2G region WiVA P&amp;G and the Potential for H<sub>2</sub> for Industry – JKU-Linz</b><br>· Panel discussion | 09:00 – 12:00 · Conference<br>· Opening by HIGGS coordinator, Dr Vanesa Gil, FHA<br>· Keynote by Hydrogen Europe Research, Luigi Crema<br>· Keynote by ENSTOG, Thilo von der Grün<br>· <b>Hydrogen in the transport grid – HIGGS and H2 Backbone</b><br>· <b>Hydrogen in gas utilisation – THyGA</b><br>· Panel discussion | 09:00 – 12:00 · Conference<br>· Opening by MefHySto coordinator, Dr Michael Maiwald, BAM<br>· Keynote by European Metrology Network Energy Gases, Annarita Baldan<br>· Keynote by Open Grid Europe, Tobias van Almsick<br>· <b>Hydrogen metrology and underground storage – Gasunie and MefHySto</b><br>· <b>Hydrogen metrology and refueling stations – H<sub>2</sub>Mobility</b><br>· Panel discussion | 09:00 – 12:00 · Conference<br>· <b>Reflections from the ERIG Research Community</b><br>· <b>Summary and review of the Deep Dives</b><br>· <b>Summary and review of the conference by SuperP2G, HIGGS and MefHySto</b> |
| Lunch                     | 12:00 – 13:00   | 12:00 – 13:00   | 12:00 – 13:00  | 12:00 – 13:00  |   |
| Afternoon Session         | 13:00 – 15:00<br>· <b>Further highlight research relating to ERIG Country Members</b><br>· Panel discussion with the leading scientists of the ERIG Community   | 13:00 – 15:00 · Deep Dive<br>· <b>Focus on: Allocation, size and operation of P2G in the future energy system</b><br>· <b>Focus on: Economics of power-to-gas: Imports and offering flexibility</b>   | 13:00 – 15:00 · Deep Dive<br>· <b>Focus on:</b><br>- Legal, regulatory and technical aspects of H <sub>2</sub> admixing<br>- Techno-economic modelling and validation, enablers and interoperability H <sub>2</sub> /NG grids  | 13:00 – 15:00 · Deep Dive<br>· <b>Focus on: Online ppb – Quality influence along the value chain</b><br>· <b>Focus on: Equations of State for H<sub>2</sub> and related mixtures (closed Workshop)</b>   |   |
| Virtual Fair & Open Stage | 10:00 – 16:30<br>Continuous   | 9:00 – 16:30<br>Continuous  | 9:00 – 16:30<br>Continuous   | 9:00 – 16:30<br>Continuous   |   |

Organized by:



ERIG is an European non-profit organisation based on research to foster the role of gas and innovative gas technologies in the future energy system in synergy with the intermittent renewable energy production. ERIG members represent national technical and scientific gas organisations and associations.



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