





## WEBINAR Next steps for energy systems integration:

Linking policy and practice for clean energy transitions across sectors

Thursday, 2 April 2020, 10:00am - 12:30pm (CET / GMT +1)

Registration link: <a href="https://register.gotowebinar.com/register/1897910307473501195">https://register.gotowebinar.com/register/1897910307473501195</a>

Agora Energiewende and the International Energy Agency (IEA) are hosting a public event to discuss global perspectives for energy systems integration. The current trend towards electrifying transport, heating and industry represents a unique opportunity to decarbonise sectors, previously seen as hard to abate in terms of emissions. This, along with key resources such as hydrogen, contributes to broadening the scope of options to integrate ever greater shares of variable renewable energy (VRE) and accelerate the decarbonisation of the wider energy system. This event will shed light on the opportunities and challenges integrating electric vehicles into the power system and of synthetic fuel production and use.

The deployment of electric vehicles has been growing rapidly over the past ten years, with the global stock of electric passenger cars passing five million in 2018, an increase of 63 percent from the previous year. According to the IEA's EV30@30 scenario, global electric vehicle sales are set to reach 33 percent by 2030. Without concrete efforts for integration in the power system, this will have a significant effect on electricity consumption patterns and the associated requirement for additional network infrastructure. This workshop will provide an overview of innovative approaches – from long-term planning to concrete pilot projects – to better understand and enable the link between transport electrification and power system flexibility.

Electricity-based fuels – referred to in the following as "electrofuels" – can promote decarbonisation if they are produced with renewable power and if carbon inputs (when required) are climate-neutral. The most important electrofuel is hydrogen as the basic molecule, followed by methane and liquid fuels. The precise role that these fuels will play in the energy system of the future is still unclear, however. The answer to this question depends in large part on cost competitiveness, infrastructure development and favorable policy frameworks. Clean, green hydrogen is becoming an important topic of political and business consideration, with the number of research, policies and projects around the world expanding rapidly.

What are the benefits and challenges of scaling up technologies? What is the potential role of electrofuels in 21st century power systems characterised by high shares of clean energy and increasingly electrified economies?







## **PROGRAMME**

10:00am	Welcome and introduction Agora Energiewende and International Energy Agency (IEA)
Part 1	
10:05am	Global perspectives for energy systems integration  Enrique Gutierrez Tavarez, Energy Analyst Electricity, IEA
10:20am	Case study: Transport sector transformation: integrating electric vehicles into Turkey's distribution grids  Deger Saygin, Director, SHURA – Turkey
10:35am	Case study: Distribution grid planning for a successful energy transition – focus on electromobility Urs Maier, Senior Associate Energy and Infrastructure, Agora Verkehrswende
10:50am	Case study: Fleet charging patterns and impacts on distribution grids Nicole Thompson, Optimise Prime Consortium Lead and Innovation Director, Hitachi Vantara
11:05am	Discussion with questions from audience
Part 2	
11:25am	Making the most of Power-to-X  Matthias Deutsch, Senior Associate, Agora Energiewende
11:40am	The role of hydrogen in clean energy transitions  José Miguel Bermúdez Menéndez, Energy Technology Analyst, IEA
11:55am	Case study: The potential role of hydrogen in Morocco (to be confirmed)  Badr Ikken, Director General, Institut de Recherche en Énergie Solaire et en Énergies Nouvelles (IRESEN)
12:10pm	Discussion with questions from audience
12:30pm	End of event







## **PARTICIPATION**

In order to register for the event, please sign up using the following registration link: <a href="https://register.gotowebinar.com/register/1897910307473501195">https://register.gotowebinar.com/register/1897910307473501195</a>

## CONTACT

Farah Mohammadzadeh, Project Manager Training Programme Energy Transiitions

Agora Energiewende

phone: +49 (0)171 811 48 02

e-mail: <u>farah.mohammadzadeh@agora-energiewende.de</u>

Enrique Gutierrez, Energy Analyst

International Energy Agency

email: Enrique.GUTIERREZTAVAREZ@iea.org

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This Power System Flexibility Campaign is organised in the framework of the Clean Energy Ministerial's 21st Century Power Partnership:





