

# SCIENCE & INNOVATION IN THE ENERGY TRANSITION

## [30<sup>TH</sup> & 31<sup>ST</sup> MARCH 2021]

The Urb-En Pact network invites you to attend their upcoming digital learning and exchange meeting, hosted by Clermont Auvergne Métropole, France.

How can science & innovation contribute to help cities to reach the net-zero objective ? How can new technologies help us to limit our energy losses ? How can social sciences shed light on our current behaviors ?

To answer to these (numerous) questions, the 5<sup>th</sup> URB-EN PACT Transnational Meeting will take place over two full days during the Clermont Innovation Week, an annual event dedicated to innovation in all its forms ! Mobility, geothermal energy, citizen projects, social acceptability and change management, energy and buildings... Will all be up for debate !

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# URB|EN PACT

Together towards net zero energy cities



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**clermont  
auvergne  
métropole**



Welcoming words from Clermont  
[10:00-10:10 CET]

[SESSION#1] Roundtable :  
Mobility, energy and connecting  
territories  
[10:10-12:15 CET]

**[10:10-10:30] An introduction to Mobility by our Elected Representatives**

*Our elected representatives will open the session by presenting the stakes and challenges for our territories around the question of mobility between city centres and their peripheral areas.*

- Clermont Auvergne Métropole: name to be confirmed (Clermont, France)
- Alto Minho: **Mr Ricardo Carvalho**, Environmental Councilor at the Viana do Castelo City Council (Alto Minho, Portugal)

**[10:30-11:20] Focus on the academic perspective**

*Ms H  l  ne Mainet will, with a cross-disciplinary approach, focus on residential strategies and choices by the joint challenges of mobility and housing.*

- **Ms H  l  ne Mainet**, Geographer, Head of URM Territoires, University of Clermont (France)



Coffee break

**[11:35-11:55] Citizens and mobility: changing the cap**

*The Urban Innovation Action project CitiCAP aims to change the attitude and behaviour of citizens towards mobility to promote the shift from private car use to sustainable mobility.*

- **Ms Anna Huttunen**, Project Manager, CitiCap (Lahti, Finland)

**[11:55-12:15] Collective Q&A session for all speakers**

- Session moderator: **Mr Patrick Oliva**, founder of OrbiMob' Clermont Auvergne (<https://orbimob.org/home-orbimob/>)

**[12:15-13:45]**



Lunch break

TUESDAY 30<sup>TH</sup>

MARCH 2021 – Afternoon

Solar fuel engineering (Clermont,  
France)

[14:00-14:30 CET]

*The presentation of research led at the Pascal Institute on future solar processes for biofuels and chemical fuel production, such as hydrogen. These chemical energy carriers will certainly play a crucial role in a future energy mix because a world relying solely on electricity cannot exist!*

- **Mr Jean-François Cornet**, Professor in chemical and thermodynamic engineering, Graduate School for Chemistry and Engineering (SIGMA), (Clermont, France)

[14:45-14:50] **An introduction to geothermal energy**

[14:50-15:15] **Volcanology in the Puy-de-Dôme region**

*Mr van Wyk de Vries will first give a general introduction on geothermal energy, focussing on volcanology. He will then give an overview of the current programmes being conducted in the Auvergne region.*

- **Mr Benjamin van Wyk de Vries**, Professor of Volcanology, Magmas and Volcanoes Laboratory, Global Physics Observatory, Clermont Auvergne University (Clermont-Ferrand, France)

[15:15-15:40] **Geothermal prospecting & potential assessment**

*Mr Giammanco will focus on Geothermal prospecting and the assessment of geothermal potential in east Sicily, including Mt. Etna volcano and the volcanic islands of Vulcano, Lipari and Pantelleria.*

- **Mr Salvatore Giammanco**, Senior Researcher, Institute of Geophysics & Volcanology - The Etna Observatory, Catania (Catania, Italy)



Coffee break

[15:55-16:20] **Wispy gold: geothermal resources in Iceland**

*Adopting a scientific perspective, Mr Etienne will give an overview on optimal conditions for geothermal energy, with a focus on Iceland.*

- **Mr Samuel Etienne**, Geomorphologist & Director of Research, Life and Earth Sciences sector, School for Advanced Practical Studies (Ecole Pratique des Hautes Etudes), PSL University (Paris, France)

[16:20-16:45] **The Geological Survey of Finland research institution**

- **Mr Teppo Arola**, Chief Expert, Geothermal energy, The Geological Survey of Finland (GTK)

[16:45-17:10] **Geothermal energy projects in the Puy-de-Dôme region, Storengy**

- **Mr Constant Maton**, Director of Geothermal Energy, Business Development & Strategy, Storengy



Coffee break

[17:30-19:30]

*COUNTDOWN is a global initiative to champion and accelerate solutions to the climate crisis, turning ideas into action. Join here: <https://tedxclermont.fr>*

[SESSION#2] Focus on  
geothermal energy

[14:45-17:10 CET]

TEDxClermont  
COUNTDOWN

*\*All times are indicated in Central European Time (CET)*

## Welcome & Introduction

[10:00-10:10 CET]

## [SESSION#3] Citizen Inclusion in Renewable energy projects

[10:10-11:10 CET]

### [10:10-10:50] Citizen-led energy projects

*Énergie Partagée is a French movement that unites, supports and finances citizen projects for the production of 100% renewable energy in France. Their vocation is to support citizens' reappropriation of energy, not only financially, but also through active participation in the discussions that make up a shared and sustainable energy transition. Bégawatts is a specific citizen project, that has reunited more than 1000 inhabitants and raised 12 million euros, to create a wind farm.*

- **Ms Adrienne Pernot Du Breuil**, Regional Animator, Energie Partagée (France)
- **Mr Edgar Wolf**, Bégawatts project member, Local Energy Community Cooperatives (ECCO) project member (France)

### [10:50-11:10] Citizen inclusion in the energy transition

*The Vilawatt project is an innovative local public-private-citizen partnership for energy governance. Their objective is to achieve a low carbon, socially just, healthier and happier community, where citizens play an active role in that change in order to secure a stable Energy Transition Process in the Viladecans city.*

- **Ms Alicia Valle / Ms Laura Pardo**, Vilawatt UIA project, (Viladecans, Spain)



Coffee break

### [11:25-12:00] Theories of change: from the individual approach to the societal approach

*The objective of this session is the understanding of social dynamics linked to the energy transition. The focus will be on the obstacles of behavioural change: individual behaviour vs societal and interactive behaviours.*

- The Social Innovation Centre of Clermont Auvergne (CISCA), (Clermont, France)

### [12:00-12:35] Empowering citizens to encourage environmentally responsible behaviour

*The URBACT Network Tropea Verde will talk about encouraging environmentally responsible behaviour among citizens. The Lead Expert will give an Overview of the network, project, topic and objectives. The Project partner will give a presentation of the concrete implementation of the project, difficulties and results so far.*

- **Mr Yvan Corbat**, Lead Expert, Tropea Verde
- **Ms Marios Asteriou**, Project Partner Coordinator, Tropea Verde (Pavlos Melas, Greece)

[12:35-13:30]



Lunch break



## [SESSION#5] Energy & Buildings [13:45-15:15 CET]

Several speakers specialized in insulating materials & urban planning will focus on 2 main topics: energy performance of buildings & the fight against urban heat islands.

**[13:45-14:05]** Ms Tasca-Guernouti will focus on urban heat islands and their impacts on urban areas and life conditions and viable mitigation solutions.

- **Ms Sihem Tasca-Guernouti**, Researcher, Building physics and Energy efficiency, Research team “Building performance in their environment”, Department of territorial transitions, CEREMA (Centre for studies and expertise on risks, the environment, mobility and planning), (Clermont, France)

**[14:05-14:25]** Mr Mathis will focus on the use of new innovative organic and sustainable resources for the development of insulating materials.

- **Mr Jean-Denis Mathis**, Researcher at the National Research Institute of Science and Technology for the Environment and Agriculture, Head of the Demether project (Puy-de-Dôme, France)

**[14:25-14:45]** Mr Ragoubi will explain the research and innovation conducted by the AMBIOS Chair in terms of biosourced insulating materials.

- **Mr Mohamed Ragoubi**, Professor and Researcher, Physical Science, Materials & Agro-industrial studies, Ecole Supérieure UniLaSalle, & Head of the Agro-resources and BioSourced Materials Normandy Industrial (AMBIOS) Chair (Rouen, France)

**[14:45-15:05]** Mr Voldoire will present an experimental project that aims to address urban heat islands and social inclusion through the reconfiguration of school playgrounds.

- **Mr Clément Voldoire**, Head of the Leisure Department, City of Clermont (Clermont, France)



Coffee break

## Presentation of the Bio-Valo platform [15:30-16:00 CET]

### Focus on biogas & methanization

BIO-VALO is an independent technical engineering firm specialized in biogas that also includes an analysis and testing platform.

Ms Ronot will briefly present the main activities of BIO-VALO in biogas. Then, a video of the company with more details will follow.

The session will finally end with a time dedicated to questions.

- **Ms Garance Ronot**, Project Engineer, Bio-Valo (Clermont, France)
- **Mr Pierre Fontanille**, CEO of Bio-Valo, Senior Lecturer, Clermont Auvergne University (Clermont, France)

## Conclusions & closure [16:00-16:30]