

Scientific conference

Communautés énergétiques, autoproduction, autoconsommation : cadrages, pratiques et outils

Energy communities for collective self-consumption: frameworks, practices and tools

June / July / September, 2020 - Online

[Registration](#) [Inscription](#)

MONDAY JUNE 15

10:30 – 12:00 >> Opening session

Welcome : François MENARD / PUCA, Gilles DEBIZET, Frederic WURTZ / Université Grenoble Alpes

Design of national policies and European directive relative to energy communities,

Bruno Bessis (DHUP), Vincent Delporte (DGEC- conditionnaly) / Ecology Transition Ministry, Andreas Rüdinger / IDDRI (conditionnaly)

14:00 – 15:45 >> Session 1:

How regulations are shaping energy communities

Comment les régulations formatent les communautés énergétiques

Energy communities are developing in Europe and are at the heart of the recent EU directives on renewable energy and the internal market. Nevertheless, the diversity of their legal, organizational and even technical forms calls into question their integration into the current electricity regime. The objective of this session will be to question the forms of organization of these communities and their interaction with the sector's regulation. What are the political, legal and economic developments surrounding this emergence in the context of the energy transition?

Chairman: Thomas REVERDY, Grenoble-INP.

Discussing speaker: Beatrice COINTE, CNRS-Mines Paris Tech.

- **The power of energy communities — shifting towards a just and/or sustainable energy system**
Natascha VAN BOMMEL / Eindhoven University of Technology
- **Communautés ou communautarisme ? Mise en perspective des controverses liées à la mise en place de l'autoconsommation collective en France**
Thibaut FONTENEAU / Université Grenoble Alpes
- **Refaire de l'énergie : les épreuves de nouveaux entrants « citoyens » dans la production d'électricité**
Arnaud ASSIE / Université Paris Est

TUESDAY JUNE 16

10:00 – 12:00 >> Session 2:

How do production/supply/sharing energy communities emerge and develop?

Comment émergent et se développent les communautés énergétiques de production, fourniture ou partage d'électricité ?

Energy communities for the production and supply of electricity emerge in Europa and elsewhere. Beyond the motivations of the members involved in the creation and deployment of communities, the realization of production projects or supply services follows various processes. If they depend on national/local regulations, on the members and supporting organizations and on internal governance, when and how do these factors intervene in the process? Are processes different according to the spatial scale and to the purpose (production, supply or sharing) of the community?

Chairman: Gilles DEBIZET, Université Grenoble Alpes

Discussing speaker: Grégoire WALLENBORN, Université Libre de Bruxelles

- **Joint procurement: How does collective action work for investing in renewable energy at community level?**
Gabriella DOCI / KTH/Royal Institute of Technology
- **Étude socioéconomique des coopératives d'énergie renouvelable Enercoop comme « laboratoire social » : coordination et formes de prise de décision en question**
Rémi MAITRE / Université Toulouse Jean-Jaurès
- **Analyse des processus collectifs et démocratiques mis en œuvre au sein des sociétés citoyennes de production d'énergie renouvelable**
Armelle GOMEZ / Bordeaux Sciences Agro, Aude POTTIER, Benjamin TYL / APESA
- **Building energy commons: Three mini-PV installation cases in apartment complexes in Seoul**
Hana KIM / Sejong University, Weiming CHEN / University of Delaware, Schoon YANG

14:00 – 16:00 >> Session 3:

Which skills and tools to support energy communities?

Quelles compétences et quels outils pour accompagner les communautés énergétiques ?

The development of projects sharing *in situ* renewable energy is carried out in a variety of configurations and for a variety of stakeholders. It is no longer just a question of defining an optimal technical solution from an economic point of view, but of reconciling the expectations of several stakeholders and environmental issues. This session presents required skills and new decision-support tools for energy community projects.

Chairman: Frédéric WURTZ, Université Grenoble Alpes

Discussing speaker: Julien POUGET, HES-SO Valais-Wallis

- **Qualitative study of skills needs for community energy projects**
Yael ZEKARIA, Ruzanna CHITCHYAN / University of Bristol
- **Analyse qualitative pour la modélisation de contraintes et d'objectifs des parties prenantes d'un projet énergétique local**
Lou MORRIET, Gilles DEBIZET, Frédéric WURTZ / Université Grenoble Alpes
- **Analyse technico-économique multi-acteurs de la conception optimale d'un système de valorisation de chaleur fatale sur réseau de chaleur**
Jaume FITO, Julien RAMOUSSE / Université Savoie Mont Blanc, Sacha HODENCQ, Lou MORRIET, Frédéric WURTZ, Gilles DEBIZET / Université Grenoble Alpes
- **Accurate tool to help estimate the economic profitability of a PV installation, used in the Group-it project**
Alan LAURAUX / HES-SO Valais-Wallis

TUESDAY JUNE 23

10:00 – 12:00 >> Session 4:

Opportunities and impacts of digital technologies for energy communities

Opportunités et impacts du numérique pour les communautés énergétiques

Energy communities can rely on digital technologies for their development and operation, particularly with the development of peer-to-peer exchange platforms or blockchains. This session presents several digital solutions and questions their interests and impacts for energy communities and beyond.

Chairman: Lou Morriet / Université Grenoble Alpes

Discussing speaker: Michael Fell / University College London

- **Emerging digital business models for renewable self-consumers: Enablers for citizen participation in the energy transition? “ Perspectives from Germany “**
Christine DEDE, Monika HEYDER, PIA LABORGNE, Pauline RAUX-DEFOSSEZ, Andreas HUBER / European Institute for Energy Research
- **Peer-to-Peer Energy Platforms: Incentives for Prosuming**
Jean-Christophe POUDOU, Thomas CORTADE / Université de Montpellier
- **Energy transition for the market or from within society?**
Hugo SCHÖNBECK / Energycoin Foundation, Tarek ALSKAIF, Wilfried VAN SARK / Copernicus Institute for Sustainable Development, Hugo NIESING, Avi GANESAN / Resourcefully, Anne-Marie PRONK, Brian MULDER / Energycoin Foundation
- **Development of Blockchain solutions to optimize collective self-consumption based on photovoltaic production : feedback**
Daniel MUGNIER / TECSOL SA

TUESDAY JUNE 30

10:00 – 11:45 >> Session 5:

How do community energy design and urban processes fit together?

Comment la conception énergétique et les processus urbains s'articulent-ils ?

Local (indeed self-) production and consumption questions relations between energy system, milieu, architecture and social relationship. Design of local energy systems are embedded with urban planning and city governance. What are the interactions between energy system design and urban production process? Between community energy sharing and city governance? Do energy sharing modalities differs according to the project leading actor?

Chairman: Silvère TRIBOUT / Université Grenoble Alpes

Discussing speaker: Sylvie LAROCHE / Université Grenoble Alpes ENS Architecture

- **Communautés énergétiques et "fabrique urbaine ordinaire". Analyses croisées Allemagne, France, Royaume-Uni**
Flora AUBERT / Université Gustave Eiffel
- **Place-based energy communities sharing solar electricity: configurations and processes of emergence in France and Switzerland**
Gilles DEBIZET, Inès RAMIREZ-COBO, Silvère TRIBOUT, Thibaut FONTENEAU, Lou MORRIET, Marta PAPPALARDO / Université Grenoble Alpes
- **La fabrique de la ville à l'heure des injonctions énergétiques : urbanisme, autoconsommation collective et prise de décisions négociées**
Inès RAMIREZ-COBO, Silvère TRIBOUT, Gilles DEBIZET / Université Grenoble Alpes

TUESDAY JULY 07

15:00 – 16:45 >> Session 6:

Do community energy projects reshape practices of inhabitants, professionals or local authorities?

Les projets énergétiques communautaires reconfigurent-ils les pratiques des habitants, des professionnels ou des autorités locales ?

Local (indeed self-) production and consumption questions relations between energy system, milieu, architecture and social relationship during the design stage as well as the operating periode. This session explores the impacts of community initiatives integrating an energy dimension on socio-spatial practices at different scales: housing, condominium, district and cities. Mobilizing the notion of “Common”, it therefore questions relations between *in situ* resources, their uses and community/local governance.

Chairman: Inès RAMIREZ-COBO / Université Grenoble Alpes

Discussing speaker: Olivier LABUSSIÈRE / Université Grenoble Alpes

- **Implementing Energy-as a Common approach in the revitalization of shrinking cities**
Simone DI PIETRO / RE-CITY International Training Network
- **Engouement autour de la géothermie communautaire au Québec**
Myriam PROULX, Sophie VAN NESTE / INRS
- **Communautés énergétiques et communs : repenser l'action collective par les espaces habités**
Marta PAPPALARDO / Université Grenoble Alpes

TUESDAY SEPTEMBER 08

10:00 – 11:40 >> Session 7:

From tool development/spreading to living projects

Développement et expérimentations d'outils

Innovative tools regarding energy communities are initiated/implemented in real fields/life involving different stakeholders. Supporting organizer, consulting developer and academic testimony on practical experimentation of tools for energy communities.

Chairman: Frédéric WURTZ / Université Grenoble Alpes

Discussing speaker: Stéphane GENOUD / HES-SO Valais-Wallis

- **Coordination et valorisation des outils développés en Wallonie à destination des Communautés d'énergie Renouvelable (CER)**
Renaud DACHOUFFE / Cluster TWEED
- **Explorations on motivating microgrid-users to optimize self-sufficiency**
Fouad EL GOHARY / Uppsala Universitet, Sofie NYSTROM / Research Institutes of Sweden, Lizette REITSMA / Malmö University, Cajsa BARTUSCH / Uppsala Universitet
- **GROUP-IT: l'appel d'offres groupé, premier pas vers le RCP (Regroupement Consommation Propre) ?**
Lucien PAPILLOU, Stéphane GENOUD, Jean-Marie LAURENT / HES-SO Valais-Wallis

TUESDAY SEPTEMBER 15

10:00 – 11:40 >> Session 8:

Consumers' role in the design and management of energy systems: from the individual to the collective

Le rôle des consommateurs dans la conception et la gestion de dispositifs énergétiques : de l'individuel au collectif

What are the links between energy technologies or devices and users' consumption behaviors? In this session, the consumer takes a central place: through the analysis of his behaviors and consumption

logics, it questions the way in which experts can design efficient energy devices and configurations. Thus, energy is not analyzed as an object, but as a relationship between individuals and devices.

Chairman: Marta PAPPALARDO / Université Grenoble Alpes

Discussing speaker: Benoît DELINCHANT / Université Grenoble Alpes

- **Consumer preferences for hydrogen energy storage: A choice experiment**
Penelope BUCKLEY, Marie-France AGNOLETTI, Olivier DAMETTE, Antoine MARTIN / Université de Lorraine
- **L'activité et l'expérience des habitants comme point de départ pour la conception de dispositifs énergétiques collectifs**
Antoine MARTIN, Marie-France AGNOLETTI and Eric BRANGIER / Université de Lorraine
- **Short-term residential district load forecasting: impacts of district size and history length**
Mickael TITS, Benjamin BERNAUD, Amel ACHOUR, Badri MAHER, Lotfi GUEDRIA / Université de Mons

AFTER SEPTEMBER 2020

Additional sessions will be organized to draw lessons from this cycle with institutional actors of energies and territories and to share international research questions with scientists interested in local energy communities.

The recordings of the webinars will be uploaded on a dedicated forum website that enable further discussions with the speakers and among the listeners.

[Registration / Inscription](#) [Updated schedule / Programme mis à jour](#)

Organizing Committee: Gilles Debizet (co-chairman) et Thibaut Fonteneau, Lou Morriet, Marta Pappalardo, Ines Ramirez-Cobo, Silvère Tribout, Nelly Vallance, Frédéric Wurtz (co-chairman), Université Grenoble Alpes, François Ménard / PUCA,

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