Keynotes

Patrick Devine-Wright

That energy transitions are both social and technical in nature is now commonly recognised by academics and policy makers. Yet despite recent advances in the study of social acceptance, energy justice and energy democracy, there remain substantial limitations in the ways that energy transitions are commonly theorized when it comes to matters of space and place. Furthermore, prevalent assumptions such as NIMBYism (Not in my back yard) provide negatively oriented, unhelpful and inaccurate framings of socio-spatial and socio-technical dimensions of change. This presentation aims to elaborate positive principles for energy transitions and social innovation centered on Place and Participation. Importantly, these principles are viewed relationally amidst wider precarities and insecurities arising from globalization, populism, COVID-19, Brexit and Climate Emergency. Drawing on empirical examples of social and democratic innovation across a range of research projects ([ASSIST](#), [EnergyRev](#), [SHIFFT](#) and the [Devon Climate Assembly](#)), I will provide critical arguments for why Emplacement and Empowerment provide foundations of hope for rapid and extensive energy transitions that are also considered fair and acceptable by local communities and societies more generally.

Ajah Mathur

Dr Ajay Mathur is the Director General of the International Solar Alliance. He earlier headed The Energy and Resources Institute (TERI), and the Indian Bureau of Energy Efficiency (BEE), and was responsible for mainstreaming energy efficiency in houses, offices and industries through a number of innovative initiatives. He was a leading climate change negotiator, and was the Indian spokesperson at the Paris climate negotiations. He served as the interim Director of the Green Climate Fund during its foundational period.

At TERI, he has spearheaded the move to accelerate action towards a low-carbon and cleaner economy through the adoption of renewable energy in the Indian electricity sector, enhancing efficiency in buildings and industry, and promoting environmental quality through recycling of material wastes and biotechnology-based solutions. He also anchored the annual World Sustainable Development Summits during his tenure at TERI.

He was also a member of the Indian Prime Minister's Council on Climate Change and co-chairs of the global Energy Transitions Commission.

Julia Wittmayer

Julia Wittmayer will address the transformative potential of social innovation in energy systems. She will provide a systematic overview of the different types of social innovations in energy, zoom in on their emergence and development over the last decade and discuss the (potential) changes in social relations and dominant institutional logics in energy systems.

Harish Hande

Harish Hande is a pioneer of rural energy services across the globe. He is the co-founder of SELCO Solar Light Pvt Ltd and is presently the CEO of SELCO Foundation. Harish has received many national and international awards including the Skoll Award for Social Entrepreneurship (2018) and Asia's prestigious Ramon Magsaysay Award (2011) for "his pragmatic efforts to put solar power technology in the hands of the poor, through his social enterprise SELCO India".

Panel sessions

Artificial Intelligence and the use of digital platforms for sustainable transitions

Jake Barnes
Smart Local Energy Systems: opening up spaces for innovative governance?
In this presentation Smart Local Energy System (SLES) - a concept that is being developed as a way of implementing a transition to renewables-based energy systems - is examined as a social innovation. We explore how SLES call for new actors, artefacts, roles and relationships and interrogate what this means for policy, research and action.

Christina Francis
Ranking the Key Performance Indicators of Smart Local Energy Systems
The presentation will share findings of ongoing research conducted by the EnergyREV consortium to develop whole-systems understanding via a multi-criteria assessment (MCA) of smart local energy systems (SLES). The presentation will illustrate the methodology and results from using discrete choice experiment online survey facilitated through 1000 minds software to understand the relative importance and ranking of the key performance indicators (KPIs) (grouped into six key themes: technical performance, data management, governance, people & living, business & economics, and environment) among different stakeholders.

Uchechukwu Ogechukwu
Enhancing energy transition using Thrift and credit technologies
Seeing that the majority of those who live in developing countries are poor and the cost of adoption of clean energy technologies are high, what approach should we employ to drive penetration. We are proposing a thrift and credit model which creates pools of funds, credit systems and equipment for people in developing countries allowing them to drive inclusion and earn as they participate in clean energy penetration.

Community energy - 1

Antonieta Alcorta De Bronstein, Ernst Schäfer, Maren Wesselow
Social Innovations for energy transition through participation: experiences from ENaQ
The ENaQ project is looking into technological and social possibilities to reduce the carbon dioxide footprint at a neighborhood level with a participatory approach. We will introduce the participatory approach and activities which have so far taken place in ENaQ and show how participation can be a driver of energy-related social innovations.

Nicole de Koning
The power of energy communities
Energy communities are becoming an important stakeholder in the energy transition. We will present what the journey of energy communities look like, the steps they take and which barriers and success factors they experience along their way.

Monika Heyder
Sustaining Bioenergy Villages - learnings from Baden-Würrtemberg, Germany
The presentation draws on first results from work conducted on bioenergy villages in the federal state of Baden-Württemberg, Germany in 2021. Using qualitative interviews and desktop research we investigated how bioenergy villages, as a representation of energy communities, will sustain in a changing context.

Margot Hurlbert
Deliberating Future Community Energy Futures Addressing Climate Change
This presentation provides a method and the results of community informed power production strategies for addressing climate change. Geography and resource dependence of communities is an important determinant.

Perceived fairness in the energy

Nicole Huijts
Ethical concerns and emotions about an unequal distribution of negative outcomes of an ultra-deep geothermal energy project
No abstract

Michèlle Bal
Measuring individual-level perceptions of fairness in the energy transition
We investigated how fairness perceptions are currently studied within the field of energy research and most studies within the field of energy research focus on either distributive or procedural aspects in the acceptance of new energy projects. We subsequently looked at adjacent fields (i.e., social and environmental justice research, interdependent decision experiments and philosophy) to map potential extensions of current measurements.

John de Wit
Including Social Housing Residents in the Energy Transition
This pilot study, which was held during an real-life sustainable renovation project, explored social housing residents' attitudes toward sustainability and sustainable renovation of their apartment building using semi-structured interviews. Our findings stress the importance of engagement, communication, and co-creation and provide insight into barriers and facilitators for social housing residents specifically, who are at risk of lagging behind in the sustainable urban energy transition.

Social Innovation for a Circular Economy - 1

Jaco Quist
Social Innovation and Societal Transformation for a Circular Economy
In the discussions on progressing to a Circular Economy social innovation is often related to non-technical aspects of circular innovation, changes needed to organize firms their practices in a circular way, or the skills and capabilities by company employees enabling the implementation of circular practices supporting closing, extending and reducing material flows. However, this paper argues that social innovation includes actions and initiatives taken by citizens, civic society and their organisations
with the aim to contribute to solving societal challenges and problems.

Wouter Spekkink
Trans-local networks for a Circular Economy illustrated for Repair Cafes and Precious Plastics
Wouter's presentation is about Repair Cafés and Precious Plastic as two examples of translocal networks that potentially contribute to social innovations towards a Circular Economy. Wouter will highlight how these innovations can enrich debates on transitions to a Circular Economy, which are currently dominated by market and technology-driven visions on Circular Economy.

Dimitra Kanidou
Towards Strong Sustainable Consumption in Greece: Transformative Social Innovation of Social and Solidarity Economy Cooperatives
The research adopts the concept of strong Sustainable Consumption, building on sufficiency and degrowth, investigating how Greek society can be transformed by the growth of Social and Solidarity Economy (SSE) cooperatives and more sustainable lifestyles. By developing a framework based on transformative social innovation, the results of a multiple case study methodology shed light on the ways that cooperatives develop new social relations and new ways to frame, organise, do and know SSE.

Jaco Quist
Envisioning sustainability transitions in social innovation initiatives; a cross-case comparison of five Dutch ecovillages
Ecovillages can be seen as social innovation initiatives, implementing a new paradigm of sustainability, community and empowerment. By having a holistic approach to creating a sustainable society, ecovillages can demonstrate the challenges that society faces when aspiring to accomplish similar decrease in environmental impact.

Social innovations for sustainable housing and renovation

Rachel Hale
Active Homes as Social Innovation? Energy, Expertise and Sustainable Housing
The 'Living Well in Low Carbon Homes' study explores stakeholders' roles in developing Active Homes and residents' experiences of living in them, across five UK case sites of Active Home developments. In this paper, we draw on stakeholder interview data that illuminates how Active Homes are contributing to social innovation in terms of innovative social relations between residents and stakeholders.

Melanie Klösters
Workbook for housing corporations to enhance sustainability together with residents
In the H2020 project POCITYF we developed a practical workbook that helps housing corporations sustainably renovating houses. In this presentation we tell more about the step-by-step plan for involving residents and the experiences from practice that led to the design of the workbook.

Renee Kooger
How do home-owners perceive financing measures for sustainable home renovations?
How do individual home-owners perceive different financing measures for making homes sustainable? – and what are important criteria for considering certain financing measures? The insights from our research have been used to develop (policy advise on) existing financing measures for sustainable homes.

Sabine Pelka
How to organize the participation of consumers in the energy system? Design options for consumer governance
The active participation of household consumers in the energy system is hampered by their bounded rationality, while their heterogeneity poses a challenge to attempts to facilitate their involvement. Based on design theory and transaction cost economics, we review relevant literature to capture how such facilitating arrangements are designed.

The role of psychology for sustainable transitions

Bart de Bruin
Value systems and emerging responsibilities in citizen-led energy systems
This research uses agent-based modelling to study the role of responsibility in the emergence of decentralized energy systems. By using an illustrative modelling approach, we aim to shed light on how new values inform people's decisions and how this relates to the emergence of responsible attitudes in decentralized energy systems.

Judith Maschke
Use of renewable energies and rebound-effects in electricity consumption
The presentation is based on an empirical study that dealt with the question of how the own generation or the use of renewable energies affects the electricity consumption of private households. The main focus was on identifying possible rebound-effects.

Anna Melnyk
Elucidating Value Dynamics in Energy Democracy: the case of Community Energy Initiatives
No abstract

Emma Ter Mors
Key factors affecting community acceptance of energy and infrastructure projects
In this talk, I will present experimental research showing that societal responses to infrastructure and energy projects to an important extent depend on socio-psychological factors such as trust in project developers and decision makers, and perceived procedural fairness of decision-making procedures.

Energy Transitions in the Global South: Governance and Social Innovation - 1

Beryl Onjala
Electric cooking in Rwanda: an actor-network map and analysis of a nascent socio-technical innovation system
This presentation highlights the actors and technologies that make up the electric cooking system in Rwanda and further gives recommendations for current and upcoming programmes that aim to improve the uptake of Modern Energy Cooking Services in the country.

Nhi Truong
How Does Socio-Technical Lock-in Influence Urban Consumption? Case study of car dependence in Bangkok City
The socio-technical lock-in framework in urban consumption is introduced as the contribution in consumption study, especially in unsustainable consumption. The practical application sketches on how the socio-technical factors intertwine to create the lock-in situation of car dependence in Bangkok city.

Norzalina Zainudin
Modeling solar energy choice among households in urban Malaysia
Exploring solar energy choice in urban Malaysia. Is there a need for social innovation?

Community Energy - 2

Dimitra Kanidou
Towards Strong Sustainable Consumption in Greece: Transformative Social Innovation of Social and Solidarity Economy Cooperatives
The research adopts the concept of strong Sustainable Consumption, building on sufficiency and degrowth, investigating how Greek society can be transformed by the growth of Social and Solidarity Economy (SSE) cooperatives and more sustainable lifestyles. By developing a framework based on transformative social innovation, the results of a multiple case study methodology shed light on the ways that cooperatives develop new social relations and new ways to frame, organise, do and know SSE.

Antonia Krebs
On European Energy Communities: Opportunities & Obstacles for mainstreaming Civic Energy
Whether opportunities for civic energy to boost the renewable energy transition throughout Europe are capitalized on, depends on the successful development and implementation of enabling frameworks in the EU member states. This presentation will analyse the opportunities for and obstacles to a successful European civic energy uptake.

Joohee Lee
Everyday Food-Climate-Energy Justice: The Case of Cooperative "Hansalim"
Cooperatives are one of the unconventional innovators that create channels for citizens to practice everyday climate action. Using the case of a South Korean cooperative "Hansalim,"

I shed light on the unique role of food cooperatives in enhancing climate awareness and action among customers by promoting healthy food, fair trade, and grassroots movements.

Cristian Pons-Seres De Brauwer
Exploring the 'community-as-investor' acceptance of renewables' innovation
This presentation first conceptualizes 'community renewable energy' (CRE) as a socio-technical innovation for sustainability. Based on this conceptualization, it then showcases the results of a survey-based choice experiment investigating the relative influence that national socio-economic trends, energy cultures, and demographic factors have in shaping the participation of citizens as co-investors of CRE developments across all Baltic Sea Region countries.

Energy justice and energy democracy - 1

Manon Burbidge
Setting the Scene for Tackling Energy Injustice in the European Private Rented Sector - Findings from the ENPOR Project
The growing European private rented sector (PRS) faces many energy-related issues, particularly in its low-income segment, which are currently poorly understood. We present the results of a literature review, assessment of the current EU policy landscape, and investigation of barriers that prevent, and solutions that facilitate, the implementation of energy efficiency measures in this housing sector, conducted under the Horizon 2020 project, ENPOR.

Lotte Krabbenborg & Kyra Ruiten
Biodigesters & Controversy
Despite its potential as a site of renewable energy production, biodigesters are often faced with strong local resistance. Our research concerns the contested decision-making process of two large-scale biodigisters in the East of the Netherlands and shows the force field around the decision-making process on biodigesters, and how citizens operate in this field.

Vera Ferreira
Mapping manifestations of energy democracy in the Portuguese energy transition
This presentation shares exploratory research aimed at mapping potential manifestations of energy democracy in Portugal, focusing on initiatives envisaging the design and implementation of renewable energy communities.

Diego Hernando Florez Ayala
Urban Living Labs: Sustainability Transitions towards Circular Cities
According to the WHO, around 3 billion people still cook using solid fuels (such as wood, crop wastes, charcoal, coal, and dung) and kerosene in open fires and inefficient stoves. Sustainability transitions are necessary to promote changes in communities localized poor regions to become more sustainable and healthier.

Social Innovation for a Circular Economy - 2

Diego Hernando Florez Ayala
URBAN LIVING LABS: SUSTAINABILITY TRANSITIONS TOWARDS CIRCULAR CITIES
Urban Living Labs (ULL) can be configured as potential sustainability transitions (ST) for the innovation of circular cities. Based on this statement, our research question is, how do Urban living labs work through sustainability transitions to build sustainable cities systems based on the circular economy perspective?

Emanuele Bianco
Re-organising the power system for the transition
The presentation "Re-organising the power system for the transition" will show how the prevalent power systems were designed mainly for conventional, centralised power generation. These systems require fundamental changes to accommodate the decarbonisation, DERs, VRE, etc.

Katharina Bullinger
Contribution of Social Innovation to Transitioning Built Environment Towards Circularity – preliminary findings of a bibliometric analysis
The contribution presents a PhD project aiming at answering the question as to how social innovations can contribute to transitioning the built environment system towards circular practices and circularity, and its first findings. The findings result from a bibliometric analysis that aims to relate the built environment, circular economy and social innovation.

Mikko Jalas
Prime-time Access for whom? Consumption Rhythms of Infrastructure Services
No abstract

Perspectives on Energy Citizenship - 1

Andrea Kollmann
DIALOGUES - Inclusive DIALOGUES towards an operational concept of energy citizenship to support the Energy Union
This presentation is about the Horizon 2020 project DIALOGUES, which aims at supporting the Energy Union with operational research on energy citizenship to enable citizens to take a central role in the energy transition. A project overview and first insights into finding definitions or energy citizenship will be the core topics.

Elisabeth Unterfrauner & Karen Hamann
EC2 – Energy Citizenship and Energy Communities for a Clean-Energy Transition
What are the social, economic and legal conditions that will enable a shift in our energy model: from a centralised energy regime to a decentralised one, from a society of passive energy consumers to one of empowered, engaged energy citizens? These questions are at the core of the project EC2. We will share our interdisciplinary understanding of energy citizenship and present the overall objectives of the project.

BinBin Pearce
ENCLUDE: Energy Citizens for Inclusive Decarbonization
The vision of the Horizon 2020 project Energy Citizens for Inclusive Decarbonization (ENCLUDE) is to help the EU to fulfill its promise of a just and inclusive decarbonization pathway through sharing and co-creating new knowledge and practices that maximize the number and diversity of citizens who are willing and able to contribute to the energy transition. This transdisciplinary project will create a typology of the energy citizenship concept for diverse communities of citizens by investigating on-the-ground case studies of existing decarbonization activities.

Carlos Montalvo
Energy citizenship emergence structure and dynamics
The presentation offers a framework to understand what is energy citizenship, how it emerges and at what level of aggregation it might emerge (local, national, supranational).

Bonno Pel
EnergyPROSPECTS: Conceptualizing 'energy citizenship'
The presentation presents an interdisciplinary conceptualization of energy citizenship as developed in the EU H2020 project EnergyPROSPECTS.

Public policy and social innovation

Laura Kaschny
Revisiting EU Energy Objectives through the Lens of Energy Justice
Despite being considered the primary driver for energy law in the 21st century, the notion of 'energy justice' remains undefined in EU legislation nor does academic literature define it from a legal perspective. This presentation aims to address this gap by revisiting the EU's energy objectives of Article 194(1) TFEU offering insights into the question whether an EU energy justice framework can be derived from relevant EU primary law and to which extent regulatory shortcomings exist in this regard.

Helen Poulter
Embedding social value in regulation: A case study of the Customer Value Proposition in the GB gas distribution sector
The presentation introduces our research into the changing role of regulation as energy systems begin to decarbonise and environmental and social, as well as economic criteria, become an important consideration in infrastructure investments. Using a case study of the GB gas distribution network price control, we consider and discuss the challenges of incorporating a qualitative-based assessment into an 'econocratic' environment.

Inese Zepa
Policy mixes across vertical scales of governance in the EU
Consistent policy mixes, driven by coherent policy processes across all levels of governance are required to ensure accelerated sustainability transitions in the EU. The paper explores this question in the context of the energy transition in Latvia, that necessitates changes in infrastructure, market structure, regulation, and also preferences.

Melanie Klösters
What is the societal support for (possible) Dutch climate policy measures?
Early 2021 we investigated the societal support of Dutch citizens for ten policy measures aimed at countering climate change. In this presentation we tell more about the aspects that make up societal support for climate policy (e.g. fairness, effectiveness and personal relevance) and what implications that has for climate policy.

Energy Transitions in the Global South: Governance and Social Innovation - 2

Wenting Cheng
Green Finance and China's energy transition
This presentation discusses how Chinese green finance has facilitated its green transition through two specific mechanisms, green credits and green bonds. The focus will be on green bonds, in particular the 2021 Green Bond Catalogue which eliminated investment towards fossil fuels.

Thang Do
Vietnam's solar power boom: Policy implications for ASEAN
The presentation will discuss lessons learned from Vietnam's solar and wind power development.

Angginta Ramdani Ibrahim
Social Innovation Factors Influencing Renewable Energy Implementation in Rural Indonesia
The identification of factors that influence social innovation implementation is necessary in order to be able to overcome barriers. This study focused on factors influencing renewable energy technology implementation in rural Indonesia, covering individual organization, civil society, and state elements.

Anita Trisiah
We're Not There Yet: Indonesian Local People Perceptions towards Geothermal Energy
Public perceptions of geothermal energy impact the speed of energy transition in Indonesia - a country that hosts 40% of geothermal energy resources in the world - and are largely shaped by how the media portray these technologies. In this presentation, I report on how two large national newspapers in Indonesia frame geothermal energy in their articles and reveal a focus on the positive impact of the technology on energy security and the economy often vocalized by the national government while less attention goes to the possible negative effects on the local and social levels.

The Next Steps

Alejandra Cortes
Recognising Local Energy Culture for a Just Energy Transition in Chile
This presentation will discuss the background and research context in which energy poverty is rooted in Chile and highlights the need to address the cultural dimension of energy use for a just energy transition.

Margot Pellegrino
Inter-actor collaboration in energy renovation: understanding contemporary innovations
The presentation discusses some results coming from two research projects exploring the logics and dynamics of innovative energy renovation programs attempting to remove barriers and identify new solutions. The analysis of recent projects in France and in Europe reveals a number of innovations, in particular as regards the (re) configuration of coalitions and systems of actors concerned with energy renovation and their forms of interaction.

Victoria Taranu
Stakeholder engagement for advancing energy and antiseismic renovation of buildings
The Horizon 2020 Project e-SAFE aims to contribute to increasing deep renovation of the building stock by developing an innovative, market-ready system that combines energy and anti-seismic renovation. The e-SAFE stakeholder engagement process is multi-layered and takes place at three levels: building, urban, and the European scale and aims to adjust solutions to overcome technical, policy, financial, social, and cultural barriers.

Paola Velasco Herrejón
Citizen energy community formation in the EU: key drivers, barriers and potential pathways
This presentation will examine the governance and socio-political contexts that condition and structure current pathways for participation in Europe's Energy Transition.

Agata Stasik
Renewable Energy Communities in the coal regions in transition.
What is the possible role of emerging energy communities in regions struggling with the transition from fossil fuels? Basing on the analysis of actions of the selected energy cluster in Poland, the paper offers deepened understanding of the nature of the agency exercised by the emerging renewable energy communities within the centralized, coal-based energy system, especially those located in the coal regions which are currently struggling with the energy transition.

Lorenzo De Vidovich, Luca Tricarico & Matteo Zulianello
Mapping Energy Communities in Italy: what've learned so far
The research aims to systematize knowledge about the community energy sector in Italy, towards the identification of regulatory evolution and issues, relevant stakeholders involved (public administrations, non-profit organizations, private actors) and organizational models based upon community-based approaches. Thanks to a set of qualitative research activities conducted on several examples and case studies, this contribution will focus on three main dimensions: (1) the governance and business development models developed by experimental initiatives, with a focus on the territorial scope of the case studies considered, (2) the technological development and the set of competences that can be considered as necessary, and (3) the strategies put in place during the development phases, focusing on how the keep the ""balance"" between the investors' remuneration and the realization of collective benefits and outcomes for the local communities.

Lidewij Tummers
Joined action is the key: energy-transition at home
The May 2019 EU 'Clean energy for all Europeans package' aims to strengthen the involvement of (household) consumers in renewable energy deployment. We argue that collective action is key for enhancing the role of citizens in the energy transition, not only through Renewable Energy Coops (Rescoops) but also in creating low-impact housing. Our analyses found that expected benefits from citizens acting jointly for low-impact housing effectuate themselves, and important lessons can be drawn.

Tineke van der Schoor
Grid governance; what new roles for the community energy movement?
In my presentation I will give the first results of a research project to investigate new and innovative energy services that energy cooperatives can take up, such as demand response, cooperative aggregator, balance services or peer-to-peer energy delivery. To develop and manage these new functions takes a heavy toll in the form of knowledge acquisition, negotiation skills, organisation strength, and finally the capacity to take financial risks. The community energy movement therefore needs appropriate organisation and business models to be able to take up these challenges.

Energy justice and energy democracy - 2

Bart Haagsma
Governance of socio-spatial energy justice: Dutch regional energy strategies
The shift from centralized fossil energy production to more decentralized renewable energy production has major societal and spatial consequences. Through the lens of social and spatial energy justice, I analyze the case of the Netherlands, specifically the province of Overijssel, which adopted a regional approach to managing this shift and its societal consequences.

Diana Teodora Paraschiv
What is energy poverty and why act against it?
Energy poverty is a pan-European problem that not only has important economic and political impacts, but also is harmful to the physical and mental well-being of citizens. This presentation aims to analyze up-to-date literature about energy poverty in order to identify its causes, definition, measurement, policies, and organisms in charge of reducing it.

Yutong Si
Energy justice through solar: constructing and engaging low-income households
Minimal research has assessed the policy process of developing solar programs at the state level in the US, and no research yet has investigated how these policies characterize and engage with the target populations they are designed to benefit. Grounded in Schneider and Ingram's social construction framework (SCF) and applying computational methods (i.e., text analysis and machine learning), this research examines how low-income households are socially constructed in policy provisions, how their social construction has been reinforced through public participation, and how to classify low-income households among target populations.

Igor T. Moreno Pessoa & Chelsea Kaandorp
Energy justice and the heat transition in Amsterdam
To mitigate climate change, the city of Amsterdam targets to stop the city's use of natural gas for space heating by 2040. In this session we will focus on the notion of energy justice based on the preliminary results from several in-depth semi-structured interviews with urban professionals and urban dwellers.

Policies and institutions for social innovations in reneweable energy transitions - 1

Diana Süßer & Franziska Mey
The role of policies and institutions in empowering citizens in the renewable energy transition
We will analyse if and how the policy preferences and aims for centralisation and decentralisation have changed. The central research question is: Do EU strategies and policies support a centralised or a decentralised European energy system design? And can we observe changes over the last 20 years?

Boris Gotchev
Contested Energy Transition Pathways and the Politics of Community Energy in Europe
The paper offers an insight into the dynamics and power struggles in the policymaking process for social innovations in EU renewable energy transitions.

Karoline Rogge
Transformative policy mixes promoting social innovation? Lessons learned from case studies of social innovation in energy transitions
The presentation provides a critical comparative assessment of whether and how policy mixes promote social innovation for sustainable energy transitions, with a focus on the fields of participatory incubation and experimentation and framings against fossil fuels.

Malte Zieher
A policy proposal to enable Energy Sharing in Germany
In Germany, citizens have been driving social innovations in the energy sector for decades, with the emergence of citizen wind farms, Photovoltaic cooperatives and prosumer models. The talk will provide a mass-ready and innovative proposal on how to regulate the joint production and use of renewable energy in Renewable Energy Communities in the German electricity regulation to bring a new push for the citizen-led energy transition in Germany.

Social innovation for sustainable housing renovation in districts

Erwin Mlecnik
Local authorities activating homeowners to adopt low-carbon technologies
Results are demonstrated from the Interreg 2 Seas-project Triple-A which gave seven local authorities in four countries the opportunity to experiment with novel approaches to bring awareness and easy access of low-carbon technologies to citizens in specific districts. A homeowner renovation model developed by TU Delft helped authorities to find their own solutions that fit the local context.

Oubbol Oung
How Rotterdam facilitates social innovation for home renovation
In the search on how to increase the uptake of the energy transition and by doing so accelerating it, Rotterdam facilitated various initiatives. The reasons why, expectations and results aiming at developing a strategy for the whole city will be presented.

Thaleia Konstantinou & Matthias Haase
Business models' characteristics for home renovation in districts combining energy efficiency & renewables
To apply the large-scale renovation strategies and achieve the projected building stock decarbonisation, identifying the technical solutions is not enough; understanding the role of business models in building renovation is needed. This presentation provides an overview of business models archetypes that can support the development of efficient building renovations and renewable energy solutions, on district scale, offering an outlook of how those sectors can be combined to enable the upscaling.

Elisabeth Svennevik
Piloting SPARK Social Innovation at the University of Oslo
Universities are key institutional players, with significant economic and social impacts and play a role in innovation systems. I address the research question on how piloting the SPARK Social innovation initiative at the University of Oslo can contribute as a national and global agent enabling social innovation?

Social movements in sustainable transitions - 1

Rachel Krueger
Social Movements in the Media: A Content Analysis of Fossil Fuel Divestment in Higher Education
Motivated by recent progress of the fossil fuel divestment (FFD) movement, we used news media to conduct a content analysis to investigate stakeholder's framing of FFD and related investment strategies at higher education institutions (HEIs), the tactics adopted by FFD proponents, and their influence on FFD. Specifically, we have looked at the framing of actions taken by HEIs, stakeholders of FFD at HEIs, and drivers of FFD to contribute to the understanding of how FFD is framed at HEIs as well as the role of the news media in influencing the emergence and development of social movements.

Merel Enserink
InMyBackyardPlease: influencing local acceptance through a co-creative design process for a solar power plant
The IMBYP-project explored a co-creative design approach, including local stakeholders to create new landscape designs for solar energy. Special feature of the project was a mock-up, which we used to test if our design corresponded with the ideas and expectations of local stakeholders and if they would support the development of this solar power plant in their 'backyard'.

Joost Gerdes
Public support for a joint personal carbon budget for consumers
The goal of our research was to find out if public support could be found for an effective greenhouse gas emission policy that would guarantee reaching the emission target, and that would require participation and possible lifestyle change of all citizens. A personal carbon trading system was designed to this end and support for it was researched by asking a representative panel to complete an informed questionnaire.

Stefanie Baasch
Energy transition with biomass residues: regional-scale potential and conflicts
The presentation deals with the question whether and how residue-based bioenergy potentials for decentralized energy and heat transition projects can be expanded. Based on transdisciplinary research in Northern Hesse (GER), the results show that an energetic use of biomass residues is hindered by manifold fragmentations on the material, structural and process level and how these can be overcome.

Perspectives on Energy Citizenship - 2

Joke Kort
"Tenant" engagement for housing corporations
In this presentation we address a "tenant" engagement strategy designed in POCITYF to support housing corporations in engaging their tenants in realizing their energy transition targets and plans.

Ifigeneia Psarra, Joke Kort & Cyril Tjahja
The Unified CItizen Engagement Approach
The Unified Citizen Engagement Approach was developed within the MAKING-CITY project as a flexible, dynamic and iterative approach to citizen engagement, which integrates the perspectives of three main actors: the individual, the cooperative and the municipality.

Bianca Banica en Manuel Aires de Matos
Citizen engagement in Evora, Portugal
No abstract

Energy justice and energy democracy - 3

Aamina Teladia & Esther van der Waal
Canvassing the bridge between business interest to energy justice
The presentation explores this social business models of Dutch energy cooperatives can contribute to more inclusive energy transitions.

Nynke van Uffelen
Revisiting recognition justice in energy justice
In energy justice, many different definitions of "recognition justice" circulate, which makes the concept hard to understand and operationalize. Drawing from the critical theory in philosophy, the conception of recognition justice in energy justice can be revisited.

Gender perspective and gender equity in energy transition

Joy Clancy
Towards a gender just energy policy framework in Europe
We present a gender just energy policy framework, developed using data from five European countries, which assists policy makers in designing national energy policies which incorporate social inclusion, gender equity and gender equality. The framework reflects a whole system approach to policy making and implementation by incorporating the perspectives of consumers, producers and decision-makers across the multiple levels and sectors of the energy transition.

Marielle Feenstra
Engendering the energy transition in Europe
No abstract

Perspectives on Energy Citizenship - 3

Natalia Romero Herrera & Marina Wellink
ENERGE data platform-How to bring awareness and break a conformism attitude around energy and comfort management among secondary school teachers and students
In this talk we will briefly discuss the outcomes of several co-design sessions to understand the current values and practices of secondary schools' teachers and students around the management of energy and comfort. We will introduce ENERGE platform, a data-enabled service to bring awareness and break the conformism of the role students and teachers have in optimizing energy consumption and comfort at school.

Marten Boekelo
Digitalization, complexity and control: energy citizenship in times of systemic uncertainty
While many people want to assume responsibility for a sustainable future by "doing their bit" through their participation in smart grids, the complexity of the decentralized electricity system poses real challenges for digital solutions to make sustainable energy flows intelligible and actionable. This presentation shows that when they don't succeed, they frustrate people's sense of energy citizenship.

Joke Kort
Designing successful demand - response products and services by realizing social-economic value(s) of energy communities
In the BRIGHT project a design and evaluation framework for citizen and consumer engagement is developed in which the social-economic value(s) that energy communities can provide take a central stance. In this presentation we'll present the first results of an analysis of energy community activities and the social-economic values that they can support through these activities, providing a new perspective on developing demand-response products and services.

Policies and institutions for social innovations in renewable energy transitions - 2

Giorgos Koukoufikis
Social innovation, energy communities and the fit for 55 package
The fit for 55 package aims for a fair and socially just transition while revising climate, energy and transport-related legislation. Under this new legislative reality, concepts like social innovation (in particular in the energy sector) can become a central tool to deliver an empowering and inclusive transition for all. In this pitch, the possible impacts of the legislative proposals to social innovation will be developed and discussed with a focus on energy communities.

Risky research in the energy transition

Javanshir Fouladvand
Modelling energy security of thermal energy communities: An agent-based modelling approach
The goal of this paper is to study technical and institutional characteristics of community energy systems that influence their energy security. We use agent-based modelling for the first time to study energy security.

Taylor Stone
Dark Acupuncture: Innovating Urban Park Lighting
Public lighting is a large consumer of electricity, and thus has a role to play in reducing overall energy consumption – a key component of the energy transition. The presentation will describe a scalable design strategy termed dark acupuncture, which can serve as a catalyst for social innovations that re-imagine the future of urban lighting.

Rutger Van Bergem
Energy Transition as Institutional Spatial Mechanism Design Challenge
A Conceptual introduction to radically new Spatial Institutional Mechanisms that can facilitate the Energy transition. These mechanisms are operationalized in an experimental serious game design to be played by over 300 people.

Anatol Itten
Deliberating with Climate and Energy Conspiracy Believers
This presentation sheds light onto the occurrence of conspiracy beliefs in the energy transition and what average citizens think about them in online deliberations.

Geertje Bekebrede
Infrarium: the energy game
Infrarium is a game based experimental lab, to study the challenges in the Energy transition. In this contribution we discuss the background and the development process.

Social movements in sustainable transitions - 2

Anieke Kranenburg
Emerging visions for emerging technologies
The possible friction between the imagined prominent position of the emerging technology of large-scale energy storage and the needed deliberative change embedded in emerging visions to accelerate the desired transition.

Ana Stojilovska
Social movements as the new voice of energy justice
Mostly as a reaction to social consequences of the energy transition process or the economic crisis in Europe, the citizens hit the streets to demand a stop to the increase of energy prices or to ask for additional security of vulnerable consumers. I explore how social movements with demands of relevance to energy poverty are manifestations of procedural justice.

Workshops

<u>Marielle Feenstra</u>
Workshop 1: Serious game: gender just energy decision-making
The interaction between SDG7 and SDG5 will become crystal clear during a fun and entertaining gamification experience of a complex connection. Based on the gender just energy policy framework of the PhD thesis of Mariëlle Feenstra, this game provides insights of the intersection of social inclusion and energy justice. It deepens the understanding of the different motivations, needs and rights of actors involved in energy decision making. Join 75inQ's experts for an unprecedented learning experience about the key aspects of a just and inclusive energy transition. By playing our serious game we take leaders to the next level in their understanding of the implications and opportunities of accelerating the transition to a clean and just energy system. Recently this game received the Unesco patronage to be developed for educational purposes in schools and universities.

<u>Thomas Hoppe & Frans Coenen</u>
Workshop 2: Research handbook project on low carbon communities
No abstract

<u>Christina Francis</u>
Workshop 3: Smart local energy systems: Data for change, people and communities
This workshop is open to everyone interested in contributing and understanding the opportunities for how Smart Local Energy Systems (SLESs) can deliver benefits for people and communities through support solutions such as data management and optimization. The collaborative interdisciplinary work of EnergyREV Research Consortium will be presented to sensitise participants to their role in enabling a smooth energy transition and will explore the importance of data and its visualisations for achieving the change we want with and from SLESs and their communities of users.

Angelina Korsunova
Workshop 4: Circular Economy Bottom Up: Learning from Circular Citizens in Finland and Russia
This workshop is based on behavioural insights from circular experiences of eco-influencers, bloggers, eco-activists and pioneering citizens who are already implementing zero waste lifestyles and sustainable consumption principles. During the workshop, participants will reflect together and brainstorm implications for municipalities and businesses on catalyzing the transition to circular lifestyles.

Joke Kort
Workshop 5: A workshop on energy communities building social-economic value propositions
How should energy communities design social-economic value propositions and build a sustainable organization to provide these propositions?

Anna Margolis
Workshop 6: Complexity and collaboration in the circular innovation process
In this workshop we will use examples to jointly explore:
- How to approach complexity in circular innovation projects
- Which types of collaboration for circularity exist

Amanda Martinez Reyes
Workshop 7: Underrepresented voices for inclusive energy regions: role-playing-game scenarios
This workshop will bring awareness about marginalized groups and the injustices that they may experience in energy regions. Participants will represent a particular stakeholder group and they will receive information about their role.

Nanda Vrielink & Martijn Rietbergen
Workshop 8: Social energy transition, fighting energy poverty
In this workshop we will share our insights from the Horizon2020 project ENPOR on the reduction of energy poverty in the Private Rented Sector (PRS). And we will also invite you to think along and contribute to our project looking for opportunities to link energy saving to other problems tenants might be experiencing, so as to tackle the multiple dimensions of energy poverty.