



Workshop “Towards a sustainable Clean Energy Transition in Cities: technical and societal perspectives”

Jointly organized by EERA Joint Programmes e3s and Smart Cities

Vienna, 10th October 2025 | Hosted by the Austrian Institute of Technology (AIT)

Across Europe, cities are playing a central role in driving the transition toward climate neutrality and long-term sustainability. Supported by flagship EU initiatives such as the European Green Deal, the New European Bauhaus, and the Horizon Europe Mission for 100 Climate-Neutral Cities by 2030, urban areas are becoming key testbeds for systemic innovation in energy, mobility, governance, and the built environment.

However, with cities accounting for around 75% of global energy use and 70% of greenhouse gas emissions, the path to a clean energy future is complex. Urban environments face intertwined technical, social, and governance challenges—from aging infrastructure and limited space to socio-economic inequalities and fragmented policy frameworks.

The workshop “*Towards a Sustainable Clean Energy Transition in Cities: Technical and Societal Perspectives*” offers a platform to **explore** these **challenges and opportunities** through an **interdisciplinary lens**. By fostering dialogue between the energy sector, urban planners, and the Social Sciences and Humanities (SSH) communities, the workshop **aims to build a shared understanding of the systemic changes needed**. It highlights the importance of **integrating technological innovation with social inclusion** to co-create actionable, equitable, and scalable solutions for cities across Europe.

AGENDA

Date: 10 October 2025

Time: 9:00 – 17:30

Location: Die Hauswirtschaft, Bruno-Marek-Allee 5/1, 1020 Vienna, Austria

9:00 – 9:30	Registration	
9.30 – 9.45	Welcome greetings from AIT	tbd
9.45 – 10.10	Introduction from EERA JP e3s & Smart Cities	Alessandro Sciullo EERA JP e3s coordinator, <i>University of Turin</i> Sonia Giovinnazzi EERA JP Smart Cities coordinator, <i>ENEA</i>
10:10 – 10:30	Keynote speaker 1	tbd
Coffee Break (30')		
Plenary session: Strategies for Clean Energy Transition in Cities Presentations & panel discussion		



Chair of the session: Ayşen Sivrikaya (Hacettepe University)				
11.00 – 11.45	Ravenna’s virtual Positive Energy District: a model for energy transition in port cities		Michela Pirro ENEA	
	Systemic transformation of the mobility sector: a legal perspective on urban public policies in France and the EU		Louise Leray CEA I-TÉSÉ	
	Citizen-empowering PED strategy – case report from Austria		Bahanur Nasya Wonderland	
	New Mobility Habits and Urban Sustainability: A Systemic Approach to Energy-Conscious Planning		Roberta Roberto ENEA	
	Public-Private Partnerships for Climate-Neutral Urban Development: Case Studies from Three European Cities		Barbora Hejtmanková Czech Technical University	
11.45 – 12.30	Panel discussion			
Lunch break (60’)				
13.30 – 13.50	Keynote speaker 2: Federal Ministry Innovation, Mobility and Infrastructure (BMIMI) & SET-Plan IWG 3.2 Positive Energy Districts		Anna Wang, Susanne Meyer tbc BMIMI	
Plenary session: Approaches and methodologies for Clean Energy Transition in Cities Presentations & panel discussion Chair of the session: Ali Hainoun (AIT Austrian Institute of Technology)				
13.50 – 14.30	Justice and equity in the climate plans of 112 Italian cities		Monica Salvia CNR	
	Climate-Informed Grid Management: A Danish Model for Renewable Energy Transitions		Tatiana Ferrari DTU	
	Urban-Scale Techno-economic Assessment Using UBEM and Simulations: A Methodology for Cost-effective Energy Renovation Planning		Ipek Gürsel Dino METU	
	An open-source framework for the optimal design and operation of renewable energy communities		Marios Karmellos The Cyprus Institute	
	Development of an UrbanWeGeneration Model to guide Sustainable and Inclusive Urban Transition		Vicky Albert-Seifried Fraunhofer ISE	
	Virtual PED Labs: Emerging Framework for the Conceptualization, Implementation, and Scalability of Positive Energy Districts		Jelena Brajkovic University of Belgrade	
14.30 – 15.15	Panel discussion			
Coffee Break (30’)				
15.45 – 16.30	Parallel session: Case studies for Clean Energy Transition in Cities Presentations & panel discussion Chair of the session: Monica Salvia (CNR)		Parallel session: Technological Solutions for Clean Energy Transition in Cities Presentations & panel discussion Chair of the session: Paola Clerici Maestosi (ENEA)	
	A participatory approach for imagining Territorial Hydrogen Futures in the South Tyrol’s energy mix	Federica Viganò University of Bolzano	Design and Deployment of a SCADA PTP Test Emulator for Enhancing Grid Resilience and Reducing Urban Energy Interruptions	Canan Şişman Korkmaz Inavitas



	Achieving Holistic Energy, Digital and Resilience Transition in Villages and Small Cities: The Open Blue-Sky Lab in Pitigliano, Tuscany (Italy)	Sonia Giovinnazzi <i>ENEA</i>	Techno-economic analysis of solar power systems and energy storage deployment in Western African Power Pool	Xiaoqing Lin <i>University of Groningen</i>
	Climate Positive Circular Communities and Sustainable Plus-Energy Neighborhoods: From Vision to Reality	Niki Gaitani <i>NTNU</i>	DHOMUS: Empowering Renewable Energy Communities Through Smart Monitoring and User Engagement.	Valerio Pfister <i>ENEA</i>
	A Sociotechnical Imaginary of the Clean Hydrogen Mobility in Capo d’ Orlando: A Case Study	Raffaele Albanese & Agatino Nicita <i>CNR</i>	Advanced controls (DRL and MPC) for activating demand side flexibility: applications in district heating, swimming pool facilities and PED	Rongling Li <i>DTU</i>
	Citizen Science to Improve Urban Resilience to Extreme Heat in Mediterranean Cities. A baseline for co-designing cool shelters in Rome	Ezilda Costanzo <i>ENEA</i>		
16.30 – 17.00	Panel discussion		Panel discussion	
17.00 – 17.20	Plenary and parallel sessions wrap up			Chair xx Chair xx
17:20 – 17:30	Concluding remarks			Sonia Giovinnazzi EERA JP Smart Cities coordinator, <i>ENEA</i> Alessandro Sciuillo EERA JP e3s coordinator, <i>University of Turin</i>