



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, University of Turin Sonia Giovinazzi EERA JP Smart Cities coordinator, ENEA				
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			tbd				
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)								
	Justice and equity in the climate plans of 112 Italian cities		Monica Salvia CNR					
13.50 - 14.30	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			lpek 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			Giovanni Semprini University of Bologna				
14.30 - 15.15	Panel discussion							
		Coffee Break (30	r)					
15.45 – 16.30	Transition in Cities Energy Transitions & panel discussion Presentations			ological Solutions for Clean nsition in Cities apanel discussion 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 SCADA PTP Test Emulato Enhancing Grid Resilien Reducing Urban Energy Interruptions	of a or for Canan Şişman ce and Korkmaz Inavitas				
	Achieving Holistic Energy, Digital and Resilience	Sonia Giovinazzi	Techno-economic analy solar power systems an		Xiaojing Lin			





	Transition in Villages and Small ENEA energy storage deployn Cities: The Open Blue-Sky Lab Western African Power in Pitigliano, Tuscany (Italy)			University of Groningen		
	Climate Positive Circular Communities and Sustainable Plus-Energy Neighborhoods: From Vision to Reality	Niki Gaitani NTNU	DHOMUS: Empowering Renewable Energy Communities Through Smart Monitoring and User Engagement.		Valerio Pfister ENEA	
	A Sociotechnical Imaginary of the Clean Hydrogen Mobility in Capo d' Orlando: A Case Study	Agatino Nicita CNR	Advanced controls (DRL at			
	Citizen Science to Improve Urban Resilience to Extreme Heat in Mediterranean Cities. A baseline for co-designing cool shelters in Rome	Ezilda Costanzo ENEA	MPC) for activating demand side flexibility: applications in district heating, swimming poof facilities and PED		Rongling Li DTU	
16.30 - 17.00	Panel discussion Panel dis			scussion		
17.00 - 17.20	Plenary and parallel sessions wrap up			tbd		
17:20 - 17:30	Concluding remarks				Sonia Giovinazzi EERA JP Smart Cities coordinator, ENEA	
17:20 - 17:30	Concluding remarks			Alessandro Sciullo EERA JP e3s coordinator, University of Turin		