

Faculty

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Antonella Rissotto, CNR

Antonio De Nicola, ENEA
Antonio Opromolla, ENEA
Tatiana Patriarca, ENEA

Martina Schraudner, Fraunhofer IAO
Clemens Striebing, Fraunhofer IAO
Sabine Loos, Fraunhofer IAO

Aleksandra Wagner, Jagiellonian University
Paulina Sekula, Jagiellonian University
Tadeusz Rudek, Jagiellonian University

Nana Ama Browne Klutse, AIMS
Elizabeth Pollitzer, Portia

Rocio Diaz-Chavez, Imperial
Yara Evans, Imperial

External Speakers

Keynote speaker: Joy Clancy, University of Twente

Deborah Logan, Publishing Director Elsevier
Saska Petrova, University of Manchester
Flor Avelino & Tessa de Geus, Utrecht University
Josephine Musango, Stellenbosch University

Hosting Partner – VIU Venice International University

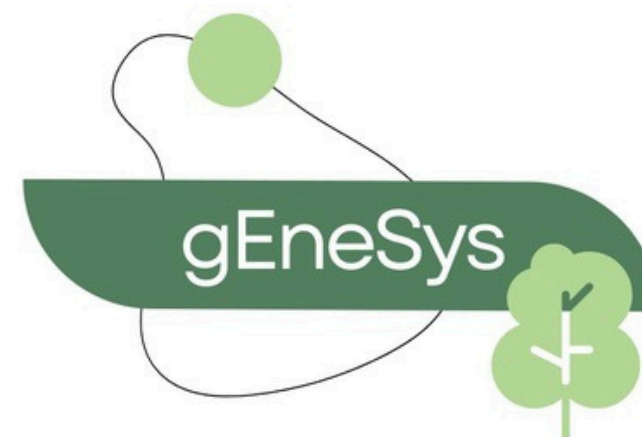
Ilda Mannino
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Gender and Intersectional Inequalities in Energy Transition Autumn School

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Venice International University
Isola di San Servolo
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BRIEF MODULES' DESCRIPTIONS

DAY 1. ENEA - "Conceptual foundations of the Energy System and gendered analysis of the energy transition scientific community"

This module explores the foundations of energy system ontology, focusing on five key subsystems: environment, strategy, policy, behavior, and operation. It examines ontology design patterns and the interdependencies of these subsystems, emphasizing the sector's complexity.

The second part addresses the scientific community in energy transition research through a gendered lens, focusing on data collection, semantic analysis, social network building, and assessing gender gaps. Participants will use quantitative and qualitative tools and engage in interactive activities to translate theoretical concepts into practical strategies for addressing gender disparities.

DAY 2. Fraunhofer IAO - "Creating Data-Driven and Human-Centered Policies for a Just Energy Transition"

This module explores the complexities of energy justice, using insights from the gEneSys survey of 30,000 citizens across the EU and Sub-Saharan Africa. Participants will examine how energy systems affect social groups differently, focusing on issues like energy poverty, health impacts, and value-driven energy choices.

Key topics include data-driven analyses of marginalization in energy policy and foundational concepts from Science and Technology Studies (STS) on human-centered energy systems. Through a policy-making exercise based on real-world personas, participants will design targeted strategies to address energy justice challenges. The seminar follows the SEE (sensitization, equipping, empowerment) approach, combining interactive learning, theoretical insights, and competitive group work to empower participants in creating equitable energy policies.

DAY 3. CNR-IRPPS - "TRANSFORM LAB_Interrelations of Power in Energy Transition"

This module applies the Transformative Power Lab model to explore power dynamics within the energy transition and develop tools for fostering equitable transformations. Participants will examine the five layers of the energy system—environment, strategy, policy, behavior, and operation—through the gEneSys ontology framework.

The first part covers theoretical foundations of power dynamics, introducing concepts like "power to," "power over," and "power with," to build power literacy. In the second part, participants engage in workshops, analyzing power relations within specific layers and exploring strategies to enable just transformations. This hands-on approach equips participants with analytical and strategic skills to influence equitable energy transition policies and innovations.

DAY. 4 Jagiellonian University - "Shaping Sustainable Futures: Gender, Policy, and Research in the Energy Education"

This module explores the intersection of ethics, innovation, and gender in the energy sector. It begins with a 15-minute introduction on co-creating innovation through gender perspectives, followed by a 90-minute lecture on the Gendered Innovation framework and case studies showcasing gender analysis in energy solutions.

In workshops, participants will identify gender biases in energy education materials and develop inclusive high school modules, such as gendered energy use, energy careers, and mainstreaming gender in energy innovation. Teams will present their projects for feedback. The module aims to enhance understanding of the Gendered Innovations framework, the gender-energy nexus, and strategies for creating inclusive, engaging curricula.

DAY 4. AIMS & Portia - "Opportunities, instruments, and mechanisms to improve societal impact of the EU-Africa R&I co-operation efforts on energy transition by mainstreaming gender into design and implementation strategies"

This module will explore the EU policies shaping EU-Africa cooperation on energy transition, focusing on how gender can be mainstreamed in the design and implementation strategies. Participants will identify key challenges in integrating gender into EU-Africa research and innovation partnerships. The module will also highlight opportunities to strengthen efforts to advance the role of women in Africa as researchers, innovators, and entrepreneurs. Finally, it will promote innovative solutions aimed at creating greener, more digital, and healthier societies in Africa, driving inclusive growth and development in the context of the energy transition.

DAY 5. Imperial - "Engendering Energy Just and Fair Pathways"

This module aims to equip participants with tools to integrate the gender innovation framework into research and policy, using the SHIFTs project as an example. It covers how energy pathways are developed and how to apply gender-sensitive criteria and indicators in the design of socio-technical systems for energy transition.

Through the analysis of existing energy pathways, including the Net Zero model, participants will learn the importance of incorporating gender and social inequality factors to ensure a just energy transition. The module includes practical exercises, including using AI to design gender-inclusive energy pathways, and participatory methods such as group activities, discussions, and hands-on exercises with technology to create pathways that promote gender equality.



FACULTY BIO

IRPPS - CNR

Lucio Pisacane: sociologist and researcher at the National Research Council of Italy where he coordinates the Horizon project gEneSys (Transforming Gendered Interrelations of Power and Inequalities for Just Energy Systems). He served as expert for the European Institute Gender Equality. His works focus on human resources in science, gender equality, diversity and inclusion.

Cloe Miranda: anthropologist with a PhD in sustainability science. She is a research member of the Horizon project gEneSys (Transforming Gendered Interrelations of Power and Inequalities for Just Energy Systems) at the National Research Council of Italy. Her work focuses on the gender dimension of sustainability and climate change vulnerability.

Maria Camilla Fraudatario: sociologist with a PhD in Social Sciences and Statistics. She is currently a research member of the Horizon project gEneSys: Transforming Gendered Interrelations of Power and Inequalities for Just Energy Systems at CNR-IRPPS. Her work focuses on gender equality, sustainability, social innovation, and territorial development.

Marco Cellini: holds a Ph.D. in Political Science from the Libera Università Internazionale degli Studi Sociali (LUISS) Guido Carli in Rome and is a researcher at the National Research Council of Italy. He conducts research on democratization processes, democracy measurement, inequality and poverty, global governance, and European policies.

Serena Tagliacozzo: is a researcher at the National Research Council of Italy, where she evaluates European projects and supports their development and implementation. She holds a Ph.D. in Disaster Risk Reduction from University College London (UK). Her research interests include monitoring and evaluating humanitarian projects and translating research findings into policies to minimize and manage risks associated with crises and disasters.

Azzurra Malgieri: graduated in Anthropology from Sapienza University (2001) and SOAS, London (2003), she also completed advanced training in International Politics (2005) and a Master's in Local Development (2007). She worked with organizations in Rome on cultural mediation and social inclusion. From 2008 to 2019, at CNR, she managed migration research projects, collaborated with the European Commission, and focused on research policy and scientific communication. Since 2019, she has been at IRPPS-CNR, researching applied anthropology, science communication, and R&D policies.

Monia Torre: holds a degree in Cultural Anthropology from Ca' Foscari University of Venice and a Master in Science Communication from SISSA, Trieste. She has worked as a research fellow at INMI Spallanzani on antibiotic use monitoring and collaborates with Zadig in health communication and European project dissemination. Her interests include science communication, risk communication, and participatory methodologies.

Miriam Tombino: holds a PhD in Latin American Studies from New York University. Her research examines the representation of gender-based violence in contemporary photography in the Mexican context. She is a member of the gEneSys project, collaborating in the organization of the Autumn School.

Antonella Rissotto: holds a PhD in Environmental Psychology and works as a Technologist at the Training and Welfare Unit of the National Research Council of Italy. She is a member of the gEneSys project, collaborating in the organization of the Autumn School.

ENEA

Antonio De Nicola: holds a PhD in Computer Science, Geocontrol and Geoinformation and is a Senior Researcher at ENEA, the Italian National Agency for New Technologies, Energy and Sustainable Economic Development. His research focuses on methodologies and tools for conceptual modeling of socio-technical systems, ontologies, social network analysis based on semantic technologies and complexity science, industrial applications of semantic technologies, and collaborative information systems for cyber-security.

Antonio Opromolla: he is a researcher at ENEA, the Italian National Agency for New Technologies, Energy and Sustainable Economic Development. He contributes to various research projects aimed at developing accessible channels and materials on circular economy and sustainable development, emphasizing civic engagement in sustainable energy topics.

Tatiana Patriarca: is a researcher at ENEA specializing in cybersecurity for SCADA systems. Her research focuses on assessing the impact of cyberattacks on interconnected technological networks, such as electricity, water, gas, and communication systems, with the goal of enhancing their resilience and reliability. Additionally, her work investigates the dependencies and interdependencies among critical infrastructures, utilizing domain-specific simulators (e.g., PSS-Sincal) for their modeling and simulation.

Fraunhofer IAO

Clemens Striebing: political scientist and PhD in Sociology. Senior researcher at the Fraunhofer IAO Center for Responsible Research and Innovation (CeRRI), he leads national and international projects on organizational culture and diversity in innovation processes and teaches gender-sensitive R&D at TU Berlin. He is a research member of the Horizon project gEneSys and co-authored the CINEA study.

Sabine Loss: research associate at the Fraunhofer IAO Center for Responsible Research and Innovation (CeRRI). She is a research member of the Horizon project gEneSys, Transforming Gendered Interrelations of Power and Inequalities for Just Energy Systems. She works on socially just and ecologically sustainable energy transition in a feminist perspective.

Jagiellonian University

Aleksandra Wagner: specializes in the sociology of energy and social communication. Her research focuses on socio-technical change, public communication, deliberation, and inclusive policy. She coordinates the MA program in Social Communication at the Institute of Sociology, JU, and studies public discourses on energy transitions and responsible technology development.

Paulina Sekula: is an assistant professor at the Institute of Sociology at Jagiellonian University in Krakow, Poland. Her research focuses on gender equality, particularly in academia and research, as well as political culture and democracy theories. She has been involved in several H2020 projects on structural change in higher education, including GENERA, ACT, and MINDtheGEPs, as well as the Alexander von Humboldt Foundation project on international mobile women scientists.

Tadeusz Rudek: is a PhD student and research assistant at Jagiellonian University and a fellow at Harvard University's STS Fellowship program. He is the principal investigator of the "Journey to the West?" project, funded by the National Science Center in Poland, and a research assistant in several Horizon2020 projects. His research focuses on sociotechnical imaginaries of energy transitions in China and Taiwan, and he has published in the Energy-SSH field. His research interests include STS studies, sociology of energy, and climate adaptation policies.



AIMS

Nana Ama Browne Klutse: is a Senior Lecturer at the University of Ghana and a fellow of the African Institute of Mathematical Sciences – Next Einstein Initiative. With a PhD in Climatology from the University of Cape Town, her research focuses on climate modeling, impacts on health, energy, and gender, and climate adaptation. She has co-authored numerous publications and teaches various climate-related courses, while supervising students at Masters and PhD levels.

Portia

Elizabeth Pollitzer: is the founder and director of Portia, a non-profit organization focused on advancing gender equality in STEM and promoting the integration of gender perspectives in scientific research. With a background in biophysics, she has over 20 years of experience in teaching and research at Imperial College London. Pollitzer coordinated the genSET project and established the Gender Summits to foster global collaboration on gender issues in science. She is also an expert adviser to the European Commission and has contributed to various international projects on gender equality in research.

Imperial

Rocio Diaz-Chavez: is a Senior Research Fellow at Imperial College London's Centre for Environmental Policy. She previously served as Deputy Director and Energy and Climate Change Programme Leader at the Stockholm Environment Institute Africa Centre in Kenya (2017-2022). Her research focuses on sustainability assessment, bioeconomy, land use, natural resources, and synergies with energy and SDGs. She has contributed to numerous EU-funded projects and consulted for the European Commission, FAO, and IEA. She received the SCOPE 2010 Young Scientist Award for her work on environmental management.

Yara Evans: is a Human Geographer with expertise in both quantitative and qualitative research methodologies. Her research has primarily focused on the dynamics of immigrant life in the UK, particularly within the Brazilian community in London. In recent years, she has expanded her work to include social sustainability assessments, stakeholder engagement, and social acceptance analysis, particularly in the context of biofuels and bioproducts in Europe. She holds a PhD from the University of Wales Aberystwyth and is currently a Research Associate at the Centre for Environmental Policy at Imperial College London.

External Speakers Bio

Joy Clancy – University of Twente: is a Reader in Technology Transfer at the University of Twente, The Netherlands, with over 30 years of research on the socio-economic aspects of energy systems for rural development. Her work focuses on rural electrification, biomass fuels, small-scale industries, gender, energy poverty, and sustainable livelihoods. She serves on the Dutch Ministry for Development Cooperation's knowledge panel on sustainability, climate, and energy and is a technical advisor on gender and energy to the World Bank. She is a founding member of ENERGIA and works on gender mainstreaming in energy programs.

Deborah Logan – Publishing Director for Elsevier: focuses on fostering diversity, and innovation in scientific publishing, drawing on over two decades of experience in publishing and international collaborations.

Saska Petrova – University of Manchester: is a Professor at the University of Manchester, specializing in the intersection of precarity, gender, and energy resource use. Her research, conducted across the UK, Europe, South Africa, and China, focuses on the political governance of social and environmental injustices. Drawing on political ecology and feminist geographies, they aim to transform low-carbon transition practices. She has led over 20 funded research projects, influencing policy at the European Commission and Parliament. Her work addresses energy politics, nature governance, and the social dimensions of low-carbon futures.

Flor Avelino – University of Utrecht: focuses on sustainability transitions and social innovation. She specializes in power theories and has a particular interest in understanding how people, organizations and networks are (dis)empowered to contribute to change and how power relations are being challenged and reproduced through translocal processes of social innovation and sustainability transitions.

Tessa de Geus – Erasmus Universiteit Rotterdam: is a researcher at DRIFT, specializing in the social aspects of the energy transition. She applies systems thinking to contribute to a democratic shift toward a zero-carbon society, working on EU-funded projects such as TOMORROW, Energy-SHIFTS, and PROSEU. Tessa is interested in how social movements and innovation drive transitions. Previously, she advised grassroots initiatives and civil servants at Kennisland, worked with the UNDP in New York, and conducted research for Berenschot International.

Josephine Musango – Stellenbosch University: is an Associate Professor at Stellenbosch University. She is a resource economist and system dynamicist, specializing in energy transition, urban African energy, and green economy issues. Her research focuses on using systems approaches to manage change and address policy challenges in these areas. She is also a founding member of the South Africa System Dynamics Chapter and serves on the International System Dynamics Society Publications Committee.

Venue:

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<https://www.univiu.org/focus-areas/environmental-management-and-security/genesys-autumn-school-2025>
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