

Urban Transitions Mission's Knowledge-Exchange Program
Renewable Energy for Cities

Module II: Buildings Energy Performance

Session 1: Building Energy Efficiency

Dates: 10 April, 2024 **Time:** 13:30- 15:00 (CET)

Register: [here](#)

Overview of the Program

The program will focus on **renewable energy technologies and their applications in cities** over February 14 - June 19, 2024.

The overall program consists of three modules, each covered by three sessions (90 minutes/session) for a total of nine (virtual) sessions. Please find below the agenda of the session 1 of Module I, followed by the overview of the topics for each session.

Each session will start with a presentation introducing the topics and key aspects around it, followed by a discussion on a case study to be shared, and questions and answers (Q&A) session. A detailed agenda will be provided well ahead of each session, together with key questions for participants to prepare for the discussion and get the most out of the training.

This knowledge-exchange program aims to be as much interactive and practical as possible. We therefore encourage UTM cities to share in advance their experiences, perspectives, interesting use cases. If you would like to share your interesting project as a case study to be presented and discussed at a relevant session, please don't hesitate to contact UTM as soon as possible. We also welcome UTM cities to share questions in advance around the topics to be covered in a given session.

These exchanges are dedicated to urban energy planners and urban planning officials, as well as experts from local energy agencies and municipally owned companies that support the city in their energy transition. Please let us know which experts you intend to engage. The exchange will be accessible upon registration – please find [here](#) the link to register.

If you have any question or suggestions, please reach out to UTM Team via utm@globalcovenantofmayors.org and copy y.chen@irena.org

Agenda

13:30 CEST	Welcome – <i>Miriam Badino, Urban Transitions Mission coordinator</i>
13:35 CEST	<p>Introduction to the session – <i>Yong Chen, Program Officer (Lead) for Sustainable Urban Energy, IRENA</i></p> <ul style="list-style-type: none"> • Overview of the building decarbonisation status • Thermal performance of building envelope • Building design strategies and retrofitting options for existing buildings
13:50 CEST	<p>Case Study – Łódź – <i>Anna Wierzbicka, Director of Environmental Management Division, Łódź, Poland</i></p> <ul style="list-style-type: none"> • energy efficiency in buildings • experiences and challenges
14:00 CEST	<p>Case Study – Belo Horizonte’s quest for energy efficiency – <i>Sonia Knauer, Manager of Sustainability Action, Belo Horizonte, Brazil</i></p> <ul style="list-style-type: none"> • energy efficiency in buildings • experiences and challenges
14:20 CEST	<p>Q&A and discussion – <i>All participants moderated by Yong Chen, IRENA</i></p> <ul style="list-style-type: none"> • Where should my city be focusing on as far as building energy performance is concerned? • What are barriers to scale up deep renovation?
14:55 CEST	Wrap up and next steps – <i>Miriam Badino, Urban Transitions Mission</i>
15:00 CEST	End

Complete programme of the Knowledge-Exchange Program Renewable Energy for Cities

Module I: Distributed renewable power generation systems

- Session 1: Understanding distributed electric power generation systems in the context of urban energy transition (14 February)
- Session 2: Focus on Solar Photovoltaics (PV) (21 February)
- Session 3: Other renewable power technologies for cities (28 February)

Recordings of past sessions are available in the UTMC energy group <https://utmc.app/group-energy>

Module II: Buildings energy performance

- Session 1: [Building energy efficiency](#) (10 April)
- Session 2: [Renewable energy for heating in buildings](#) (~~17 April~~ **24 April**)
- Session 3: [Heat pumps](#) (~~24 April~~ **8 May**)

Module III: Sustainable mobility in urban environment

- Session 1: [Mobility VS transportation](#) (5 June)
- Session 2: [Electric vehicles \(eV\) and charging infrastructure](#) (12 June)
- Session 3: [Other low-carbon transportation options](#) (19 June)

The International Renewable Energy Agency (IRENA) is an intergovernmental organisation, comprising 168 Member States and the European Union, that supports countries in their transition to a sustainable energy future. IRENA serves as a centre of excellence; a repository of policy, technology, resource and financial knowledge; and the principal platform for international co-operation on renewable energy. IRENA promotes the widespread adoption and sustainable use of all forms of renewable energy, including bioenergy, geothermal, hydropower, ocean, solar and wind energy, in the pursuit of a global energy transition that delivers sustainable development, energy access, energy security and low-carbon economic growth and prosperity. www.irena.org
