

ICLEI Energy Exchange # 5

Topic: Future of energy efficiency and buildings

Session description

By 2050, approximately 70% of the world's population is expected to live in urban areas, resulting in a significant surge in energy demand. Buildings are responsible for 35% of greenhouse gas emissions through their final energy consumption. It is, therefore, crucial to focus on energy transition by emphasizing energy efficiency in buildings and the effective use of local energy generation and distribution systems. In addition, energy storage systems can be used to isolate energy consumption and production, thereby increasing self-sufficiency.

There is growing pressure to reduce operating and energy costs, stricter decarbonization targets, and increasing demands from building occupants for safer, more comfortable, and healthier environments. Digitalization is emerging as a key solution to address these challenges. By leveraging digital infrastructure, buildings can achieve energy and cost savings, optimize performance to minimize equipment downtime and maintenance, improve the occupant experience, and ensure compliance with regulations and business continuity.

Digitalization encompasses a range of digital tools, process automation, and project communication techniques that enable streamlined and efficient processes in building construction. Digitalization also improves the environmental performance of buildings. The integration of energy management and automation with renewable energy sources and storage brings about economic benefits to building owners.

This holistic approach promotes the development of sustainable solutions that enhance the resilience of communities. The primary objective of the webinar is to explore the benefits of implementing innovative digital transformation in buildings. The webinar will showcase successful use cases, facilitate knowledge sharing and encourage the adoption of modern energy efficiency practices.

Featured speaker(s) Vincent Minier, Schneider Electric Sustainability Research Institute

Moderator(s) Kanak Gokarn, Officer, Sustainable Energy, ICLEI World Secretariat

Date and location: Virtually on Zoom, Oct 16 from 12 PM CEST

Guiding questions

- How do buildings contribute to resilience?
- How can digitalization solutions contribute to reducing energy and operating costs in buildings?
- How can digitalization enable more efficient and streamlined processes in building construction?
- What economic benefits can be achieved by integrating renewable energy sources with energy management and automation systems in buildings?
- What challenges and opportunities for the cities in building sector digitalization?
- What service models are offered in realization of these projects?
- How can digitalization in buildings contribute to achieving decarbonization targets?
- What are the long-term benefits of embracing digitalization in terms of sustainability and community resilience?



Indicative agenda

| Time | Description |
|------------|---|
| 5 minutes | Introduction by ICLEI WS |
| 40 minutes | In-depth dive into the chosen theme |
| 15 minutes | Audience interactive discussion (Q&A) and closing remarks |

Contact information

In case of questions or concerns, or interest in partnering or participating, please contact the Sustainable Energy team at the ICLEI World Secretariat at sustainable.energy@iclei.org.

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