

Workshop: **Workshop on the role of utilities, big data and geo-spatial data in energy transition**

(in the framework of the fifth session of the UNECE Group of Experts on Energy Efficiency (GEEE))

Organizers: United Nations Economic Commission for Europe (UNECE)

Target group: Open to all participants

Background: Transition to sustainable energy systems requires effective coordination between a variety of stakeholders regarding the choice and implementation of technological solutions at different scales. High quality data is one of the central elements of this coordination. Currently, many countries and cities start to use Big and geo-spatial data, and the related data management and analysis methods, for implementation of sustainable energy projects. International experience exchange on current practices is of special interest as the respective IT solutions can be easily transferred among different locations.

This session provides the insights on the case studies of the use of Big and geo-spatial data, and on application of related data management and analysis methods on regional, city and building scales. The panel sessions will be focused on the development of legal and organizational practices in the countries of UNECE region.

Guiding questions:

- *What are the major barriers for application of GIS and Big data methods in energy transition projects?*
- *What legal and organizational practices could be put into place to mitigate or remove the existing barriers?*
- *What role do institutions and utilities play nowadays in creation and share of geo-spatial and Big data?*
- *How to find a balance between Open access and personal data protection policies with regards to energy-related data?*

Panel 1: Barriers and best practices		
14:00-14:05	Opening remarks	Mr. Aleksandar Dukovski , Chair of the Group of Experts on Energy Efficiency
	Moderator	Ms. Alisa Freyre , Atlas & Energy Observatory Projects Manager, Services Industriels de Genève (SIG)
14:05-14:20	Encouraging Energy Efficiency by the help of Big Data Management and GIS tools	Mr. Romanas Savickas , Senior Advisor for Energy, UNEP-DTU Partnership, Copenhagen Centre on Energy Efficiency
14:20-14:35	Digital platforms for territorial energy and climate planning – an innovative example from Switzerland	Mr. Stefan Doerig , Director Markets, enersis suisse ag
14:35-14:50	Enabling data-driven policymaking for carbon neutral heating and cooling: the case of The Hague	Mr. Rob Geldhof , Consultant on renewable energy and data, Over Morgen
14:50-15:05	Geological information system for managing geothermal projects in Geneva	Ms. Stéphanie Favre , Founder & CEO, Geodata Concept
15:05- 15:30	Open Discussion	
15:30-16:00	Coffee break	

Panel 2: Institutions, utilities and legal framework		
	Moderator	Mr. Fabian Kreuzer , Economic Affairs Officer, Energy Division, ESCAP
16:00-16:15	Planning and implementation of energy transition projects with a use of geo-spatial data	Ms. Alisa Freyre , Atlas & Energy Observatory Projects Manager, SIG
16:15-16:30	Smart City: Energy Efficiency	Mr. Izmail Petrov , Energy Management System Expert, National Cleaner Production Center, Russian Federation
16:30-16:45	Tackling big and geo-spatial data challenges of Central Europe's energy transition	Mr. Matija Vajdic , Project Manager, Interreg CENTRAL EUROPE Joint Secretariat
16:45-17:00	GIS and Digitalization. Challenges to DSO, targeted vision, and first steps. Risks and barriers.	Mr. Alexey Kalayda , Manager of Technical Department of DTEK Grids, DTEK Grids
17:00-17:15	Spatio-temporal characterization of electricity consumption: case of Switzerland	Ms. Selin Yilmaz , Postdoctoral researcher, Energy efficiency group, University of Geneva
17:15-17:30	Open Discussion and Summary of the Workshop	Ms. Alisa Freyre , Atlas & Energy Observatory Projects Manager, SIG Mr. Aleksandar Dukovski , Chair of the Group of Experts on Energy Efficiency