



3rd Capacity-building Hub Finance and Technology Day

International Atomic Energy Agency (IAEA)

Capacity-building in Energy Planning and its Application for Addressing Climate Change Mitigation Targets

Concept Note

Background:

The IAEA has extensive experience in building and reinforcing national capabilities to conduct energy system analysis, so that countries can assess options and develop their own sustainable, climate-friendly energy strategies. Capacity building activities in energy system analysis and planning of the IAEA are organized around the development and maintenance of IAEA's energy system assessment tools, online support and sessions, various types of trainings, multi-lingual approach and technical assistance for elaboration of sustainable energy strategies. These activities are aimed to build and sustain local expertise as well as to support decision and policy making in countries by transferring modern planning tools and methodologies to national teams, increasing knowledge and reinforcing skills that many countries are lacking in this domain.

The aim of the session is to introduce the capacity building and skills development program the IAEA offers to various stakeholders from national institutions, policy and decision-making bodies, energy policy agencies and companies engaged in sustainable energy development. Building and enhancing local expertise is fundamental so that countries can independently analyse and elaborate energy plans, strategies and policies without relying extensively on external consultants.

IAEA's energy system assessment tools will be presented to demonstrate how energy planners can support and shape policies and inform decision making. Selected success stories of expanding energy planning capabilities in several countries in support of sustainable low carbon economies will be presented providing a testimony of tangible results of energy planning achieved through the Agency's programme.

Objectives:

- Enhance participants' skills & knowledge on sustainable energy planning, including model-based scenario analysis for evidence-based decision-making;
- Discuss key elements of an effective capacity building
- Showcase examples of experiences in several countries with IAEA's technical cooperation programme for energy planning.





Format:

Venue: 3rd Capacity-building Hub within COP26 (Blue zone)

Location: Glasgow, UK

Date: November 4th, 2021, Thursday

Length: 60 minutes

Language: English

Hybrid event: two speakers will participate physically, and two speakers will join virtually.
Three presentation will be delivered as per agenda followed by a discussion and Q&A sessions.

General Structure:

- IAEA's energy system assessment tools and capacity building program to support sustainable energy development, IAEA (15 mins)
- Experience of Colombia, Ministry of Mining and Energy (15 mins)
- Experience of Nicaragua, Ministry of Energy and Mining (15 mins)
- Discussion session on key elements of building and sustaining national capacities and expertise for energy planning and sustainable energy development (10 mins). Example topics that can be discussed include: How to coordinate various capacity building initiatives from various organizations / initiatives when approaching a region / country? Why some countries, especially developing countries, rely more on external support rather than sustained internal expertise? What are critical elements to achieve sustainability in country's expertise for energy planning?
- Q&A session (5 mins)

Speakers		
Name	Role	Affiliation/Organization
Loreta Stankeviciute	Energy Systems Analyst / Planning and Economic Studies Section	International Atomic Energy Agency
Henri Paillere	Section Head of Planning and Economic Studies Section	International Atomic Energy Agency
María Paula Rojas H	Economist / Unit of planning of mining and energy	Ministry of Mining and Energy, Colombia
Carlos Emilio Sanchez Sanchez	Planning Director	Ministry of Energy and Mining, Nicaragua

Moderators		
Name	Role	Affiliation/Organization
Loreta Stankeviciute	Energy Systems Analyst / Planning and Economic Studies Section	International Atomic Energy Agency





Outcomes:

- Increased outreach of the capacity building and skills development program that IAEA offers to various stakeholders through transfer of open-source energy system assessment tools, trainings on those tools and other support provided by technical cooperated that can assist energy planners in shaping policies and informing decision making in a transition towards decarbonized energy systems.
- Showcased testimonies of tangible results achieved through the Agency's programme in expanding energy planning capabilities for sustainable energy development in Nicaragua and Colombia.
- The benefits of moving toward a more inclusive and fully open analysis of climate and energy policies for better quality assessments, knowledge retention, enhanced public accountability, and improved public acceptance discussed.

Relevant Links:

- <https://www.iaea.org/sites/default/files/19/02/iaea-methodologies-and-models-for-sustainable-energy-planning.pdf>
- <https://www.iaea.org/newscenter/news/designing-power-systems-and-managing-markets-to-achieve-the-low-carbon-transition>
- <https://www.iaea.org/newscenter/news/supporting-energy-integration-in-latin-america-and-the-caribbean>
- <https://www.iaea.org/newscenter/news/planning-for-a-sustainable-future-energy-experts-in-latin-america-and-caribbean-analyse-future-demand-with-iaea-support>
- <https://irena.org/newsroom/articles/2021/Sep/IRENA-and-IAEA-Selected-to-Help-African-Union-Develop-Continental-Power-Master-Plan-with-EU-support>

