

## EVENT

# LONG-TERM ENERGY SCENARIOS (LTES) FOR DEVELOPING NATIONAL ENERGY TRANSITION PLANS IN AFRICA

NOVEMBER 29<sup>TH</sup> – DECEMBER 15<sup>TH</sup> 2021

SHOWCASING BEST PRACTICES AND EXPERIENCE FROM GOVERNMENT ENERGY PLANNERS  
IN THE DEVELOPMENT AND USE OF LONG-TERM ENERGY SCENARIOS TO GUIDE NATIONAL  
ENERGY PLANS

[REGISTER HERE](#)

## BACKGROUND

**Long-term energy scenarios have been used as effective tools for energy planning by various governments.** In the face of the clean energy transition, transformative change is envisioned not only within the energy sector and but also for society at large. Countries that have been using scenarios as a basis of long-term planning are increasingly aware that planning for the clean energy transition may demand a new level of complexity to the governance of the scenario planning process and in some cases, to the underlying modelling methodologies.

**The use of energy scenarios in energy system master plans and integrated resource plans is common in the African continent.** Some countries have planning teams within the government, while others rely on external consultancy while building internal capacity. Some countries have institutionalized their planning practices, while others tend to have a more ad-hoc approach.

Against this background, IRENA has hosted a network of energy scenario practitioners in the government sector, facilitating the exchanges of experiences in the development and the use of long-term energy scenarios for planning clean energy transition. The **Long-term Energy Scenarios (LTES) Network** currently comprises 25 country members and 10 technical partners, including Kenya from Africa.

This LTES-Africa Webinar Series will be composed of 5 sessions spanning over 3 weeks, supplemented with a special session featuring regional Power Pools during the 7th Programme for Infrastructure Development in Africa (PIDA) Week.

## FEATURED SPEAKERS

The LTES Africa Webinar Series features speakers from 10 African countries and regional Power Pools that have well-established scenario-based planning practices. The presentations will be made by planning directors or

senior government officials specialized in scenario-based planning. The presentations will be carried out in 6 sessions throughout three weeks.

For each session, key development partners are also invited to make a short intervention introducing their activities in support to the energy planning capacity enhancement.

## MAIN FOCUS OF THE LTES-AFRICA WEBINAR SERIES

The focus of the LTES-Africa Webinar Series is on *the governance structures around the development and the use of LTES to plan the energy transition, and institutional efforts to enhance them.*

The LTES-Africa Webinar Series is NOT meant to focus on *displaying quantitative scenario results or energy policies, targets or goals for new energy sector infrastructure.*

More specifically, it is recommended that the country touch upon all three aspects that are applicable to their countries.

### 1) DEVELOPMENT OF SCENARIOS

- **Governance structure:** *Are there good practices on developing efficient governance structures for the development of LTES? Who are responsible for developing government scenarios and how is the process coordinated across different institutions in the country? What are the measures in place that enable effective development of national planning scenarios?*
- **Boundary of planning scenarios:** *What efforts are being made to expand the scope of the LTES developed in your country? What is the scope of national LTES? How are clean energy transition features reflected (e.g. socio-economic elements of a just transition, innovation in the energy sector etc)?*

### 2) USE OF SCENARIOS

- **Purpose of the use of the scenario building:** *In which ways are the LTES used for policy making? What are the main purposes of LTES development in your country? For example, to forecast or backcast, build consensus, raise target ambition, plan infrastructure development, or explore alternatives.*
- **Communication of scenario results:** *What approaches have been implemented to communicate the government scenarios? How transparent the scenario assumptions and results have been communicated? For example, annual publication, workshops, online visualisation platforms of scenarios.*

### 3) SCENARIO CAPACITY BUILDING

- **Planning capacity in government:** *What type of scenario planning capacity does the government have and how are they being enhanced? For instance, does government possess inhouse modelling capacity or are these skills rather outsourced? How are the cooperation with external institutions such as consultancy firms, research institutes, development partners in enhancing the scenario-based planning capacity?*

## SESSION FORMAT

**Session outline:** Each session will last **90 minutes**, except Sessions 1 and 6 that will include a 30 minutes opening and closing remarks respectively, and will consist of two country presentations, followed by a brief intervention by one of LTES partner institutions, before a discussion and Q&A session. A polling feature may be added to interact with the audience.

The Webinar Series will also include a specific session dedicated to African Power Pools.

**Dates:** The webinar series will run over three weeks, following the tentative schedule below (Table 1).

**Virtual Platform:** Zoom.

**Language:** Events will be in English and French (with simultaneous translation between both languages available).

**Table 1 Tentative schedule of sessions**

Date and time (GMT +3)	Speakers*
<b>Session 1: Kenya and Egypt</b>	
29 November 12:00 – 13:30	Presentations: <ul style="list-style-type: none"> <li>• <b>Grace Njeru</b>, Senior Economist, Kenya Electricity Transmission Company (KETRACO)</li> <li>• <b>Hala Ramadan</b>, Director of Economic &amp; Environment Studies Department, New and Renewable Energy Authority (NREA), Egypt</li> <li>• <b>Ali Ahmed Ali</b>, Department Director, International Cooperation, Ministry of Electricity and Renewable Energy, Egypt</li> </ul> Moderator: <ul style="list-style-type: none"> <li>• <b>Asami Miketa</b>, Senior Programme Officer, International Renewable Energy Agency (IRENA)</li> </ul>
<b>Session 2: Eswatini and CSIR South Africa</b>	
1 December 12:00 – 13:30	Presentations: <ul style="list-style-type: none"> <li>• <b>Nolwazi Khumalo</b>, Senior Energy Officer, Ministry of Natural Resources and Energy, Eswatini</li> <li>• <b>Clinton Carter-Brown</b>, Energy Centre Head, Council for Scientific and Industrial Research (CSIR), South Africa</li> </ul> Moderator: <ul style="list-style-type: none"> <li>• <b>Christopher Gross</b>, Team Leader, GET.transform</li> </ul>
<b>Session 3: Nigeria</b>	
3 December 12:00 – 13:30	Presentation: <ul style="list-style-type: none"> <li>• <b>Eli Jidere Bala</b>, Director General, Energy Commission, Nigeria</li> </ul> Moderator: <ul style="list-style-type: none"> <li>• <b>Linus Mofor</b>, Senior Environmental Affairs Officer, Energy, Infrastructure and Climate Change, African Climate Policy Centre, UNECA</li> <li>• <b>Mekalia Paulos</b>, Research Officer, UNECA</li> </ul>
<b>Session 4: Regional Power Pools</b>	
<b>Postponed</b>	Presentations: <ul style="list-style-type: none"> <li>• TBC</li> </ul> Moderator: <ul style="list-style-type: none"> <li>• <b>Peter Kinuthia</b>, Senior Energy Advisor, African Union Commission (AUC)</li> <li>• AUDA-NEPAD</li> </ul>
<b>Session 5: Morocco and Tunisia</b>	
13 December	Presentations:

12:00 – 13:30	<ul style="list-style-type: none"> <li>• <b>Fatiha Machkori</b>, Head of the Observation and Forecasting Division, Ministry of Energy, Mines and Environment, Morocco</li> <li>• <b>Fethi Hanchi</b>, Director General, National Agency for Energy Management (ANME), Tunisia</li> </ul> Moderator: <ul style="list-style-type: none"> <li>• <b>Moussa Adama</b>, Manager at Power System Development, African Development Bank (AfDB)</li> </ul>
<b>Session 6: Botswana, Ghana and Côte d’Ivoire (TBC)</b>	
15 December 12:00 – 13:30	Presentations: <ul style="list-style-type: none"> <li>• <b>Oagile Johannes Setlhare</b>, Principal Energy Engineer, Department of Energy of the Ministry of Mineral Resources, Green Technology and Energy Security, Botswana</li> <li>• TBC</li> </ul> Moderator: <ul style="list-style-type: none"> <li>• AUDA-NEPAD</li> </ul>

\*Honorary titles omitted

## TARGET AUDIENCE & OUTREACH

Government officials, researchers, private sector, non-governmental organisations and intergovernmental organisations that provide energy planning support for countries in Africa and elsewhere.

## IMPLEMENTATION PARTNERS

- **African Union Commission**  
The AUC provides the overall policy oversight and leadership for the African Single Electricity Market (AfSEM).
- **AUDA-NEPAD**  
AUDA-NEPAD leads the development of African Continental Electricity Master Plan (CMP).
- **African Development Bank**  
AfDB is a partner in the CMP development.
- **GET.transform under GIZ**  
GET.transform is a technical partner of the LTES Network and supports communication efforts.
- **Government of Kenya**  
The government of Kenya, through the Ministry of Energy, is a member of the LTES Network.
- **United Nations Economic Commission for Africa**  
UNECA is hosting the Energy Modelling Platform for Africa.

## FURTHER INFORMATION

For more information, please get in touch with IRENA at [LTES@irena.org](mailto:LTES@irena.org).

More information on the structure and findings of IRENA’s LTES Network can be found in the report “[Scenarios for the Energy Transition: Global experience and best practices](#).” and the network website [here](#).