Long-term energy scenarios (LTES) for developing national energy transition plans in Africa
Webinar series

[Energy Planning Process in Kenya ]

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OUTLINE

▪ BACKGROUND
▪ LCPDP
  ▪ DEVELOPMENT
  ▪ APPROVAL
  ▪ IMPLEMENTATION AND POLICY
▪ CAPACITY BUILDING
Ministry of Energy deals with energy except Petroleum which is under the Ministry of Petroleum and Mining

Two legislation govern Energy - Energy Act, 2019 and Petroleum Act, 2019

The Energy Act, 2019 provides for the development of an Integrated National Energy Plan (INEP) every 3 years - with respect of coal, renewable energy and electricity

INEP shall consolidate

- All national energy service provider plans
- County energy plans

5 Sub-Energy plans and committees

- Electricity (Least Cost Power Development Plan)
- Energy access
- Bio-energy
- Energy efficiency and conservation
- Energy resource and development
LCPDP DEVELOPMENT PROCESS

▪ LCPDP is developed by a committee:
  ▪ All energy sector entities - Technical and Oversight committee

▪ Skills of LCPDP committee members
  ▪ Economists
  ▪ Engineers
  ▪ Scientists
  ▪ Financial Analysts

▪ The team has competencies in demand forecasting, generation expansion planning, transmission expansion planning and financial modeling

▪ The LCPDP Technical Team undertakes all the simulations and drafts the report

▪ Occasionally consultants are engaged to assist the committee
LCPDP APPROVAL PROCESS

- Approval process
  - Previously EPRA was the convenor of all the committees
  - Oversight Committee reviews and approves the draft report
  - The report is presented to EPRA board of directors
  - Circulated to all utilities for implementation

- Ongoing Process amendment
  - KPLC is the convenor of the Committees
  - Oversight Committee reviews and approves the draft report
  - Boards of Directors of all participating public sector agencies formally approve the LCPDP.
  - Concurrence is sort from the Cabinet Sub-committee
LCPDP IMPLEMENTATION AND POLICY

Implementation
- All projects are procured inline with the LCPDP.
- Entities are responsible for the procurement of projects under their purview
- **New requirement** – any variations from the LCPDP to be subjected to the entire LCPDP approval process

Policy
- LCPDP provides a linkage of the electricity subsector with other National development plans
- Informs national targets and Energy policies
- Guides infrastructure development in the sub-sector
PLANNING CAPACITY

- Technical committee members have modelling capacity in:
  - demand forecasting
  - generation expansion planning
  - transmission expansion planning
  - financial modeling

- Continuously engaging with development partners for training of the committee and acquisition of new planning tools

- Exploring opportunities of partnering with local universities and research bodies
Thank you for your attention