

【Strengthening African Economy】

Regional Integration and Business climate : Energy transition towards the green economy

Status Quo and Challenges

- The lack of power utilities' capacity of O&M and the stability issue of power networks due to the increase of VRE (solar and wind) cause difficulty of stable power supply.
- The energy access still remains the critical issue (the biggest population without energy access in Africa). The huge potential of renewable energy is not fully utilized due to the grid situation.
- The enabling investment environment is not ready yet. The pandemic has worsened the financial status of power utilities and made power supply to health facilities as the critical challenge.

Direction of Activities towards TICAD-8

- **Green Energy x Stable Supply:**
 - ✓ To support power system stabilization (incl. central load dispatching center) in relation to increased VRE, capacity development on O&M of power utilities, and energy efficiency improvement in collaboration with Japanese power companies and full utilization of DX technologies
 - ✓ To develop geothermal energy through test drilling (in Djibouti and Ethiopia) in addition to exploration survey and other support to construct power plant
- **Green Energy x Access:**
 - ✓ To accelerate development of power pools in Africa in collaboration with development partners such as the U.S. for FOIP, private actors, etc.
 - ✓ To expand power grid while reducing distribution loss
 - ✓ To promote off-grid electrification through fully utilizing private investment
- **Green Energy x Business:**
 - ✓ In order to mitigate risks in the early stage of the project, the following support measures for businesses will be considered: finance, provision of local information through JICA offices or JICA volunteers, and provision of information on SHEP approach (JICA's original approach towards the improvement of living for small-scale farmers)



Contributing SDGs



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Japanese company's Efforts to Date



To develop an electricity master plan for power supply and trunk power grid in Angola, JICA expert is holding a training session for counterparts.



JICA is supporting the renovation and expansion of the power transmission and distribution network to stabilize and improve the efficiency of the power supply in Rwanda.



JICA is supporting capacity building for geothermal development in Ethiopia, a country with abundant geothermal resources. The photo shows steam extraction at the Aluto Langano geothermal power plant.



In Ghana, JICA is supporting to upgrade a substation for stable power supply.



The Olkaria geothermal power plant is located 100 kilometers northwest of Nairobi, Kenya. Steam turbines made in Japan are being used.



As part of JICA's special program for long-term trainees studying in Japan, they visited a manufacturer of valves for geothermal power generation.