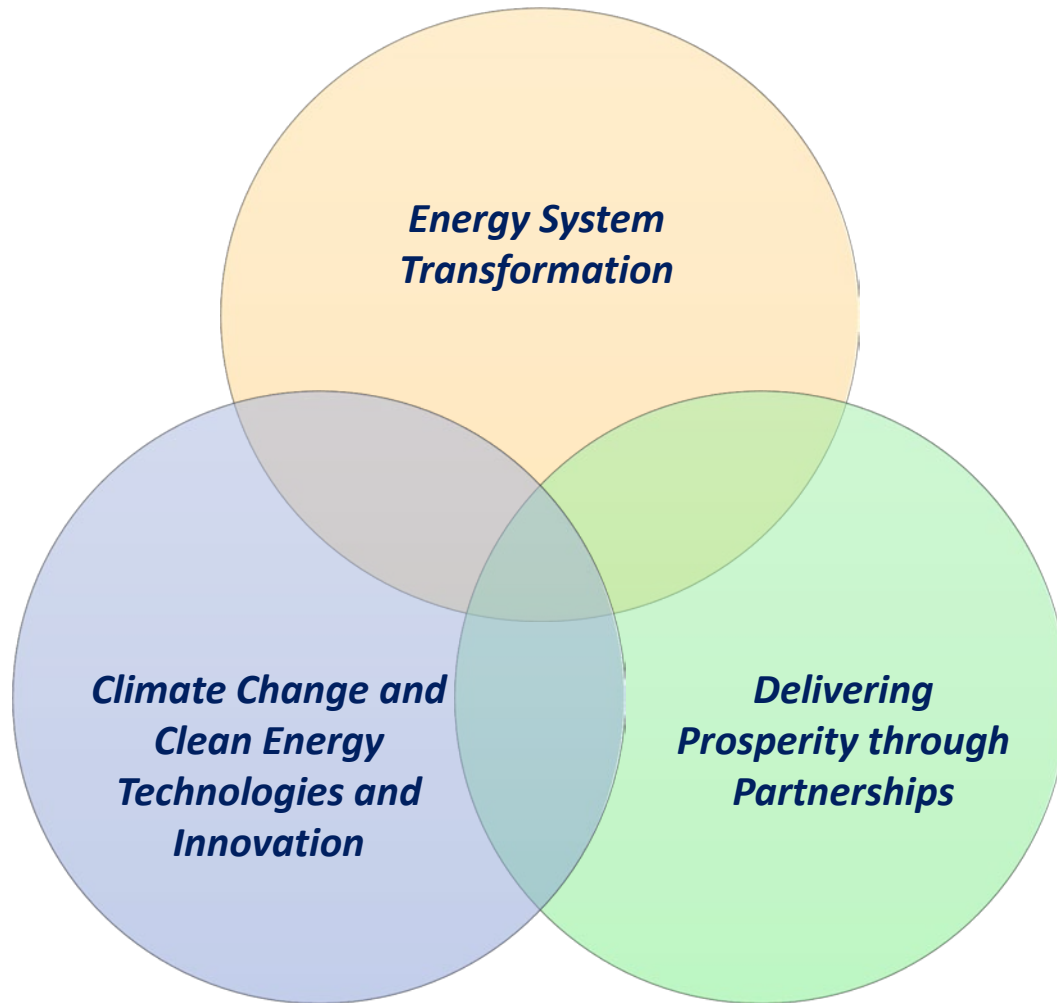


UNIDO Seminar
Japan-UNIDO Multi-stakeholder Cooperation Dialogue
“Partnering to Achieve SDGs”
Session I: “UNIDO’s activities to achieve SDGs”

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17 April, 2018

Powering Innovation for Prosperity



SDG 9: Inclusive & Sustainable Industrial Development



SDG 7: Sustainable Energy



SDG 13: Climate Action



LCET Programme

| | |
|-------------------|---|
| OBJECTIVE: | Facilitating industrial development through dissemination of low carbon low emission technologies from Japan to African countries |
| COUNTRIES: | Kenya, Ethiopia, and Morocco |
| BUDGET: | Approximately JPY 1.2 billion |
| DONOR: | Ministry of Economy, Trade and Industry (METI) |
| SINCE: | 2013 |



- Kenya:** Demonstrating 2 x 10kW ULH-MHP systems in Mwea
Capacity building, etc.
- Ethiopia:** Demonstrating 1 x 10kW ULH-MPH and PV hybrid system in Fentale
Capacity building, etc.
- Morocco:** Demonstrating redox flow battery system in Quarzazate
Capacity building, etc.

* ULH-MHP: ultra-low head micro hydropower



Community members observing works on the ULH-MHP system in Fentale (Ethiopia)

Before & After installation of the ULH-MHP at Mwea Irrigation Canal in Kenya



Geothermal Power Programme

BUDGET: Approximately JPY 1.5 billion
DONOR: Ministry of Economy, Trade and Industry (METI)
SINCE: 2017

1. Small Geothermal Power Generation Project

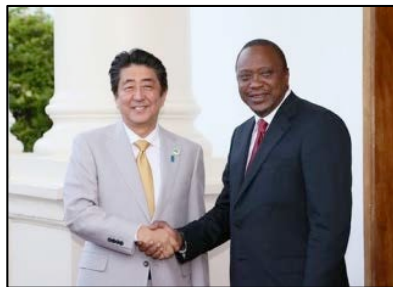
- Demonstration of small wellhead geothermal power in the Rift Valley.
- Early generation
- Reservoir development:
 - Reduction in development cost as captive power
 - Assessment of steam and reservoir through actual power generation

2. O&M Enhancement Project with IoT Technologies

- O&M strengthening for Olkaria power station
- Introduction of IoT solutions to strengthen O&M through digitization
- Collaboration with JICA



(Source: Website of Ministry of Foreign Affairs of Japan)



Olkaria IV

(Source: Public Relations Office, Government of Japan)

PV Clean Water Project

BUDGET: Approximately USD 260,000
DONOR: Ministry of Foreign Affairs (MOFA)
SINCE: 2018

- Improving public health by PV-powered water sanitation systems in Ethiopia
- Ecological system with slow sand filtration
 - Physical filtration (sand, gravel) + biological filtration (algae, microorganism)
 - Low running cost (no use of membrane filters and coagulants)
 - Easy operation and maintenance, without technicians, by local community

