

# Sustainable Energy Services for Rural DRC

## Democratic Republic of Congo

### THE PROJECT

The project will create a sustainable model for providing clean, reliable and affordable electricity through the installation of a mini-grid plant, on the island of Idjwi, in the province of South Kivu, in the villages of Kashara and Kimomo. Kashara and Kimomo villages are adjacent and have a total population of 11,000 people. It will be a hybrid photovoltaic-hydroelectric plant and the relative distribution line, (installed power 150 kWp, storage system with a capacity of 350 kWh). For the construction of the plant, the micro-hydroelectric plant connected to the Mulinga River, (stopped for 4 years), will be reactivated. It is estimated that the plant will be able to meet the energy needs of all commercial establishments and public offices in the villages, and 80% of families. Lastly, a training activity is planned for local officials and entrepreneurs.

### BACKGROUND

The Democratic Republic of the Congo has significant energy potential, in terms of renewable energy sources, (solar, wind, hydroelectric, or biomass, etc.). However, access to energy services is still very scarce, (between 12% and 15% of the total population), and there is a strong disparity between the various provinces of the country.

### OBJECTIVE

Reduction of vulnerability to climate change, in the long term, and reduction of greenhouse gas emissions through the use of renewable sources.

### PLANNED ACTIVITIES

- Preliminary design of the off-grid plant and its distribution network.
- Tender for the supply of the plant's distribution network, and related installation.
- Support for local entrepreneurship through: quantitative-qualitative analysis of the market and entrepreneurship in the 2 villages; training of at least 80 entrepreneurs in commercial and financial activities in the energy sector; establishment of a € 40,000 fund to subsidize the purchase of efficient electrical equipment necessary for the company, provided by trained entrepreneurs.
- 10-day training aimed at 15 officials of the Congolese Ministry of the Environment and of the public authorities responsible for renewable energy and rural electrification.

### SUBJECTS

#### Promoters:

- Italian Ministry for the Environment, Land and Sea (MATTM)
- Ministry of the Environment, Nature Conservation and Sustainable Development of the Democratic Republic of the Congo

#### Actuators:

AVSI Foundation

### DURATION

April 2019 – April 2022

### TOTAL COST OF THE INITIATIVE

€ 1,015,401

Lender: MATTM

Other lenders: ---

### CONTRIBUTION TO

- ➔ **NDC RD Congo:** 17% reduction of greenhouse gas emissions, within 2030, according to the *Business as Usual* (BAU), scenario.
- ➔ **2030 Agenda:** Goal 7 - Sustainable energy; Goal 13 - Actions for climate.

### OUTPUT

- Hybrid photovoltaic-hydroelectric plant with relative distribution line installed on the Idjwi island in Lake Kivu. ✓
- 80 entrepreneurs trained for commercial and financial activities in the energy sector. ✓
- Establishing a subsidy system for the purchase of efficient electrical equipment. ✓
- 15 public officials trained in renewable energy and rural electrification. ✓

✓ completed ✓ in progress