



## FACTSHEET

# ETHIOPIAN-GERMAN ENERGY COOPERATION

Ethiopia and German are committed to foster a secure and sustainable supply and utilization of energy, which is also guided by international climate protection efforts. Both countries recognize the importance of private sector participation in promoting renewable energy and energy efficiency, as well as the fundamental role of communication strategies to raise public awareness of energy transition.



Ethiopian Minister for Water and Irrigation H.E. Dr. Habtamu Itefa with Ethiopian Ambassador H.E. Mulu Solomon and supporting team at the Berlin Energy Transition Dialogue (BETD) 2022, March 2022.

## Origin and goals

The **Ethiopian-German Energy Cooperation** is based on an agreement of 2019 between the then Ethiopian Minister of Water, Irrigation and Energy (MoWIE) and the German Minister for Economic Affairs and Energy (BMWi). It forms part of the GIZ-implemented global project “**Bilateral Energy Partnerships**”, which has been commissioned by the German Federal Ministry for Economic Affairs and Energy (BMWi) to foster the worldwide energy transition through high-level intergovernmental political dialogue combined with practical goal-oriented project work. It aims at invigorating **private sector investment in a future-proof energy system**. This means realizing ample opportunities from the ever-falling cost of renewable energy,

technological advances and innovations such as decentralized energy resource planning, digitalization and optimized asset integration. The cooperation recognizes the special **communication needs** of the very dynamic energy sector and aims to nurture an anticipative, forward-looking attitude of sector stakeholders with excitement about shaping a sustainable future.

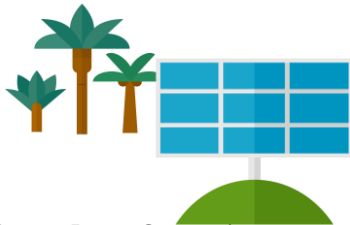
Social and environmental aspects are pivotal assessment criteria and the “do-no-harm” principle is applied in the possible realization of supported pilot projects. Special attention is given to promoting gender equality and benefits for low-income groups.

## Areas of Cooperation and Projects

The project-based cooperation fosters the energy transition through cooperation in the following areas:

- 1. Innovation Competition Decentralized Energy Solutions:** Joint call to innovators from academic institutions and young entrepreneurs in Ethiopia on innovative technologies, business models and innovations for renewables-based rural electrification, on-grid and off-grid. The competition builds on cooperation with renowned German energy research institutions and Ethiopian experts. 10 Finalists have been identified and received training. 4 **Young Journalists** have been supported under this activity to report on the energy transition.
- 2. Optimization of Gilgel Gibe II Hydroelectric Power Plant:** Building on German expertise, this large hydropower station has been rehabilitated using spare parts provided under the EG-EC. Advanced digital systems have been provided to enable the operator Ethiopian Electric Power to optimize maintenance and minimize related cost by real-time monitoring of components state through artificial-intelligence systems, which makes the facility a **pilot for digitalization**. Staff training programs are facilitating the sustainable use of this systems and operation of the plant.
- 3. Energy Transition Seeds:** Showcases of energy transition technologies at highly visible institutions to give investors and policy makers insight into viability and use of the following approaches:
  - Realize savings through **energy efficiency**
  - Optimize **reliability** of energy supply (solar PV setup, battery storage, interfaces)
  - **Ensuring availability** of critical systems through prioritisation
  - **Harmonizing energy needs** (electricity vs. heat)
  - **Implementation support** (expertise, equipment)
- 4. Energy Transition Dialogue:** Exchange on technological trends and policies
  - **Communication** (materials, events, networking)

After completing the systems, **investor services** (design advisory, financing packages) are to be integrated in cooperation with sectoral and financial institutions.



### PROJECT FACTS

**Project Name:** Ethiopian-German Energy Cooperation

**Partners:** Ethiopian Ministry of Water and Energy (MoWE)  
German Federal Ministry for Economic and Climate Action (BMWK)

**Project Duration:** 11/2019 – 12/2022

**Budget:** EUR 2,600,000

**Sector Priority Areas:** Renewable Energy, Private Sector, Education

**Implemented by:** Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH

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On behalf of the Federal Ministry for Economic Affairs and Energy (BMWi)

*Pelton turbine assembly under rehabilitation at Ethiopian Electric Power's Gilgel Gibe II Hydroelectric Power Plant (Yem Special Woreda)*