Addis POWER

“The Leading Power Exhibition in Ethiopia!”

14 - 17 October 2020

2nd International Power, Electricity, Lighting and Water Technologies Exhibition
Millemium Hall - Addis Ababa, Etiyopya
Addis Power is one of the largest exhibition exclusively on power, energy, lighting and water technologies which will be held at Millenium Hall - Addis Ababa, the business and trade capital of Africa, on October 14 - 17, 2020.

Ethiopia has abundant renewable energy resources and has the potential to generate over 60,000 megawatts (MW) of electric power from hydroelectric, wind, solar and geothermal sources. As a result of Ethiopia’s rapid GDP growth over the previous decade, demand for electricity has been steadily increasing. Despite Ethiopia’s huge energy potential, the country is experiencing energy shortages as it struggles to serve a population of over 100 million people and meet growing electricity demand which is forecast to grow by approximately 30% per year.
Why Ethiopia?

$ 15 Billion import in 2017
2\textsuperscript{nd} fastest GDP growth in the world
6\textsuperscript{th} purchasing power in Africa
7\textsuperscript{th} largest economy in Africa ($ 80.8 Billion nominal GDP)
$ 916,5 Million import (in 2017 power - electronics materials import value)

The rapid development of the economy and the intense population growth dramatically increases the need for the country’s water resources, energy and especially electricity and modern technologies.
With 4 Mega Projects, Ethiopia Waiting for Investors!

- $20.1 BN
  - 14 Hydropower Plants Construction Projects (long term)

- $4.1 BN
  - Grand Ethiopian Renaissance Dam

- $2.8 BN
  - Koysha Hydroelectric Dam

- $1.5 BN
  - Ethiopia Electrification Programme
Grand Ethiopian Renaissance Dam Project

The project is located approximately 500 km north west of the capital Addis Ababa, in the region of Benishangul - Gumaz along the Blue Nile. At the end of the works, the Grand Ethiopian Renaissance Dam will be the largest dam in Africa: 1,800 m long, 155 m high and with a total volume of 74,000 million m³.

The project involves the construction of a main dam in Roller Compacted Concrete (RCC), with 2 power stations installed at the foot of the dam. The power stations are positioned on the right and left banks of the river and comprise 16 Francis turbines with a total installed power of 6,000 MW and estimated production of 15,000 GWh per year. The project is completed by a 15,000 m³/s capacity concrete spillway and a rockfill saddle dam 5 km long and 50 m high, both located on the left bank.
4 Mega Projects

Koysha Hydroelectric Project

The contract for the creation of the plant (in terms of Engineering, Procurement and Construction) was signed on 28 March 2016 by Ethiopian Electric Power, which is financing the project, and by Salini Impregilo, appointed to build the plant.

Five years of work are envisaged for a megaproject worth two and a half billion euro, including the construction of a 175 metre-high dam in Roller Compacted Concrete with a holding capacity of 6,000 million cubic metres.

The project, located in the south west of the Country, will be the fourth plant in a waterfall dam system on the Omo river. Indeed, the Gibe I and Gibe II plants have already been completed upstream, while Gibe III is 98% completed.

The Koysha hydroelectric plant, together with that of Gibe III and with the Grand Ethiopian Renaissance Dam on the Blue Nile (GERD), will enable Ethiopia to become a leading player in the production of energy in the African market.

Ethiopia Electrification Program

The development objective of Electrification Program Project is to increase access to electricity in Ethiopia and to enhance institutional capacity for planning and implementation of the government’s electrification program. The National Electrification Program (NEP) aims to achieve universal electrification by 2025. The NEP will be carried out in phases, with the immediate focus being on the early years of the Program (2018–2023). The NEP is organized into three pillars addressing the dominant challenges of the sector: (a) Pillar 1: Ongrid electrification; (b) Pillar 2: Off-grid service provisioning; and (c) Pillar 3: Sector capacity and institutional reform.
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» Meter & Monitoring System
» Power Generation Equipment / Generator
» Power Supplies / Batteries / UPS
» Relay & Converter
» Renewable Energies - Biomass / Solar / Wind
» Stand-by Power Generation

» Switchboard / Switchgear
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» Tanks/Reservoir Lining Materials
» Pipeline Coating Systems
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» Leak Detection Equipment
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