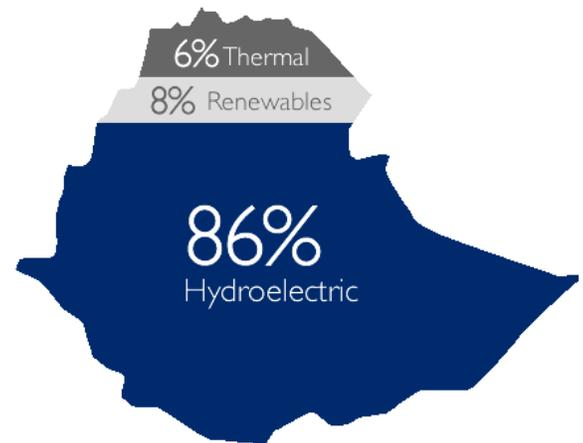


## Ethiopia Energy Sector Overview

The Government of Ethiopia (GoE), under its latest Growth and Transformation Plan (GTP), envisions transitioning from a developing country to a middle-income country by 2025. Ethiopia's ability to achieve this ambitious goal in such key sectors as agriculture and industry is significantly constrained by current challenges in the power sector. Although Ethiopia is endowed with abundant renewable energy resources and has a potential to generate over 60,000 megawatts (MW) of electric power from hydroelectric, wind, solar and geothermal sources, currently it only has approximately 2,300 MW of installed generation capacity to serve a population of over 95 million people. The targets for increasing generation capacity to 10,000 MW established under GTP I will be met by completion of two major hydro power plants in 2017 – 2018. The current GTP II has a new target to increase generation capacity to over 17,000 MW by 2020, with an overall potential of 35,000 MW by 2037, which would help sustain Ethiopia's continued economic growth and enable it to become a regional renewable energy hub in East Africa. The GoE has determined that private sector investment is critical to achieve these aggressive power generation targets, but acknowledges that it lacks sufficient experience with Independent Power Projects (IPPs). The GoE also faces other major challenges in expanding the country's energy system, including the need to rehabilitate an aged distribution system with high losses, ensure more efficient operation and maintenance of the expanded system, become a creditworthy purchaser of electricity from IPPs, address foreign exchange constraints, reform tariffs to allow for full-cost recovery, and deliver more power to the majority of the population living off-grid.

### Current Generation Input Mix



23%  
Connectivity  
to electricity

2,261 MW  
Current installed  
generation capacity

8%  
Rural access  
to electricity

3¢ Residential  
tariff rate

Source: Ethiopian Ministry of Water,  
Irrigation and Energy (2015)

## Power Africa Support

Power Africa is supporting Ethiopia's energy development strategy through a wide range of technical assistance in cooperation with Sweden, Norway, the World Bank including the International Finance Corporation, European Commission, the UN, DFID, and other development partners:

- Assist with the development of new laws and regulations that will facilitate private-sector led IPP investments in geothermal, solar, wind, hydro, and biomass projects
- Assist with negotiations and bring to financial closure the GoE's initial landmark IPP for the Corbetti and Tulu Moya Geothermal Projects that will generate up to 1,000 MW
- Assist with new IPPs and GoE's desire to transition to competitive tendering

- Assist with the planning, operation, and maintenance of generation, transmission, and distribution systems as they are expanded
- Develop the grid code that specifies the rules and responsibilities for all energy stakeholders
- Develop a plan to reduce distribution losses and assist with introduction of “smart grid technology”
- Improve GoE contracting for supply, installation, and construction to ensure full realization of lifecycles for equipment and facilities
- Strengthen the Ethiopian Electricity Authority to perform as an effective regulator and assist with determining cost reflective tariff rates
- Support access to off-grid electricity

In addition, Power Africa is supporting the Eastern Africa Power Pool (EAPP), which is based in Ethiopia. The EAPP is mandated to facilitate cross border trading of renewable energy at the lowest possible cost and efficiently manage a regionally integrated system. Power Africa support includes development of common codes for the regional network, tracking interconnecting transmission lines, and training for EAPP and member countries to analyze and operate the regional power system.



## About Power Africa

Power Africa is a U.S. Government-led initiative launched by President Obama in 2013. Power Africa’s goals are to increase electricity access in sub-Saharan Africa by adding more than 30,000 megawatts of cleaner, more efficient electricity generation capacity and 60 million new home and business connections.

Power Africa works with African governments and private sector partners to remove barriers that impede sustainable energy development in sub-Saharan Africa and to unlock the substantial wind, solar, hydropower, natural gas, biomass, and geothermal resources on the continent.

## Mobilizing Partnerships & Investments

Power Africa draws on the combined expertise and abilities of 12 U.S. Government agencies, the World Bank Group, the African Development Bank, the Government of Sweden, the Government of Norway, the UK Department for International Development, the International Renewable Energy Agency, African governments, and private sector partners. Power Africa’s “Toolbox” approach offers a range of resources to advance key projects on the electricity grid and, through the *Beyond the Grid* sub-initiative, in places where the national grid doesn’t reach.

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## For more information on Power Africa:

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