



ETHIOPIA

**Overview of PPP Framework and Energy Opportunities
Lisbon, Portugal**

ENERGY. IN ONE PLACE

By:

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Country profile



Rapid and sustainable economic growth

- One of the fastest growing economies in the world
 - 10.8% average growth over the past 12 years
 - Broad based Economic growth
 - Shared growth: poverty reduction, life expectancy improvement, etc..
 - Stable economic and political environment

Young and productive population

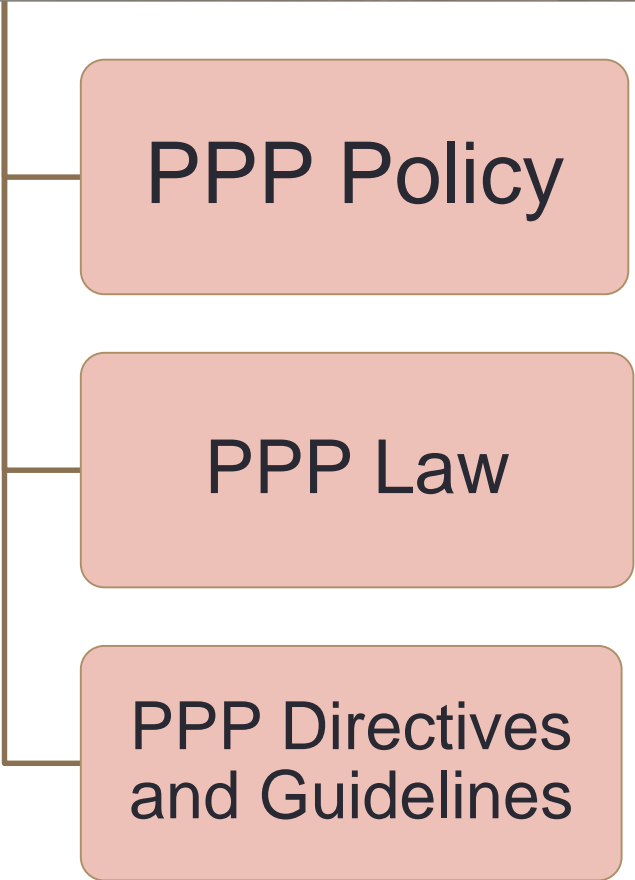
- Second most populous country in Africa
 - With over 100 million population, growing at 2.3 million annually
 - Young and productive age group accounts for 60% of the population

Favourable destination for FDI

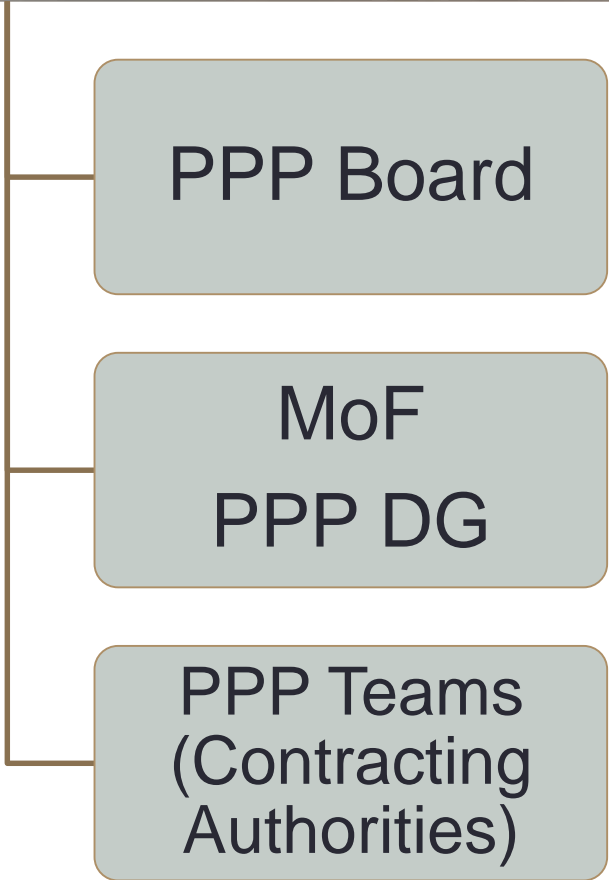
- One of the top destinations for foreign direct investment (FDI) 2016/ USD3.2b, 2017 expected to grow by 25%
 - Ethiopia accounts for 18.5% of all jobs created through FDI in Africa

PPP Framework

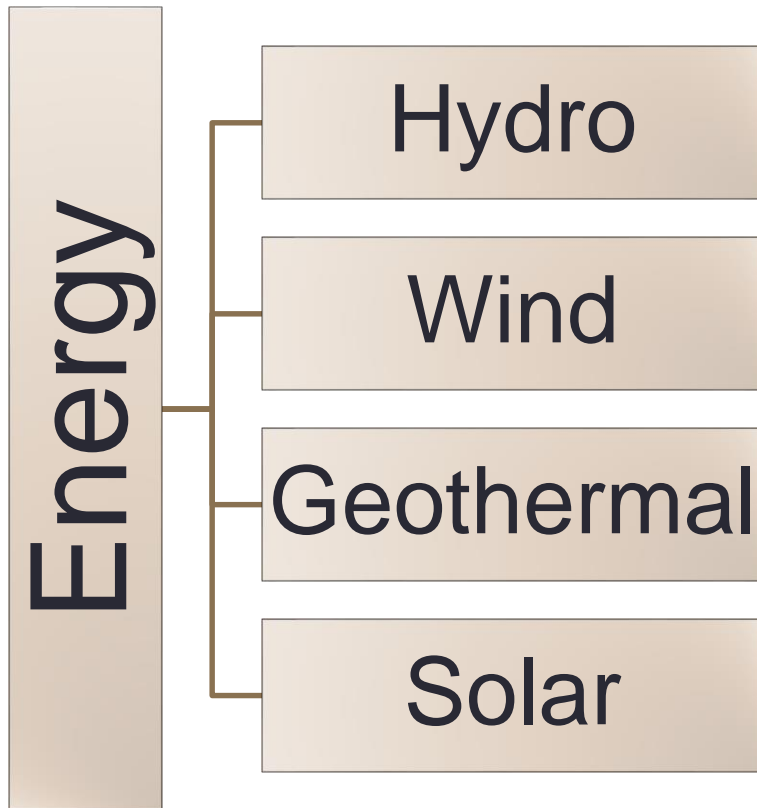
Policy Framework



Institutional Framework



PPP Policy Focus and Opportunities

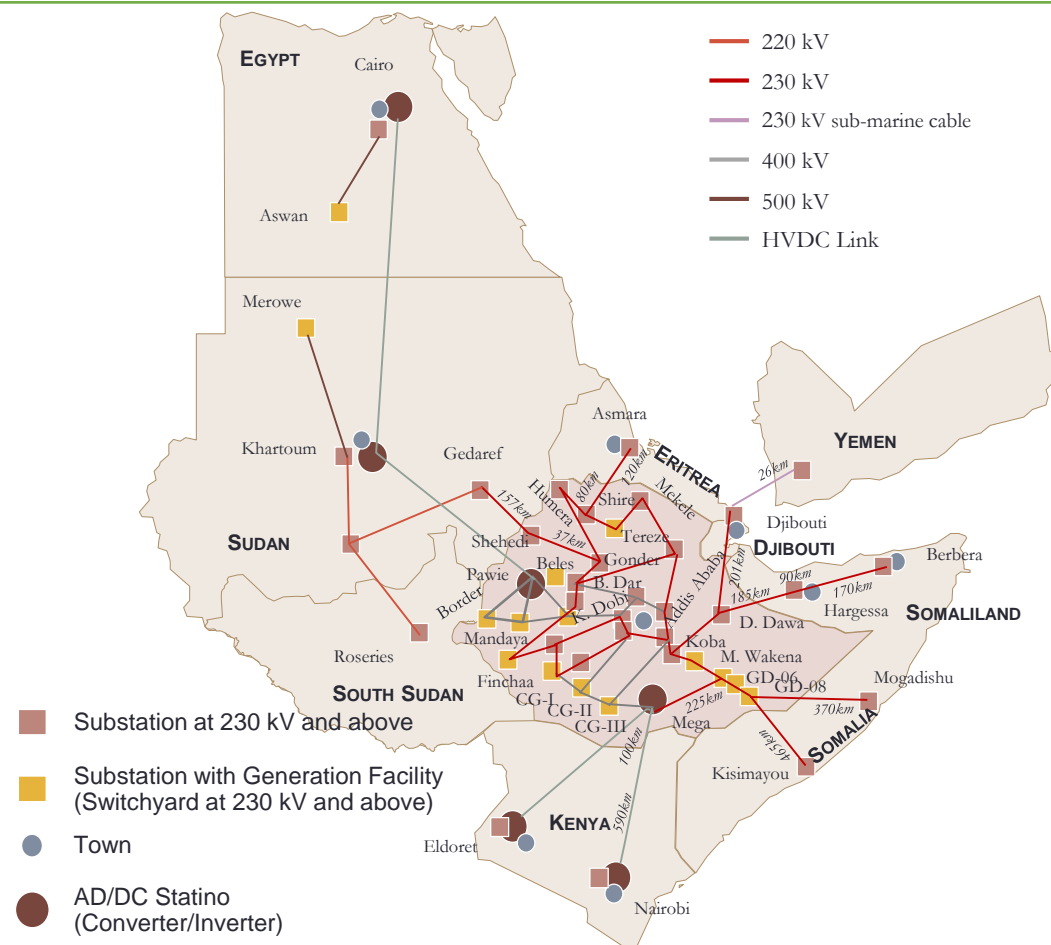


1. ENERGY

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,

- Private sector participation is allowed in all power generation sources and is expected to fund substantial amount of of GTPII targets

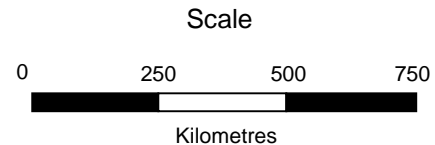
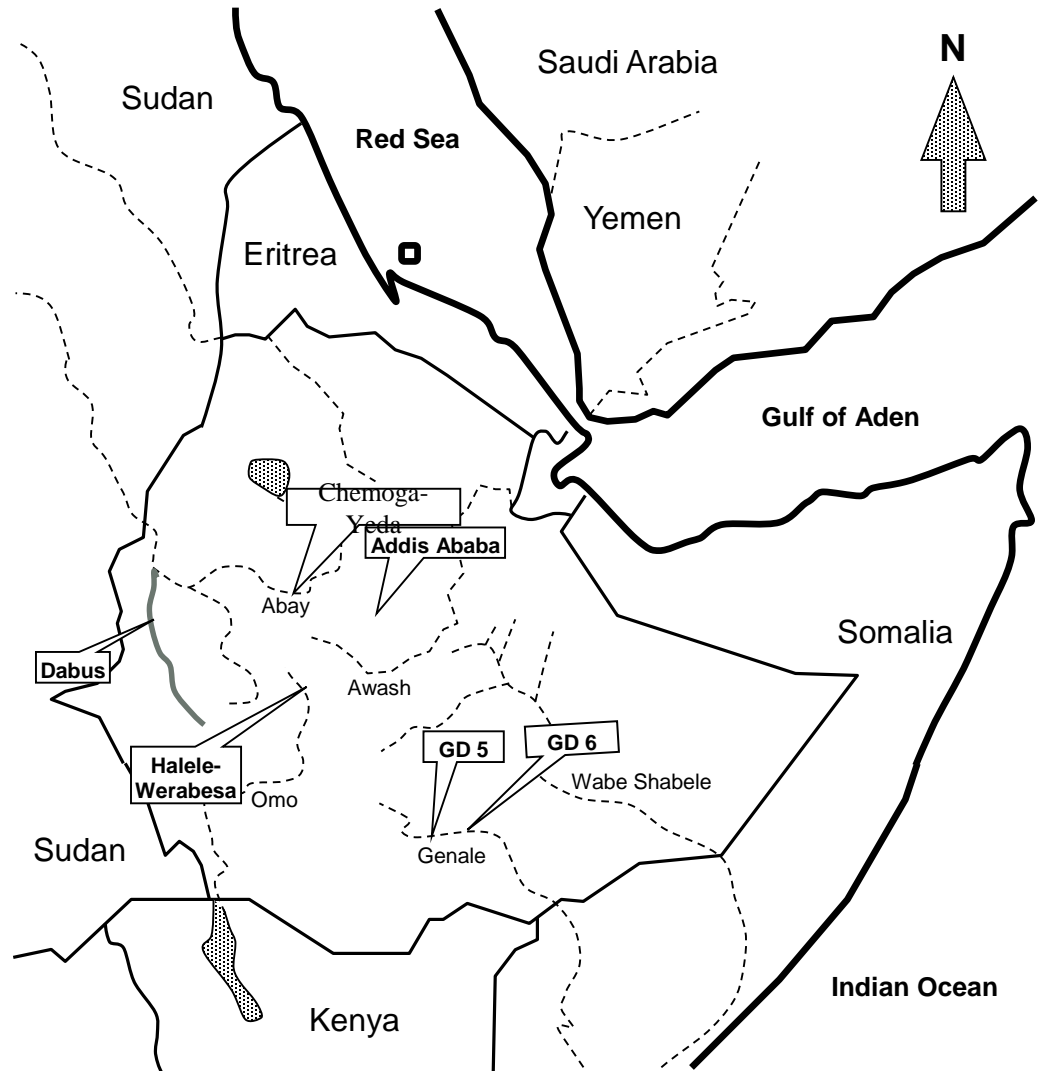




- Ethiopia has a huge hydropower resources of a total power capacity of c. 45,000 MW which are currently utilized only at less than **5%**
- Energy is becoming an important source of export and foreign exchange earnings thanks to increased generation and interconnection capacities. Total electrical energy exports are expected to rise to 1,000 MW in the next 2-3 years
- Ethiopia also benefits from important geothermal (10,000 MW total capacity) and wind (1,350 GW total capacity) resources' potential
- GTP II envisages that energy production capacity will increase from current c. 4,000 MW to c. 17,000 MW, while energy transmission infrastructure will almost double by 2020. Electricity access coverage is expected to reach 90% of population by 2020

Hydro

Name of the Project	Installed capacity in MW	Cost est. in MUSD
Genale Dawa 6	469.8	246.0
Chemoga-Yeda	280.0	729.0
Dabus	798.0	984.0
Halele-Warabessa	424.0	1196.0
Genale Dawa 5	100.0	387
2,071.8		4,725



Solar

Name of the Project	Installed capacity in MW	Cost est. in MUSD
Solar Dicheto	125	150
Solar Gad	125	150
Humera	100	120
Mekle	100	120
Welenchetti	150	165
Weranso	150	165
Solar Hurso	125	150
Metema	125	150

Total 1,000 1,170

Source: EEP



S/N	Project	Capacity	Estimated Project Cost
Power projects (14)			MUSD
1	Hydro Power Genale Dawa 6	469MW	793
2	Hydro Power Genale Dawa 5	100MW	387
3	Hydro Power Chemoga-Yeda I & II	280MW	729
4	Hydro Power Halele Warabessa	424MW	1.2bil
5	Hydro Power Dabus	798MW	984
6	Scaling Solar IPP Gad - Phase 1	125MW	150
7	Scaling Solar IPP Dicheto - Phase 1	125MW	150
8	Mekele Solar	100MW	120
9	Humera Solar	100MW	120
10	Welenchetti Solar PV project	150 MW	165
11	Weranso Solar PV Project	150 MW	165
12	Metema Solar PV Project	125 MW	150
13	Hurso Solar PV Project	125 MW	150
14	Transmission and substation project	17 sub-projects	1,100
Transport Projects (3)			
15	Expressway Adama - Awash	125 KM	440
16	Expressway Awash - Mieso	72 KM	230
17	Expressway Mieso – Dire Dawa	160KM	445

The details of which Ethiopia is doing on Energy will be discussed on June 13, 2019 here at AEF conference session – Thursday.

Those of you who are interested are invited to join the discussion.

Thank You