

**Federal Democratic Republic of Ethiopia
Public Private Partnership, Directorate General**

PPP PROJECT PIPELINE 2020/21

**Federal Democratic Republic of Ethiopia
Public Private Partnership, Directorate General**

March 2021

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**2020/21 PUBLIC PRIVATE PARTNERSHIP PROJECTS
OPPORTUNITIES**

**Federal Democratic Republic of Ethiopia
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Introduction

The purpose of this booklet is therefore, to provide short and brief information on the PPP pipeline projects. to the public and concerned stakeholders.

In this regard the Ministry of Finance, (PPP Directorate General), has taken the initiative to implement 1050 Mw of solar power, 1848Mw of Hydro power, 710Mw of Wind power and 297km toll road project, Affordable house project and Petroleum depot project in PPP modality. Five contracting authorities, Ethiopia Electric Power (EEP), Ethiopia Roads Authority (ERA), Federal Housing Corporation Ethiopia Petroleum Supply Enterprise and Ministry of Health have been identified as contracting authority for the above referred project as per the existing PPP policy and proclamation.

In relation to this, as of March 2021 the PPP Board approved Twenty-three (23) PPP pipeline projects which include eight solar photovoltaic projects, six hydro-power projects, three toll road projects, five wind power projects, one Affordable Housing Development project, and one Petroleum Storage Depot project.

Two solar PV projects namely Gad and Dicheto are awarded to the winner Private developer and the rest six (6) solar PV projects are on the request for proposal (RFP) stage. The other projects will be tendered after conducting the necessary studies.

I. PPP Scaling Solar Projects



Gad Solar PV Project-Phase 1

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Project Title/Name	Gad Solar PV Project
Contracting Authority	Ethiopian Electric Power
Project Description	The Gad Project is expected to consist of a solar PV Power plant with a capacity to generate 125 MWac. A maximum of 236 hectares of land shall be used for the installation of the project. The solar PV project will have a potential to transmit the generated electrical energy via a newly built High Voltage (HV) transmission line existing substation in Dire Dawa.
Approximate Cost	\$132.6 million
Procurement Mode	Competitive bidding
The PPP Proposed Structure: (e.g. Concession, BOT, DBO, Management and Operating etc.)	BOT(DBFOM)
The Proposed partnership period	20 years
Region/Area	Somali Regional State
Sector: (i.e. Transport, Energy, etc.)	Energy
Current Status: (i.e. feasibility, under evaluation, bidding stage etc.)	The project is awarded to a winning bidder i.e. ACWA power and Power Purchasing Agreement (PPA) and Implementation Agreement (IA) has been signed with EEP and MoF respectively.

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Dicheto Solar PV Project-Phase 1

Project Title/Name	Dicheto Solar PV Project-Phase 1
Contracting Authority	Ethiopian Electric Power
Project Description	The Dicheto Project will consist of a solar PV Power plant With a capacity to generate 125 MWac .A maximum of 236 hectares of land shall be used for the installation of the project .The solar PV project will have a potential to transmit the generated electrical energy via a newly built High Voltage(HV) transmission line to the existing substation ,approximately 1.8 km far from the project location near, Dicheto town
Approximate Cost	\$132.6million
Procurement Mode	Competitive bidding
The PPP Proposed Structure : (e.g. Concession, BOT, DBO, Management and Operating etc.)	BOT(DBFOM)
The Proposed partnership period	20 years
Region/Area	Afar Regional State
Sector: (i.e. Transport, Energy, etc.)	Energy
Current Status :(i.e. feasibility, under evaluation, bidding stage etc.)	The project is awarded to a winning bidder i.e. ACWA power and Power Purchasing Agreement (PPA) and Implementation Agreement (IA) has been signed with EEP and MoF respectively.

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Mekele Solar PV Project

Project Title/Name	Mekele Solar PV Project
Contracting Authority	Ethiopian Electric Power
Project Description	The project is located about 765 km North of Addis ababa in Tigray regional state. The geographic coordinates of the site is 13°31'55"N. 39°35'27'E. The project is planned to an AC generating capacity of 100MW. It is expected to generate 260GWh energy annually.
Approximate Cost	\$105.58 million
Procurement Mode	Competitive bidding
The PPP Proposed Structure :(e.g. Concession, BOT, DBO, Management and Operating etc.)	BOT(DBFOM)
The Proposed partnership period	20 years
Region/Area	Tigray Regional State
Sector: (i.e. Transport, Energy, etc.)	Energy
Current Status :(i.e. feasibility, under evaluation, bidding stage etc.)	Alternative site is under investigation due to high social impact in the selected site.

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Humera Solar PV Project

Project Title/Name	Humera Solar PV Project
Contracting Authority	Ethiopian Electric Power
Project Description	The project is located at Humera, in Tigray regional state at Latitude 14°15'54, Longitude 'N. 36°37'8'E. It is 985 km North West of Addis Ababa. The project is planned to an AC generating capacity of 100MW. It is expected to generate 175GWh energy annually.
Approximate Cost	\$105.4820 million
Procurement Mode	Competitive bidding
The PPP Proposed Structure :(e.g. Concession, BOT, DBO, Management and Operating etc.)	BOT(DBFOM)
The Proposed partnership period	20 years
Region/Area	Tigray Regional State
Sector: (i.e. Transport, Energy, etc.)	Energy
Current Status :(i.e. feasibility, under evaluation, bidding stage etc.)	Technical and ESIA study are under investigation.

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Wellenchitti Solar PV Project

Project Title/Name	Wellenchitti Solar PV Project
Contracting Authority	Ethiopian Electric Power
Project Description	The proposed 150 MW grid connected solar PV power plant located at Wellenchitti in Oromiya regional state, Ethiopia would cover an area of about 300ha Solar radiation potential and Wellenchitti is estimated to be 5.60 to 7.21 kwh/M2. The proposed PV Power plant has a DC capacity of 187.5 MWp or 150 MWac.
Approximate Cost	\$159.3 million
Procurement Mode	Competitive bidding
The PPP Proposed Structure :(e.g. Concession, BOT, DBO, Management and Operating etc.)	BOT(DBFOM)
The Proposed partnership period	20 years
Region/Area	Oromia Regional State
Sector: (i.e. Transport, Energy, etc.)	Energy
Current Status :(i.e. feasibility, under evaluation, bidding stage etc.)	Site is under investigation to proceed to the next step.

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Weranso Solar PV Project

Project Title/Name	Weranso Solar PV Project
Contracting Authority	Ethiopian Electric Power
Project Description	The Weranso Project will consist of a solar PV Power plant With a capacity to generate 150 MWac A maximum of 250 hectares shall be used for the installation of the project The solar PV project will transmit the generated electrical energy via a newly built High Voltage(HV) transmission line to the existing substation ,approximately 4 km far from the project location near, Mile town in Afar regional state.
Approximate Cost	\$159.3 million
Procurement Mode	Competitive bidding
The PPP Proposed Structure :(e.g. Concession, BOT, DBO, Management and Operating etc.)	BOT(DBFOM)
The Proposed partnership period	20 years
Region/Area	Afar Regional State
Sector: (i.e. Transport, Energy, etc.)	Energy
Current Status :(i.e. feasibility, under evaluation, bidding stage etc.)	It is in the bidding process.

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Metema Solar PV Project

Project Title/Name	Metema Solar PV Project
Contracting Authority	Ethiopian Electric Power
Project Description	The Gad Project is expected to consist of a solar PV Power plant With a capacity to generate 125 MWac .A maximum of 236 hectares of land shall be used for the installation of the project .The solar PV project will have a potential to transmit the generated electrical energy via a newly built High Voltage (HV) transmission line existing substation in Metema.
Approximate Cost	\$150 million
Procurement Mode	Competitive bidding
The PPP Proposed Structure (e.g. Concession, BOT, DBO, Management and Operating etc.)	BOT(DBFOM)
The Proposed partnership period	20 years
Region/Area	Amhara Regional State
Sector: (i.e. Transport, Energy, etc.)	Energy
Current Status :(i.e. feasibility, under evaluation, bidding stage etc.)	Site is under investigation to proceed to the next step.

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Gad-II Solar PV Project

Project Title/Name	Gad-II Solar PV Project
Contracting Authority	Ethiopian Electric Power
Project Description	The project is among the eight solar projects approved by PPP Board to be implemented as PPP. The proposed 125 MW grid connected solar photovoltaic power plant located in Somali Regional States and it cover an area of about 227 ha. The project site is located 9.865238° latitude and 41.887476° longitude. The elevation of site is about 831 meter above
Approximate Cost	\$150 million
Procurement Mode	Competitive bidding
The PPP Proposed Structure (e.g. Concession, BOT, DBO, Management and Operating etc.)	BOT(DBFOM)
The Proposed partnership period	20 years
Region/Area	Somali
Sector: (i.e. Transport, Energy, etc.)	Energy
Current Status :(i.e. feasibility, under evaluation, bidding stage etc.)	it is in the bidding process.

I I. PPP Hydro Power Projects



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Hydro Power Genale Dawa -6

Project Title/Name	Hydro Power Genale Dawa-6
Contracting Authority	Ethiopian Electric Power
Project Description	Genale Dawa 6 plant will have 60m high asphalt core rock fill dam.16km of water way tunnel, underground power house to accommodate 2 X125 MW turbine generators. The reservoir will have storage volume capacity of total 183.6M.m3 and live storage volume of 39.6M.m3. Total inundated area by the reservoir is smaller to 8.15 km2. The gross head is 234m and rated turbine discharge is 120m3/s.
Approximate Cost	\$793 million
Procurement Mode	Competitive bidding
The PPP Proposed Structure :(e.g. Concession, BOT, DBO, Management and Operating etc.)	BOT(DBFOM)
The Proposed partnership period	30 years
Region/Area	Somali Regional State
Sector: (i.e. Transport, Energy, etc.)	Energy
Current Status :(i.e. feasibility, under evaluation, bidding stage etc.)	In the process of hiring consultant to conduct feasibility study.

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Chemoga Yeda I & II Hydropower Project

Project Title/Name	Chemoga Yeda I & II Hydropower
Contracting Authority	Ethiopian Electric Power
Project Description	<p>The Chemoga-Yeda stage 1 and 2 hydropower projects will be implemented in two stages. The project includes 5 dams with spillways, water ways of total length of 22km tunnels and 2 underground powerhouses to accommodate two sets turbine generators with balance of plant and two substations.</p> <p>Yada 1 and Yada 2 will have plant capacity of 162MW and 118 MW with annual energy generation of 627 and 460 GWh per year respectively.</p> <p>Thus, Chemoga Yada 1 and 2 will have total plant capacity of 280MW with 1087GWhr per year</p>
Approximate Cost	\$429 million
Procurement Mode	Competitive bidding
The PPP Proposed Structure :(e.g. Concession, BOT, DBO, Management and Operating etc.)	BOT(DBFOM)
The Proposed partnership period	30 years
Region/Area	Amhara Regional State(Debre Birhan)
Sector: (i.e. Transport, Energy, etc.)	Energy
Current Status :(i.e. feasibility, under evaluation, bidding stage etc.)	In the process of hiring consultant to conduct feasibility study.

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Dabus Hydropower Project

Project Title/Name	Dabus Hydropower
Contracting Authority	Ethiopian Electric Power
Project Description	<p>Dabus ch 130 Stage 1, will have RCC dam of height 55m, crest length 1610m, Head Race tunnel of 5.5km; Surface power house. Annual inflow 4,592Mm³, Total Reservoir storage volume 2,470M.m³ and Live storage 2,335M.m³. Max Net head 143m, Rated turbine flow 240m³/s. Installed capacity 304 MW and Average annual energy 1,293GWh. Plant factor 0.51.</p> <p>Dabus ch 108 Stage 2: will have RCC dam of height 82m, crest length 444m, Head Race tunnel of 6.2km; Surface power house. Annual inflow 4,768Mm³, Total Reservoir storage volume 53M.m³ and Live storage 18M.m³. Max Net head 221m. Rated turbine flow 250m³/s. Installed capacity 304 MW and Average annual energy 2,140GWh. Plant factor 0.49.</p> <p>Total stage 1&2 plant capacity 798MW and total Average annual energy 3,433GWh.</p>
Approximate Cost	\$984 million
Procurement Mode	Competitive bidding
The PPP Proposed Structure (e.g. Concession, BOT, DBO, Management and Operating etc.)	BOT(DBFOM)
The Proposed partnership period	30 years
Region/Area	Oromia Regional State(Debre Birhan)
Sector: (i.e. Transport, Energy, etc.)	Energy
Current Status :(i.e. feasibility, under evaluation, bidding stage etc.)	In the process of hiring consultant to conduct feasibility study.

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Halele Werabersa I & II Hydropower Project

Project Title/Name	Halele Werabersa I & II Hydropower
Contracting Authority	Ethiopian Electric Power
Project Description	<p>Halele Stage 1: will have Rock fill dam of height 80m, crest length Tailrace tunnel of 5 km; Underground powerhouse. Annual inflow 3,300Mm³, Total Reservoir storage volume 2,240M.m³ and Live storage 1,720M.m³. Inundated are 456 km². Max Net head 89m, Rated turbine flow 124 m³/s. Installed capacity 96MW and Annual Firm energy 460GWh. Plant factor 0.55.</p> <p>Werrabessa Stage 2: will have Rockfill dam height 42m, crest length. Head Race & Tail race tunnel of 8.8km; Underground power house. Annual inflow 87.8m³/s, Total Reservoir storage volume 184M.m³ and Live storage 108M.m³. Inundated are 13.4 km². Rated head 296m, Rated turbine flow 128m³/s. Installed capacity 326 MW and Annual Firm energy 1,574GWh. Plant factor 0.55.</p> <p>Total Stage 1&2 plant capacity 424MW and total Average annual energy 2,034GWh.</p>
Approximate Cost	1.2 billion USD
Procurement Mode	Competitive bidding
The PPP Proposed Structure :(e.g. Concession, BOT, DBO, Management and Operating etc.)	BOT(DBFOM)
The Proposed partnership period	30 years
Region/Area	Oromia Regional State(Debre Birhan)
Sector: (i.e. Transport, Energy, etc.)	Energy
Current Status :(i.e. feasibility, under evaluation, bidding stage etc.)	In the process of hiring consultant to conduct feasibility study.

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Hydro Power Genale Dawa -5

Project Title/Name	Hydro Power Genale Dawa-5
Contracting Authority	Ethiopian Electric Power
Project Description	Genale Dawa 5 plant will have 58m high RCC, waterway tunnel, surface powerhouse to accommodate 2x50MW turbine generators. The reservoir will have storage volume capacity of total 138 M.m3 and live storage volume of 138M.m3. The gross head is 91m and rated turbine discharge is 167 m3/s. Thus, Genale Dawa-5 will have total plant capacity of 100MW.
Approximate Cost	\$387 million
Procurement Mode	Competitive bidding
The PPP Proposed Structure (e.g. Concession, BOT, DBO, Management and Operating etc.)	BOT(DBFOM)
The Proposed partnership period	30 years
Region/Area	Somali Regional State
Sector: (i.e. Transport, Energy, etc.)	Energy
Current Status :(i.e. feasibility, under evaluation, bidding stage etc.)	In the process of hiring consultant to conduct feasibility study.

III. PPP Expressway Projects



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Adama Awash Expressway

Project Title/Name	Adama Awash Expressway
Contracting Authority	Ethiopian Roads Authority
Project Description	The section from Adama to Awash, a total of 125Km, were planned to be upgraded to expressway standard. Part of this section (60Km) of the road is planned to be constructed as a toll road from the public money borrowed from the Africa Development Bank. The remaining section (65Km) of the road up to awash is identified to be developed by the private sector through PPP
Approximate Cost	\$226 million
Procurement Mode	Competitive bidding
The PPP Proposed Structure (e.g. Concession, BOT, DBO, Management and Operating etc.)	BOT(DBFOM)
The Proposed partnership period	25-30 years
Region/Area	Oromia Regional State
Sector: (i.e. Transport, Energy, etc.)	Transport
Current Status :(i.e. feasibility, under evaluation, bidding stage etc.)	Feasibility study is undergoing.

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Awash-Mieso Expressway

Project Title/Name	Awash-Mieso Expressway
Contracting Authority	Ethiopian Roads Authority
Project Description	The section of the road stretches from Awash to Mieso, a total of 72Km. The road is planned to be upgraded to expressway standard by the participation of the private sector through PPP
Approximate Cost	200 million USD
Procurement Mode	Competitive bidding
The PPP Proposed Structure :(e.g. Concession, BOT, DBO, Management and Operating etc.)	BOT(DBFOM)
The Proposed partnership period	25-30 years
Region/Area	Oromia Regional State
Sector: (i.e. Transport, Energy, etc.)	Transport
Current Status :(i.e. feasibility, under evaluation, bidding stage etc.)	Feasibility study is undergoing

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Mieso-Dire Dawa Expressway

Project Title/Name	Mieso-Dire Dawa Expressway
Contracting Authority	Ethiopian Roads Authority
Project Description	The section of the road stretches from Mieso to Dire Dawa, a total of 160Km. The road is planned to be upgraded to expressway standard by the participation of the private sector through PPP
Approximate Cost	445 million USD
Procurement Mode	Competitive bidding
The PPP Proposed Structure :(e.g. Concession, BOT, DBO, Management and Operating etc.)	BOT(DBFOM)
The Proposed partnership period	25-30 years
Region/Area	Oromia and Somali Regional States
Sector: (i.e. Transport, Energy, etc.)	Transport
Current Status :(i.e. feasibility, under evaluation, bidding stage etc.)	Feasibility study is undergoing

IV. Wind Power Projects



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Aysha III Wind Power Project

Project Title/Name	Aysha III Wind Power Project
Contracting Authority	Ethiopian Electric Power
Project Description	The Asyha Wind Farm Project is expected to consist of a Wind Power Plant with a capacity to generate 150 MWac. A maximum of 9,500 hectares of land shall be used for the installation of the project. The wind farm project will have a potential to transmit the generated electrical energy via a newly built High Voltage (HV) transmission line.
Approximate Cost	235.47 million USD
Procurement Mode	Competitive bidding
The PPP Proposed Structure :(e.g. Concession, BOT, DBO, Management and Operating etc.)	BOT(DBFOM)
The Proposed partnership period	20-30 years
Region/Area	Somali Regional States
Sector: (i.e. Transport, Energy, etc.)	Energy
Current Status :(i.e. feasibility, under evaluation, bidding stage etc.)	Feasibility study is ongoing

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Debre Berhan Wind Power Project

Project Title/Name	Debre Berhan Wind Power
Contracting Authority	Ethiopian Electric Power
Project Description	The Debre Berhan wind project is located approximately 27 km southwest of Debre Berhan city, in the Semien Shewa Zone of the Amhara Region and in North Shewa Zone of Oromiya Regional State, in central Ethiopia. Both the site and the city are located along the Ethiopian Highway 2 that runs from Addis Ababa, capital of Ethiopia, to the north of the country and Djibouti. The Debre Berhan Wind Farm Project is expected to consist of a Wind Power Plant with a capacity to generate 126 MWac. A maximum of 7,980 hectares of land shall be used for the installation of the project. The wind farm project will have a potential to The nearest existing substation to the wind site is located at Debre Berhan city, approximately 25 km away from site. Debre Berhan wind farm could be connected using a Line-In, Line-Out (LILO) connection to the 230 kV line close to site.
Approximate Cost	211.345 million USD
Procurement Mode	Competitive bidding
The PPP Proposed Structure :(e.g. Concession, BOT, DBO, Management and Operating etc.)	BOT(DBFOM)
The Proposed partnership period	20-30 years
Region/Area	Amhara Regional States
Sector: (i.e. Transport, Energy, etc.)	Energy
Current Status :(i.e. feasibility, under evaluation, bidding stage etc.)	Feasibility study is ongoing

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Adigala Wind Farm Project

Project Title/Name	Adigala Wind Farm Project
Contracting Authority	Ethiopian Electric Power
Project Description	<p>The Adigala site is located approximately 1 km north of the centre of Adigala town in the Sitti zone, within the Somali region of Ethiopia. The site is approximately 50 km southwest of the nearest point of the border with Somalia, and 60 km southeast of the nearest point of the border with Djibouti. Adigala has a population of approximately 11,000 people, belonging to various mainly Afro-Asiatic- speaking ethnic groups, with the Issa Somali predominant.</p> <p>The Adigala Wind Farm Project is expected to consist of a Wind Power Plant with a capacity to generate 150 MWac. A maximum of 9,500 hectares of land shall be used for the installation of the project. The wind farm project will have a potential to transmit the generated electrical energy via a newly built High Voltage (HV) transmission line.</p>
Approximate Cost	255.48 million USD
Procurement Mode	Competitive bidding
The PPP Proposed Structure :(e.g. Concession, BOT, DBO, Management and Operating etc.)	BOT(DBFOM)
The Proposed partnership period	20-30 years
Region/Area	Somali Regional States
Sector: (i.e. Transport, Energy, etc.)	Energy
Current Status :(i.e. feasibility, under evaluation, bidding stage etc.)	EEP is preparing to conduct Feasibility Study.

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Dire Dawa Wind Farm Project

Project Title/Name	Dire Dawa Wind Farm
Contracting Authority	Ethiopian Electric Power
Project Description	<p>The Dire Dawa site is located approximately half way between Djibouti and Addis Ababa and roughly 112 km from the border of Somalia. The closest major population centre to site is Dire Dawa, which has a population of approximately 440,000 people, while a smaller town, Shinile, is around 12 km from the centre of the site. Dire Dawa city is located 328 km from Djibouti port and 453 km from Addis Ababa. The sites are located between around 900 m and 1000 m elevation.</p> <p>The Dire Dawa Wind Farm Project is expected to consist of a Wind Power Plant with a capacity to generate 150 MWac. A maximum of 9,500 hectares of land shall be used for the installation of the project. The wind farm project will have a potential to transmit the generated electrical energy via a newly built High Voltage (HV) transmission line.</p>
Approximate Cost	255.48 million USD
Procurement Mode	Competitive bidding
The PPP Proposed Structure :(e.g. Concession, BOT, DBO, Management and Operating etc.)	BOT(DBFOM)
The Proposed partnership period	20-30 years
Region/Area	Dire Dawa
Sector: (i.e. Transport, Energy, etc.)	Energy
Current Status :(i.e. feasibility, under evaluation, bidding stage etc.)	EEP is preparing to conduct Feasibility Study.

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Deday Wind Farm Project

Project Title/Name	Deday Wind Farm
Contracting Authority	Ethiopian Electric Power
Project Description	The Deday (Dicheto) site is located in the Afar Region of Ethiopia, within the Elidar woreda, approximately 70 km by road from the capital of the Afar Region, Semera. The site is located off the main national highway #1 from Djibouti to Addis Ababa. The Deday Wind Farm Project is expected to consist of a Wind Power Plant with a capacity to generate 134 MWac. A maximum of 8,500 hectares of land shall be used for the installation of the project. The wind farm project will have a potential to transmit the generated electrical energy via a newly built High Voltage (HV) transmission line
Approximate Cost	288.9 million USD
Procurement Mode	Competitive bidding
The PPP Proposed Structure (e.g. Concession, BOT, DBO, Management and Operating etc.)	BOT(DBFOM)
The Proposed partnership period	20-30 years
Region/Area	Afar regional state
Sector: (i.e. Transport, Energy, etc.)	Energy
Current Status :(i.e. feasibility, under evaluation, bidding stage etc.)	EEP is preparing to conduct Feasibility Study.

V. Affordable Housing Development Project



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Affordable Housing Development Project

Project Title/Name	Affordable Housing Development
Contracting Authority	Federal Housing Corporation
Project Description	The project will be implemented in Addis Ababa through PPP. Low- and middle-income population of Addis Ababa (approximately 79800 households or 399000 people expected to be benefited by the project)
Approximate Cost	2.4 Billion USD
Procurement Mode	Competitive bidding
The PPP Proposed Structure :(e.g. Concession, BOT, DBO, Management and Operating etc.)	BOT(DBFOM)
The Proposed partnership period	20-30 years
Region/Area	Addis Ababa
Sector: (i.e. Transport, Energy, etc.)	Housing
Current Status :(i.e. feasibility, under evaluation, bidding stage etc.)	Under Feasibility Study.

VI. Petroleum Storage Depot Project



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Petroleum Storage Depot Project

Project Title/Name	Petroleum Storage Depot
Contracting Authority	Ethiopia Petroleum Supply Enterprise
Project Description	Ethiopia is a landlocked country and has no domestic refining capacity. This raises the risk of continuous petroleum supply and urgent action is needed to improve the security of petroleum supply. The only supply line for petroleum products is the Horizon oil terminal in Djibouti, from where products are being distributed via tank trucks, as there are no railway connections or pipelines for transporting petroleum products to the demand centers. In order to meet the ever-increasing demand of fuel consumption, it is worthwhile to ensure reliable and continued supply of products and reduce vulnerability to supply disruptions. This can only be attained by containing sufficient fuel reserve commensurate to demand swell.
Approximate Cost	140 Million USD
Procurement Mode	Competitive bidding
The PPP Proposed Structure :(e.g. Concession, BOT, DBO, Management and Operating etc.)	BOT(DBFOM)
The Proposed partnership period	20 years
Region/Area	Dukem
Sector: (i.e. Transport, Energy, etc.)	Energy
Current Status :(i.e. feasibility, under evaluation, bidding stage etc.)	Feasibility study is ongoing