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Ethiopian Electric Utility

FACTS IN **BRIEF** 2021/22

JUNE 2023

ETHIOPIAN ELECTRIC UTILITY

Establishment

The Ethiopian Electric Utility (EEU), fully government-owned public enterprise, was established in 2014 after having undergone restructuring made on the Ethiopian Electric Power Corporation (EEPCO).

EEU is responsible for universal electrification programs, administration of 45/66 kV sub-transmissions, administration of distribution networks, and distribution and sale of electric power to customers throughout the country.

The Utility is working to outreach the supply of electricity and to expand the necessary infrastructure in all parts of the country.

Vision

Become the utility that fully energizing the Ethiopian economy and people in 2030.

Mission

Become the utility that under spins the economy and social transformation through delivery of cost effective, safe, reliable and high-quality power. Bulk power purchase and sale, construct & operate off grid generation, sub-transmission and distribution networks. EEU shall strive towards achieving international standards of customer care through sustained capacity building, operational and financial excellence, state-of-the-art technologies while ensuring highest standards of corporate governance and ethics.

Values & beliefs

- Safety
- Integrity
- Care -customer service
- Respect
- Operational excellence
- Sustainability
- Innovation

Duties and Responsibilities

- Conducting feasibility studies, designing off-grid electricity generation systems, and constructing sub transmission lines and substations with a capacity of up to 66 kilovolts.
- Collaborates with consultants and contractors to outsource relevant activities.
- The utility also takes charge of operating and maintaining off-grid electricity generation systems, transmission lines, substations, and distribution networks up to 66 kilovolts.
- Administering, operating and maintaining off-grid electricity generation, transmission lines, substation and distribution lines up to 66 kilo volt.
- Selling and purchasing bulk electric power on transmission line up to 66 kilo volt.
- Leasing transmission lines up to 66 kilo volt level.
- Carrying out national electricity expansion works.
- Proposing new tariff.
- Undertakes any other related activities necessary to fulfill its mission.

Note - All data included herein are facts issued by the Utility by the end of 2014 E.C (2021/22 G.C) budget year.

EEU's Facts in 2014 E.C (2021/22) Budget Year

Organizational Structure

Ethiopian Electric Utility is providing services through 11 regional as well as two city administration utility offices which oversee 28 districts, 554 service centers and 6,448 satellites under their precincts throughout the country.

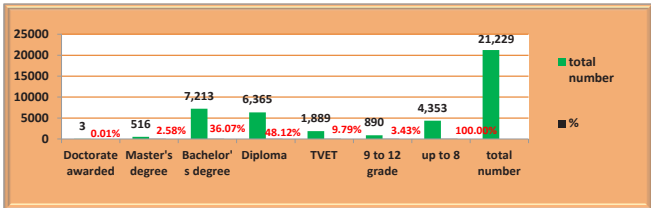
Power Supply System

Currently the Utility maintains two different power supply systems; namely, the Interconnected System (ICS), which is mainly supplied from the grid system basically from hydropower plants, and the Self-Contained System (SCS), which consists of mini-hydro power plants, solar mini grids and a number of isolated diesel generating units that are widely spread over the country.

Man power

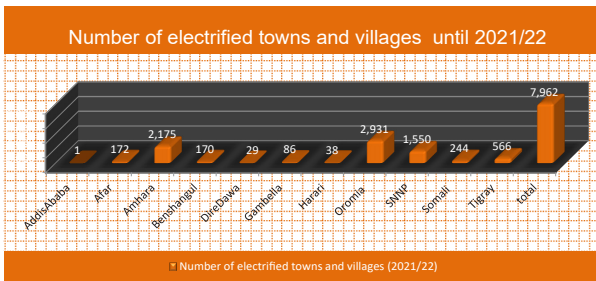
At the end of 2021/22 fiscal year, the total number of employees of the Utility was 26,180. Among these, 21,229 were permanently employed and the remaining 4,951 were employed in contractual basis.

PERMANENT EMPLOYEES IN EDUCATION STATUS



Electrification Status until 2021/22

The number of electrified towns and rural villages until 2021/22 is - 7,962.



Transmission lines, Distribution lines and Substations

The electric power is generated from the main hydro power plants and transmitted through high voltage transmission lines rated 400 kV / 230 kV / 132 kV / 66 kV and 45 kV and also distributed by the distribution lines with the capacity of 33kv, 19kv and 15 kV.

In 2021/2022 Ethiopian Electric Utility administers transmission lines, distribution lines, substations, solar mini-grids and others with various capacities stated below.

Transmission lines

- 45 kV transmission lines 177 km
- 66 kV transmission lines 1,731 km

Grand totals (kms) – 1,908

Distribution lines

- Medium voltage distribution lines (15/33 kv) – 54,300 km.
- Low voltage distribution lines (380/220 volt) – 60,704 km.

Distribution transformers

- Total number of distribution transformers is - 44,977.

Substations

- Total number of 45 kV substations is 10.
- Total number of 66 kV substations is 29.
- The total number of EEU substations is 39.

Diesel power plants

- Total number of SCS diesel power plants is 21.

Solar mini-grids

- Solar mini-grid power plants are – 11.

Energy Bill Collection

- Total energy bill collection 20.94 billion birr.

Annual energy bill collection growth

Fiscal year	Annual energy bill collection (billion birr)	Annual energy bill collection growth (billion birr)
2014/15	3.52	
2015/16	3.65	0.13
2016/17	4.08	0.43
2017/18	5.09	1.01
2018/19	7.18	2.09
2019/20	11.06	3.88
2020/21	15.45	4.39
2021/22	20.94	5.49

Customers by Tariff Categories

Post Paid Customers by Tariff Categories

Regions	Tariff Category		
	postpaid commercial	postpaid commercial own	sum postpaid commercial
Addis Ababa	80,540	236	80,776
Afar	7,072	27	7,099
Amhara	82,556	317	82,873
Benishangul	5,536	20	5,556
Diredawa	8,112	25	8,137
Gambela	2,454	20	2,474
Harari	5,479	24	5,503
Oromia	110,861	997	111,858
Somali	6,606	20	6,626
SNNPR	51,600	142	51,742
Tigray	55,890	172	56,062
EEU Total	416,706	2,000	418,706

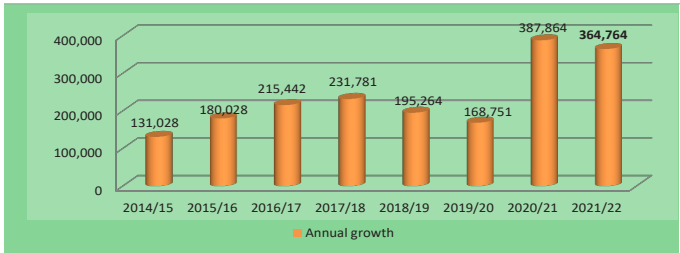
Regions	Tariff Category			
	postpaid domestic	postpaid domestic active staff	postpaid domestic retired staff	sum postpaid domestic
Addis Ababa	410,990	7,150	1,948	420,088
Afar	32,749	223	1	32,973
Amhara	620,571	4,670	257	625,498
Benishangul	28,294	342	1	28,637
Diredawa	44,239	1,023	36	45,298
Gambela	16,933	128	19,778	36,839
Harari	40,813	365	8	41,186
Oromia	1,019,738	8,197	819	1,028,754
Somali	38,618	266	5	38,889
SNNPR	427,368	2,647	101	430,116
Tigray	241,767	2,890	113	244,770
EEU Total	2,922,080	27,901	23,067	2,973,048

Regions	Tariff Category			Total number of EEU's postpaid customer
	postpaid High Voltage industrial	postpaid Low Voltage industrial	sum postpaid industrial	
Addis Ababa	342	4,826	5,168	506,032
Afar	15	267	282	40,354
Amhara	395	13,441	13,836	722,207
Benishangul	6	472	478	34,671
Diredawa	45	537	582	54,017
Gambela	10	233	243	39,556
Harari	11	319	330	47,019
Oromia	780	24,808	25,588	1,166,200
Somali	15	274	289	45,804
SNNPR	133	7,102	7,235	489,093
Tigray	58	2,908	2,966	303,798
EEU Total	1,810	55,187	56,997	3,448,751

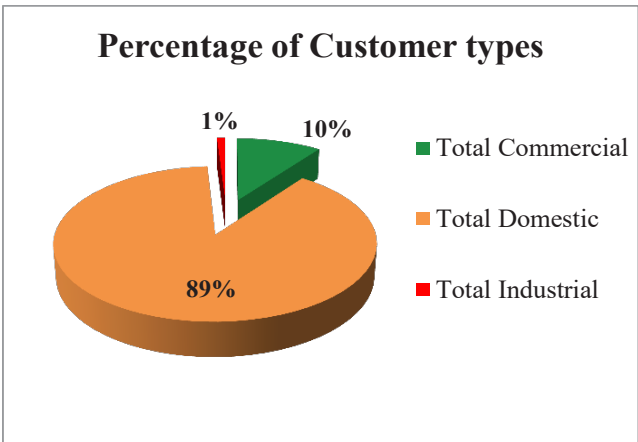
Prepaid Customers by Tariff Categories

Region	Tariff Category			Total number of EEU's prepaid customer
	Prepaid commercial	Prepaid domestic	Prepaid Low Voltage industrial	
Addis Ababa	5,605	470,607	157	476,369
Afar	467	6,692	2	7,161
Amhara	2,784	74,889	30	77,703
Benshangul	111	1,185	-	1,296
DireDawa	554	15,261	7	15,822
Gambella	41	593	-	634
Harari	175	4,147	2	4,324
Oromia	1,526	178,554	184	180,264
Somali	325	28,514	9	28,848
S/Nations	923	39,412	20	40,355
Tigray	1,901	41,416	15	43,332
Total	14,412	861,270	426	876,108

Customers' annual Growth



Percentage of Customer types (2021/22)



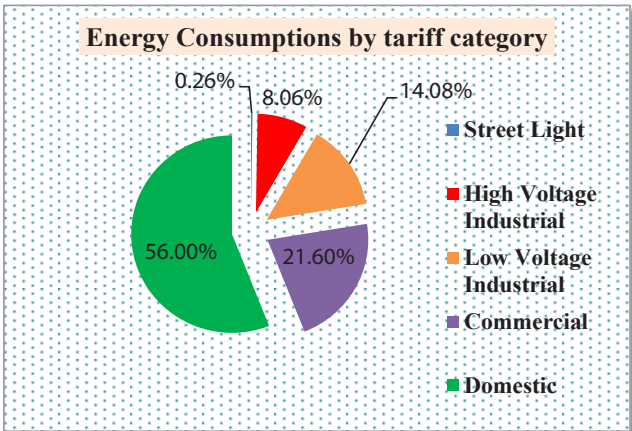
Total number of customers

- Postpaid customers - 3,448,751
- prepaid customers - 876,108
- The total number of customers - 4,324,859

Customers Consumption Charge (kWh per Month) 2021/22

	Consumption (kWh /Month)								
	Below 50 kW	Below 100 kW	Below 200 kW	Below 300 kW	Below 400 kW	Below 500kW	More than 501 kW		
EEU Average Consumption (%)	54.1%	10.7%	13.4%	7.9%	4.6%	3.0 %	6.4%	100.0%	
Addis Ababa	23.1%	8.2%	18.8%	16.1%	10.6%	7.7%	15.6%	100.0%	
Afar	54.8%	10.5%	14.5%	7.2%	3.6%	2.3%	7.2%	100.0%	
Dire Dawa	35.0%	15.0%	23.2%	12.6%	6.0%	3.0%	5.2%	100.0%	
Amhara	57.4%	11.8%	14.1%	7.2%	3.6%	2.0%	4.0%	100.0%	
SNNP	67.9%	10.4%	9.6%	4.5%	2.4%	1.4%	3.7%	100.0%	
Gambella	65.8%	12.8%	10.7%	4.2%	2.2%	1.2%	3.1%	100.0%	
Oromia	66.0%	11.0%	10.4%	4.9%	2.6%	1.5%	3.7%	100.0%	
Somali	62.8%	13.4%	11.5%	4.0%	2.3%	1.4%	4.7%	100.0%	
Harari	52.2%	16.2%	17.7%	5.4%	2.7%	1.4%	4.4%	100.0%	
Benshangule	69.7%	11.1%	10.1%	3.9%	1.8%	1.0%	2.4%	100.0%	

Energy consumption by tariff category



Energy tariff adjustment

The average electricity tariff structure in Ethiopia until recently indicates that the country's electricity tariffs was among the lowest in Sub-Saharan Africa and was not enough to cover operating expenses of the sector. As a result, the service under provision throughout the country is characterized by low access rate and lack of quality. This condition is exceedingly related to the existing financial challenges of the sector.

To cover operating expenses and improve the quality of electricity services, the Ethiopian Electric Utility (EEU) has implemented the revised electricity tariff in December 2018.

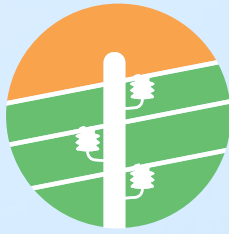
For customers consuming lower than 50kwh power per month (likely to be low-income households with low electricity needs), there is no change in electricity prices. But households and firms consume more electricity are expected to settle their monthly bill as per the revised tariff.

Current Electricity tariff for residential consumers

Consumer class	Consumer block	Consumption (kwh)	Base tariff (birr/kwh)	Energy tariff (birr/kwh)
Residential	1 st block	Up to 50	0.2730	0.2730
	2 nd block	Up to 100	0.3564	0.7670
	3 rd block	Up to 200	0.4993	1.6250
	4 th block	Up to 300	0.5500	2.0000
	5 th block	Up to 400	0.5666	2.2000
	6 th block	Up to 500	0.5880	2.4050
	7 th block	> 500	0.6943	2.4810
	Service Charge	- Postpaid up to 50 KWH Consumption ETB 10.00 , >50 KWH Consumption ETB 42.00 - pre-paid up to 50 KWH Consumption ETB 3.50 , >50 KWH Consumption ETB 14.70		

Electric tariff for General, Industrial and Bulk Power Consumers

Consumer class	Base Tariff (Birr/kwh)	Energy Tariff (Birr/kwh)
		DEC 2021
General (commercial)	0.6723	2.1240
Service Charge	Postpaid General all kwh ETB 54.00 ; Prepaid General all kwh ETB 18.90	
Low voltage Industrial	0.5778	1.5310
Demand Charge	0.0000	200.0000
Medium Voltage Industrial	0.4086	1.1930
Demand Charge	0.0000	147.5400
High voltage Industrial	0.3805	0.9280
Demand Charge	0.0000	87.6400
	Service charge for High, Medium and Low voltage industrial consumers is ETB 54.00 Street light will be accommodated in the general (commercial) tariff category without the need for any other tariff category.	
Bulk Supply	0.0000	0.8870
Demand Charge	0.0000	157.1630



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PREPARED BY
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