

Electricity pricing in the residential sector of Myanmar

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1. The electricity bill

The electricity bill comes with monthly charges in post-paid system. It contains the amount of monthly charges and monthly maintenance fee.

The rates below in Table (1) are for residential settlements, temples and churches including the surrounding areas to such settlement. This rate is calculated per one official electricity meter set by Ministry of Electric Power (MOEP) through its departments, YESC and ESE.

[Yangon Electricity Supply Corporation (YESC) [formerly known as Yangon City Electricity Supply Board (YESB)] for Yangon region and Electricity Supply Enterprise (ESE) for other regions and states in Myanmar]

Calculations of Electricity charges for residential sector

Electricity Consumption	Price per unit (kyat/kWh)
The first 100 kWh (1-100 kWh)	35
The next 100 kWh (101-200 kWh)	40
Unit above 200 kWh	50
Meter service fee	500 kyat per month

For example, a household uses 250 kWh will have to pay 11,000 kyat as calculated below.

$$\begin{aligned}\text{Electricity bill for consuming 250 kWh} &= (100 \times 35) + (100 \times 45) + (50 \times 50) + 500 \\ &= 10,500 \text{ kyat}\end{aligned}$$

[The electricity tariff for commercial sector has the same distribution and collection system with different tariff rate minimum of 75 kyats/kWh and maximum of 150 kyats/kWh. Foreigners have to be charged 12cent/kWh]

For residential sector again on the other hand, if we know a household's expense on electricity, we can modify this calculation to find out its electricity consumption in kWh as

well. The table below shows the ranges of electricity consumption matching with the ranges of the electricity bills.

Electricity consumption	Range of electricity bill (kyat) [including maintenance fee]
The first 100 kWh (1-100 kWh/month)	535-4000
The next 100 kWh (101-200 kWh/month)	4040-8000
Units above 200 kWh/month	>8000

The following figure (1) is the typical electricity bill for residential sector and figure (2) is the translation of the electricity bill. [1 kWh = 1 unit]



Figure 1: Typical electricity bill

Electricity Form (243) Yangon City Electricity Supply Board
Electricity Bill

Town ship Dec, 2014

Name of Resident Last date for payment
17-Jan-15

Address of resident Power will be cut after the date

Account No.	18/09/20	Meter No. (F-69638)	Rate	Amt (Kyat)
Rate	1	1 unit to 100 unit	(35 Kyat)	3,500
Meter reading date	1/1/2015	101 unit to 200 unit	(40 Kyat)	4,000
Last month reading	61875	201 unit and above	(50 Kyat)	19,500
Current month reading	62465			
Unit different	590			
Multiplier				
Adding		Total electricity bill		27,000
Unit used	590	Meter service charges		500
Horse power		Horse power charges		
Invoice no. 1022		Total amount		27,500

Township office Phones for complaint - 095503190, 095412538, 01578420

Signature of
Township Administrator

Figure 2: Translation of typical electricity bill

2. Electricity Generation and Supply

The following diagram shows the process that power generation, transmission and distribution to the end users.

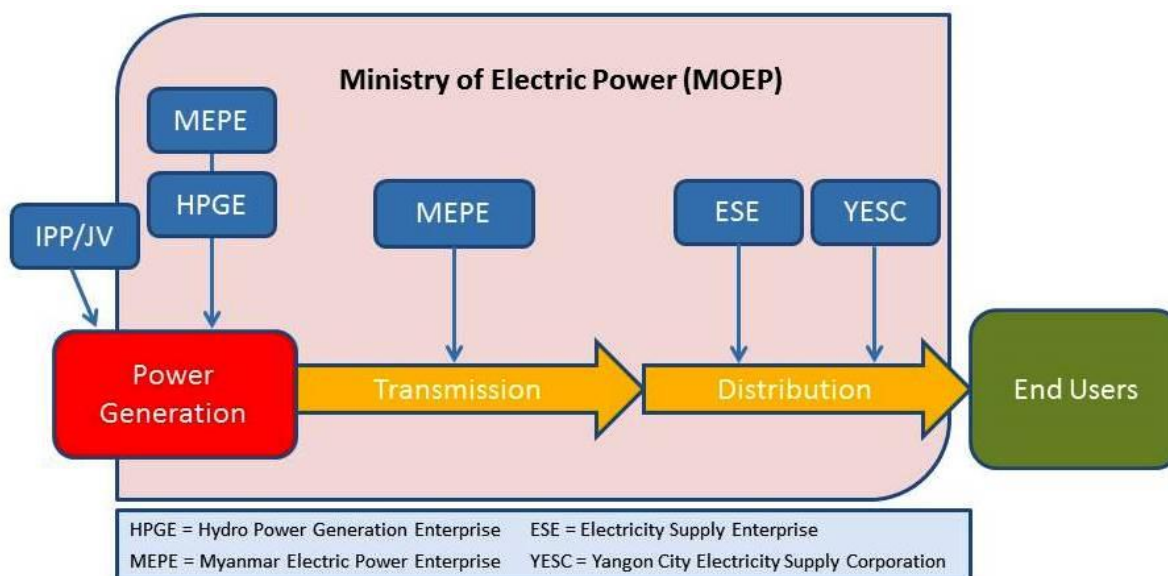


Figure 3: Electricity supply from generation to end-users

Ministry of Electric Power (MOEP) is the main ministry and taking responsibilities almost all processes starting from power generation to the distribution reach to end users. Ministry of electric power has four main departments to carry out these processes in each step. After 2010, when new government take responsible, some IPP and JVs for power generation started participating in power generation. However, the transmission and distribution are still under authority of ministry of electric power.

Currently, 64% of total power generation is consumed in Yangon and all other areas in the country are using the remaining 36%. This is the reason that ministry of electric power divided two distribution departments and YESC is taking authority of the power distribution in Yangon region and ESE is taking the other areas except Yangon.

Procedures needed for applying the household electricity

Submission of document to the authority including:

- (1) Application form
- (2) Household registration
- (3) Type of property and ownership (own land, House, condo, apartment etc.)
- (4) National registration card of the applicant

The application fee is 90,000 Kyat. After the application, the authority checks the residence and register for the power supply. The process will take around a month.

If the resident owner wants to do some home industry, they have to apply for the power meter which is supply 440 Volt. This will be done by the same procedures with different application fees.

3. Some informal billing

From National grid (On-grid)

In some rural areas, the community or village construct their own distribution line and buy electricity from national grid. Then community administration collects the electricity charges depending on the type of electric products used by the households. For example, in a village in Inle, Shan state, the households have to pay 2000 kyat per month for a refrigerator whatever the size of it and have to pay 1000 kyat per month for a television regardless of the type and size (box or flat, any inches in size).

Off-grid electricity

According to the survey for rural area, Bithut village in Labutta Township, Delta region, most of the villages have access electricity from community grid such as by using

private diesel generators. The electricity price for one day is 100 kyat for lighting, 200 kyat to 300 kyat for TV, Fan, and Refrigerator.

The lowest income for household (general workers) in remote rural area is 90,000 kyat per month (one day per 1500 kyat x 2 people x 30days). They normally use two incandescent light bulbs or two florescent lights at night for 4Hr (6pm to 10pm). It costs them 200 kyat per day (i.e. 6,000kyat/month). The following table is an example of calculating the cost. Normally the electricity supply only supply for 4Hr per day.

Lighting & Appliances	Kyat per Appliance	Electricity hour	Amount
One lighting for one day	100	4 hour	100
Two lighting for one day	200	4 hour	200
Three lighting for one day	250	4 hour	250
TV for one day	200	4 hour	200
Refrigerator for one day	300	4 hour	300
Electric fan for one day	300	4 hour	300

Remark – If they want to use electricity in day time for some religious or traditional events, they will pay double charge for one day.