Presentation on Tariff

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Introduction

 The rate at which electrical energy is provided to the consumers is known as the tariff.

 Although tariffs should include the total cost of producing and supplying electrical energy and the profit, they cannot be the same for all types of consumers.

Objectives



Recovery of cost of electrical energy generate at generating station.



Recovery of cost in transmission and distribution of electricity.



Maintenance costs should be recover.



Generating station should not get more profit from consumer

Factors affecting Tariff



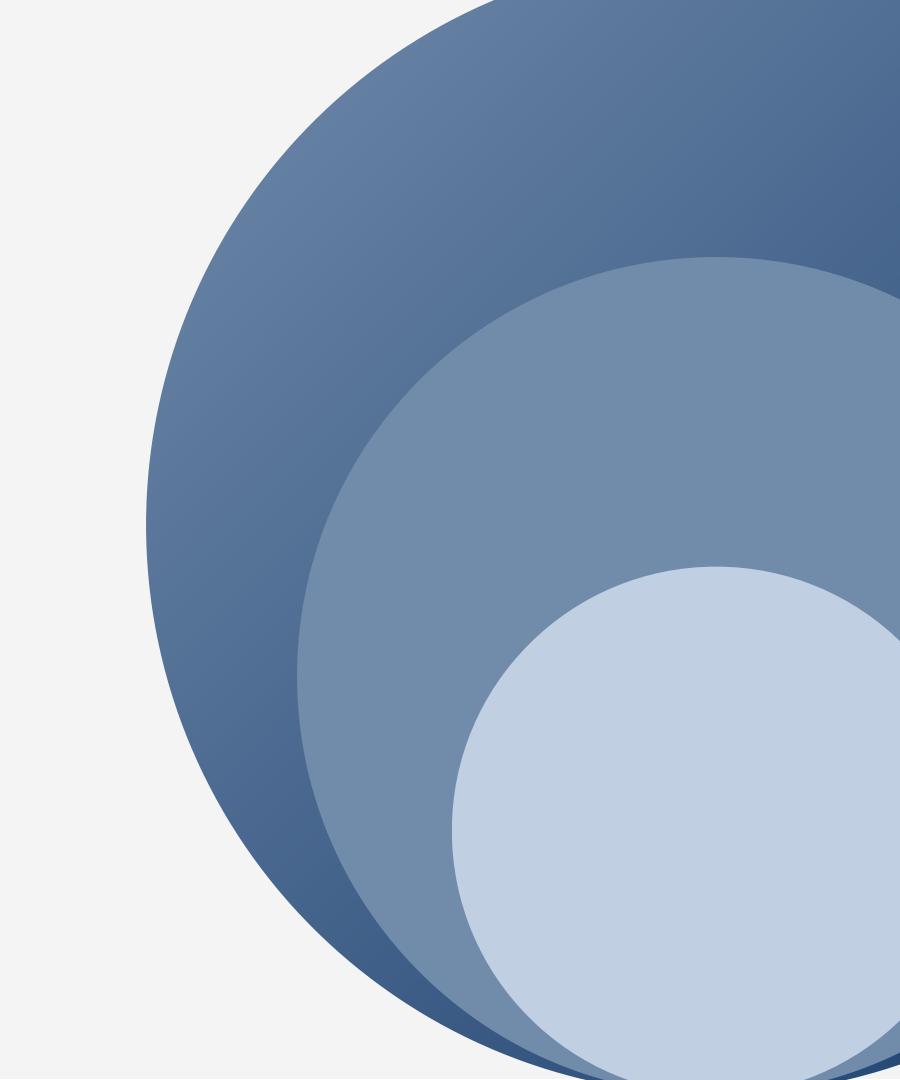
Maximum Demands

Time at which load is Required

- The amount of energy used
- The power factor of the load

Types of Tariff

- Simple Tariff
- Two-Part Tariff
- Three -Part Tariff
- Maximum Demand Tariff
- Flat Rate Tariff
- Block Tariff



Simple Tariff

- In Simple tarriff per unit rate is fixed and consumers pay the charge as per unit rate.
- It is also known as a uniform tariff.
- This type of tarrif encourge consumers to disconnect the equi[ment after being used.

Two Part Tariff

- In Two Part Tariff, the fixed and the running charges are seperated.
- Fixed charge is proportional to Maaximum Demand and running charge is proportional to unit consumed.
- In this consumer have to pay the bill on Maximum Demand irrespective of their consumption.

Three Part Tariff

- When the total charge to be made from the consumer is split into three parts ie., fixed charge, semi-fixed charge and running charge then it is Three Part Tariff.
- By adding fixed charge to two-part tariff, it becomes three-part tariff.

It is represented as : Total charge = Rs (a + b × kW + c × kWh)

Maximum Demand Tariff

- Two Part Tariff charges fixed rate on the maximum demand which is not actually measured so consumers have to pay unnecessary price.
- These disadvantages are removed using a maximum demand tariff structure in which the maximum demand is actually measured.

This type of tariff stucture is usually applied to bulk supply.

Flat Rate Tariff

• In this type of tariff, different consumers are charges at a different rate.

Higher rates are charged for power load than normal loads.

 This type of rate is defined on the basis of load factor and diversity factor.

• This method is usually employed in public.

Block Rate Tariff

• In this type of tariff, different consumers are charges at a different rate.

- Higher rates are charged for power load than normal loads.
- This type of rate is defined on the basis of load factor and diversity factor.
- This method is usually employed in public.

Advantages

- The consumers are encouraged to consume more energy
- This increase load factor of the system and the cost of generation is reduced
- In the right time of maximum demand no extra plant capacity is charged.

- Simple to calculate and easy to understand and apply.
- Each consumer has to pay according to his utilization.

Disadvantages

 Due to low power factor, load current increases and the losses in the system increases.

 The installation of power factor correction equipment causes the generation cost to increase. • A particular class of consumers is charged at the same rate irrespective of the magnitude of energy consumed.

• In some types of tariff different load sare used in different ratings so separate meters are required which increases installation cost.

Few Related Terms

Fixed Cost:

Fixed costs are expenses that remain the same no matter how much a company produces, such as rent, property tax, insurance, and depreciation.

Variable Cost:

Variable costs are any expenses that change based on how much a company produces and sells, such as labor, utility expenses, commissions, and raw materials.

Thank you



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