

ELECTRIC RATES AND PROVISIONS

SCHEDULE HDC – HIGH DEMAND GENERAL SERVICE: CITY

Effective January 1, 2020

SCHEDULE HDC is for standard general service provided to City customers whose maximum monthly demand is equal to or greater than 10,000 kW.

ENERGY CHARGES:
<p><u>Peak:</u></p> <p>Energy used between six (6:00) a.m. and ten (10:00) p.m., Monday through Saturday, excluding major holidays,* at 8.61¢ per kWh</p> <p><u>Off-peak:</u></p> <p>Energy used at all times other than the peak period at 5.74¢ per kWh</p>
DEMAND CHARGES:
<p><u>Peak:</u></p> <p>All kW of maximum demand between six (6:00) a.m. and ten (10:00) p.m., Monday through Saturday, excluding major holidays,* at \$3.74 per kW</p> <p><u>Off-peak:</u></p> <p>All kW of maximum demand in excess of peak maximum demand, at all times other than the peak period, at \$0.26 per kW</p>
Minimum Charge: \$90.61 per meter per day
Power Factor Charge: \$0.0015 per kVarh
<p>Discounts:</p> <p>Transformer losses: $1756 + 0.53285 \times \text{kW} + 0.00002 \times \text{kW}^2 + 0.00527 \times \text{kWh}$</p> <p>Transformer investment: \$0.26 per kW of monthly maximum demand</p>

*Major holidays excluded from the peak period are New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day, as recognized by NERC.

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SCHEDULE HDC – HIGH DEMAND GENERAL SERVICE: CITY (cont.)

Seattle Municipal Code Section 21.49.058

- A. High demand general service is standard general service provided to customers who have in the previous calendar year half or more than half of their normal billings at ten thousand (10,000) kW of maximum demand or greater. Classification of new customers will be based on the Department's estimate of maximum demand in the current year.
- B. For customers metered on the primary side of a transformer, the Department will either program the meter to deduct computed transformer losses or provide a discount for transformer losses by reducing the monthly kWh billed by the number of kWh computed in Section 21.49.058, Subsection A.
- C. For customers who provide their own transformation from the Department's standard distribution system voltage of four (4) kV, thirteen (13) kV or twenty-six (26) kV to a utilization voltage, a discount for transformer investment will be provided in the amount stated in Section 21.49.058, Subsection A. Existing customers served by the Department's 34.5 kV system as of January 1, 1995 shall be considered as receiving standard distribution voltage for the purpose of this section. This 34.5 kV voltage will not be offered as a standard distribution system voltage for any new customers.
- D. The Department will provide one (1) transformation from the available distribution system voltage of four (4) kV or higher to a standard service voltage, and metering normally will be at the service voltage level. However, if the Department determines that it is either uneconomical or impractical to meter at the service voltage level, the Department will meter at the distribution voltage level and will either program the meter to deduct computed transformer losses or will reduce the monthly kWh billed by the amount of the discount for transformer losses.

If the customer elects to receive service from the Department's available distribution system voltage of four (4) kV or higher, metering will be at the distribution voltage level and the discounts for transformer losses, if applicable, and for transformer investment, if applicable, will be applied to the customer's billings. However, if the Department determines that it is either uneconomical or impractical to meter at the distribution voltage level, the Department will meter at the service voltage level and the discount for transformer losses will not be applicable

- E. Customers must provide hourly load schedules each day for the following day. If the customer's load follows a regular pattern, the Department may, at its discretion, waive this requirement and request only to be informed of temporary or permanent changes to the pattern.
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- F. The Department may request voluntary load interruption during an emergency. If interruption occurs, the demand charge will be waived for the billing period in which the interruption occurs.
 - G. The Department may, at its discretion, impose an additional power factor charge whenever electricity delivered to the customer has an average monthly power factor of less than 0.97, as measured by the Department's metering equipment. The metering equipment for measurement of reactive kVA hours shall be programmed to prevent reverse registration.
 - H. The Department shall not be obligated to deliver electricity to a customer with a power factor below 0.85. All installations of power factor corrective equipment shall be subject to the approval of the Department. The customer's corrective equipment shall be switched with the load so that at no time will it supply leading reactive power (kVAR) to the Department's distribution system unless written Department approval is obtained to do so.
 - I. Customers who install new or enlarged arc furnaces shall install static VAR generators for flicker control and power factor correction for the entire arc furnace load. The generators shall have 1/2 cycle response time and independent phase control, supply sufficient reactive power to prevent objectionable flicker at the common connection point of the arc furnace with other utility customers, maintain a minimum power factor of 0.97, and be filtered to limit the total harmonic current to no more than the percentage of fundamental current given in the most current version of the "IEEE Recommended Practices and Requirements for Harmonic Control in Electric Power Systems, IEEE-519,".
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