KERALA STATE ELECTRICITY REGULATORY COMMISSION
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To

The Chairman & Managing Director,
KSEB Ltd., Vydyuthi Bhavanam,
Pattom Palace P O.,
Thiruvananthapuram: 695 004

Sir,

Sub: Schedule of Tariff and Terms and Conditions for Electricity by KSEBL and other Licensees w.e.f 05.12.2024 to 31.03.2027. Clarifications on banking adjustments of EV Public Charging Stations with Solar PV plants-reg

Ref: Letter No. KSEBL/TRAC/G/ Tariff Revision/ 2024-25/43 dated 09.04.2025.

With reference to the clarifications on the subject issue cited under reference, I am directed to inform the following.

1. Commission vide the Tariff Order dated 05.12.2024 has approved ToD tariff for EV charging stations availing supply at LT and HT voltage level, with two time zones, 'Zone-1, Solar hours' between 9AM to 4PM (7 hours in day) and 'Zone-2, Non-Solar hours (remaining hours in a day)'.

   The tariff during 'Solar hours' is 0.70 times the Average Ruling Tariff and the tariff during 'Non-Solar Hours' is 1.30 times the Average Ruling Tariff. Single part tariff is approved for EV charging stations with exemption from payment of fixed charges/ demand charge.

2. The Commission has explained in the paragraphs 3.86 to 3.87 and 3.113 to 3.115 of the Tariff Order dated 05.12.2024 that, above tariff structure was approved as per the 'Guidelines for Installation and Operations of Electric Vehicle Charging Infrastructure-2024' notified by the Ministry of Power, Government of India vide the notification dated 17.09.2024. In this matter, attention is also invited to paragraph-3 of the said guidelines, which is extracted below for ready reference.

   "3. Objectives:

   a) To drive EV adoption by making charging stationssafe, reliable and accessible.

   b) To develop a robust charging network across theNation initially prioritising the essential locations

c) To increase the viability of charging stations by facilitating public land at promotional rates, expeditious approval of electricity connections and standardising pricing of power supply.

d) To encourage charging of EVs during solar hours.

e) To prepare the electricity grid to handle the increased demand from EV charging."

As extracted above, one of the objectives of the revised guidelines for installation and operation of EV charging infrastructure-2024 notified by the Central Government is for promotion of the EV charging during Solar hours i.e., between 9AM to 4PM every day.

3. This Commission also, vide the Tariff Order dated 05.12.2024 has determined the tariff of the EV charging stations by adopting the guidelines notified by the MoP, GoI dated 17.09.2024, in such a way that, the tariff during the 'Solar Hours' between 9AM to 4PM is 30% less than the normal ruling tariff to promote the EV Charging during 'Solar Hours'. Further, the tariff during 'Non-Solar Hours between 4PM to 9AM' is 30% higher than the normal ruling tariff to discourage the EV charging during these hours using the power from the grid of the distribution licensee.

   As above, considering the objective of the 'guidelines notified by MoP, GOI dated 17.09.2024, and also the ToD tariff structure determined vide the Order dated 05.12.2024, this Commission intents to promote the electric vehicle (EV) charging during Solar Hours and to discourage the EV charging during 'Non Solar hours' using **tariff rates as the guiding factor**.

4. In the case of EV Charging stations with Solar PV installations, the Commission is to promote the EV charging with the electricity generation from Solar PV installations during 'Solar Hours', and to discourage the EV charging during 'Non Solar Hours' using the fossil fuel based grid power of the licensee.

5. Considering these aspects in detail, the Commission hereby clarify the following regarding the energy adjustment, billing, and banking of solar power in the case of EV charging stations with Solar PV Installations, till further orders.

   (1) EV Charging Stations with Solar PV installations may be allowed to adjust the energy exported from the Solar PV plants between 9AM and 4PM, against the electricity imported during Solar Hours between 9AM to 4PM, during a billing cycle, without any charges including fixed charges, grid support charges, energy adjustments etc till further orders.

   (2) Electricity exported, if any, from Solar PV stations during the Non-Solar Hours (4PM to 9AM) may be allowed to be adjusted against electricity imported during 'Non-Solar Hours' in a billing cycle, without any

charges including fixed charges, grid support charges, energy adjustments etc till further orders.

(3) Surplus energy after adjustment under (1) above, if any, exported to the grid during the 'Solar Hours' during the billing cycle is allowed to be adjusted against the import, if any, during the Non-Solar hours with the multiplication factor (7/13) of the surplus energy till further orders.

No other charges, including grid support charges may be levied for the adjustments of the energy exported during 'solar hours' with 'non solar hours', till further Orders of the Commission.

(4) Surplus energy, if any, available at the end of the billing period, after adjustments as above, may be allowed to be banked and carried forward to the subsequent billing periods upto the settlement period (as of now 31st of March of the Year), for the adjustment against the energy consumption during these periods, on payment of banking charges @5% of the total energy banked and grid support charges as applicable from time to time, as approved by the Commission.

(5) Net surplus energy from the Solar PV 'if any' available with the licensee at the end of the settlement period, after adjusting against the consumption of the EV charging stations may be settled at the APPC or other rate as approved by the Commission from time to time, till further orders.

(6) EV Charging Stations with Solar PV stations may have the option of installing 'Battery Energy Storage System' so that, they can store the surplus solar energy available during the day time for the use of 'non solar hours; without availing grid power from distribution licensee.

(7) It is expected that EV charging stations, including that set up by KSEB Ltd, will promote EV charging during solar hours by offering appropriate incentives to meet the objectives of green mobility.

The above procedures may be followed till further Orders/ Regulations notified by the Commission on the subject matter.

Yours faithfully

Secretary

Copy to

Chief Engineer (Commercial & Tariff)