

KARNATAKA ELECTRICITY REGULATORY COMMISSION

No. 16 C-1, Miller Tank Bed Area, Vasanth Nagar, Bengaluru- 560 052

Order dated: 05.12.2024

Present:

Shri P. Ravi Kumar	Chairman
Shri H.K. Jagadeesh	Member (Legal)
Shri Jawaid Akhtar	Member

In the matter of: Enhancement of sanctioned load up to and inclusive of 10 kW for SRTPV Consumers and other related matters.

Preamble:

- a) The Commission has enabled the submission of online applications for implementation of SRTPV systems up to 150 kW, including the PPA forming part of the application. Such applications are deemed to constitute approval to commence installation work.
- b) The sub-Rule 7A of the Electricity (Rights of Consumers) Amendment Rules, 2024, dated 22.02.2024 issued by the MoP, Gol, states that:

"(7A) Applications for rooftop solar photovoltaic (SRTPV) systems up to 10 kW capacity, complete in all respects, shall be deemed to have been accepted without requiring a technical feasibility study. Any commensurate enhancement of the sanctioned load of the consumer, as may be required, shall be carried out by the distribution licensee."

In light of sub-rule 7A, the BESCOM has approached the Commission requesting to further streamline the process and encourage greater consumer participation in the PM Surya Ghar Scheme, facilitating the adoption of rooftop solar systems.

- c) Further, during a meeting with system integrators and ESCOMs, the system integrators apprised the Commission of the rapid advancements in technology, particularly the increasing and changing ratings of solar modules. They highlighted that customers are increasingly concerned about the mismatch between module capacities and the applied capacity. To address this concern, the integrators requested the Commission to permit a capacity tolerance 10% for SRTPV installations up to 10 kW.
- d) Considering the above requests and in furtherance of promoting / facilitating the deployment of solar rooftop photovoltaic systems in the State, the Commission has decided to issue suitable orders.

Therefore, the Commission in exercise of the powers conferred under Section 86 (1)(e) of the Electricity Act, 2003 and read with the Regulation 13 of the KERC (Implementation of Solar Rooftop Power Plants) Regulations, 2016 for removal of difficulties, hereby issues the following order:

Order

The consumers intending to install solar rooftop photovoltaic system for a sanctioned load of up to and inclusive of 10 kW are permitted the following.

1. If the sanctioned load of a consumer is less than the capacity of the SRTPV plant to be installed, the distribution licensee shall allow such consumer to install SRTPV plant of capacity upto and inclusive of 10kW and the sanctioned load of the consumer shall be enhanced automatically to match the required capacity of SRTPV plant. In such cases, the distribution Licensee shall take necessary action to augment the capacity of distribution Line /Transformers if required, as per the provisions of the relevant Regulations/Orders issued by the Commission.
2. In case where the consumer's sanctioned load is increased as above, it is the responsibility of the consumer to pay the applicable charges, deposit additional security, enter into power supply agreement for the additional load, etc., before commissioning of the SRTPV plant, in accordance with the provisions of the Conditions of Supply of Electricity of Distribution Licensees in the State of Karnataka (CoS) and other Regulations relating to supply of electricity, issued by the Commission.
3. For installation of SRTPV system up to and inclusive of 10 kW sanctioned load, a capacity tolerance of up to 10% shall be allowed for the applied system capacity (DC), subject to condition that the AC capacity of the inverter shall not exceed the sanctioned load.

Illustration 1: For a 05 kW of sanctioned load, DC Capacity of SRTPV system having 540 W modules, the consumer can install 9 modules (totaling 04.86 kW DC capacity), or he can install 10 modules (totaling 05.4 kW DC capacity), staying within the allowable tolerance of 10%. However, the AC capacity of the inverter is limited to 05 kW only.

Illustration 2: For a 10 kW of sanctioned load, DC Capacity of SRTPV system having 540 W modules, the consumer can install 18 modules (totaling 09.72 kW DC capacity), or he can install 20 modules (totaling 10.80 kW DC capacity), staying within the allowable tolerance of 10%. However, the AC capacity of the inverter is limited to 10 kW only.

This Order is signed and issued by the Karnataka Electricity Regulatory Commission on this 5th day of December, 2024.

Sd/-

**(P. RAVI KUMAR)
CHAIRMAN**

Sd/-

**(H.K. JAGADEESH)
MEMBER (LEGAL)**

Sd/-

**(JAWAID AKHTAR)
MEMBER**