

# JOINT ELECTRICITY REGULATORY COMMISSION

(For the State of Goa and Union Territories)

## DRAFT NOTIFICATION

Gurugram, \_\_, May, 2024

### Joint Electricity Regulatory Commission for the State of Goa and Union Territories (Solar PV Grid Interactive System based on Net Metering) (First Amendment) Regulations, 2024

No. JERC-24/2019 - In exercise of the powers conferred under **Sub-Section (1) of Section 181 of the Electricity Act, 2003** and all other powers enabling it in this behalf, and after previous publication, the Joint Electricity Regulatory Commission (for the State of Goa and Union Territories) **hereby amend its** prevailing (Solar PV Grid Interactive System based on Net Metering) Regulations, 2019 (hereinafter referred to as the Principal Regulations).

## DRAFT REGULATIONS

### 1. Short title, commencement and extent of application:

- 1.1 These Regulations may be called the Joint Electricity Regulatory Commission for the State of Goa & Union Territories (Solar PV Grid Interactive System based on Net Metering) (First Amendment) Regulations, 2024 (hereinafter referred to as “Net Metering (First Amendment) Regulations, 2024”).
- 1.2 These Regulations shall come into force from the date of publication in the Official Gazette.
- 1.3 These Regulations shall extend and apply to the State of Goa and the Union Territories of Andaman & Nicobar Islands, Chandigarh, Dadra & Nagar Haveli and Daman & Diu, Lakshadweep and Puducherry.
- 1.4 These Regulations shall apply only to the Grid Connected Rooftop mounted, ground mounted and floating Solar Power Projects.

### 2. Amendment in Regulation 2 of the Principal Regulations:

- (i) Regulation 2.1 (9) of the Principal Regulations shall be substituted as under:

“**Consumer** means any person who is supplied with electricity for his own use by a licensee or the Government or by any other person engaged in the business of supplying electricity to the public under this Act or any other law for the time

being in force and includes any person whose premises are for the time being connected for the purpose of receiving electricity with the works of a licensee, the Government or such other person, as the case may be.”

- (ii) Following shall be inserted after Regulation 2.1 (13) of the Principal Regulations:

“(13) (a) **Days** means clear working days.”

- (iii) Following shall be inserted after Regulation 2.1 (18) of the Principal Regulations:

“(18) (a) **Gross-metering** means a mechanism whereby the total solar energy generated from Grid Interactive rooftop Solar Photovoltaic system of a Prosumer and the total energy consumed by the Prosumer are accounted separately through appropriate metering arrangements and for the billing purpose, the total energy consumed by the Prosumer is accounted at the applicable retail tariff and total solar power generated is accounted for at feed-in tariff determined by the Commission.

(18) (b) **Gross Metering Connection Agreement** means an agreement executed between a Distribution Licensee and an Eligible Consumer.”

- (iv) Regulation 2.1 (23) of the Principal Regulations shall be substituted as under:

“**Net Metering** means a mechanism whereby solar energy exported to the Grid from Grid Interactive rooftop Solar Photovoltaic system of a Prosumer is deducted from energy imported from the Grid in units (kWh) to arrive at the net imported or exported energy and the net energy import or export is billed or credited or carried-over by the distribution licensee on the basis of the applicable retail tariff by using a single **bi-directional** energy meter for net-metering at the point of supply.”

- (v) Following shall be inserted after Regulation 2.1 (23) of the Principal Regulations:

“(23) (a) **Net-billing or Net feed-in** means a single bidirectional energy meter used for net-billing or net feed in at the point of supply wherein the energy imported from the Grid and energy exported from Grid Interactive rooftop Solar photovoltaic system of a Prosumer are valued at two different tariffs, where-

- (i) the monetary value of the imported energy is based on the applicable retail tariff;
- (ii) the monetary value of the exported solar energy is based on feed-in tariff determined by the Commission;

- (iii) the monetary value of the exported energy is deducted from the monetary value of the imported energy to arrive at the net amount to be billed (or credited/ carried-over).”
- (vi) Following shall be inserted after Regulation 2.1 (25) of the Principal Regulations:
- “(25) (a) **Occupier** means the owner, tenant or person in occupation of the premises where electricity is used or proposed to be used.”
- (vii) Following shall be inserted after Regulation 2.1 (27) of the Principal Regulations:
- “(27) (a) **Owner means the person who is having absolute right over the property and includes the legal heirs'.**”
- (viii) Regulation 2.1 (29) of the Principal Regulations shall be substituted as under:
- “**Prosumer** means a person who consumes electricity from the grid and can also inject electricity into the grid for distribution licensee, using same point of supply.”
- (ix) Following shall be inserted after Regulation 2.1 (31) of the Principal Regulations:
- “31 (a) **Resident Welfare Association** (referred as the Association) means an association comprising all the property owners **and tenants** within a Co-operative Group Housing Society, Multi storied Building, Residential Colony, or a similar body registered with the State Government.”
- (x) Following shall be inserted after Regulation 2.1 (43) of the Principal Regulations:
- “43 (a) **Storage** means an energy storage system utilizing methods and technologies like solid state batteries, flow batteries, pumped storage, compressed air, fuel cells, hydrogen storage or any other technology to store various forms of energy and to deliver the stored energy in the form of electricity.”

### 3. Amendment in Regulation 4 of the Principal Regulations:

- (i) Regulation 4.1 of the Principal Regulations shall be substituted as under:

“Solar Projects of capacity up to 500 kWp at one premise based on the technologies approved by MNRE are eligible for connecting the project with the Grid under these Regulations. The capacity of the Solar Project to be installed under Group Net Metering

or Virtual Net Metering framework shall be up to 500 kWp or up to the sanctioned load, whichever is lower.

Provided that the Solar Project capacity higher than 500 kWp shall be under net-billing or net feed-in.

Provided further that in the case of Prosumers availing net-billing or net feed-in, the time-of-the-day tariffs may be introduced whereby Prosumers are incentivised to install energy storage for utilization of stored solar energy by them or feeding into the grid during peak hours thus helping the grid by participating in demand response of the Distribution Licensee:

Provided also that in case of net-metering or net-billing or net feed-in, the distribution licensee may install a solar energy meter to measure the gross solar energy generated from the Grid Interactive rooftop Solar Photovoltaic system for the purpose of renewable energy purchase obligation credit, if any:

Provided also that the gross-metering may be permitted for Prosumers who would like to sell all the generated solar energy to the distribution licensee instead of availing the net-metering, net-billing or net feed-in facility and the generic tariff or feed-in tariff for gross-metering shall be determined by the Commission as per the JERC (Terms and Conditions for Tariff determination from Renewable Energy Sources) Regulations, 2024 (as amended from time to time).”

#### **4. Amendment in Regulation 11 of the Principal Regulations:**

Following Regulations shall be inserted after Regulation 11.8 of the Principal Regulations:

“11.9 In case of Net billing or Net feed-in, the billing and energy accounting shall be dealt with as under:

- (a) Net Billing is permitted for eligible prosumer who opt to sell all generated solar energy to the distribution licensee while availing consumption of electrical energy as a consumer under an electric connection through separate circuit.
- (b) An eligible prosumer under the Net billing or Net feed-in mechanism shall inject the entire power from the Grid Interactive Solar PV plant to the distribution system of the distribution licensee to the nearest distribution network of the same voltage under the Power Purchase Agreement as suitably devised by the distribution licensee.
- (c) Entire quantum of electricity generated by the prosumer shall be procured under the Power Purchase Agreement as suitably devised by the distribution licensee at feed-in tariff determined by the Commission.
- (d) The distribution licensee shall enter into a Power Purchase Agreement as suitably devised by the distribution licensee and a Power Sale Agreement as suitably devised by the distribution licensee with the consumer for purchase and sale of entire quantum of power generated.

- (e) Rate of sale of power to the consumer shall be same as applicable retail tariff.
- (f) The monetary value of the imported energy is computed based on the applicable retail tariff;
- (g) In case, the prosumer is subjected to Time of Day tariff, the monetary value of the imported energy shall be computed accordingly;
- (h) The monetary value of the exported energy is computed based on the feed-in tariff determined by the Commission;
- (i) The monetary value of the exported energy is deducted from the monetary value of the imported energy to arrive at the net amount to be billed to the prosumer;
- (j) If the net amount in a billing cycle comes to negative, the same shall be carried over to the next billing cycle as 'Billing Credit';
- (k) At the end of the settlement period, if there is any outstanding Billing Credit, the prosumer has the option to receive payment of the net credit balance (if any) or have such credit balance carried over to the next settlement period.

11.10 In case of Gross-metering, the billing and energy accounting shall be dealt with as under:

- (a) Gross metering is permitted for eligible consumer or generator who opt to sell all generated solar energy to the distribution licensee.
- (b) An eligible consumer or generator under the Gross Metering scheme shall inject the entire power generated from the grid interactive Solar PV Energy Generating Plant to the distribution system of the distribution licensee to the nearest distribution network of same voltage under Power Purchase Agreement as suitably devised by the distribution licensee.
- (c) The distribution licensee shall enter into a Power Purchase Agreement (as suitably devised by the distribution licensee) with the generator for purchase of entire quantum of power generated.
- (d) The exported solar energy is paid to the generator at the feed-in tariff determined by the Commission.
- (e) The other terms and conditions of power purchase under the Power Purchase Agreement shall be same as mentioned for the Net Metering.”

##### **5. Amendment in Regulation 16 of the Principal Regulations:**

Following Regulation shall be added after Regulation 16.7:

“16.8 For installation of roof top solar photo voltaic systems, the technical feasibility study shall be completed within a period of fifteen days and the outcome of the study shall be intimated to the applicant, failing which it shall be presumed that the proposal is technically feasible.

16.9 The applications for roof top solar photo voltaic systems up to 10 kW capacity, complete in all respects shall be deemed to have been accepted without requiring technical feasibility study and any commensurate enhancement of the sanctioned load of the consumer, as may be required, shall be carried out by the distribution licensee.

16.10 Subject to Regulation (16.9), during the time period from the feasibility study or deemed acceptance of the application till the completion of installation, in case, there is any requirement of upgradation of distribution infrastructure like augmentation of service line, distribution transformer capacity, and the like for installation of the required capacity of roof top solar photo voltaic system, the same shall be carried out by the distribution licensee or consumer, as the case may be:

Provided that the cost of strengthening the distribution infrastructure, including distribution transformer, as necessary, to facilitate the installation of roof top solar photovoltaic systems up to a capacity of 5 kW or a higher capacity, shall be included in the revenue requirement of the distribution licensee.

16.11 After installation of roof top solar photovoltaic system, the consumer shall submit the installation certificate to such distribution licensee and such distribution licensee shall complete signing of connection agreement, installation of meter and successful commissioning of the roof top solar photovoltaic system within fifteen days from the date of submission of the installation certificate.

16.12 The Formats of connection agreement and installation certificate shall be placed on web-portal of the distribution licensee.”

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