

PUNJAB STATE ELECTRICITY REGULATORY COMMISSION

Grid Interactive Rooftop Solar Photo Voltaic Systems based on Net Metering - Regulations – 2015 - Notification Dated 7th May2015

Sl. No	Description	Summary
1.	Short Title and Commencement	<ul style="list-style-type: none"> • PSERC(Grid Interactive Rooftop Solar Photo Voltaic Systems based on Net Metering) Regulations-2015 dated 7.5.2015 • Regulations to come into force from the date of publication in the official Gazette.
2.	Definitions and Interpretation	As per Regulations
3.	Scope and Application	<ul style="list-style-type: none"> • Regulations shall apply to the Distribution Licensee and consumers of electricity of Distribution Licensee in the State of Punjab • Eligible consumer may install the Rooftop Solar system under net metering arrangement which: <ol style="list-style-type: none"> (a) shall be of minimum 1 kWp & up to 1 MWp (AC side) capacity with or without battery backup support (b) shall be located in the consumer premises (c) shall interconnect and operate safely in parallel with the Distribution Licensee network. <ul style="list-style-type: none"> – Regulations do not preclude the right of any person to undertake Rooftop Solar projects above 1 MWp through alternative mechanism. – Net metering shall also be applicable to such consumers who have installed Rooftop Solar system before commencement of these regulations subject to compliance of these regulations.
4.	General Principles	<p>Distribution Licensee to offer net metering to the eligible consumer, who intends to install grid connected Rooftop Solar system, in its area of supply on non-discriminatory and first come first serve basis provided:</p> <ul style="list-style-type: none"> • Consumer is eligible • Target capacity is as specified under these Regulations • Interconnection of system with the grid is undertaken as per CEA (Technical Standards for Connectivity of the Distributed Generation Resources) Regulations, 2013, as amended from time to time • Distribution Licensee shall accept the SPV power as per the useful life of the SPV system as per CERC Regulations.
5.	Capacity Targets for Distribution Licensee	<p>Distribution Licensee to provide net metering arrangement to eligible consumers as long as the total capacity (in MW) of Rooftop Solar systems does not exceed the target capacity determined by the Commission, Provided:</p> <ul style="list-style-type: none"> • Initially, maximum cumulative capacity to be installed by eligible consumers under net metering in the area of supply of each Distribution Licensee to be as decided by the Commission. Target capacity to be reviewed on yearly basis by the Commission: • Cumulative capacity at a particular distribution transformer shall not exceed 30% of the rated capacity of the distribution transformer. • Licensee to provide distribution transformer level capacity available for connecting Rooftop Solar system under net metering arrangement within two months from the date of notification of these regulations. Licensee to update the transformer capacity on yearly basis by 30th April and provide information on its website and to the Commission
6.	Eligible Consumer and Individual Project Capacity	<ul style="list-style-type: none"> • All eligible consumers of electricity in the area of the supply of Distribution Licensee can participate in the Rooftop Solar net metering arrangement subject to target capacity. • Maximum capacity shall not exceed 80% of the sanctioned load (kW) or contract demand of the consumer Provided: <ul style="list-style-type: none"> – Installed capacity shall not be less than 1 kWp and shall not exceed 1 MWp (AC side) for a single eligible consumer: – Variation in the rated capacity of the system within 5% to be allowed.

7.	Procedures for Application and Registration	<ul style="list-style-type: none"> • Consumer can download the 'Agreement Form' from the website of the Distribution Licensee free of cost and submit the same along with processing fee of Rs.50/kVA or part thereof subject to maximum of Rs.10,000/ to the licensee for grant of permission to set-up the plant. • After checking the feasibility, applicant to be issued Letter of Approval by Distribution Licensee within 30 days of receipt of application. • Consumer to set up the plant and submit the work completion report alongwith Single Line Diagram of the synchronizing and protection arrangement issued by the plant supplier/EPC contractor as per standards and specifications approved by the State Nodal Agency, within 180 days • For more Details refer Regulations
8.	Interconnection with the Grid	<ul style="list-style-type: none"> • Interconnection of the Rooftop Solar system with the network of the Distribution Licensee to conform to CEA (Technical Standard for Connectivity of the Distributed Generation Resources) Regulations, 2013 and with the Distribution system of the licensee as per CEA (Measures relating to Safety and Electric Supply), Regulations, 2010, as amended from time to time. • The grid interactive Rooftop Solar system may be installed with or without battery backup: • Provided that where the Rooftop Solar system is installed with battery backup, the inverter shall have separate backup wiring to prevent the battery/decentralized generation power to flow into the grid in the absence of grid supply and with the manual isolation switch • Consumer to be responsible for safe operation, maintenance and rectification of any defect of the Rooftop Solar system up to the point of Net Meter beyond which the responsibility including the Net Meter, shall be of the licensee. • Consumer to provide appropriate protection for islanding of SPV system from the network of Distribution Licensee during grid/supply failure. • Licensee shall have the right to disconnect the Rooftop Solar system at any time in the event of possible threat/damage, from such Rooftop Solar system to its distribution system, to prevent any accident or damage, without any notice.
9.	Third Party Owned Rooftop Solar PV system based on Net Metering	<ul style="list-style-type: none"> • Third party owned Rooftop SPV net metering model may consist of the developer/intermediaries leasing out system to interested Rooftop owners. • Electricity generated from such plants/system to be used to meet the eligible consumer's internal electricity needs, and the excess generation fed into the Grid (network of licensee) on Net Metering basis. • Developer to continue to be the owner of equipment and qualify for claiming depreciation on capital cost with associated direct tax benefits, if any. • Distribution Licensee to deal with the Rooftop owner/consumer only and arrangement between Rooftop owner and developer shall be personal to them.
10.	Metering	<ul style="list-style-type: none"> • Metering system shall be as per CEA (Installation and Operation of Meters) Regulations-2006, as amended from time to time. • Solar meter (unidirectional meter) to be installed at electricity generation point by Solar Energy System and delivered to the main panel. • Net metering equipment (Bi-directional meters) and the Solar meter as per CEA Regulations to be installed and maintained by the Distribution Licensee at the cost of the eligible consumer: • Eligible consumer may procure the net meter/solar meter and give to the Distribution Licensee for testing and installation and no meter rental shall be charged from the consumer. In case meters are provided by the Distribution Licensee, consumer to pay meter rental as approved by the Commission. • The installed meters shall be jointly inspected and sealed by the Distribution Licensee in the presence of the consumer • In case the eligible consumer is under the ambit of TOD Tariff, the meter compliant of recording time of day consumption/generation to be installed. • Meter reading taken by the Distribution Licensee shall form the basis of commercial settlement.

11.	Energy Accounting and Settlement	Accounting of the electricity generated, consumed and injected by the Rooftop Solar system to become effective from the date of connectivity of such system with the network of Distribution Licensee. The procedure for billing and energy accounting is Detailed in the Regulations Order
12.	Applicability of other Charges	<ul style="list-style-type: none"> • Rooftop Solar system under net metering whether self or third party owned installed on the premises of eligible consumer exempted from various provisions of PSERC (Terms & Conditions for Intra- State Open Access) Regulations, 2011, as amended from time to time: • Commission may review such exemption from time to time.
13.	Eligibility to Participate under REC	As per Central Electricity Regulatory Commission (Terms and Conditions for recognition and issuance of Renewable Energy Certificate for Renewable Energy Generation) Regulations, 2010 and subsequent amendments thereof
14.	Solar Renewable Purchase Obligation (RPO)	Quantum of electricity consumed by eligible consumer, who is not an Obligated entity from the Rooftop Solar system under net metering shall qualify towards compliance of RPO for the Distribution Licensee.
15.	Penalty or Compensation	In case of failure of net metering system, provisions of Supply Code shall apply
16.	Termination of Agreement	<ul style="list-style-type: none"> • Eligible consumer may terminate the agreement at any time by giving 30 days prior written notice to the licensee. • If an eligible consumer breaches any term of the agreement and does not remedy the breach within 30 days of receipt of written notice from the Distribution Licensee, licensee may terminate the agreement without any further notice. • Eligible consumer, upon termination of the agreement, shall disconnect forthwith the Photovoltaic system from licensee's distribution system..
17.	Power to Give Directions	Vested with the Commission
18.	Removal of Difficulties	Vested with the Commission
19.	Power to Relax	Vested with the Commission
20.	Power to Amend	Vested with the Commission