

# RAJASTHAN ELECTRICITY REGULATORY COMMISSION

## (Grid Interactive Distributed Renewable Energy Generating Systems) Regulations, 2021, Dated: 08-04-2021

Sl. No.	Description	Summary
1.	<b>Control Period</b>	N.A.
2.	<b>Applicability</b>	<ol style="list-style-type: none"> <li>1. These Regulations shall apply to the Distribution Licensee and consumers availing supply from such Distribution Licensee, in its area of supply in the State of Rajasthan.</li> <li>2. These Regulations shall apply to: <ul style="list-style-type: none"> <li>• Net Metering arrangements;</li> <li>• Net Billing arrangements;</li> <li>• Grid Interactive Distributed Renewable Energy generating systems connected behind the meter and operating in parallel with Distribution Licensees' grid and who have not opted either for Net Metering arrangement or Net Billing arrangement.</li> </ul> </li> <li>3. These Regulations shall be applicable to all Grid interactive Distributed Renewable Energy generating systems that are commissioned on or after 1<sup>st</sup> July 2021.</li> </ol>
3.	<b>General Principles</b>	<ol style="list-style-type: none"> <li>1. The Distribution Licensee shall offer the provision of Net Billing arrangement or Net Metering arrangement to the Eligible Consumer, who intends to install Grid Interactive Distributed Renewable Energy generating system in its area of supply on non-discriminatory and 'first come first serve' basis.</li> <li>2. Consumers having pending arrears with the Distribution Licensee shall not be eligible for Net Billing arrangement or Net Metering arrangement under these Regulations.</li> </ol>
4.	<b>Grid interactive Distributed Renewable Energy generating systems set up by RESCO</b>	<ol style="list-style-type: none"> <li>1. The Eligible Consumer may lease out / rent the Rooftop Space/ Land/ Water bodies to a RESCO on a mutual commercial arrangement for setting up Renewable Energy generating system under Net Billing arrangement or Net Metering arrangement.</li> <li>2. Under Net Metering and Net Billing Arrangement, RESCO shall enter into a direct agreement with consumer as regards its payment. There will be no tripartite agreement between RESCO, consumer and Distribution Licensee.</li> </ol>
5.	<b>Connectivity of Renewable Energy generating system</b>	<ol style="list-style-type: none"> <li>1. The cumulative capacity of Renewable Energy generating system to be allowed at a particular distribution transformer shall not exceed 50% of the capacity of such distribution transformer or such limit as may be stipulated by the Commission from time to time.</li> <li>2. The Distribution Licensee shall update the information about distribution transformer level capacity available for connecting Renewable Energy generating system under Net Billing arrangement or Net Metering arrangement on yearly basis and shall provide the information on its website.</li> </ol>
6.	<b>Eligible Consumer and Individual Project Capacity</b>	<ol style="list-style-type: none"> <li>1. The maximum Renewable Energy generating system capacity to be installed at any Eligible Consumer's premises shall not exceed 100% of the Sanctioned Load/Contract Demand of the consumer.</li> <li>2. The capacity of Renewable Energy generating system to be installed at the premises of any Eligible Consumer shall be up to one mega-watt under Net Metering arrangement or Net Billing arrangement.</li> <li>3. HT (11 kV and above) Consumers may install and connect Renewable Energy generating system at their LT Bus Bar System.</li> <li>4. An Eligible Consumer may install or enhance the capacity of, or upgrade the Renewable Energy generating systems at different locations within the same premises after following due procedure and intimating the concerned Distribution Licensee.</li> </ol>

7.	<b>Connection Agreement</b>	<ol style="list-style-type: none"> <li>1. The Distribution Licensee and Eligible Consumer shall enter into a Connection Agreement for Net Billing arrangement or Net Metering arrangement, after approval of connectivity of Renewable Energy generating system with the distribution network, but before the start of actual generation from the System.</li> <li>2. The Connection Agreement shall remain in force for twenty-five (25) years.</li> <li>3. The Eligible Consumer shall, upon termination of the Agreement, disconnect forthwith its Renewable Energy generating system from the Distribution Licensee's Network.</li> </ol>
8.	<b>Interconnection with the Grid: Standards and Safety</b>	<ol style="list-style-type: none"> <li>1. The Renewable Energy generating system and allied equipment will conform to the standards and requirements specified in these Regulations and in the following Regulations and codes, as amended from time to time: <ul style="list-style-type: none"> <li>• Central Electricity Authority (Technical Standards for connectivity of the Distributed Generating Resources) Regulations, 2013;</li> <li>• Central Electricity Authority (Installation and Operation of Meters) Regulations, 2006;</li> <li>• Central Electricity Authority (Measures relating to Safety and Electric Supply) Regulations, 2010;</li> <li>• RERC (Electricity Supply Code and Connected Matters) Regulations, 2021.</li> </ul> </li> <li>2. The consumer, who installs Renewable Energy generating system, shall be responsible for the safe operation, maintenance and rectification of defect of its system up to the Interconnection Point beyond which, the responsibility of safe operation, maintenance and rectification of any defect in the system including metering arrangement shall rest with the Distribution Licensee.</li> <li>3. The Eligible Consumer shall be solely responsible for any incident (fatal/non-fatal/departmental/non-departmental) that may occur due to back feeding from the Renewable Energy generating system when the grid supply is off.</li> <li>4. The Eligible Consumer may install Renewable Energy generating system with or without storage</li> <li>5. IEC- 62116 technical standards shall be followed to test islanding prevention measure for grid connected inverters.</li> <li>6. Every Renewable Energy generating system shall be equipped with automatic synchronization device.</li> <li>7. The inverter shall have the features of filtering out harmonics and other distortions before injecting the energy into the system of the Distribution Licensee.</li> </ol>
9.	<b>Renewable Energy generating system connected behind the Consumer's Meter</b>	<ol style="list-style-type: none"> <li>1. Renewable Energy generating system connected behind the Consumer's meter, operating in parallel with the Distribution Licensee's Grid, and not opting either for Net Billing arrangement or Net Metering arrangement, shall be allowed only after prior intimation to the respective Distribution Licensee.</li> <li>2. The maximum permissible capacity of an eligible individual Renewable Energy generating system installed behind Consumer's meter shall be limited to 100% of Contract Demand as specified in these Regulations.</li> <li>3. Any quantum of energy injected by such Renewable Energy Generating System connected behind the Consumer's meter shall be considered as inadvertent injection and penalty shall be levied on such inadvertent injection as per the applicable relevant Regulations in force.</li> <li>4. Apart from Parallel Operation Charges, the Commission may also determine additional Parallel Operation Charges in the form of Fixed Charges or Demand Charges and any other Charges for such systems installed behind the consumer's meter, in the retail Tariff Order, if the Distribution Licensee proposes such additional Fixed Charges or Demand Charges and any other Charges for such systems, in its retail supply Tariff Petition, supported by adequate justification.</li> <li>5. Consumer fails to intimate the details of Solar Rooftop PV system behind the Consumer's meter to the Distribution Licensee within the specified time, the additional liabilities may be levied at the rate of fixed charges, applicable as per the tariff order of Distribution Licensees for the relevant consumer category for such period of delay.</li> </ol>

10.	<b>Metering arrangement</b>	<ol style="list-style-type: none"> <li>1. All meters installed at the Renewable Energy generating system shall comply with the CEA (Installation and Operation of Meters) Regulations, 2006 and subsequent amendments thereof.</li> <li>2. All meters shall have Advanced Metering Infrastructure (AMI) facility with RS 485 (or higher) communication port or any other advance communication facility.</li> <li>3. The Eligible Consumer shall install, at his own cost, a RE Generation Meter conforming to the applicable CEA Regulations at the Interconnection Point of Renewable Energy generating system, to measure the energy generated from such system.</li> <li>4. A consumer, at his own cost, shall also install a Check Meter of appropriate class for the RE Generation Meter.</li> </ol>
11.	<b>Energy Accounting and Settlement</b>	<ol style="list-style-type: none"> <li>1. The Distribution Licensee shall undertake meter reading of both, RE Generation Meter and the Consumer Meter or Net Meter, as applicable, for all Eligible Consumers, according to the regular metering cycle.</li> <li>2. Meter readings shall be taken monthly or as per the billing cycle specified under the applicable Supply Code.</li> </ol>
12.	<b>Net Billing Arrangement</b>	<ol style="list-style-type: none"> <li>1. Net Billing is the arrangement, where the Renewable Energy generating system is: <ul style="list-style-type: none"> <li>• Installed to serve a specific consumer;</li> <li>• Connected on the Distribution Licensee side of the consumer meter;</li> <li>• Selling entire power generated to the Distribution Licensee under the Connection Agreement at the tariff agreed in the Connection Agreement with the Distribution Licensee, and the amount payable by the Distribution Licensee is reduced from the amount payable by the consumer for electricity supplied by the Distribution Licensee.</li> </ul> </li> <li>2. The Distribution Licensee shall enter into Connection Agreement at the weighted average tariff discovered through Competitive Bidding for respective technology in previous Financial Year and adopted by the Commission, plus an incentive of 25%. In case no bidding is done in previous Financial Year, then the latest tariff discovered through competitive bidding plus an incentive of 25% shall be applicable.</li> <li>3. If the value of Renewable Energy generation in a month is more than the value of all other components of consumer bill, then the billing credit shall be provided by Distribution Licensee in the electricity bill for such month.</li> <li>4. When an Eligible Consumer leaves the system, the available billing credit shall lapse, and no payments shall be made.</li> </ol>
13.	<b>Net Metering Arrangement</b>	<ol style="list-style-type: none"> <li>1. If the quantum of electricity exported by a domestic category consumer exceeds the quantum imported during the Billing Period, the excess quantum exported by such domestic consumer shall be purchased by the Distribution Licensee at the weighted average tariff of large-scale solar projects of 5 MW and more, discovered through Competitive Bidding in last Financial Year, and adopted by the Commission.</li> <li>2. In case no bidding is done in previous Financial Year, then the latest tariff discovered through competitive bidding shall be applicable.</li> <li>3. The total amount arrived for excess energy injected by such consumer shall be adjusted in the form of credit equivalent to such amount payable in the immediately succeeding billing cycle.</li> <li>4. In case of consumers other than domestic category, including those having existing Net Metering installations governed as per the Rajasthan Electricity Regulatory Commission (Connectivity and Net Metering for Rooftop and Small Solar Grid Interactive Systems) Regulations, 2015 and subsequent amendments thereof, the net surplus electricity remaining available at the end of billing period of the respective category shall lapse and no payment shall be made for the same.</li> <li>5. If the quantum of electricity Units imported by the Eligible Consumer during any Billing Period exceeds the quantum exported, the Distribution Licensee shall raise its bill for the net electricity consumption after adjusting the credited Units.</li> <li>6. In case of any dispute in billing, it would be settled by the Consumer Grievance Redressal Forum and if issue still remains unresolved, the consumer may approach the Ombudsman.</li> </ol>

14.	<b>Renewable Purchase Obligation</b>	The quantum of electricity generated from the Renewable Energy generating system under Net Billing arrangement or Net Metering arrangement by an Eligible Consumer, shall qualify towards compliance of Renewable Purchase Obligation (RPO) for the Distribution Licensee in whose area of supply, the Eligible Consumer is located.
15.	<b>Applicability of other charges</b>	<ol style="list-style-type: none"> <li>1. The quantum of electricity generated from the self-owned Renewable Energy generating system under Net Metering arrangement, if installed on Eligible Consumer premises, shall be exempted from banking charges, wheeling charges, cross subsidy surcharge, and additional surcharge.</li> <li>2. The quantum of electricity generated from the RESCO-owned Renewable Energy generating system under Net Metering arrangement, if installed on Eligible Consumer premises, shall be exempted from banking charges and wheeling charges.</li> <li>3. In case of consumer categories for which cross subsidy surcharge and additional surcharge has not been determined by the Commission, surcharge (cross subsidy plus additional surcharge), shall be applicable @ Rs 1.25/kWh for such category of consumers, till the same is revised by the Commission through a separate order.</li> </ol>
16.	<b>Sharing of CDM Benefits</b>	The entire CDM benefits obtained by the Distribution Licensee shall be fully passed on to the consumers through the ARR.
17.	<b>Parallel Operation Charges</b>	<ol style="list-style-type: none"> <li>1. The Commission may stipulate from time to time the 'Parallel Operation Charges' to be levied on the energy generated under Net Metering systems, which shall cover balancing, banking and wheeling cost after adjusting RPO benefits, avoided distribution losses and any other benefits accruing to the Distribution Licensee, based on the Petition filed by Distribution Licensee, supported by adequate justification:</li> <li>2. No Parallel Operation Charges shall be levied on Net Billing consumers.</li> </ol>
18.	<b>Penalty</b>	In case of failure to meet the requirements under these Regulations, the Renewable Energy generating system or the Distribution Licensee, as the case may be, shall be liable to pay penalty as decided by the Commission from time to time.