

# FOR PUBLICATION IN DELHI GAZETTE EXTRAORDINARY PART -III

## Delhi Electricity Regulatory Commission Notification

### Delhi Electricity Regulatory Commission (Net Metering for Renewable Energy) Regulations, 2014

**No. F. 9(116)/DERC/Tariff/DS/2013-14/C.F 4110/** - In exercise of powers conferred under Section 181 read with Sections 61 and 86(1) (e) of the Electricity Act, 2003 (Act 36 of 2003) and all other powers enabling it in this behalf, the Delhi Electricity Regulatory Commission hereby makes the following regulations for Net Metering and grid connectivity for Renewable Energy Generator.

#### **1. Short title and commencement**

- (1) These regulations may be called the Delhi Electricity Regulatory Commission (Net Metering for Renewable Energy) Regulations, 2014.
- (2) These Regulations shall come into force from the date of their publication in the Official Gazette.

#### **2. Definitions**

In these regulations, unless the context otherwise requires,

- (1) “accuracy class index” shall mean the index as specified in Central Electricity Authority (Installation & operation of meters) Regulations 2006 and subsequent amendments thereof;
- (2) “Act” means the Electricity Act, 2003 (36 of 2003) and subsequent amendments thereof;
- (3) “connection agreement” means the agreement entered into for connecting Renewable Energy Source to the Distribution system;
- (4) “banking” means the process under which a Renewable Energy Source injects power into the grid in a time block with the facility to draw back the power from the grid at a different time block under the Central Electricity Regulatory Commission (Deviation Settlement Mechanism and related matters) Regulations,

2014 and subsequent amendments thereof;

- (5) "billing cycle" means the period for which bill is raised;
- (6) "Commission" means Delhi Electricity Regulatory Commission;
- (7) "connected load" or "contract demand" or "sanctioned load" shall have the same meaning as defined in clause (n), (o) and (zn) of Regulation 2 respectively under Delhi Electricity Supply Code and Performance Standards Regulations 2007;
- (8) "financial year" or "year" means the period beginning from first day of April in an English calendar year and ending with the thirty first day of March of the next year;
- (9) "interconnection point" means the interface of Renewable Energy source with the network of distribution licensee;
- (10) "invoice" means either a periodic bill / supplementary bill or a periodic Invoice/ supplementary invoice raised by the Distribution Licensee;
- (11) "kVAh" means kilo volt ampere hour ;
- (12) "kWp" means kilo watt peak;
- (13) "net meter" means an appropriate energy meter capable of recording both import & export of electricity or a pair of meters one each for recording the net import and net export of electricity as the case may be;
- (14) "Obligated Entity" means the entity mandated under clause (e) of subsection (1) of section 86 of the Act to fulfill the renewable purchase obligation and identified under DERC (Renewable Purchase Obligation and Renewable Energy Certificate Framework Implementation) Regulations 2012;
- (15) "premises" includes any land, building, structure or rooftop or part or combination thereof;
- (16) "Renewable Energy Certificate (REC)" means the certificate issued in accordance with the 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;
- (17) "renewable energy generator" means the person, which may either be the consumer of the premises or any third party, who is responsible for generating electricity from Renewable Energy sources installed at the consumer's premises;

- (18) “renewable energy meter” refers to a unidirectional energy meter, installed and used solely to record the renewable energy generation from the Renewable Energy System installed at the consumer’s premises;
- (19) “renewable energy system” means the system to generate electricity from such source(s) which are recognized as renewable energy source(s) by Ministry of New and Renewable Energy (MNRE) or any other agency as may be notified by Government of India/Commission;
- (20) “State Agency” means the agency as designated by the Commission under sub regulation (6) of DERC (Renewable Purchase Obligation & Renewable Energy Certificate Framework Implementation) Regulations, 2012.

### **3. Interpretation**

- (1) All other words and expressions used in these Regulations although not specifically defined herein, but defined in the Act, shall have the meaning assigned to them in the Act.
- (2) The other words and expressions used herein but not specifically defined in these Regulations or in the Act but defined under any law passed by the Parliament or any regulation issued by the Commission, applicable to the electricity industry in the State, shall have the meaning assigned to them in such law/regulation.

### **4. Scope and application**

- (1) These Regulations shall apply to such consumers who are a buyer of energy/electricity from the distribution licensee in its area of supply and the distribution licensee.
- (2) The Renewable Energy System shall comply with the standards and technical specifications as may be prescribed from time to time under the applicable law.

### **5. General conditions**

- (1) The Distribution Licensee shall allow connectivity to the Renewable Energy System, on first come first serve basis, subject to operational constraints

Provided that the available capacity at a particular distribution transformer, to be allowed for connectivity under these Regulations, shall not be less than the limits as specified by the Commission from time to time

- (2) The Distribution Licensee shall provide information regarding distribution

transformer level capacity available for connecting Renewable Energy System under net metering arrangement within 1 (one) month from the date of notification of these regulations on its website and shall update the same within 7 working days of the subsequent financial year under intimation to the Commission.

- (3) The capacity of Renewable Energy System to be installed at any premises shall be subject to;
  - (i) the feasibility of interconnection with the grid;
  - (ii) the available capacity of the service line connection of the consumers of the premises; and
  - (iii) the sanctioned load of the Consumer of the premises;
- (4) Subject to Regulation 5(3)(i) & 5(3)(ii), if a Renewable Energy Generator has already installed or intends to install a Renewable Energy System of capacity higher than the sanctioned load of the consumer of the premises, and requires to connect it with the distribution licensee's system, then such Consumer of premises shall pay Service Line cum Development (SLD) charges at the time of registration of Renewable Energy System, equal to the differential amount of SLD charges between the capacity of the Renewable Energy System and the existing sanctioned load on the lines of enhancement of sanctioned load, as prescribed in the DERC Supply Code & Performance Standards, Regulations 2007 as amended from time to time and relevant orders issued thereof by the Commission from time to time.
- (5) The capacity of Renewable Energy system to be installed at the Premises of any consumer shall not be less than one kilo watt peak.

## **6. Procedure for Application and Registration**

- (1) The Commission may issue guidelines and directions from time to time in respect of submission and processing of the application and applicable fee there-off for connectivity of Renewable Energy System with the distribution system under these Regulations which the Distribution Licensee, consumer of the premises and the Renewable Energy Generator shall abide by.
- (2) The consumer of the premises and/ or the Renewable Energy Generator, as the case may be, shall submit the application to the concerned Distribution Licensee to connect the Renewable Energy system to the distribution system of the Distribution. The Distribution Licensee shall make available all the forms on their website and at their local offices.

- (3) The Distribution Licensee shall acknowledge the application and take all necessary actions including sending appropriate communications to the applicant as per the guidelines issued under these Regulations.

## **7 Interconnectivity, Standards and Safety**

- (1) The distribution licensee shall ensure that:-
  - (i) the interconnection of the Renewable Energy System with the distribution system of the licensee conforms to the specifications, standards and provisions as provided in the Central Electricity Authority (Technical Standards for connectivity of the Distributed Generation Resources) Regulations, 2013, as amended from time to time;
  - (ii) the interconnection of the Renewable Energy System with the distribution system of the licensee conforms to the relevant provisions of the Central Electricity Authority (Measures relating to Safety and Electric Supply), Regulations, 2010, as amended from time to time
- (2) The Renewable Energy Generator may install grid interactive Renewable Energy system with or without battery backup.

Provided that if the Renewable Energy Generator, prefers connectivity with battery backup (full load backup/partial load backup), in all such cases the inverter shall have separate backup wiring to prevent the battery/ Decentralized generation(DG) power to flow into the grid in the absence of grid supply and manual isolation switch shall also be provided.

- (3) The Renewable Energy Generator shall be responsible for safe operation, maintenance and rectification of any defect of the Renewable Energy System upto the point of Net Meter beyond which the responsibility of safe operation, maintenance and rectification of any defect in the system, including the Net Meter, shall rest with the Distribution Licensee.
- (4) The Distribution Licensee shall have the right to disconnect the Renewable Energy System at any time in the event of possible threat/damage, from such Renewable Energy System to its distribution system, to prevent an accident or damage. Subject to Regulation 7 (3) above, the Distribution Licensee may call upon the Renewable Energy Generator to rectify the defect within a reasonable time.

## **8. Metering arrangement**

- (1) All the meters shall adhere to the standards as specified in CEA (Installation and Operation of meters) Regulations 2006 and (Installation and Operation of meters) Regulations, 2010 as amended from time to time.
- (2) The Net Meter shall be, as per single phase or three phase requirement. All the meters to be installed for net metering shall be of the same or better Accuracy Class Index than the existing meter installed at its Premises.
- (3) The Renewable Energy Meter and the Net Meter at the premises of the consumer shall be procured and installed by the Distribution Licensee as per the provisions of DERC (Supply Code and Performance Standards) Regulations 2007. However, if the consumer of the premises wishes to procure the Net Meter, he may procure such meter and present the same to the distribution licensee for testing and installation.
- (4) All meters, including the Renewable Energy Meter shall be installed at an accessible location of the Premises to facilitate easy access for meter reading to the Distribution Licensee.
- (5) The cost of Renewable Energy Meter shall be borne by the distribution licensee and the cost of Net Meter shall be borne by the consumer of the premises. The consumer of the premises or the distribution licensee, who so ever if desires, may install check meter at their own cost.
- (6) The charges for the testing and installation of the Net Meters shall be borne by the consumer of the premises and for the Renewable Energy Meter shall be borne by the Distribution Licensee
- (7) The Net Meters to be installed for the consumers of the premises under the ambit of time of day tariff shall be time of day (ToD) compliant.

## **9. Billing and Energy Accounting**

- (1) The accounting of electricity generated, consumed and injected by the Renewable Energy Generator under these regulations shall become effective from the date of connectivity of Renewable Energy System with the distribution system under these Regulations.
- (2) The procedure for billing and energy accounting shall be applicable as directed by the Commission from time to time.

- (3) The Distribution Licensee shall show, separately, the energy units exported, the energy units imported, the net energy units billed and/or the energy units carried forward, if any, to the consumer in their bill for the respective billing period.
- (4) If during any billing period, the export of units exceeds the import of units consumed, such surplus units injected by the consumer shall be carried forward to the next billing period as energy credit and shown as energy exported by the consumer for adjustment against the energy consumed in subsequent billing periods within the settlement period.
- (5) During any billing cycle, the distribution licensee shall raise invoice for the net electricity consumption, as per applicable tariff, only after adjusting / netting off of the unadjusted energy credits of the previous billing cycle(s).
- (6) The surplus energy measured in kilo-watt hour shall be utilized to offset the consumption measured in kilo-watt hour only unless otherwise allowed by the Commission from time to time. In case the Consumer is billed on kVAh, during injection of surplus energy to the grid, the Power Factor shall be assumed equal to unity.
- (7) At the end of the each Financial Year, any net energy credits, which remain unadjusted, shall be paid for by the distribution licensee to the consumers as per the rates notified by the Commission from time to time.
- (8) There shall be no deemed generation charges payable to the Renewable Energy Generator or consumer of the premises.

#### **10. Applicability of other charges**

The Renewable Energy system under net metering arrangement shall be exempted from wheeling, banking, cross subsidy and other charges for a period of Five years, unless extended thereafter.

#### **11. Eligibility to Participate under Renewable Energy Certificate Mechanism**

The eligibility for Renewable Energy Certificate and issue of such certificate Renewable Energy under these Regulations shall be as per the eligibility criteria specified under 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;

#### **12. Renewable Purchase Obligation**

The quantum of electricity generated under these Regulations shall qualify towards compliance of Renewable Purchase Obligation (RPO) for the distribution licensee if Renewable Energy Generator is not an obligated entity.

**13. Violation of regulations:**

- (1) In case of violation of these regulations by a party viz. consumer, distribution licensee and Renewable Energy Generator shall be liable to pay penalty as decided by the Commission.
- (2) The Commission may grant compensation to the affected party.

**14. Powers to give directions**

The Commission may from time to time issue such directions/guidelines/ orders as it may consider deemed fit/appropriate for the implementation of these Regulations

**15. Powers to relax**

The Commission may by general or special order, for reasons to be recorded in writing may relax any of the provisions of these Regulations on its own motion or on an application made before it by an interested person.

**16. Powers to amend**

The Commission may from time to time add, vary, alter, suspend, modify, amend or repeal any provisions of these Regulations

**Jayshree Raghuraman  
Secretary**

**Delhi,  
Dated : 2<sup>nd</sup> September, 2014.**