



Bangalore Electricity Supply Company Limited

(wholly owned Government of Karnataka undertaking)

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Office of the
Chief General Manager (CA),
Corporate Office, BESCOM,
K.R. Circle, Bangalore.

Ref. No. : BESCOM/BC-51/3584/2014-15/Cys-33

Date: 07.11.2014

OFFICIAL MEMORANDUM

Sub: Implementation of Grid connected Solar Rooftop Photovoltaic (SRTPV) generation programme on Net-metering in BESCOM jurisdiction.

- Ref:**
1. KERC order on determination of Tariff for grid interactive Solar power plants including Roof-top and small solar Photovoltaic power plants vide ltr No: S/03/1, dtd: 10.10.2013.
 2. GoK Solar Energy Policy No. EN21 VSC 2014, dtd: 22.05.2014 (2014-2021).
 3. KERC approved different formats and timeline guidelines vide letter No.: S/03/1/892, dtd: 27.08.2014, for implementation of Solar Rooftop programme.
 4. PPA format approved by KERC for Solar Roof-top installations No. KERC/ S/F-50/vol-8(b)/1018, dtd: 19.09.2014.
 5. Proceeding of the workshop held on 09.10.2014 for implementation of Solar Roof top PV program in all ESCOMs vide No: BESCOM/ GM(DSM)/ BC-51/ 2014-15/ Cys-31, dtd: 21.10.2014.

Preamble:

KERC has determined grid connected Tariff for Solar Rooftop and small Solar PV plants vide reference (1), (without subsidy at Rs.9.56 and 30% capital subsidy from MNRE at Rs.7.20 per unit of net export to the grid). This tariff is applicable to Solar Rooftop power generator entering into PPA on or after 01.04.2013 upto 31.03.2018, for a period of 25 years.

Govt. of Karnataka has announced Solar policy cited under reference (2) and proposed to achieve a minimum of 100 MWs of SRTPV generation for each year from 2014-15 to 2017-18, totaling 400 MWs to be generated on Solar rooftops. This target has been fixed to achieve Solar obligation of 1.5% for the year 2014-15 which shall raise to 3.0% for the year 2020-21.

KERC has approved guidelines, timelines and standard format of Application, Power Purchase Agreement and related formats for SRTPV plants under reference (3) & (4).

In the workshop held on 09.10.2014 on Implementation of SRTPV programme in all ESCOMs, MD, BESCO initiated discussion on the various formats and guidelines prepared for implementation of SRTPV system in the presence of Chairman and members of KERC, Additional Chief Secretary to GoK, Energy Department and Engineers from all ESCOMs.

Govt. of Karnataka permits implementation of On-grid SRTPV system on net-metering facility for the consumers who intend to encourage the Solar green energy and setup solar PV plants.

Hence, this OM.

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On-grid Solar Rooftop PV programme on net-metering basis shall be implemented in BESCO jurisdiction with the following guidelines:

1. Under the facility, the consumers can setup solar PV plants at unutilized places on rooftops of buildings of individual households, industries, offices, institutions, residential complexes, etc.
2. Net-metering is the concept, which records both export of solar generated energy into the grid (after self-consumption) and import of BESCO grid energy into the installation for a billing month. The Bi-directional meter is having the feature of recording both import and export units, besides other parameters as notified by CEA metering regulations.
3. The Bi-directional meter (net-meter) vendors list is available on the BESCO website www.besco.org
4. The consumer can select any reputed system installer to install the SRTPV System, who has experience in design, supply and installation of SRTPV system. For the convenience of the consumer, list of MNRE channel partners is available on the BESCO website.
5. The consumer shall use the inverter from MNRE approved inverter manufacturers only. Test report for the tests conducted for IS/IEC standards and specification of the modules and inverter shall be submitted by the consumer. MNRE approved inverter manufacturers list is available on the BESCO website.
6. AEE, C,O&M, BESCO is the inspection authority for SRTPV systems upto 10kWp and above 10kWp, Chief Electrical Inspectorate, Govt. of Karnataka is the inspecting authority to meet safety standards.

7. Billing and Payment to consumers:

- BESCOM will issue monthly electricity bill for the net metered energy on the scheduled date of meter reading.
- In case, the exported energy is more than the imported energy, BESCOM shall pay for the net energy exported after self-consumption as per Tariff agreed in the agreement within 30 days of issue of bills duly adjusting the fixed charges and electricity dues if any and credited to the bank account through NEFT.
- In case, the exported energy is less than the imported energy, the SRTPV consumer shall pay BESCOM for the net imported energy as per the prevailing retail supply tariff determined by the Commission from time to time.

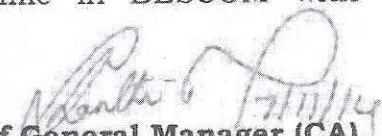
8. The consumer shall bear the entire cost of metering arrangement provided including its accessories. The installation of meters including CTs, wherever applicable shall be carried out as per the departmental procedures in vogue with prior permission of BESCOM.

9. In case, the installed (also read proposed) capacity of the SRTPV system is higher than the sanctioned load of the consumer, which may consequently requires an upgradation in the infrastructure (service line, meter with CTs (if required), transformer upgradation (if required)), the consumer will have to upgrade at his/ her/ its own cost under prevailing conditions of deposit contribution work.

10. Consumer can avail subsidy from MNRE through KREDL only.

11. Details of guidelines to consumer, guidelines to BESCOM officials, Application and other formats, procedure to be followed, schematic diagram, standards & specifications of SRTPV system, etc., are available in the BESCOM website www.bescom.org

All the concerned officers and officials of BESCOM are directed to take necessary action to implement the above programme in BESCOM with immediate effect.


Chief General Manager (CA),
BESCOM, Bangalore.

Copy for kind information to:

1. The Director (Technical), BESCOM, Corporate Office, Bangalore.
2. The Director (Finance), BESCOM, Corporate Office, Bangalore.

Copy to:

3. All the Chief General Managers, BESCO, Corporate Office, Bangalore.
4. All the Chief Engineers (Ele)., C, O&M, BMAZ/BRAZ/CTAZ, BESCO.
5. The Chief Engineer, (Ele), SLDC, KPTCL, Bangalore.
6. The Chief Electrical Inspectorate, GoK, Bangalore.
7. All the General Managers, Corporate Office, BESCO, Bangalore.
8. All the Superintending Engineers (Ele)., C, O&M Circle, BESCO.
9. All the Controller of Accounts, BMAZ/BRAZ/CTAZ, BESCO.
10. All the Deputy General Managers, Corporate Office, BESCO, Bangalore.
11. All the Executive Engineers (Ele)., C, O&M division, BESCO.
12. All the Deputy Controller of Accounts, C, O&M Circle, BESCO.
13. All the Asst. General Managers, Corporate Office, BESCO, Bangalore.
14. All the Asst. Executive Engineers (Ele)., C, O&M sub-division, BESCO.
15. All the Accounts Officers, C, O&M division, BESCO.
16. Ps to MD, BESCO, Corporate Office, Bangalore to place it before MD, BESCO.
17. MF/OC.