

BANGALORE ELECTRICITY SUPPLY COMPANY

(A GOVT OF KARNATAKA UNDERTAKING)



SOLAR ROOFTOP PROGRAM UNDER NET METERING



The use of solar energy has not been opened up because the oil industry does not own the sun.

Ralph Nader

IMPORTANT EVENTS

- On 10.10.2013, the KARNATAKA ELECTRICTY REGULATORY COMMISSION (KERC) determined the tariff of Solar Rooftop PV systems as Rs. 9.56 without subsidy & Rs.7.20 with subsidy.
- On 22.05.2014, the Government of Karnataka (GoK) announced the Solar policy 2014-2018 and set a target of 400MW.
- On 07.11.2014, the Solar Rooftop policy launched in BESCOM and extended to all ESCOM'S.

BESCOM JOURNERY TOWARDS SOLAR RTPV PROGRAM



On-line Applications invited from all the consumers of BESCOM

❖ SRTPV capacity is from 1 kW to 1 MW

Applicant can select any System integrator or PV module

Mandatory use of BESCOM empanelled Grid Tied Inverter & Bi-directional meter

APPLICATION STATUS

Particulars	No. of SRTPV installations	Capacity in MW	Remarks
Total no. of Applications	3356	1339.7	_
Commissioned	386	6.81	_
Total PPA executed	1575	846.35	_



BESCOM Corporate office - 50kW Karnataka state cricket association - 400kW



Residential house at kengari- 5 kW Residential house at J P nagar - 1.8 k W



I for promotion of Solar rooftop program

THE SRTPV APPLICATION FORMAT, PROCEDURES, FAQ, GUIDELINES TO CONSUMERS & BESCOM OFFICERS, OTHER RELATED FORMATS

PREPARED BY BESCOM EXPERT COMMITTEE AND HOSTED IN BESCOM WEBSITE WWW.BESCOM.ORG

FORMATION OF TECHNICAL & PROCESS COMMITTEE

EMINENT EXPERTS DRAWN FROM USAID, CPRI, GERMI, UL,

TO SIMPLIFY THE PROCESS AND TO MAKE HURDLE FREE GATEWAY

Major decision taken in the committee are:

- ✓ Inspectorate approval exempted for SRTPV installation less than 10kW
- ✓ EMPOWERED AEE to Commission SRTPV installations less than 5 KWp.
- ✓ For HT installations interconnection point permitted at LT Bus Bar.
- ✓ Thus reduced technical loss and saving to consumer as cost of step-up DTC infrastructure is avoided.

Major decision taken in the committee are:

- ✓ Penetration limit of Solar RTPV upto 80% of the Distribution Transformer capacity (DTC)
- ✓ Execution of TPA between BESCOM, SRTPV consumer and investor / developer.
- ✓ Permitted registration of applications under construction.
- √ This opened the flood gates for registration of applications.

Empanelment of Manufacturers of:



Grid tied Inverters

ABB, SMA DELTA,

Fronius, Studer etc



Bi-directional meters Make : Secure & genus

Empanlement of facilitators

Mitcon, ORB, Sterling, Genus, Greenfuel etc

Empanelment of Hybrid Inverter:

With battery backup for assuring 24 * 7 hrs P/S - Studer make



Hybrid system:

Solar + small wind mill system proposed for Govt buildings



Combination of Hybrid & grid tied inverter for assuring uninterrupted P/S in Rural areas



Machohalli school

- ✓ Hand holding other Govt department for preparation of tender documents w.r.t Solar RTPV system
- ✓ Standardization of Technical specifications and qualification requirements for tender and hosted in BESCOM website as ready reckoner for inviting bids for other departments

✓ Installation of SRTPV on all BESCOM office buildings under IPDS scheme

- ✓ Invited service tender for installation of modems to all SRTPV locations
- ✓ SOLAR RTPV dashboard to know the Solar generation.

✓ Empanelment of agencies for installation of SRTPV on Govt schools / colleges to utilized the funds allocated by 13 th finance commission, Gol.



SURYA RAITHA SOLAR PUMP - PILOT PROJECT:



- ✓ Introduced on 24.9.2014 for welfare of farmers.
- ✓ To harness energy from solar to run IP sets and feed in excess energy to grid.
- ✓ Assured quality of power supply to farmers during day time.
- ✓ Assured additional income to farmers.
- ✓ Improvement in water table.
- ✓ Reduction in peak load, losses and energy consumption.
- ✓ Execution of TPA between BESCOM, SRTPV consumer and investor / developer.

✓ Formation of SOLAR HELP DESK at Corporate office BESCOM



✓ In-house training to BESCOM officers



✓ SRTPV PROSUMERS INTERACTION MEETING



✓ ADVERTISEMENTS
 Through DDIS at
 Reservation counters
 At all Major Railway
 Stations





ADVERTISEMENTS IN







RADIO JINGLES

BESCOM ACTIVE PARTICIPATION IN





GREEN
SUMMIT 2015

BESCOM STALL AT ELECRAMA 2016





GLOBAL INVEST MEET (GIM) - 2016



Vidyuth Jagruthi Yojana

Energy saving & awareness program to school / college students



Target of reaching 100 schools / colleges, 50 thousand students



New Innovative Technologies

✓ Micro inverters



√ Tracking system



- ✓ Composite panels which generate electricity and hot water
 - √ Pyramid / Concentrated panels
- ✓ Battery storage system

THANK YOU



Be the change you want to see in the world