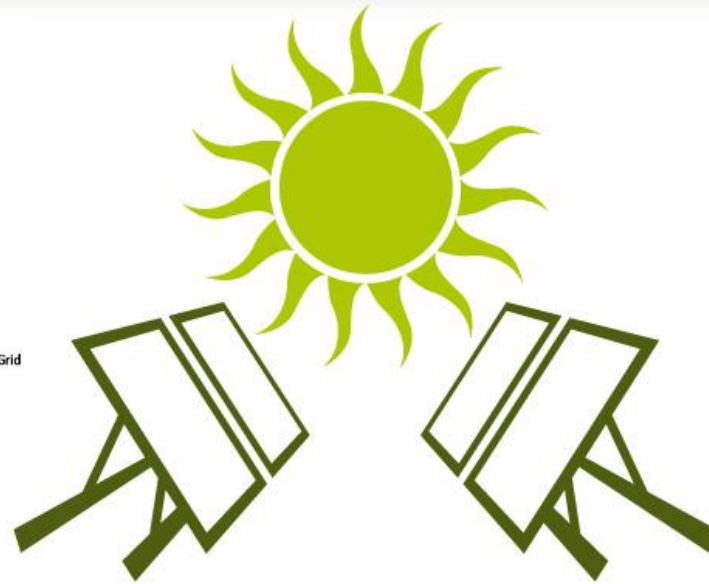
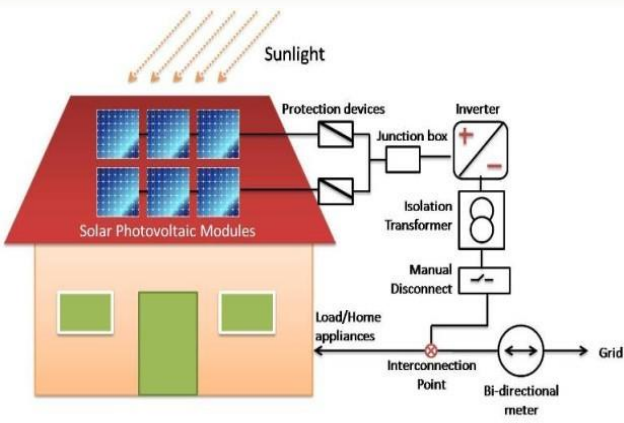


# Chandigarh : An Emerging Solar City



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# UT Chandigarh: The Journey so far

- MNRE,GOI, New Delhi selected Chandigarh to be developed as **Model Solar City** through Chandigarh Renewable Energy, Science and Technology Promotion Society (CREST).
- Master Plan for 10 years for Model Solar City was prepared by The Energy and Resource Institute (TERI)
- The Master Plan was approved by MNRE, Govt. of India in Jan/2012.



- Approved Master plan of 'Chandigarh Solar' City envisaged mid term target of 5 MWp Rooftop Solar ( by 2017) and long term target of 10 MWp rooftop solar plants installation by 2022 to be achieved.
- **Chandigarh is well ahead in terms of achievement and has already installed & commissioned 7.7 MWp Grid tied Rooftop Solar plants as on 30<sup>th</sup> April,2016.**
- In view of enhanced target of 100 GW to be achieved by 2022 as announced by Govt of India last year, **MNRE, GOI has set 50 MW as Solar PV target for Chandigarh Administration to be achieved by 2022** in tune with Revised Power Tariff policy of 2016





# Nodal Agency

CHANDIGARH RENEWABLE ENERGY SCIENCE &  
TECHNOLOGY PROMOTIONAL SOCIETY  
(CREST)

**CREST IS THE EXECUTING AGENCY FOR MNRE (G.O.I) SCHEMES &  
RENEWABLE ENERGY PROJECTS IN CHANDIGARH**

Chandigarh Electricity Department is the DISCOM in UT Chandigarh



# SOLAR ENERGY INITIATIVES/STRATEGIES

- Chandigarh has conceived installation of Roof Top based SPV Power Projects as use of other renewable sources like wind power, Hydro power etc. is minimal in the Union Territory
- Chandigarh is almost fully built up and land is very precious so Rooftop Solar was the best alternative available to utilize vacant roof space as resource.
- All are Grid tied solar PV Plants mostly under Net metering arrangement so that solar energy generated is first consumed locally at respective building loads and excess if any, is exported to the grid.



# Major Highlights:

- As on 30<sup>th</sup> April, 2016, Chandigarh has installed Rooftop Solar Plants of overall capacity of **7.782 MWp on 140 Nos.** of Govt buildings in U.T. Chandigarh.
- These 140 solar plants include followings:
  - Installation & commissioning of Rooftop solar plants in **59 Govt schools of UT Chandigarh of overall capacity of 2290 kWp.**
  - Installation & commissioning of Rooftop solar plants on **all 11 Govt colleges in Chandigarh leading to overall capacity of 2.77 MWp.**
  - One of the largest rooftop Solar PV Plant of **1 MW capacity installed & commissioned at Punjab Engineering college, Sec 12**



# Solar RPO Compliance status for UT Chandigarh

Year	Energy Sale in MU	Soalr Target in %	Solar Target in MUs	RPOs met in MUs (Actual)	% RPO met
2010-11	1285	0.25	3.213	0	0.0
2011-12	1307.47	0.30	3.922	0	0.0
2012-13	1376.42	0.40	5.505	2.355	42.8
2013-14	1423.05	0.40	5.692	15.608	274.2
2014-15	1483	0.60	8.898	9.38	105.4
2015-16	1510	0.85	12.835	13.054	101.7



# Climate Change Initiative

- **As on 30<sup>th</sup> April, 2016, Chandigarh has already generated 10.4 MU of solar energy ( in last 2.5 years) which is equivalent to reduction of 7176 metric ton of CO2 and in turn equivalent to planting of 777920 trees.**





# Future Strategies:

Si No	Agency	Target
1.	UT Administration's intervention	30 MW
2.	Central Govt Establishment's located in Chandigarh	10 MW
3.	Private Sector/ Industries/Institutions/ Residential Houses/ RESCO Mode	10 MW



## **Promotion of Solar Energy in Residential/Industrial /Commercial sector**

- Joint Electricity Regulatory Commission for Goa & UTs ( JERC) has notified the **Solar Tariff & Net metering Regulation 2015** on 8<sup>th</sup> May,2015 which is offering a very attractive rate which shall definitely lead to installation of Solar Plants on private houses/Industrial/commercial establishments
- As per the Regulation, any electricity consumer/resident can opt for 'Gross Metering' billing arrangement or for 'Net Metering'.
- Any electricity consumer/resident can install & sell Solar power @ Rs 8.51 per unit( kW hr) from solar plant without subsidy and @Rs 6.14 per unit with capital subsidy of 30%



- CREST has empanelled 27 Nos. Solar Plant Installers/aggregators along with rates from whom any residents can install Solar plant and can avail 30% subsidy, as decided by MNRE, GOI.
- **A new online website/software platform** launched as part of ease of Business & transparency facilitating all citizens to be able to obtain subsidy from CREST as well as all regulatory clearances from Electricity deptt. & from Electrical Inspector within a fixed time frame .
- **UT Chandigarh has recently notified the amended Building By laws** making Solar PV Installation mandatory on all buildings in U.T., Chandigarh above plot size of 500 Sq yard to promote Chandigarh as a Model Solar City.



***THANK YOU***

