



ENVIS CENTRE, CHANDIGARH

NewsLetter

P a r y a v a r a n - P a t r a

Chandigarh State of Environment

Model Solar City, Chandigarh

EDITORIAL

Department of Science and Technology has formulized CREST in order to expedite the implementations of policies and procedures of scientific nature in Chandigarh. One of the initiatives is developing Chandigarh as a Model Solar City. The progress under this project has been remarkable in a short period of time span. The Chandigarh is witnessing the history being made in solar power utilization. 1860 KWp of solar power is already being harnessed now while major of projects' installations are in line.

Chandigarh has a plan to cover almost all Government buildings with solar rooftop power plants so that each building is able to generate a part of its power requirement through its own power plant thereby reducing the demand of electricity and using more and more of clean energy. Ministry of New & Renewable Energy has already sanctioned projects to cover 30 Government buildings in Chandigarh, which will generate 3 MWp of solar power.



It is decided that efforts will be made to cover all the Government buildings in Chandigarh with solar power plants and solar water heaters. Private building owners would also be encouraged to set up solar rooftops. These power plants would be connected with the grid so that surplus power can be fed into the grid.

Director, Environment

Dr. Farooq Abdullah, Hon'ble Minister, MNRE, Govt. Of India inaugurating 50 KWp Solar Photovoltaic Power Plant at Paryavaran Bhawan, Sector-19, Chandigarh

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Paryavaran P a t r a

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Keep world clean and green



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Department of Science & Technology

The Department of Science & Technology was established in UT Chandigarh with objective "to make use of the most of in-house Scientific and Technical Institutional Infrastructure in the Union Territory of Chandigarh and to prepare Science & Technology Plans relevant to the development of subjects". Since 1991-92 the Department has been actively working towards meeting its goal. Non Conventional Energy Sources in Chandigarh are also being dealt by The Department.

In order to achieve the objectives and to expedite the procedures Department has constituted a society 'Chandigarh Renewal Energy and Science & Technology Promotion Society' (CREST).

Chandigarh: A Model Solar City

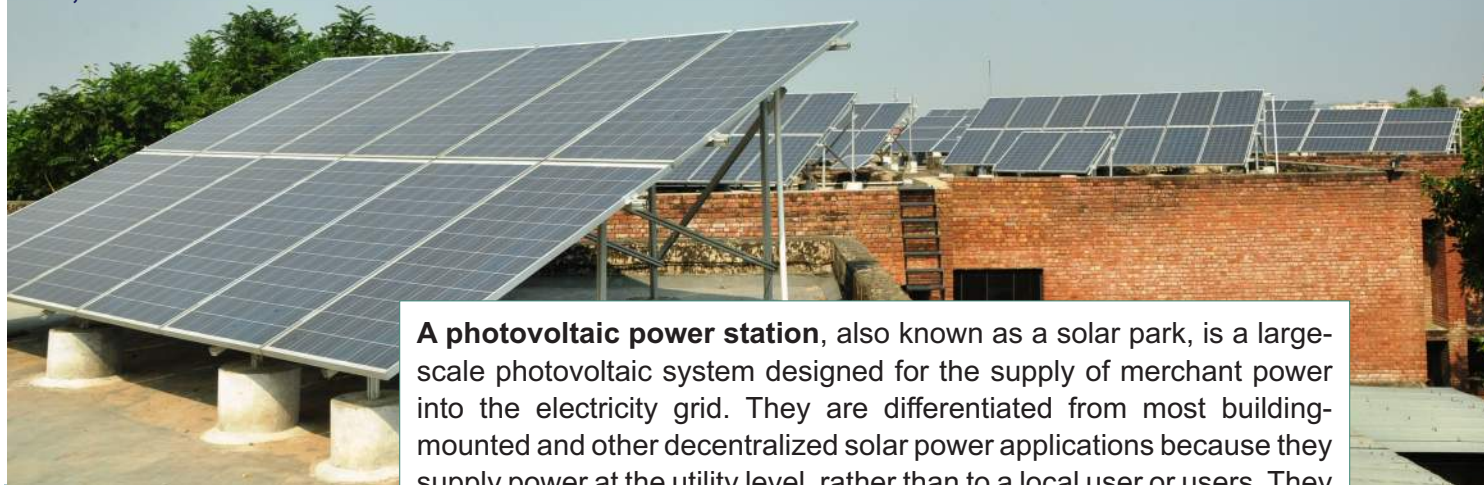
MNRE (G.O.I), New Delhi has selected Chandigarh to develop as Model Solar City through Chandigarh Renewal Energy, Science and Technology Promotion Society (CREST). Master Plan for Model solar City was prepared by The Energy and Resource Institute (TERI). The Master Plan of Solar City has been approved by MNRE, GOI in Jan/12.

A "solar city" is an urban area that aims to:

- ☞ Reduce dependence on fossil fuels for its energy needs
- ☞ Limit emission levels to sustainable levels even while maintaining the desired socio-economic development growth

Department of Science & Technology, UT Chandigarh through CREST is the Nodal Agency for executing Solar & other RE Projects.

GS, Sector 46



A photovoltaic power station, also known as a solar park, is a large-scale photovoltaic system designed for the supply of merchant power into the electricity grid. They are differentiated from most building-mounted and other decentralized solar power applications because they supply power at the utility level, rather than to a local user or users. They are sometimes also referred to as solar farms or solar ranches, especially when sited in agricultural areas.

PHQ, Sector 9



✿ Status of Rooftop SPV Projects as on 31st Jan/14

Sr. No	Project Name	Capacity (KWp)	Status of Projects
1.	Paryavaran Bhawan, Sec-19	50	Commissioned
2.	Govt. Model Sr.Sec.School,Sec-46	50	Commissioned
3.	Model Central Burail Jail, Sec-45	100	Commissioned
4.	Estate Office (D.C Office), Sector-17	75	Commissioned
5.	Police Headquarters, Sector-9	25	Commissioned
6.	Govt. Medical College & Hospital, Sector- 32	100	Commissioned
7.	Govt. Multi Specialty Hospital, Sector-16	70	Commissioned
8.	Govt. College of Commerce & Business Administration, Sector-42	50	Commissioned
9.	Post Graduate College, Sector-46	210	Project completed but evacuation of power on HT side (11KVA) is under execution. Likely to be completed by 31 st Mar/14.
10.	Govt. College for Girls, Sector-42	200	Project completed but evacuation of power on HT side(11KVA) is under execution. Likely to be completed by 31 st Mar/14.
11.	Govt. College for Men, Sec-11, Chd	435	Project completed but evacuation of power on HT side (11KVA) is under execution. Likely to be completed by 31 st Mar/14.
12.	Govt. College for Girls, Sec-11,Chd	495	Project completed but evacuation of power on HT side (11KVA) is under execution. Likely to be completed by 31 st Mar/14.
	G/Total	1860 KWp	

✿ Projects at final stage of Execution

Sr. No	Project Name	Capacity (KWp)	Status of Projects
1.	IRB Complex, Sarangpur	200	Under execution, likely to be completed by 31 st March/14
2.	Punjab Engg College, Sec-12	1000	Tendered received & Work order is to be issued, likely to be completed by 31 st May/14.
3	Five Govt Houses of sector-7	2*5 KWp	Installed & commissioned.

✿ Projects at initial stage of Execution

Sr. No	Project Name	Capacity (KWp)	Status of Projects
1.	SPV plants in 15 schools of UT Chandigarh	810 KWp	Tendered
2.	SPV plants in 17 schools of UT Chandigarh	550 KWp	Tendered
3	CCET, Diploma Wing, Sector-26	40 KWp	Tendered
4	CCET, Degree Wing, Sector-26	150 KWp	
5	Security & Traffic Lines, Sector-29	35 KWp	
6	District Court, Sector-43	100 KWp	
7	Police Lines, Sector-26	40 KWp	
8	Raj Bhawan, Punjab	25 KWp	Work under progress
		1750 KWp	



Several solar projects have been taken up by CREST, all at various stages of execution now. Projects of capacity 1860 KWp are already completed. Project of >4000 KWp are under execution. The rooftops of various Government Building have been used and the rooftops of several colleges and schools have been identified for the purpose.

✿ **Rooftop Grid Interactive SPV plants of overall capacity 810 KWp on 15 Schools, proposed**

Sr No	Name of School	Capacity proposed	Estimated Amount(in Lac)
1.	GMSSS, Sector-10	70 KWp	70
2	GMSSS, Sector-47D	50 KWp	50
3	GMSSS, Sector-16	60 KWp	60
4	GMSSS, Sector-37B	50 KWp	50
5	GMSSS, Sector-19C	60 KWp	60
6	GMSSS, Sector-37C	70 KWp	70
7	GSSS, Sector-38(west)	70 KWp	70
8	GGSSS, Sector-20B	30 KWp	30
9	GMSSS, Sector-33D	60 KWp	60
10	GHS, SMART, Sector -50	40 KWp	40
11	GMSSS, Manimanjra	50 KWp	50
12	GMSSS, Sector-40B	70 KWp	70
13	GHS, SMART, Sector -53	40 KWp	40
14	GSSS, Dhanas,	60 KWp	60
15	GMSSS, Sector-20D	30 KWp	30
	Total	810 KWp	810 Lac

CREST is providing 30% Subsidy on Installation of SPV Power Plant



Rooftop Grid Interactive SPV plants of overall capacity of 550 KWp on 17 Schools, proposed

Sr. No.	Name of School	Proposed capacity	Estimated amount
1	GMSSS, Sector 18	50 KW	50 lac
2	GSSS, Sector 23-A	25 KW	25 lac
3	GMHS, Sector 24	10 KW	10 lac
4	GMHS, Sector 25	10 KW	10 lac
5	GMHS, Sector 26 (B)	10 KW	10 lac
6	GMHS, Sector 28	30 KW	30 lac
7	GMHS, Sector 38	30 KW	30 lac
8	GHS, Sector 38	30 KW	30 lac
9	GMSSS, Sector 40	70 KW	70 lac
10	GMHS, Sector 42	45 KW	45 lac
11	GMHS, Sector 45	35 KW	35 lac
12	GMSSS, Sector 44	25 KW	25 lac
13	GMHS, Manimajra	20 KW	20 lac
14	GSSS, Manimajra Town	70 KW	70 lac
15	GMHS, Vikasnagar	30 KW	30 lac
16	GHS, Daria	30 KW	30 lac
17	GHS, Mauli Colony	30 KW	30 lac
	Total	550 KWp	550 lac

CREST is encouraging residents of Chandigarh to get used to Solar Power for long term usage as.

- ☞ It is free
- ☞ It does not cause pollution.
- ☞ It can be used in remote areas
- ☞ It can power numerous devices including calculators and large vehicles too
- ☞ It is infinite (forever)





Dear Information Seeker,

ENVIS CENTRE, Chandigarh furnishes you with the services to collect and disseminate information related to environment of Chandigarh. To share information with us you are requested to fill up the form given below.

Your feedback is valuable to us and will be highly appreciated



- Name _____
- Designation _____
- Department _____
- Address _____
_____ City _____
- State _____ Country _____ Pin _____
- Phone _____ Fax _____
- Email _____

Your views on scope of improvement :

- Interest Area _____

I would like to have information on following :



ENVIS CENTRE TEAM

Mr. Santosh Kumar
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(Consultant)

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Dr. Farooq Abdullah inaugurates Rooftop Solar Power Plants

Union Minister for New & Renewable Energy, Dr. Farooq Abdullah inaugurated a 50 KWp solar photovoltaic power plant on the rooftop of Paryavaran Bhawan, Chandigarh. The cost of the Power Plant is Rs.90.40 lac (50% contribution from Ministry of New & Renewable Energy, Government of India) with 10 years Operation and Maintenance. The plant will be able to generate 65,000 units of electricity per year. He also inaugurated a 100 KWp solar photovoltaic power plant on the rooftop of Model Central Jail, Burail, Chandigarh. The cost of the Power Plant is Rs.143 lac (50% contribution from MNRE, Govt. of India) with 10 years Operation and Maintenance. This plant will be able to generate 1,30,000 units of electricity per year.

<http://www.pib.nic.in/newsite/erelease.aspx?relid=97004>

Photos of SPV projects installed



<http://www.chandigarhtrafficpolice.org/>

Arun Bansal

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Book Post

Reviewed By Mr. Akshay, Project Officer, CREST

Note : While every care has been taken in compilation of the information available for this newsletter. However, readers must make thorough confirmation/enquiries at their own level before acting upon any data/information provided to the readers. Any discrepancy brought in the notice of ENVIS CENTRE, Chandigarh will be highly appreciated.

