

# SESI Newsletter

A Monthly Newsletter of Solar Energy Society of India

August, 2015

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SESI Secretariat



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Disclaimer: The information presented in this newsletter has been gathered from various original and public sources.

## SESI organizes Conference on “Solar Power Development and Grid Connectivity”



Solar Energy Society of India (SESI) in association with IREDA joined hands with organizers CBIP & CIGRE to conduct a conference on “Solar Power Development (Including Roof Top Solar System) and Issues for its Grid Connectivity” on 30-31 July, 2015 in New Delhi.



President SESI remarked emphasized the need of possible storage of energy produced through solar. Which can stabilise and enhance the reliability of solar generation. Sh. V.S. Verma, Member, SESI and former Member, CERC explained various issues related to renewable energy grid connection. Sh. Prafulla Pathak, Secretary General, SESI, along with President, SESI shall chair the session on Solar Power Projects including Solar Parks

- Construction, Testing & Commissioning. Sh. G.J. Girase, Chairman, Greenraj Solar Energy Pvt. Ltd., Dist. Dhule also graced the occasion. Shri V.K. Kanjlia, Secretary, CBIP, gave a overview of the various sessions of the conference.

The other dignitaries present on the occasion were Sh. R.P. Sasmal, Director, Powergrid, Sh. K.S. Popli, CMD, IREDA, Ms. Anjali Chandra, CEA, Sh. Rakesh Kumar, RECI and Sh. P.P. Wahi, Director, CBIP with participants from corporate sector and industry.

The session proceedings along with the names of Speakers and their topic are: Solar Power Potential, Present Status, Govt. Schemes, Policy, Regulations & Financing – Anjali Chandra, CE, CEA; Concentrated Solar Power - Dr. Subir Sen, GM, POWERGRID; Technical and Statutory Requirement for Establishment of Solar Power Plant - S. M. Takalkar, MD & P. A. Shah, Associate Engineer, Takalkar Power Engineers & Consultants; Renewable Energy Integration: Regulatory Framework, Operational Experience, Challenges and Way Forward – POSOCO; Experience of Solar Renewable Energy Certificate (REC) Market in India – POSOCO; Solar Inverter- Upendra Yadnik, Director - R&D/ Engineering, Emerson Network Power; Using Solar PV Power to strengthen Indian Cold Chain - Maheshwar, Anglo Eastern Maritime Academy, Mumbai;

*President, SESI (3<sup>rd</sup> from left) and Secretary, SESI (3<sup>rd</sup> from right) are seen chairing and co-chairing the session on Solar Power Projects including Solar Park – Construction, Testing and Commissioning in left top picture.*

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**President SESI Foresees the possibility of achieving 100,000 MW Solar Power by 2022**



While speaking to Economic Times, Sh. Ajay Prakash Shrivastava, President Solar Energy Society of India (SESI) expressed his hope that the Solar Power capacity target of 100,000 MW revised by the Government by 2022 is achievable. The brief interview is reproduced below: -



Some say the Modi government's agenda is 'overambitious' and question whether the initiative, which requires an investment of Rs 6 lakh crore, will deliver. India's current solar power base is 4,060 MW. The goal can be reached if an average of about 15,000 MW of solar power is added every year. The target is very achievable, Ajay Prakash Shrivastava, Director of the Solar Energy Society of India, told ET. "The confusion may be because people think all of the 100 GW will be grid-connected" Shrivastava said. "There are, however, concerns over the tariff issue and how it could in the long term affect the quality of solar power and its reception by people and we feel the government must step in there."

**ACME Solar builds portfolio of over 1 GW; wins bids in Telangana**

Hyderabad. Renewable energy company ACME Group has built a strong portfolio of over 1 GW (1,000 MW) solar power, a target which the company expects to achieve by next year. A number of the portfolio projects, spread over several States, are at an advanced stage of implementation. Business Line. Source: PSU News, 19<sup>th</sup> August, 2015.

**Tribute to Dr. Kalam**



With a view to enhance the visibility and reach of Solar Energy Society of India (SESI), President, SESI and Secretary General, SESI recently met the late President of India Dr. A.P.J. Abdul Kalam who took keen interest in SESI and was particularly glad to know that SESI was created by Sh. Ramachandran, the than Secretary of Ministry of Science & Technology in 1978. He had ensured SESI some of his time but it is now a history.



Cost Effective Solution for PV based Solar Power Systems - C.P. Agrawal, DGM, Jindal Steel; Green Power Technologies – Electricity Regulations, Market Policies and related skills - Y.P. Chawla, Adviser, JERC – Goa & UT; Roof Top Solar Projects – Issues and Challenges and A New Approach to Utility Installed SPV Projects in India - K. Gopinathan, M. Chandran, R. Ganesh TANGEDCO; Solar Rooftops in India: Awaiting a New Sunshine of Awareness, Promotion, Financing and Manufacturing Thrust – Shashwat Gawshinde and Dr. B.S.K Naidu, Great Lakes Institute of Management; Roof Top Solar Net Metering - Rajesh Bansal, Sr, VP, BSES RPL, Delhi; Net Metering - An Issues in India – Indra Prakash; Rooftop Solar Plants For Energy Security- K. Sivadasan; Lessons Learnt in Setting up a Solar Farms in construction, Operation and maintenance - Amitabh Verma, Aditya Birla Group; Challenges in Project Execution- Case Study of NTPC Faridabad Solar PV - S.O. Katiyar, AGM EMD, NTPC; Solar Power Development in Hilly Regions of India – Dr. S.S. Chandel, NIT, Hamirpur; Development of Solar Power Project – B. S. Desai GM (HP), & P. A. Shah (EC), SSNNL, Gujarat.; Solar EPC: Practices Plaguing the Industry and How Superior Delivery can be Generated -Prashant Mathur, President International sales, Vikram Solar Pvt. Ltd; Renewable Energy Integration in EHV Grid – N.S. Sodha, ED (Retd.), POWERGRID; Designing Solar PV Power Plants - Ensuring Safety and Performance - Dwipen Boruah, MD, GSES India; Performance of Solar Plant At Gujarat – D. B. Joshi, SE, SLDC, Vadodara (Gujarat); Green TVET Capacity Building in Green Energy Power Generation - Building a Sustainable Engineering Skill Base – Y.P. Chawla, Advisor JERC & Dr. R.S.P. Singh, Associate Prof., School of Vocational Edu. & Trng – IGNOU; Design And Development of Pilot Micro Grid System – Dr. Satish Chetwani, Sr. Manager, ERDA; Hybrid Micro wind Mill and Solar System for Electricity Generation to be installed at Dividers of Highways – Indra Prakash; Solar Cables for Photovoltaic Systems - Nilesh Pandya, Head – Cables Section, ERDA, Vadodara; Energy Efficiency within Cabling Systems in Solar Plants” - V.K. Gupta, CM, International Cooper Association and Bankable Quality of Solar Cables - Vishvesh Bhatia, SGM, Apar Industries.



Sh. GJ Girese, Vice-President, SESI (2<sup>nd</sup> from right) is seen chairing the session

Vice-President SESI (1<sup>st</sup> from right) is seen chairing a session on Solar Power Potential – Present Status, Government Schemes, Policies, Regulations and Financing in right bottom picture.

**Cochin International Airport becomes world's first to operate on solar power**

Scripting a new chapter, the Cochin International Airport here today became the first in the world to operate completely on solar power. Kerala Chief Minister Oommen Chandy inaugurated the 12 MWp solar power plant, comprising 46,150 solar panels laid across 45 acres near the cargo complex, at a function at the airport this morning.



With this, the airport will have 50000 to 60000 units of electricity per day to be consumed for all its operational functions, which technically makes the airport 'absolutely power neutral,' Cochin International Airport Limited (CIAL) said in a release, adding, it is the first airport in the world to operate completely on solar power. Source: PSU News, 19<sup>th</sup> August, 2015.

## From The Desk of Secretary General

SESI has more than one reason to cheer the progress of activities in recent past. The activities perceived are wide ranging from a talk by REC, GM in April was followed by a Workshop on Solar Energy Applications and Financing to MSME on 22nd May, 2015 which was again followed by Seminar on Latest Techniques in Stringing of Mass Manufacturing of Solar Modules held on 30th June, 2015. Yet again from 30-31 July 2015 SESI organized a Conference on “Solar Power Development and Grid Connectivity” jointly with CBIP. Each event was widely covered by Media. On 22<sup>nd</sup> August, 2015, Secretary General, SESI participated in a program on Akshay Urja by National Channel of Delhi Doordarshan. The visibility and reach of SESI has gone many fold by the above activities which will ensure a level of stability that is so essential to the development of Society.



The continuous efforts of SESI to strengthen itself includes a meeting of old and new members in June, 2015 to gain from experience of such esteemed members to pave way for the better positioning of SESI.

I sincerely appeal to GC Members and other esteemed members to actively contribute for different activities / programmes of SESI and also contribute for SESI Newsletter which will give a value addition to SESI.

## SESI Support for the Events



Solar Energy Society of India (SESI) is committed to promote the cause of all forms of Renewable Energy and feels that SESI should support areas of public / society where Solar Energy or Renewable Energy can contribute a lot and an interaction is the need of the hour. With this in view SESI stands to advance, promote and propagate the use of all forms of Renewable Energy and therefore supported the following events in recent past: -

- 1.) Power Line, 29-30 June, 2015, Imperial Hotel, New Delhi 2.) Diligentia 10<sup>th</sup> July 2015, Clariadges Hotel, New Delhi 3.) Jeet Khemka Foundation, 20<sup>th</sup> July, 2015 4.) 8<sup>th</sup> IPCA Electronics Expo, 20-22 August, 20145, Pragati Maidan, New Delhi 5.) 16<sup>th</sup> Regulators & Policymakers Retreat (RPR) to be held in Goa Marriott Resort & Spa, Goa during 3-6 September 2015 6.)

Workshop on “Solar Energy Revolution in India” on Sept. 19, 2015 at Faridabad, (acceptance and confirmation as the National Advisory Committee member in National Workshop-cum-Exhibition on “Solar Energy Revolution in India” on Sept. 19, 2015 from SESI President to Manav Rachna International University,) 7.) Powerelac Ghana International Power, Electrical & Electronics Expo from 1-3 Sept., 2016 (MoU to be signed)

## 131<sup>st</sup> Governing Council Meeting Held

131<sup>st</sup> Governing Council Meeting held on 1<sup>st</sup> August, 2015, Board Room, Central Board of Irrigation and Power Building, Malcha Marg, Chanakypuri, New Delhi wherein Mr. Ajay Prakash Shrivastava, President; Mr. G.J. Girase, Vice President (West); Mr. V.S. Verma, Vice President (North); Dr. P.C. Maithani, Vice President (Central); Mr. Prafulla Pathak, Secretary General; Mr. K.C. Dhimole, Member; Dr. (Mrs.) Malti Goel, Member; Mr. Inder Singh, Member and Mr. Arun Mishra, Member were present.

The quorum for holding the meeting was complete and as the President occupied his chair, the Secretary General in his opening remarks welcomed the members for their presence in the meeting on a Saturday afternoon. A number of issues were cordially deliberated in the meeting and some crucial decisions were taken.



## Solar iCon - 2016 – Annual Flagship Event of SESI

Regarding the finalization of dates and venue of Solar iCon 2015, after detailed discussions/deliberations, it was proposed to hold Solar iCon 2015 during 21-23 January, 2016 alongwith a catalogue Exhibition with the theme “**MAKE IN INDIA – OPPORTUNITIES AND CHALLENGES IN SOLAR SECTOR**” and it was decided unanimously to hold Solar iCon 2015 during 21-23 January, 2016 at Manekshaw Center, Delhi Cantonment, New Delhi. Solar iCon is a very well known and popular event organized by SESI every year. In the past it was held in Bhubaneshwar, Gandhinagar, Tezpur, Chandigarh and Delhi. The event will be held in Delhi hereafter. A large number of Universities and Engineering Colleges from all over India have shown a great interest and good number of delegates both teachers and students are expected to attend.

In view of the thrust given to Renewable Energy particularly the Solar Energy, the theme “**MAKE IN INDIA – OPPORTUNITIES AND CHALLENGES IN SOLAR SECTOR**” augurs well and it is hoped that the partners from abroad & India and speakers & participants will share the knowledge to give acceleration to Make in India Program visualized by Hon'ble Prime Minister of India.



## Solar Energy Corp to set up 4 Parks totalling 600 Mw in UP



Solar Energy Corporation of India (SECI) is setting up four solar parks in Uttar Pradesh, totalling 600 Mw, predominantly in the arid Bundelkhand region. The solar parks have been proposed at Jalaun (350 Mw), Allahabad (50 Mw), Mirzapur (100 Mw) and Sonbhadra (100 Mw) districts of the state. The land at the four places has also been identified, which put together a span of over 1,200 hectares.

Meanwhile, UP Chief Minister Akhilesh Yadav on Friday said his government was giving full cooperation to the central agencies in the solar power sector. He stressed India should toe the line of Germany in maximising solar energy generation.

He was speaking after inaugurating the Renewable Energy Global Investors Meet and Expo (RE-INVEST) here, which was organised jointly by Indian Renewable Energy Development Agency (IREDA) and UPNEDA. *Source: PSU New Digest, August 24, 2015*

## Railways on track to bring down energy bill, says Suresh Prabhu

Union Railways Minister Suresh Prabhu announced on Tuesday that his ministry is thinking of setting up solar thermal power plants on Railways lands. The aim is to bring down greenhouse emissions and reduce the energy bill.

The Railways Ministry is studying the feasibility of such projects under the public private partnership (PPP) model, he said at the India Business and Climate Summit, which was organised by the CII and World Resource Institute here on Tuesday.

Solar thermal power plants not only produce electricity but also heat, which can be put to industrial use. A couple of power companies have successfully implemented such projects in Rajasthan. *Source: PSU New Digest, August 26, 2015*

## Government mulls to set up solar thermal plants on railway land: Suresh Prabhu

Railway Minister Suresh Prabhu today said the Centre is mulling to set up solar thermal plants on land parcels owned by Railways in order to increase the usage of renewable energy.

"There is a need to work towards reducing carbon emissions. We cannot continue to depend on the traditional sources of energy like coal if we have to reduce carbon emission. We will have to find innovative ways, use technology and processes that can reduce these emissions," the minister said at an event organised by CII here today.

Prabhu said since Railways is the highest consumer of electricity, the ministry is taking various steps to increase usage of solar power to meet its needs. "We have already initiated the process of using rooftop of railway buildings for generating solar power. We have also taken innovative initiatives for harnessing solar energy by putting solar panels on the roof of railway coaches," he said. *Source: PSU New Digest, August 26, 2015*

## SECI to hold auction for 750MW of solar projects in Gujarat and Maharashtra

The Solar Energy Corporation of India (SECI) is to hold an auction for for 500MW of solar projects in Maharashtra and 250MW in Gujarat. The projects will come under the Jawaharlal Nehru National Solar Mission, Phase-II, batch-III. SECI announced that a request for selection document for the auction will be published imminently.

Jasmeet Khurana, senior consulting manager at analyst firm Bridge to India, told PV Tech that the World Bank would be the primary lender for the projects and would lend on a concessional basis. *Source: PSU New Digest, August 26, 2015*

## DELHI government plans to install solar panel on roofs of bus shelters

To meet Delhi's ever-increasing power demand, the AAP government plans to install solar panel on roofs of bus shelters of Delhi Transport Corporation (DTC) to generate more electricity. According to the government, solar power is the only way to meet the growing power demand in future as the cost of conventional power is drastically increasing every year. "We are planning to install solar panel on the roofs of the city's bus shelters so that more electricity could generate more electricity." *Source: PSU New Digest, August 31, 2015*