

# SESI Newsletter

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been gathered from various original and public sources.*

## SESI Delegation Calls on Hon'ble Chief Minister of Assam

**S**ESI delegation comprising of Shri Rajinder Kumar Kaura, Secretary General, Dr. Shruti Aggarwal, GC Member and Shri Jagat S Jawa, DG called on Shri Tarun Gogoi, Hon'ble Chief Minister of Assam in Guwahati on 29 August, 2011 regarding ICORE-2011. The SESI team informed him it was the first time that

cated efforts would be made to request Hon'ble Prime Minister of India to be the Chief Guest during ICORE-2011 being hosted at Tezpur University on 2-4 November, 2011.

Earlier the SESI team had visited Tezpur University on 28-29 August, 2011 where in progress of various activities was discussed in detail with



(L to R ) Shri Jagat S Jawa, Dr. Shruti Aggarwal, Shri Tarun Gogoi, Shri Rajinder Kumar Kaura

this flagship event of SESI was being organized in North East India and also apprised the Chief Minister about the progress of ICORE-2011 activities. The CM assured full support of Assam Government for successful organization of ICORE-2011 and indi-

the local Organizing Committee. SESI team also met Prof. Mihir K Chaudhuri, Vice Chancellor, Tezpur University and Congress Chair, ICORE-2011. Prof. Choudhary assured that he would be himself reviewing the position to ensure full success of ICORE-2011.

## New SESI Student Chapter at Canara Engineering College, Mangalore

**S**ESI STUDENT CHAPTER was inaugurated by **Dr. S. Srinivasa Murthy**, Prof. of Refrigeration & Clean Energy, Mech. Dept. IIT Madras and Vice President (South) SESI on 20th August, Rajiv Gandhi Akshay Urja Divas Celebration at **Canara Engineering College, Benjanapadavu, Mangalore**. **Dr. Nagesh Prabhu, Principal**, Canara Engineering College, welcomed the gathering & Prof. T.N. Shanubhogue, H.O.D. E&E Dept. & Convener SESI-Student Chapter Introduced the **Chief Guest Dr. S. Srinivasa Murthy**.

The inaugural function was well attended and **4 Life Members, 13 Members & 147 Student Members of SESI** participated in the function.

Dr. S. Srinivasa Murthy in his inaugural address appreciated the formation of SESI-STUDENT CHAPTER at Canara Engineering College being the **FIRST SESI-STUDENT CHAPTER in Karnataka State**. In his address he highlighted the Energy Scenario in the World & the importance of need of The Renewable Energy to the World and the efforts made by the MNRE for the development of the Renewable Energy in India. He distributed the prizes to the students, winners of: Slogan, Poster and Essay competition on **“GREEN ENERGY FOR SUSTAINABLE DEVELOPMENT”** & paper presentation on **“SOLAR MISSION-TOWARDS BUILDING SOLAR INDIA”**.

M/S Selco Solar Limited displayed their solar energy products & solar energy models developed by the students were also exhibited.

Shri. M.P. Pai Correspondent, Canara Engineering College delivered the presidential address and Shri. Manohar



(from L to R) Prof. S. Srinivasa Murthy (4th) Dr. Nagesh Prabhu (3rd) Prof. T.N. Shanubhogue (2nd)

Katergeri CEO, Bharath Vikas Trust Manipal mentioned the importance of Solar energy in providing lights to the

millions living in villages without light. Shri. Raguveer H. delivered vote of thanks.

## SESI President Presides Over in ORF Seminar

**O**bserver Research Foundation (ORF), New Delhi and BRIDGE TO INDIA had organized a focused roundtable ‘Navigating the Indian Solar Industry: Prospects and Policies’ on 27th April, 2011 at New Delhi. On invitation Mr. R.C. Nakul,

Mr. Prafulla Pathak, Members of GC, SESI and Mr. Jagat S Jawa, DG, SESI participated in the roundtable. Based on the inputs and discussions of various participants in the roundtable, a Policy Brief was prepared. A seminar was organized by ORF at New Delhi



Shri Ajay Prakash Shrivastava and Shri Rajiv Pratap Rudy

on 9th August, 2011 where the Policy Brief “Challenges in Solar Power Development in India” was released by Shri Rajiv Pratap Rudy, Hon’ble Member of Parliament (Rajya Sabha) who was the Chief Guest in the seminar. Shri Ajay Prakash Shrivastava, President, SESI presided over the function. Shri Prafulla Pathak and Shri Jagat S Jawa also participated in the above function.

## FE Clean Energy to Invest \$40 mn in NRPPPL

FE Clean Energy Group, a Connecticut-based PE firm will be investing \$40 million in NSL Renewable Power Private Limited (NRPPPL), part of city-based NSL Group. NRPPPL will use the funds to meet equity commitments for its various wind, hydro and solar power projects being developed in various parts of the country. The company has about 162 MW of installed capacity in renewable energy, comprising of 150 MW of wind power (including a 50MW wind farm which is expected to be commissioned later this month) and two bio-mass plants of 6 MW each. NRPPPL is also constructing two medium scale hydro power projects (100 MW and 44 MW) and two small scale hydro power projects (5 MW and 6 MW) in Himachal Pradesh. The company has recently entered into solar power generation and is currently constructing a 20MW solar power project in Gujarat, which is expected to be commissioned by December 2011. NRPPPL also has seven wind power project under development totalling over 700 MW, which will be implemented over the next 2-3 years.

## Government to Invite Bids for 30 bn Solar Power Projects in August

The government will invite bids for 3,000-crore solar power projects with a capacity of 300 mw under the National Solar Mission in the first week of August. The projects would be awarded by the end of this year and the power purchase agreements would be signed in January 2012. In the first round of bidding, the government had awarded 30 solar photovoltaic (pv) projects of 5 mw each having a total capacity of 150 mw and seven solar thermal proj-

ects of 470 mw. It had received applications for developing 1,740 mw of PV projects, compared to the target of 150 mw in the first batch of Phase-I. For solar thermal, it received applications for developing 1,000 mw, against 500 mw. The government is looking to increase the size of the projects from 5 mw and may allot higher capacity to the project developers. Currently, companies not being able to arrange the funding by a stipulated date must forfeit their permits and bank guarantees. The government is mulling to tweak this by bringing in the condition of imposing a partial penalty in such condition and give more time to developers to arrange funding for the projects. Instead of forfeiture of bank guarantees, the government wants to provide slight leeway to companies to arrange funding during the construction of the project. The MNRE may get the approval for the changes to be made in the guidelines by the end of this month.

## Spain's First Wave Power Plant on Grid Opens with Voith Tech

Spain's first grid-connected wave power project has been commissioned by Ente Vasco de Energia, energy agency of the northern Basque region. The 2.3 million-euro (\$3.3 million) project in Mutriku was developed by the agency using funds from the regional government and technology from a Siemens AG and Voith GmbH venture. The 296-kilowatt plant, which began operating, is continental Europe's first to supply power to users on the grid. Spain, along with the U.K., is seeking to harness energy from waves and tides along its Atlantic coastline. A total of 26 marine energy projects are being developed in the country with a combined value of 236 million euros. Spain

plans 100 megawatts in marine energy capacity by 2020. The Mutriku plant uses oscillating water column technology, in which turbines are attached to a breakwater to generate power as air is pressurized and de-pressurized by waves. Voith Hydro, a venture between Voith and Siemens, provided the 16 turbines. The commercial plant will generate enough energy to power 250 average homes. Voith Hydro operates smaller plants with the technology in Scotland and Portugal. The European Commission provided 200,000 euros for the Mutriku project under its so-called sixth framework program for research and technological development.

## OPIC to Invest up to \$820 mn in India's Renewable Energy Sector

US government-owned financial entity Overseas Private Investment Corp (OPIC) plans to invest up to \$820 million (about ` 36 bn) in the fast-growing Indian renewable energy sector by the end of 2011. As part of efforts to boost clean energy initiatives, OPIC will make investments to the tune of \$520 million in India's renewable energy sector, including the solar segment.

## Bipin Engineers to set up Greenfield Unit

The central government's ambitious National Solar Mission, under which 20,000 MW generation capacity is to be installed by 2022, has given a huge boost to the solar power sector. Targeting this opportunity, Bipin Engineers Pvt Ltd, a manufacturer of solar equipment, will set up a new manufacturing facility at Warve, on the Pune-Bangalore highway. The new plant will manufacture solar flat plate collectors, ETC manifold and tanks, integrate so-

lar power packs and small wind energy systems. The new plant will increase the production capacity of the company to 4000 solar collectors per month, from the current level of 1,000 collectors per month. The manufacturer is also expanding its dealer network, with plans to set up 100 dealerships in the next two years. Presently it has 40 dealerships across Maharashtra, M.P, Karnataka and Goa.

### **UK Solar Plants Soar Ahead of Government Tariff Cuts**

British solar power capacity rose by more than 50 percent in the three months to June as developers scrambled to finish projects before lower government support tariffs kick in next month. Installed capacity for photovoltaic plants rose by 56 percent to 121.6 megawatts between March and June and grew more than eighteenfold in one year. The government went ahead with an early support tariff cut for solar installations bigger than 50 kilowatts (KW), saying too many large commercial plants would absorb government money destined for smaller household and community projects.

### **GM Invests in Solar Energy Systems Maker**

A General Motors Co unit has invested \$7.5 million and taken an undisclosed stake in Sunlogics Inc, helping the solar energy systems manufacturer to establish plants in Michigan and Canada and create 310 jobs at the small company. GM Ventures said it also signed commercial agreements with Sunlogics for the installation of solar charging stations at Chevrolet dealerships and GM plants, as well as a power purchase deal to install large solar arrays at GM factories and buy

the energy produced by the arrays. In conjunction with the Sunlogics deal, GM said it has committed to doubling the use of solar power use at its plants globally to 60 megawatts -- the equivalent of powering 10,000 homes annually -- by the end of 2015. The U.S. automaker derives 1.4 percent of its U.S. energy consumption from renewable resources. GM has gained attention with the Volt. The U.S. automaker's push into electric vehicles is partly aimed at seizing the green mantle Toyota Motor Corp earned with the roll-out of its popular Prius hybrid vehicle. Sunlogics and GM previously collaborated to develop a solar photovoltaic canopy and charging station for Volt dealers and there are two in place at stores in Grand Blanc, Michigan, and Modesto, California.

### **Lanco Installs a Solar Photovoltaic Plant at Parliament**

Lanco Solar, a fully owned subsidiary of Lanco Infratech Limited, has commissioned 80KwP Grid Connected Solar Photovoltaic Power Plant at the Parliament House Complex. The Rooftop PV energy solution has been running successfully for over four months now, and generates upto 400 units of electricity on a daily basis. LANCO Solar was awarded the contract to build, operate and maintain an 80 KwP Solar Photovoltaic Rooftop Power Plant in the Parliament House Annexe by the Punjab Energy Development Agency or PEDDA, which was the nodal agency under the guidance of MNRE. It serves as a showcase of how green energy can be used in various government projects as a viable option while constructing residential and commercial spaces. Lanco has already signed a power purchase agreement for 35 MW solar PV project in

Gujarat under the state power policy. It is also building a 75 MW crystal-line based solar PV power project in Dhule district, Maharashtra. This is in line with LANCO's aspiration of emerging as the leading developer and turnkey EPC service provider in the country. 100 MW of solar thermal in Rajasthan is under development by Lanco Solar.

### **After Dismal Second-Quarter, Solar Outlook Brightens**

Solar investors should brace themselves for some downright dreadful second-quarter earnings reports in the coming weeks, though the rest of the year may provide some relief to battered solar stocks as panel prices stabilize and profit margins recover. The solar market likely bottomed in the second quarter after pullbacks in subsidies in No. 2 solar market Italy stalled development of projects there this spring, creating an oversupply of solar panels in the market and sparking a more than 20 percent drop in prices.

### **India Rejects Two Solar Projects; Solar Thermal Plants Pass**

India rejected two of 37 solar projects awarded in its first national auction, which aims to generate 20,000 megawatts of sun-powered capacity by 2022. NTPC Vidyut Vyapar Nigam Ltd., or NVVN, the state-run power trader that will buy electricity from the plants, accepted 35 projects that were able to submit evidence they had arranged funding. All seven solar-thermal projects, which account for 470 megawatts of capacity or 75 percent of what was awarded in the December auction, made the cut. Companies building the

Organiser



Co-organiser



Tezpur University, Assam

Solar Energy Society of India organises



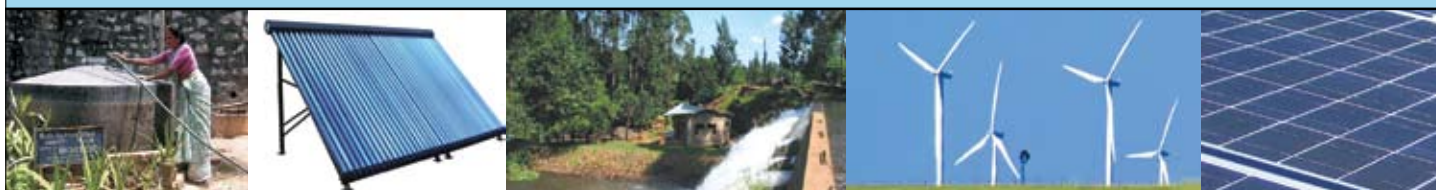
# ICORE 2011

INTERNATIONAL CONGRESS ON RENEWABLE ENERGY (ICORE)

RENEWABLES: GROWTH THROUGH ACADEMIA-INDUSTRY INTERFACE

& **TRADE SHOW**

2-4 November, 2011, Tezpur University, Assam



## ICORE 2011

Solar Energy Society of India (SESI) has been organizing conventions/conferences/ seminars since last over three decades at national/international level. During the period it has undergone profound changes and finally it has grown up to take up the challenge of organizing an annual event like ICORE (International Congress on Renewable Energy) thus bringing India at par with developed nations having international events on regular basis. The congress covers all the aspects of new and renewable energy thus providing excellent platform for all renewable energy researchers, academia, policy makers and industries of India as well as abroad. This year the ICORE 2011 is proposed to be held at Department of Energy, School of Engineering, Tezpur University, Tezpur from 2-4 November, 2011.

### Important topics for Conference

- Solar PV Systems & Technology.
- Off Grid Applications of Solar PV.
- Solar Thermal systems & Technology.
- Tidal, Small Hydro and other renewable technologies.
- Employment Generation through Renewables
- Manufacturing and Equipment
- Biomass and bio-fuel-conversion technology.
- Policy and Programme Implementation on RE.
- Wind Energy
- Electrochemical energy conversion & storage.
- Hydrogen energy production & storage.
- Application of nano materials in energy systems.
- Energy, climate change and carbon trade.
- Renewable energy education capacity building & training.

Organized By :



For more information, please contact : **Mr. Jagat S. Jawa, Director General**

**SOLAR ENERGY SOCIETY OF INDIA (SESI)**

(Indian Section of the International Solar Energy Society)

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Ministry of New & Renewable Energy



Indian Renewable Energy Development Agency Limited

larger thermal projects include Reliance Power Ltd. and Lanco Infratech Ltd., one of India's largest non-state power producers. They had faced forfeiting as much as 1.89 billion rupees (\$42 million) in bank guarantees if not accepted.

### Caparo Closes Financing Accord with IDFC for India Wind Projects

Caparo Energy Ltd., an Indian wind developer backed by BlackRock Inc., closed financing on 1.5 billion rupees (\$33.1 million) with the Infrastructure Development Finance Co. to help fund its wind plans. The funding is Caparo's second tranche of mezzanine finance after it arranged an initial 3.5 billion rupees in June. The 5 billion rupees in funding will enable Caparo to build about 700 megawatts of wind in India, the world's third-largest market for new wind installations behind China and the U.S. Caparo also said it has placed purchase orders with Suzlon Energy Ltd. for 260 megawatts of turbines for delivery next March as part of a January agreement for 1 gigawatt of the machines signed with India's biggest turbine producer. The turbines are for five fully permitted projects in the Maharashtra, Gujarat, Karnataka and Rajasthan states.

### IFC to Invest \$ 15 mn in Shalivahana Green Energy

IFC, a division of World Bank, said it will invest \$ 15 million for an equity stake in biomass power company Shalivahana Green Energy. The investment will support the company's expansion of about 200 MW of its existing biomass power projects in Chhattisgarh, Jharkhand, Madhya Pradesh, Orissa,

and Tamil Nadu. Additionally, IFC has also committed to purchasing up to 1.5 million Certified Emission Reductions or CERs from energy projects developed by Shalivahana during 2013 to 2020.

### Tamil Nadu Takes Steps to Get the Most Out of Wind Power

In an attempt to utilise the power generated from windwills to the maximum, Chief Minister Jayalalithaa cancelled the 20 per cent power cut on the power given to high pressure industries. Interested parties who intimate their willingness to Tamil Nadu Electricity Board to use this power can avail it, she said, adding the scheme would benefit the producers of wind energy and would also earn the state a profit of ` 10 crore, she said. Earlier, the energy generated from windmills during nights especially during the months of August and September was not utilised fully, as generated power could not be stored, she said. Windmills in Tamil Nadu generate 6,007 MW of electricity.

### Reliance Power to Set up 200 MW Wind Power Project for 15 bn in Maharashtra

Reliance Power plans to invest ` 1,500 crore to develop a 200 MW wind power project at Vashpet in Maharashtra, making it the largest such investment in India by any power generation company at a single location. The project will be developed under a special purpose vehicle of R-Power and can be scaled up to 400 mw. Power generated from the project will be wheeled for distribution in Mumbai by Reliance Infrastructure. The project is expected to

be commissioned in phases and reach the full capacity of 200 MW by September 2012. R-Power has entered into a long-term power purchase agreement with R-Infra at the tariff declared by Maharashtra State Electricity Regulatory Commission (MERC), which is ` 5.37 per unit.

### Panel Price Drop Hits JA Solar's Profits

Steep declines in solar equipment prices and an inventory writedown charge will push JA Solar Holdings Co Ltd to a quarterly loss, the company said, sending its shares to their lowest price in nearly two years. JA Solar's announcement follows warnings from solar companies such as Trina Solar and MEMC Electronic Materials Inc, which have said that weak prices for the equipment that turns sunlight into electricity would hurt profits.

### Solar Storms to Hit Earth, Power Companies Prepare

Three large explosions from the Sun over the past few days have prompted U.S. government scientists to caution users of satellite, telecommunications and electric equipment to prepare for possible disruptions over the next few days. Solar storms could affect communications and global positioning system (GPS) satellites and might even produce an aurora visible as far south as Minnesota and Wisconsin.

### Suzlon Energy Bags Order from Malpani Group for 29.7 MW Projects

Wind turbine maker Suzlon Energy said it has received a repeat order from Malpani Group for setting up projects having a total capacity of 29.70 MW. Maharashtra-based Malpani Group

has interests in various areas, including wind energy and real estate. Suzlon said the order is for setting up, operating as well as maintaining projects having a capacity of 29.70 MW.

### **Suzlon Aims to Grow Market share to 9-10 pc**

Suzlon Energy plans to grow its market share this year, helped by growth in Europe, emerging markets such as India, Brazil and South Africa, and through orders for offshore turbines. Suzlon, the No. 5 global wind turbine maker, intends to grow market share to 9 or 10 percent from 7 percent. While the U.S. market is less promising for the firm because of a sluggish economy and cheap natural gas, the European market will be driven by government targets for renewable energy. Suzlon's biggest markets by volume include India, China and Brazil, and the company is the market leader in India, Brazil and Australia.

### **Amonix, Thermax Bring CPV to India**

Thermax Limited has joined hands with Amonix, Inc. to bring its concentrated photovoltaics (CPVs) to the India solar market, the first such CPV based project in the country.

“India is a fast-developing solar energy market with multi-level policy support from state and federal governments. We applaud the Indian government’s National Solar Mission promoting sustainable growth with federal targets of 20 gigawatts of solar installations in the country by 2022,” said Carla Pihowich, Vice President of marketing and regulatory for Amonix. “Also, since land cost is high in India, CPV is the ideal solar choice since it utilizes land better and has the highest energy density, producing more energy per acre than any other solar technology,” she added. The

company is first of the starting block in the CPV industry to enter the Indian market, according to Pihowich.

“Amonix is the first CPV company to announce an exclusive partnership with a leading, established engineering, procurement and construction firm. This partnership will allow Amonix CPV solar power systems to be deployed throughout high-DNI [i.e., direct normal insolation] regions of India,” she said.

CPVs are intended for high DNI regions to get the most out of sunny areas and the high-efficiency, high-cost photovoltaics. In India, these DNI regions include areas like Gujarat, Rajasthan and other areas with a high level of sunshine, according to Pihowich.

Under the partnership, Amonix will offer its CPV systems and Thermax will serve as its engineering, procurement and construction (EPC) in India. Amonix also said it will manufacture systems in India close to future deployments. At this point, however, it has not completed any projects in India, and it does not announce projects until they are commissioned, Pihowich said.

### **Solar-Powered Led Lights To Light Up Gurgaon Streets**

The Haryana Renewable Energy Development Agency (HAREDA) has announced plans to install solar-powered LED street lights in Gurgaon. The LED lamps, mounted on a four-metre pole and attached to solar photovoltaic cells, will illuminate all the major streets of the city. HAREDA has also sketched out similar plans of setting up LED street light networks in 14 other districts of Haryana. LEDs help cut down on the power consumption figures greatly, while providing more energy as compared to conventional lights. LEDs have 80% efficiency,

which means around 80% of the electrical energy you supply gets converted to light, which is quite high compared to conventional light sources, which have only 20% efficiency. The light systems will also be fitted with photovoltaic batteries encased in rain- and tamper-proof covers. HAREDA is looking for private manufacturers of LED light systems in Haryana, and that the tender for the project has just been floated.

### **IEC Mounted Solar System Unveiled in Gujarat**

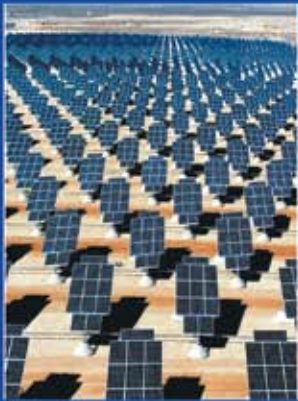
Gujarat witnessed unveiling of intelligent energy controller (IEC) mounted on 3.4 KW solar system at Pandit Deendayal Petroleum University (PDPU), Gandhinagar. IEC is a technology which can simulate yields from every solar panel to utilize the potential of the panel to the fullest. This ultimately facilitates generation of 10 to 20% extra power.

**SESI to Hold AGM  
on  
2<sup>nd</sup> November, 2011 at  
Tezpur University, Assam**

SESI and Tezpur University are jointly organizing International Congress on Renewable Energy (ICORE)-2011 & Trade Show on 2-3-4 November, 2011 at Tezpur University, Assam. At the end of the proceedings of the 1st day of the Conference, Governing Council Meeting and AGM of SESI are scheduled to be held at 6:00 P.M. and 6:30 P.M. respectively at Tezpur University, Assam.



## DD BERG PROJECT CONSULTANTS PVT. LTD.



Solar Farm



Telecommunication Solution



Water Pumping



Off Grid System

DD Berg is a diversified company of Bergen Group having multinational foot prints in the field of Research and Development, Consultancy, Turnkey Solutions in the sector of Electronics Manufacturing and Renewable Energies.

With persistence and consistence pursuit of quality and executing excellence our experts strive to provide the customers with complete outstanding solutions.

We at this point are equipped for undertaking assignments and providing solutions for the Solar Farms on EPCI basis to be ready for the upcoming **Jawaharlal Nehru National Solar Mission**.

*“ We dedicate ourselves to provide the whole world with better PV solutions progressively “*

### Our Strengths: Design -to -Delivery

- Project Design
- Site Visit for Solar Farms
- Equipment Selection
- Construction – Facility & Utility
- System Designing ( Component Selection )
- Implementation
- Commissioning – Process Optimization
- Training – maintenance & manpower Development
- Power Evacuation
- Sales and Marketing
- Project Delivery

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