

# NORTH INDIA SOLAR SUMMIT -2017

## REPORT



### Preamble:

As early as 2013 Indian Industries Association (IIA) realised the need and potential of Solar Power generation and utilisation. IIA also realised that maximum potential for Solar Power lies in North India with Uttar Pradesh as a leading state.

India's Solar potential is greater than 750 GW (750000 MW). India's Energy Security Scenario's 2047 shows a possibility of 479 GW of Solar PV by 2047.

Government of India's target is to install 100GW Solar Energy capacity by 2022 out of which 40 GW is expected to be achieved through deployment of decentralised Rooftop projects, 40 GW through Utility Scale Solar Plants and 20 QW through Ultra Mega Solar Plants.

Out of total target of 100GW Solar Power capacity to be added by 2022, North Indian States (J&K, H.P, UK, Punjab, Haryana, Chandigarh, Delhi, U.P and Rajasthan) share is targeted at 31.12 GW. Target for Uttar Pradesh is 10.697 GW which accounts for more than 1/10<sup>th</sup> of the National Target.

In view of the huge potential (much more than any other region of the Country) for Solar Energy in North India as is evident from the data stated above, IIA decided to organise "NORTH INDIA SOLAR SUMMITT" (NISS) in Lucknow.

First edition of NISS was organised in March 2014. Since then the event is organised every year. The fourth Edition of NISS was organised successfully from 3<sup>rd</sup> to 5<sup>th</sup> March 2017 at IIA Bhawan Grounds, Vibhuti Khand, Gomti Nagar, Lucknow.

### Highlights of NISS- 2017:

- ❖ Record Participation of 58 prominent Solar Companies from all over India in the Exhibition.
- ❖ Record number of Partners, Supporters and Sponsors including MNRE, UPNEDA, SIDBI, NSIC, NTPC, Devi Dayal Solar, Exide, Brawn Solar, Waaree, INA Energy, Racold, Proton, Sunfuel Technologies, Shauri Solar India Pvt Ltd.
- ❖ Trade enquiries / business of more than Rs 500 Crores discussed during three days exhibition.
- ❖ Record number of trade visitors visited NISS\_2017 - more than 7000 visited the Exhibitions and participated in the National Solar Conclave.
- ❖ Encouraging feedback received from the Exhibitors – Average 3.34 on 5 point scale ( 3.76 / 5 for National Conclave, 3.69/5 for Exhibition layout, 3.58/5 for Relevance of Exhibitors participating in NISS, Trade Visitors 3.28/5, Facilities 3.12/5, Business Enquiries generated 3.04/5, Stall service 2.92/5 )
- ❖ Unanimous demand to organise "All India Solar Summit" next year in Lucknow which has been accepted by the management of Indian Industries Association and UPNEDA.

## Day to day proceedings of NISS- 2017

**2<sup>ND</sup> MARCH 2017**

### The Curtain Raiser

A Curtain Raiser press conference was organised at IIA Bhawan, Lucknow on 2<sup>nd</sup> of March to announce the activities of NISS-2017, participation of Solar Companies, type of Solar Products / services to be displayed, benefits to the Visitors etc Large number of Media representatives from prominent Print and Electronic media participated in the Curtain Raiser Press Conference addressed by Mr Manish Goel, National President Indian Industries Association. Extracts of the media briefing and coverage in the News Papers is as under:-



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**23rd March 2017 :** Indian Industries Association (IIA) & FICCI jointly organized a “ Seminar on Trade & Business Facilitation” supported by Ministry of Finance, Government of India and SAARC Trade Promotion Network on 23rd March 2017 at IIA Bhawan, Vibhuti Khand , Gomati Nagar, Lucknow. The programme aimed to create an interactive platform which will focus on primary trade facilitation, to explain the processes and paper work required for clearances and trade transaction. Seminar was addressed by Senior Government Officer from CBEC, DGFT, FSSAI, Land Ports Authority of India (LPAI), EXIM and CUTS International followed by discussion session/ QA session. IIA was represented by Mr. Manmohan Agarwal, Secretary-IIA, Mr Anil Gupta , Former President IIA, Mr. D.S. Verma, Executive Director- IIA and Mr. Sanjay Kumar, Chairman- IIA Barabanki Chapter. Large number of delegates from diverse fields including exporters attended the Seminar.



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## **PRESS NOTE- 2nd March 2017**

### **Biggest Solar Energy Exhibition of the Country in Lucknow**

**3rd-5th MARCH 2017**

**L**ucknow the Capital City of Uttar Pradesh will witness one of the Biggest Solar Energy Exhibition "North India Solar Summit -2017"(NISS) from 3 March -5th March 2017 at IIA Bhawan Ground, Vibhuti Khand, Gomti Nagar, Lucknow. This Event is being organised jointly by Indian Industries Association & UPNEDA.

**58** prominent Solar Companies from all over India dealing in all kinds of Solar Systems, Equipments & Services are displaying their products & services in about **70 Stalls**. Visitors & Byers will find large number of New Solar Technologies in this Exhibition which will include Solar Tree, Natural Solar Lighting Systems, Concentrated Solar Thermal Technologies and State of the Art Solar Energy Storage Batteries. Apart from this, Visitors & Byers will have the option to discuss installation of Solar Electricity Generating Systems (Off line & Grid Connected), Roof Top Solar Systems, Solar Thermal Systems & Solar Water Pumps etc with different Solar Companies for better negotiations. Consumer Solar Items such as Solar Torch, Solar Lantern, Solar Chargers & many more New Solar Items of general Public interest will also be on display in the Exhibition.

One Day "National Solar Conclave" will be held on 4th March 2017 concurrently in which presentations by Experts of National Repute from Ministry of Non Conventional & Renewal Energy Govt. of India, Utrakhnad Renewal Energy Development Agency, SIDBI, UPNEDA, UNIDO, UPPCL, UPERC & Representatives of 8-10 Solar Companies dealing in New Technologies will be made followed by Open House/Questions

Answers sessions.

As such this three days North India Solar Summit is an excellent opportunities for all sections of the society including Industrialists, Businessmen, Academicians, Planners, Architects, Building Constructions Companies, other professionals, Farmers, Youths aspiring to pursue their carrier in Solar Energy Sector. If they miss this opportunities, they will not be able to get it for another one year.

North India Solar Summit (Exhibition) will be inaugurated by Shri Pravir Kumar, I.A.S, Chairman Board of Revenue, U.P. on 3rd March 2017 at 10.30 AM at IIA Bhawan Grounds, Vibhuti Khand, Gomti Nagar, Lucknow. Director UPNEDA & Senior Officers from NTPC, NSIC, SIDBI will be the Guest of Honour for the Inaugural Function on 3rd March 2017.

National Solar Conclave will be inaugurated on 4th March 2017 by Smt. Jyoti Neeraj Khariwal, I.A.S, Director, Utrakhnad Renewal Energy Development Agency at 10.30AM.

North India Solar Summit will conclude at 6.00 PM on 5th March 2017 & the Chief Guest for the closing ceremony will be Hon'ble Mr. Justice Mahendra Dayal, High Court, Lucknow Bench. Closing ceremony will be held from 3 to 5 PM wherein Exhibitor will be presented Momentos. A Report on the achievements & gains of NISS-2017 will also be released in the closing ceremony.

***MANISH GOEL- PRESIDENT IIA***

## **(Inauguration of NISS- 2017)**

**Day-1**

**3<sup>RD</sup> MARCH 2017**

**N**orth India Solar Summit- 2017 was inaugurated by Shri Pravir Kumar I.A.S., Chairman, Board of Revenue, Government of U.P.

Smt Sangeeta Singh I.A.S – Director UPNEDA,  
Shri Jasbir Singh- Zonal General Manager-

**Inaugurating the Exhibition of NISS-2017**



NSIC, Shri Pravin Chaturvedi, General Manager (Operation Services) NTPC, National President IIA Mr. Manish Goel and other Office Bearers of IIA were present in the Inauguration Ceremony of NISS- 2017. All the dignitaries visited the stalls in the exhibition displaying all kinds of Solar Products, Technologies and Services. The Chief Guests appreciated the effort made by IIA for promoting Solar Energy Sector.





(From Left to Right) 

Shri Ashok Agarwal, Treasurer, IIA, Shri Sunil Vaish, Sr. Vice President IIA, Smt. Sangeeta Singh, I.A.S, Director UPNEDA, Shri Pravir Kumar I.A.S., Chairman, Board of Revenue, Govt. of U.P., Shri Manish Goel, President IIA, Shri Jasbir Singh, Zonal General Manager, NSIC, Shri Pravin Chaturvedi, General Manager, (Operation Services) NTPC Ltd. and Shri Pankaj Gupta, General Secretary IIA on the dias for inauguration of NISS-2017.



## (National Solar Conclave)

**Day-2**

**4<sup>TH</sup> MARCH 2017**

**D**uring the second consecutive day of North India Solar Summit-2017 a NATIONAL SOLAR CONCLAVE- 2017 was organized by IIA which marked the presence of Smt. Jyoti Neeraj Khiarwal I.A.S. Additional Secretary- Energy Uttarakhand and Director UREDA who inaugurated the Conclave as Chief Guest and Smt Sangeeta Singh I.A.S. Director-UPNEDA as Guest of



Honor, General Manager (Operation Services) NTPC Limited, Shri Anil Mishra, National Project Manager, UNIDO, Shri Sanjay Srivastava-Secretary UPERC and various other high level dignitaries.

**S**hri Manish Goel, President-IIA in his welcome address said that the basic objectives of organizing National Solar Conclave is to provide one stop solution of all the requirements related to Solar and be aware about all the latest techniques. Smt Jyoti Neeraj Khairwal I.A.S. Additional Secretary-Energy Uttarakhand and Director UREDA Chief Guest for the Conclave said that the dynamics of solar rooftop is different in different states depending upon the availability of power and the costs at which they are available and the amount of subsidy available for them. The challenges faced in Net metering and Gross Metering system were explained by her in detail. She said that solar should not be limited by RPO Obligation, but must be self sustaining and income generating. An innovative plan of generating solar power through floating solar panels in the 22 square kilometre area of Tehri Dam in Uttarakhand was shared by Smt Khairwal where in more than 2000 megawatt solar power will be generated in the Tehri Hydro project.

Smt Sangeeta Singh I.A.S. Director-UPNEDA appreciated the efforts of IIA for successfully organizing the 4th Edition of NISS. She also explained about the efforts that UPNEDA is making for the upliftment of this sector. She was pleased to find that a large number of users are interested to set up solar power plants and are enthusiastic about Solar Thermal Applications (CST) as well. She said that UPNEDA is also making efforts to create awareness about CST. Solar rooftop, PV technique and subsidies available for solar sector were discussed in detail and a thorough brainstorming on these topics was done. She thanked IIA for making UPNEDA a part for this mega event.

Dr. R.P.Goswami, Scientist-F & Director MNRE



**Dr R.P.Goswami, Scientist-F & Director MNRE addressing the audience during National Solar Conclave-2017**

shared that Central Government is already giving lot of incentives for propagating renewable energy sector. He said that Concentrating Solar Thermal (CST) technology plays a very important part today for its applications in the industries. As on date Solar thermal technology has become very common for industries and also for cooking applications such as in Temples and Gurudwaras, Hotels and medical institutions for sterilization purposes etc. This technology has multiple uses and Government gives various financial and technical supports. Accelerated depreciation is also available to profit making organisations. Some International support of varied percentages on the basis of merit of the project is also awarded. The technology is easy to use and has an affordable cost. Therefore it is the apt time for industries to adapt this technology and avail support from the Government.

Shri Arup Kumar GM- SIDBI praised IIA for constantly making efforts to promote the usage of Solar Energy. He gave a power point presentation on the Initiatives of SIDBI to promote Solar Energy.

## **First Technical Session of National Solar Conclave- 2017**

Shri Sanjay Srivastava- Secretary- UPERC, Shri Ashutosh Srivastava Chief Engineer- LESA and Ms. Namrata Kalra Sr. Project Officer- UPNEDA presented their views on Roof Top Solar Systems-Potential, Challenges / issues and way forward during this session. Mr. Dhananjay Kumar Mishra from Relyon Solar Pvt Ltd gave a presentation on Flexible & Light Weight Solar: Material, Techniques &

Applications. The session ended with a panel discussion/ Q.A. Session between the representatives of exhibitors dealing in installation and operation of Roof top Solar Systems as well as Consumer Representatives. Smt. Jyoti Neeraj Khiarwal I.A.S. Additional Secretary- Energy & Renewable Energy and Director UREDA gave her concluding remarks.

## **Second Technical Session of National Solar Conclave- 2017**

The session was held under the chairmanship of Dr R.P.Goswami, Scientist-F & Director MNRE who gave a presentation on “GEF-UNIDO-MNRE Project on Promotion Business Models for increasing penetration and scaling up of Solar Energy. Mr Anil Mishra, National Project Manager, UNIDO also expressed his views on the same topic. Mr. M.A. Chishti Sr. Project Officer- UPNEDA gave a

presentation on CST Initiatives in the State of Uttar Pradesh. Mr. Samir Dhawan, Director Sales & Marketing- Megawatt Solutions Private Limited gave a powerpoint presentation on Potential for CST among MSME's, Mr Madhusudhan Rao Rapole, MD, Oorja Energy Engg. Services gave a presentation on Concentrating Solar Thermal (CST) for Industrial Process Heat.

## **Third Technical Session of National Solar Conclave- 2017**

Mr. Ajay Kumar – CTO [Titlis Engineering & Projects](#) gave a presentation on Solar Tree. Mr. Ravinder Singh, Sun Rays Green Solutions and Mr. Manoj Pawar-Product Manager of Clean Tech division at Evolute presented their views on Solar Energy Storage Technologies- Lithium Ion Batteries. Mr.Anand

Bajpai, E-View Global Pvt Ltd gave a presentation on Natural Solar Lighting Systems. Mr. Sarraju Narasinga Rao, Chief Technology Officer- OMC Power Private Limited gave a presentation on Mini & Micro Solar Grids

**A**t the end, Mr. Manish Goel- President IIA gave his concluding remarks and thanked the Guests and participants for making this conclave a success.

The Moderators of the Technical Sessions were Prof Usha Bajpai-Coordinator, Renewable Energy & Director B.Voc, Renewable Energy Tech. Programme and Dr Suresh C Bajpai-Subject Expert at the Centre of Excellence in Renewable Energy Education and Research, University of Lucknow and the Director (Technical) of Futuris Energy Pvt. Ltd

The Conclave ended with the distribution of mementos to the Guest Speakers for the day and a vote of thanks by Shri Pankaj Gupta, General Secretary-IIA.



**Shri Manish Goel President IIA presenting a memento to Smt. Jyoti Neeraj Khiarwal I.A.S. Additional Secretary- Energy Uttarakhand and Director UREDA**

# (Closing Ceremony of NISS-2017)

**Day-3**

**5<sup>TH</sup> MARCH 2017**

Three days North India Solar Summit (NISS-2017) concluded on 5<sup>th</sup> March 2017. Hon'ble Mr. Justice Mahendra Dayal, High Court Lucknow Bench was the Chief Guest of the closing Ceremony. Chief Guest on his arrival visited the Exhibition along with National President IIA Mr Manish Goel and Senior Vice President IIA Mr Sunil Vaish. During this visit the Chief Guest and the IIA Office Bearers apart from seeing the solar products and services on display selected the best Stalls for honouring them during the closing ceremony.



**Hon'ble Mr. Justice Mahendra Dayal, High Court Lucknow Bench during his visit to Exhibition area of NISS- 2017**

**S**hri Manish Goel, President IIA in his welcome address gave a comprehensive report of the proceedings of all the three days and also unveiled the dates of All India Solar Summit- 2018. Mr Goel said that this time North India Solar Summit has been successful in bringing out new technologies and initiatives of the companies. This time a record of approximately 7000 visitors came to visit NISS. Looking at the overwhelming response of Exhibitors and Visitors from all over India for North India Solar Summit this year, Mr. Pravir Kumar, Chairman Board of Revenue, Government of U.P. who inaugurated the event recommended that next year the name of this event should be changed to **“All India Solar Summit”**. The recommendation has been accepted by IIA Central Executive Committee and the official dates for **“All India Solar Summit- 2018”** will be 23<sup>rd</sup>, 24<sup>th</sup> & 25<sup>th</sup> February, 2018.



**Unveiling of dates of All India Solar Summit 2018 (23-25<sup>th</sup> February, 2018) by the dignitaries during the Closing Ceremony of NISS- 2017**



**H**on'ble Mr. Justice Mahendra Dayal, High Court Lucknow Bench appreciated the efforts of IIA for taking initiatives towards promotion of solar field in such a large scale. He said that hydro electric power plant and thermal electric power plant are the two main sources of generating electricity in India as on date. Today Sun is on the verge of becoming the prime source of generation of power. Today 9000 MW of power is being generated via solar and people are becoming aware of the benefits of usage of this alternative source of generation of power. We need to further give knowledge to people to use this source of energy since usage of this source does not threaten the environment in any manner.



Mr. Manish Goel, President IIA, presenting a Bouquet to Hon'ble Mr. Justice Mahendra Dayal, High Court Lucknow Bench during Ceremony of NISS-2017



Mr. Sunil Vaish, Sr. Vice President IIA, Hon'ble Mr. Justice Mahendra Dayal, High Court Lucknow Bench & Mr. Manish Goel, President IIA, during Ceremony of NISS- 2017 (Left to Right)



**Exhibitors attending the Closing Ceremony of NISS- 2017 at IIA Bhawan**

**I**n the end, the Chief Guest gave the 1<sup>st</sup>, 2<sup>nd</sup> 3<sup>rd</sup> and Consolation prizes for best stalls displayed in the Exhibition which goes to M/s Easy Solar Solutions Systems, M/s Goldi Green, M/s Devidayal Solar Solutions and M/s Jyotipunj respectively. The mementoes were distributed to all the Exhibitors for their participation in the event. Feedbacks were collected from the participants for providing better services to the exhibitors next time. Shri Sunil Vaish, Senior Vice President IIA thanked all the Sponsors, Exhibitors, Visitors and Delegates for their continued support and participation in the event.

