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# IIA NEWS



RNI No. 57642/1993

FEBRUARY-2020

Rs.: 50/-

**VOLUME: 27** 

ISSUE: 2

















# National Bank for Agriculture and Rural Development









Our Mission: Promotion of sustainable and equitable agriculture and rural prosperity through effective credit support, related services, institution development and other innovative initiatives.

- Research and Development on matter of importance pertaining to agriculture, agricultural operations and rural development including the provision of training and research facilities.
- Consultancy services related to Agriculture & Rural Development through subsidiary (NABCONS).

- Provide Credit/Refinance for production
   and investment end to eligible
  - credit and investment credit to eligible banks and financing institutions.
- Development functions undertaken through Farm Sector Promotion Fund (FSPF), Financial Inclusion Fund (FIF), Watershed Development Fund (WDF), Tribal Development Fund (TDF) Rural Infrastructure Development Fund,(RIDF) etc.
- Supervisory functions in respect of Cooperative Banks and Regional Rural Banks.

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### CO - ORGANISER









ttar Pradesh has a Solar energy potential of 22300 MW capacity, which the State intends to harness to meet the energy requirements of the State and to achieve Solar Power generation target fixed by Ministry of New and Renewable Energy (MNRE), Government of India of 10700 MW (inclusive of target of 4300 megawatt fixed for solar rooftop projects) till 2022. Investment in the solar industry as well as domestic manufacturing of solar panels will help create direct and indirect employment opportunities in both skilled and unskilled sector.

Electric Vehicles are widely gaining market across the globe. Due to high pressure and fast depletion of fossil fuels, electric mobility has become necessary to reduce impact of transportation on environment and climate change. Indian automobile Industry is one of the largest growing industry in the world, and the sector promises further growth in manufacturing sector driving country's economic growth.

In order to promote and support Solar and E-Vehicle industry, Indian Industries Association decided to organize 7<sup>th</sup> Edition of India Solar





Expo-2020 and 1<sup>st</sup> Edition of India E-Vehicle Expo-2020 from 14<sup>th</sup> to 16<sup>th</sup> Feb 2020 at IIA Bhawan Ground, Gomti Nagar, Lucknow. Uttar Pradesh New & Renewable Energy Development Agency (UPNEDA) and Uttar Pradesh State Road Transport Corporation (UPSRTC) joined this exhibition as a Co-Organizers and the event was supported by Ministry of New & Renewable Source of Energy, Government of India.

Many organizations in private & public sector extended their support as a sponsorer. That included M/s Easy Solar Solutions Pvt. Ltd., M/s Patanjali Renewable Enery Pvt. Ltd., M/s Racold, M/s J.S. Solartech, M/s Havells, M/s Mitsui Chemicals Pvt. Ltd., UCO Bank, Punjab National Bank, SIDBI and NABARD.

M/s Regnant Energy Pvt. Ltd., Delhi joined as Knowledge Partner for E-Vehicle Expo.

Solar Energy Society of India (SESI), Electronics Sector Skills Council of India (ESSCI), <u>India Lead Zinc Development Association</u> (ILZDA) and E-Rickshaw Welfare Association also extended their support for the events.



# Platinum Sponsor



SOLAR PV MODULES & E P C

# Gold Sponsor



## **Silver Sponsor**















### **Seminar Sponsor**















# E-Rickshaw Welfare Association, U.P.

### **Partner**

**Knowledge** 



### **Hospitality**



### **Hydration**



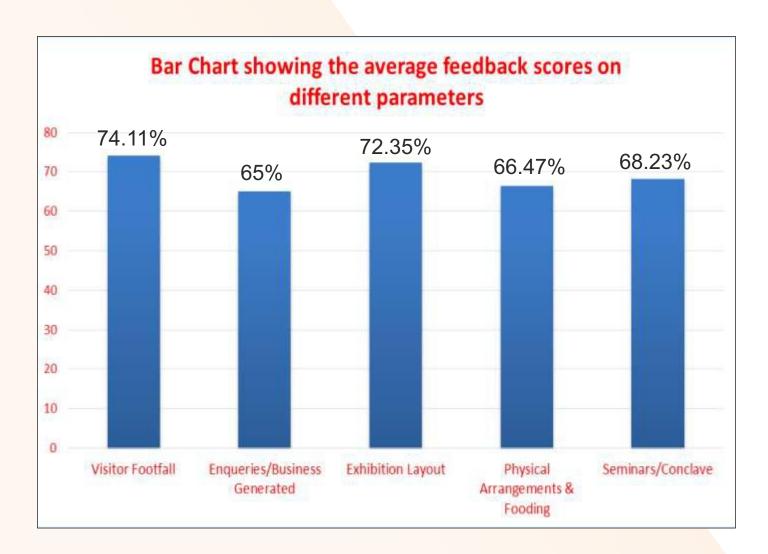


### **Exhibition Highlights**

- 72 Solar and E-Vehicle companies from all over India participated in this Expo as an Exhibitor and displayed their products and services in 95 Stalls created in a sprawling ground adjacent to IIA Bhawan Building.
- A record of more than 6000 visitors visited the exhibition this time and gave positive feedback on their experience and the gains.
- A NATIONAL SEMINAR ON "E-VEHICLE, BATTERY TECH & CHARGING STATION-2020" was successfully Organised on 14th February, 2020 at IIA Bhawan Conference Hall adjacent to the exhibition venue.
- NATIONAL SOLAR CONCLAVE-2020 was also Organised on 15th February, 2020.
- · More than 300 delegates attended both the Seminar and Conclave.

### Feedback

• In order to evaluate the success of the Solar & E-Vehicle Expo 2020, a comprehensive feedback of the exhibitors was obtained on 5 different Parameters as shown in the Bar Chart below. Overall feedback received is positive and almost all the exhibitors expressed their willingness to participate in next year i.e. 2021 India Solar Expo and IIA E-Vehicle Expo to be held from 12 to 14 Feb 2021 at Lucknow.







Corp. Office & Works: Plot No. 27, IPS Industrial Area, Delhi-Meerut Road, Morta, Ghaziabad-201003 (U.P.)

Tel: +91-120-2803333 | Mob: +91-9818133662 | 9717256688

Email: info@easysolarsolutions.com | Web: www.easysolarsolutions.com































# List of Companies Participated in INDIA SOLAR & E-VEHICLE EXPO-2020

Sl. No.	Exhibitor Names	Sl.No.	Exhibitor Names
1	Alphasine Technologies Private Limited	13	Exide Industries Limited
2	Arsiga Solar Pvt. Ltd.	14	Galo Energy (Gautam Solar Pvt. Ltd)
3	Avyaya Solar	15	Havells (Silver Sponsor)
4	Banga Solar	16	Hishu Solar Solutions
5	Bisleri International Private Limited	17	IDFC First Bank
6	Bright Solar	18	Indygreen Technologies
7	Cleon Powertech Solution	19	J. S. Solartech India Pvt. Ltd.
8	Deep Industries	20	Jain Chemicals & Allied Ind
9	Eapro Global Limited	21	Jaiswal Battery Service / Brawn Solar
10	Easy Solar Solutions Pvt. Ltd. (Platinum Sponsor)	22	Jyoti Enterprises
11	Electronic Sector Skills Council Of India.	23	K S Casting
12	Enkay Solar Power And Infrastructure Pvt. Ltd.	24	KALCO ALU-Systems (P) Ltd.



Sl. No.	Exhibitor Names	Sl.No.	Exhibitor Names
25	Karshani Aluminium Pvt Ltd	50	Saurya Dimension
26	Leads Connect Service	51	Savera Energies
27	Lithion Power Private Limited (Green Eco)	52	Shivam Trading Co.
28	Luminous Power Tech Pvt Ltd	53	Shivgreen Solar System Pvt. Ltd.
29	Mahindra (Amit Automotors)	54	Shri Barsana E Vehicle Pvt. Ltd
30	Matri Shree Powertronics	55	Shri Krishna Engineering Works
31	Matri Shree Techno Industries	56	Shrijan Industries
32	Meragaon Microtech Off Grid	57	SIDBI
33	Microtek International Pvt. Ltd.	58	Smart Solar Tech & IT Solution
34	Mitsui Chemicals Solar lab Division (Silver and Badge and Lanyard Sponsor)	59	Solar Charkha (KVIB)
35	Monarch Energy Pvt. Ltd.	60	Solar Quarter
36	M.R. Distribution	61	Sundar Engineering Works
37	NABARD	62	Super Sun Solar Limited
38	Navitas Green Solutions Pvt. Ltd. / Renon India Pvt. Ltd	63	TATA NEXON (Goldrush)
39	OKAYA Power Pvt. Ltd.	64	Technosun India Pvt. Ltd.
40	Ornate Agencies Pvt. Ltd.(Ornate Solar )	65	Trishul E Auto
41	Patanjali Renewable (Gold Sponsorer)	66	Truepower Earthing Pvt. Ltd.
42	Punjab National Bank	67	UCO Bank (Seminar Sponsor)
43	Purry Energy Solution	68	UPNEDA
44	RACOLD (Silver Sponsor)	69	UTL Solar (Om power)
45	Regnant Energy Solutions	70	Venus Auto Wheels Private Limited
46	Remedies	71	Waaree
47	Resolve Earthings System	72	YTSOL Solar Store
48	Sabo Systems Pvt. Ltd.		
49	SAS Hyundai		



# Day to day proceedings of INDIA SOLAR & E-VEHICLE EXPO-2020

# **Curtain Raiser Press Conference**



Press Conference addressed by General Secretary IIA Shri Manmohan Agarwal



### 12th Feb. 2020

o announce all the activities of India Solar & E-Vehicle Expo-2020, participation of Solar & E-Vehicle Companies in the exhibition, type of Solar & E-Vehicle Products/Services to be displayed and benefits to the visitors, a Curtain Raiser Press Meet was organized by Indian Industries Association on 12th Feb 2020 at IIA Bhawan, Vibhuti Khand, Gomti Nagar, Lucknow. Curtain Raiser Press Meet was addressed by the General Secretary IIA Shri Manmohan Agarwal & Senior Office Bearers of IIA.

Large Number of media representatives from prominent Print and Electronic Media attended this curtain raiser press meet and published the information about the event prominently in respective media.



**Day-1** 14th Feb. 2020



Shri Shrikant Sharma, Minister Energy & Additional Source of Energy, Government of Uttar Pradesh inaugurating India Solar & E-Vehicle Expo-2020 on 14th Feb 2020

hree Days India Solar & E-Vehicle Expo-2020 was inaugurated by the Chief Guest Shri Shrikant Sharma, Minister Energy & Additional Source of Energy, Government of Uttar Pradesh on 14th Feb 2020 at IIA Bhawan Ground, Vibhuti Khand Gomti Nagar, Lucknow. National President IIA Shri Pankaj Kumar, General Secretary IIA Shri Manmohan Agarwal, Solar Energy Committee of IIA Chairman Shri Tariq Hasan Naqvi alongwith many IIA Central and Chapters office bearers from Uttar Pradesh, Uttrakhand & Delhi and dignitaries were present in the inaugural function. Shri Shrikant Sharma, Minister Energy & Additional Source of Energy, Government of Uttar Pradesh visited stalls in India Solar & E-Vehicle Expo on 14th Feb 2020

2 reputed Solar & E-vehicle companies from all over India participated in this biggest exhibition. All the dignitaries alongwith the Chief Guest visited the stalls in the exhibition displayed all kinds of Solar Products, technologies and Services. Chief Guest appreciated the effort made by Indian Industries Association for promoting Solar Energy and E-Vehicle Sector.



Shri Shrikant Sharma, Minister Energy & Additional Source of Energy, Government of Uttar Pradesh visited stalls in India Solar & E-Vehicle Expo on 14th Feb 2020





fter
Visiting
the
Exhibition all the
dignitaries
alongwith Chief
Guest moved to
the conference
hall for the
inaugural function
of India Solar & EVehicle Expo2020.

Lighting of Lamp by Shri Shrikant Sharma, Minister Energy & Additional Source of Energy, Government of Uttar Pradesh during Inaugural Function of India Solar & E-Vehicle Expo-2020

In his inaugural address Shri Shrikant Sharma, said that "I am aware of many problems of the people related to Energy and Additional Sources of Energy Sector on which I am working continuously for the past three years. Some of the problems/issues has been resolved however few other are yet to be resolved like the issue of net metering for Industry, Institutions & Commercial establishment. We are discussing this issue seriously in the govt. and some solution will be found out in near future. We have to meet the Solar Energy Generation target of 10700 Megawatt in the State, therefore it is the priority of the Govt. to resolved all problems/issues which are standing



Shri Shrikant Sharma, Minister Energy & Additional Source of Energy, Government of Uttar Pradesh addressing the audience



Shri Pankaj Kumar National President of IIA addressing the audience

ational President IIA Shri Pankaj Kumar in his address said that "for promoting the use of Solar Energy and to meet the target, it is important that net metering system should be restored for Industry, Institutions & Commercial establishments in the State. In IIA we foresee huge potential for Solar & E-Vehicle Sector for MSMEs to setup their ventures. Keeping this in view we are organizing solar & E-Vehicle Expo. UPNEDA, UPSRTC & MNRE Govt. of India are supporting us whole heartily in organizing this event. Electric Vehicle Sector is in its primitive stage at present and many IIA Members have already entered into this Sector. These members are providing their suggestions to IIA for the development of this sector from time to time. Shortly we will constitute an expert group and working committee on E-Vehicle Sector in IIA which will provide useful suggestions and feedback to the Govt. for the development of E-Vehicle Sector".



he Inaugural Function was moderated by General Secretary IIA Shri Manmohan Agarwal. Welcome as well as vote of thanks was delivered by Shri Tariq Hasan Naqvi Chairman Solar Energy Committee IIA



Shri Manmohan Agarwal General Secretary of IIA addressing the audience

Day-1

14th Feb. 2020

# National Seminar on E-Vehicle, Battery Technology and Charging Stations-2020

n Inauguration day of India Solar & E-Vehicle Expo on 14<sup>th</sup> Feb 2020, concurrent Seminar on **"E-Vehicle, Battery Technology and Charging Stations"** was organized in the Conference Hall of IIA Bhawan at Lucknow. National Seminar was inaugurated by the Chief Guest Dr. Raj Shekhar MD UPSRTC. The Seminar Inauguration started with the Lighting of Lamp by the Chief Guest.



Dignitaries &
Experts on the
dais for the
National
Seminar on EVehicle,
Battery
Technologies
and Charging
Stations-2020

his was another first time initiative by Indian Industries Association to provide a platform to the investors/prospective entrepreneurs/Start-ups to understand the technology and opportunities available in E-Vehicle sector.

This Seminar was attended by more than 200 delegates. The Expert Speakers from all over India. Who shared their experiences/presentations and made this seminar a success included. The Expert Speakers came from All over India:-

1. Shri Prayeen Kumar Sood, Chairman Regment Energy Solutions, Delhi,



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- 2. Dr. Prakash Barjatia India Society of Lighting Engineers, Pune
- 3. Dr. Kuldeep Singh Kakran, Sr. Scientist CECRI, Chennai
- 4. Shir Ansul Kumar Sharma Vice President Log 9 Material, Banglore.
- 5. Prof. Usha Bajpai, Former Professor at Center of Excellence in Renewable Energy Education and Research, University of Lucknow
- 6. Dr. Devraj Singh Vice President Technical, Electronic Sector Skill Council of India, Delhi
- 7. Shri Uday Dharia, Senior Vice President at Green Eco India- Lithion Power Pvt. Ltd., Delhi
- 8. Shri Zeeshan Raja, Senior Manager North, Electric Vehicle Business Unit, TATA Motors Limited

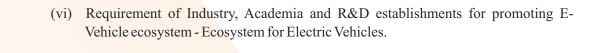
### Various Topics on which experts gave their valuable inputs in the daylong Seminar are as under: -

### A. Technical Session -I:



Shri Praveen Kumar Sood, Chairman Regment Energy Solutions, Delhi,

- (i) Regnant Energy Solutions Transportation models (Current and future) including E-Vehicles and their Charging infrastructure.
- (ii) ICE/EV Comparative, Different Models & Future Trends, EV development Status in India & Worldwide, Challenges thereon.
- (iii) Challenges & Solutions for optimization of advanced deep cycle lead carbon batteries for small e-Vehicles
- (iv) Investment Opportunities for MSME's / Start-ups in E-Vehicle Component Manufacturing Industry.
- (v) Skilling upgradation of ICE based workforce for future E-Vehicle compatibility.





Dr. Prakash Barjatia India Society of Lighting Engineers, Pune

#### B. Technical Session -II:



Dr Kuldeep Singh Kakran Senior Scientist in CSIR - CECRI)

(I). Design & Development of High Performance Indigenous Lithium Ion Batteries.



Shri Anshul Kumar Sharma, Vice President – New Innovations , Log 9 Materials

(ii) Aluminium Fuel Cell – A Safe & Cheaper Fuel for E-Vehicles

(iii) Challenges Faced to make Battery Packs for Electric Vehicles for Statutory Required approvals.



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### B. Technical Session -III:



- (I) E-Vehicle Charging Station Models, Equipment's, Charging Infrastructure Development and Standardisation.
- (ii) Adoption of E-Vehicles in Govt Sector.

Shri Zeeshan Raja, Senior Manager North, Electric Vehicle Business Unit, TATA Motors Limited



(iii) Adoption of renewable energy based D.C Charging Station for maximum environmental benefits for E-Vehicle promotion.

Prof. Usha Bajpai, Convener, National Solar Conclave-2019



(iv) Skilling Needs in E-Vehicle and Battery Sector.

Dr Devraj Singh, VP Technical Electronic Sector Skill Council of India.

Audience gathered for the National Seminar on E-Vehicle, Battery Technologies and Charging Stations-2020





Day-2

15th Feb. 2020

# National Solar Conclave-2020(Supported by NABARD)

ne-day National Solar Conclave- 2020 supported by NABARD was organized concurrently with India Solar & E-Vehicle Expo- 2020 on 15<sup>th</sup> Feb 2020 at IIA Bhawan Conference Hall, Gomti Nagar, Lucknow. Chief Guest for the National Conclave was Shri Anil Kumar, Secretary UPNEDA and Guest of Honour was Shri O.P. Verma,

SOLAR CONCLAVE-2020

SOLAR CONCLAVE-2020

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Dignitaries setting on the dais for the National Solar Conclave -2020

Zonal Manager, UCO Bank.
The objective of this Nation

The objective of this National Solar Conclave was to provide information on upto-date technological developments, future prospects and opportunities in the solar industry, the programmes and scheme of the government for solar energy in the states and country and the status of skill development in the sector.

The Conclave was attended by 200 delegates who came from Government and Non-Government Organizations and solar related industries. Main Topics covered in the

#### conclave are as under: -

### A. 1<sup>st</sup> Session: -

(i) Policy Initiatives for setting up Solar Power Plants.

### B. 2nd Session: -

- (i) Prerequisites & important factors to be looked into before setting up solar power plant in Domestic, commercial, institutional and Industrial use.
- (ii) Cost Benefit Analysis for setting up solar power plant in Domestic, Commercial, Institutional and Industrial Use.
- (iii) Maintenance & Upkeep of Solar Poer Plants in Domestics, Commercial, Institutional and Industrial Use.
- (iv) Quality, Standardisation and Testing of various components/parts of solar power plant from user point of view.

### C. 3rd Session: -

- (i) New Technologies/Innovations in Energy Storage/Batteries for Solar Applications.
- (ii) Solar Heating & other applications.
- (iii) Financing options for solar projects.
- (iv) Investment/Entrepreneurial Opportunities in Solar Energy Sector.
- (v) Panel Discussion on Opportunities and Challenges in Solar Industries in India.

Shri Tariq Hasan Naqvi Chairman IIA Solar Energy Committee welcomed the guests & the delegates.

Conclave was started with the inaugural address by the Chief Guest. In his address Secretary UPNEDA Shri Anil Kumar said that "UPNEDA is making all out efforts to achieve the target of setting up of 10700 Megawatt Solar



Power Plants by 2022. In this process, few hurdles were noticed on which UPNEDA & Govt. of U.P. are working actively. Disallowing net metering in Industrial & commercial establishments is one such hurdle & UPNEDA as a promoter of Solar Energy wish to get this facility restored. Few issues were related to the Solar policy announced in 2017 on which UPNEDA has been reviewing the situation from time to time. Today Solar Policy of U.P. is the best in the Country. State Govt. has allowed foreign direct investment for setting up Solar Power Plants in U.P. As a result, three companies from France have expressed their interest to invest in Solar Power Plants in U.P. UPNEDA is in consultation with these companies & we hope that they will setup their plants soon".



the audience

uest of Honour Shri O.P. Verma, Zonal Manager, UCO Bank in his address said that "they will work on special financial schemes for Solar & E-Vehicle Industry. This will help the industry as well as the activity of UCO Bank".

onvener and Chief Moderator of National Solar Conclave Prof. Usha Bajpai said that there is an urgent need for setting up of a Centre of Excellence on Solae Energy Scetor in U.P. She urged National President IIA to take initiative for setting up such Centre under the banner of IIA.





r. Research Scientist from National Institute of Solar Energy Shri Yogesh Kumar made a presentation on Operation & maintenance of Solar Power Plant.

Shri Anil Kumar Bareja from Delhi delivered a presentation on Opportunities and challenges in Solar Industries in India as well as future of Solar Power Plant & Equipment mfg in India.



Consultant Dr. Suresh Chand
Bajpai giving presentation

enewal Energy & Energy Management Consultant Dr. Suresh Chand Bajpai gave a presentation on quality, standardization and testing of various components/parts of Solar Power Plants from user point of view.

Shri Vikas Gupta, Director, Sunled Energy Pvt. Ltd. gave presentation on Cost Benefit Analysis for setting up Solar Power plant in Domestic, Commercial, Institutional and Industrial Use.



r. Project Manager, UPNEDA Shri V.K. Tiwari told about the Solar Energy Policy 2017 of U.P.



**Energy Pvt. Ltd presenting views** 



Day-3

16th Feb. 2020

# Closing Ceremony of India Solar & E-Vehicle Expo-2020



hree days India Solar & E-Vehicle Expo2020 concluded on 16<sup>th</sup> Feb 2020. Shri
Bhawani Singh Khanganrot IAS Director
UPNEDA was the Chief Guest for the Closing
Ceremony. Chief Guest on his arrival visited the
Exhibition alongwith President IIA Shri Pankaj
Kumar and other Senior Office Bearers of IIA.
During this visit the Chief Guest and IIA office
bearers apart from seeing the solar & e-vehicle
products and services on display, they selected
the best stalls for honouring them during the
closing ceremony. Exhibitors also shared
feedback on their experience in three days of the
Exhibition to the Chief Guest.

In his address in the closing ceremony, Director UPNEDA said that "the PM Kusum scheme is one of the most ambitious schemes of the government. With its implementation, the income of the farmers of the state will increase. It is also the effort of the government that more and more solar power plants are set up in Bundelkhand, for which special support package has been announced in Uttar Pradesh Solar Energy Policy. UPNEDA is releasing a new tender for setting up roof top solar power plants. Mr. Khangrot urged the companies to quote realistic rates in the new tenders. He said that few companies had objections on the rates quoted in the previous tenders, on which the government cannot do anything because this process is online and transparent".





ational President IIA Mr. Pankaj Kumar said that "while installing solar power plant, our focus is only on low cost, whereas we should pay more attention to quality because solar power plant has a long life and if we use cheap and inferior materials in our solar power plants then we have to bear losses in the long run. Today though this solar and e-vehicle expo is coming to an end yet IIA will continue to work for the upliftment of e-vehicle and solar industries of the region throughout the year

he welcome address at the program was delivered by Mr. Tariq Hasan Naqvi in which he lauded the cooperation of UPNEDA





The vote of thanks was given by General Secretary, IIA Mr. Manmohan Agrawal, in which he told that next year the event will be organized at much larger scale.



View of participants in the closing ceremony

n the end, the chief guest announced 1st,2nd,3rd and consolation prizes for the winners of best exhibition stalls in two categories i.e. Big and Small size stalls. Momentos were also distributed to all the exhibitors for their participation in the event.



M/s Easy Solar Solutions System receiving the winners trophy

M/s Havells receiving the winner's trophy



M/s Luminous Power Tech Pvt. Ltd. receiving the winner's trophy





M/s Patanjali Renewable Energy Pvt. Ltd. receiving the winner's trophy

M/s Enkay Solar receiving the winner's trophy



M/s Banga Solar receiving the winner's trophy



M/s Navitas Green Solutions Pvt. Ltd. receiving the winner's trophy

# Unveiling of dates of India Solar & E-Vehicle Expo-2021-

t the closing ceremony President IIA, General Secretary IIA and Solar Energy Committee Chairman also announced the dates for the Solar and E-Vehicle Expo to be held next year, accordingly the events will be held from 12 to 14 February 2021. It is a matter of great satisfaction that 60 companies have already expressed their desire to set up their stalls in the exhibitions to be held next

year.





### Press Coverage of India Solar & E-Vehicle Expo-2020 (14th-16th Feb. 2020)

