

THE smarter
| INDIA



INDIA'S INNOVATION HUB FOR THE
NEW ENERGY WORLD, BANGALORE
INTERNATIONAL EXHIBITION CENTRE

NOV
27-29
2019

www.TheSmarterE.in



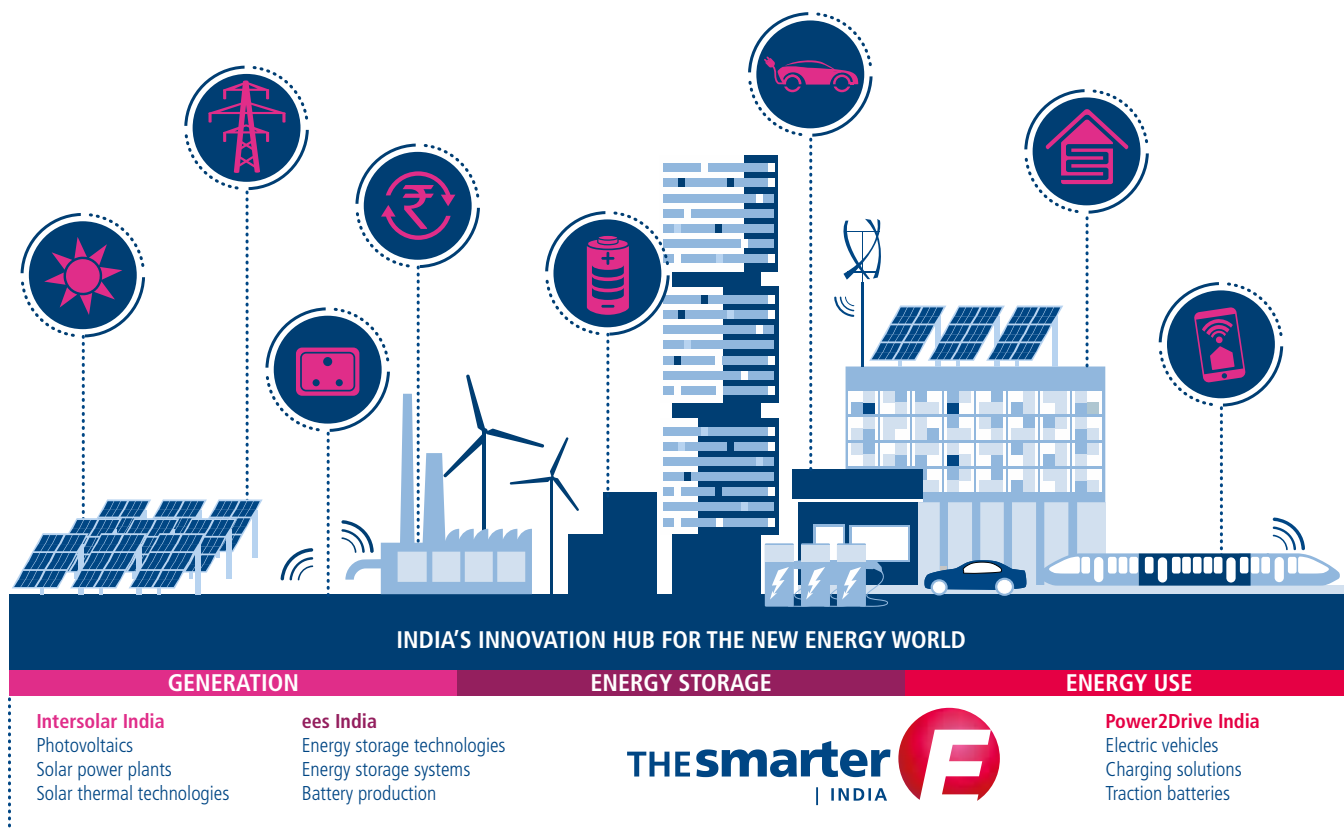
LAUNCHING THE SMARTER E INDIA

The Leading Energy Exhibitions and Conferences at The smarter E India

inter
solar
connecting solar business | INDIA

ees
electrical energy storage

POWER
DRIVE
| INDIA



| THE NEW ENERGY WORLD

The transition to renewable energy, decarbonization and digitalization is bringing lasting changes to the energy world. The old system was static and centralized, with just a handful of large-scale fossil fuel and nuclear power plants supplying consumers with energy. A new, decentralized system is now emerging which relies primarily on photovoltaics and wind power and has many more active participants. An increasing number of homeowners and companies are becoming prosumers – generating, consuming and storing their own energy. And the previously separate sectors of electricity, heating, cooling and mobility are becoming more and more interconnected.

Sector coupling is also helping to enable rational, climate-friendly utilization of excess wind and solar power. There is a growing trend for charging electric vehicles using solar power from the owner’s own roof and, as a next step, integrating these vehicles’ batteries into the grid to help with stability and load shifting. The foundation and driving force of this new energy world is the process of digitalization, and the

rapidly evolving possibilities, which it offers for gathering, exchanging and storing data. For example, blockchain technology can help us achieve greater efficiency and transparency alongside lower prices when marketing solar power, even locally in small quantities, or combining battery storage systems to form virtual power plants.

Renewables in India are on a rise

The current developments in the energy industry and power generation are also recognizable in India. The power segment is undergoing huge changes because of the government's move towards renewable resources. In India, a target to install 175 GW of renewable energy capacity by 2022 was set by the Government in July 2018. This means in detail 100 GW from solar power, 60 GW from wind power, 10 GW from bio-power and 5 GW from small hydropower. The rise in electricity consumption and increasing awareness towards environmental issues are both supporting alternative and eco-friendly power generation solutions.

THE SMARTER E INDIA, BANGALORE

With three parallel energy exhibitions, The smarter E India, taking place in Bangalore, is India's innovation hub for the solar, energy storage and electric mobility industry. It takes a comprehensive approach to the topics of the new energy world by presenting cross-sector energy solutions and technologies. The smarter E India creates opportunities to address all the key areas along the value chain. Focusing on the generation, storage and use of energy and the ways in which these aspects interact and can be intelligently combined, The smarter E India brings together local experts and international stakeholders in the energy future.

Three energy exhibitions at one place

The smarter E India takes place in Bangalore, the capital city of Karnataka, on November 27–29, 2019 and unites the following events:

- **Intersolar India** – India's most pioneering exhibition and conference for the solar industry
- **ees India** – India's leading electrical energy storage exhibition
- **Power2Drive India** – India's premier exhibition for electric mobility and charging solutions

Karnataka – the perfect place for driving the new energy world forward

Karnataka is Indians number 1 solar market and the first Indian state to launch a specific EV and energy storage policy. The state of Karnataka is therefore the perfect location for developing solar, energy storage and e-mobility business opportunities in India.

Additionally, Intersolar India takes place as usual in Mumbai on April 4-5, 2019, and covers the western solar industry market with a special focus on financing issues. Intersolar India in Mumbai is also deeply inspired by the cross-sector topics united at The smarter E India in Bangalore.



17,000
VISITORS

300+
EXHIBITORS

1,000+
CONFERENCE
DELEGATES



INTER SOLAR INDIA



Solar developments in India grew exponentially. Further announcements and new market opportunities in combination with the energy storage and electric mobility sector strengthen India to become an interesting and very promising market in the future.

Two solar hot spots in 2019

For the first time ever, Intersolar India – the most pioneering exhibition and conference for the solar industry – will therefore take place twice a year in 2019: In Mumbai in April and in Bangalore in November to meet the challenges of both, the western and southern solar industry with their specific requirements and topics. With more than ten years of experience, Intersolar India will connect solar businesses in Mumbai at the Bombay Exhibition Centre on April 4–5, 2019 with a special focus on financing and India’s Western solar markets.

Karnataka is India’s number 1 solar market

On November 27–29, 2019, Intersolar India will take place in Bangalore. Bangalore is India’s Silicon Valley, technology hub and the capital city of the state of Karnataka, India’s number 1 solar market, which installed over 2 GW, and together with the state of Telangana, accounted for approximately 50 percent of all installations across Pan India in 2017. Alone in Q1 2018 Karnataka commissioned 3.77 GW of utility-scale solar power capacity.

➔ INTER SOLAR INDIA IN MUMBAI AT A GLANCE

Date	April 4–5, 2019
Venue	Bombay Exhibition Centre
Hours	10:00am–6:00pm Thursday 10:00am–5:00pm Friday
Topics	Photovoltaics, PV Production Technology, Solar Thermal Technologies, Solar Plants, and in particular Financing
Website	→ www.intersolar.in

➔ INTER SOLAR INDIA IN BANGALORE AT A GLANCE

Date	November 27–29, 2019
Venue	Bangalore International Exhibition Centre
Hours	10:00am–6:00pm Wednesday 10:00am–6:00pm Thursday 10:00am–5:00pm Friday
Topics	Photovoltaics, PV Production Technology, Solar Thermal Technologies, Solar Plants
Parallel Events	ees India, Power2Drive India
Website	→ www.intersolar.in



| EES INDIA

The market potential for electrical energy storage in India is expected to be tremendous in the future – especially driven by incoming policies for the e-mobility industry. With the great success and support of ees Europe, Europe's largest exhibition for batteries and energy storage, ees India becomes the most powerful energy storage exhibition in India. The exhibition is the industry hotspot for suppliers, manufacturers, distributors and users of stationary electrical energy storage solutions. It covers the entire value chain of innovative battery and energy storage technologies – from components and production to specific user applications.

The energy storage market in India is promising

The global electrical energy storage market is forecasted to double six times between 2016 and 2030. India together with USA and Japan is predicted to install 50% of energy storage systems by 2030 according to Bloomberg New Energy Finance.

India's policy to have 100% EVs by 2030 alone can create a \$300 billion market for EV batteries in India according a study conducted by the Niti Aayog and Rocky Mountain Institute.

The India Energy Storage Alliance (IESA) has estimated over 70 GW and 200 GWh of energy storage opportunity in India by 2022, which is one of the highest in the world. Out of 70 GW, over 35 GW of demand is expected from newer applications

like solar integration or electric vehicles, hence there is a sizable opportunity for advanced storage technologies in the new applications. Sales of battery based energy storage receives a boost through-out the country through the lack of reliable grid power, growth in sales of electric rickshaws (e-trikes) and integration of solar PV.



➔ EES INDIA IN BANGALORE AT A GLANCE

Date	November 27–29, 2019
Venue	Bangalore International Exhibition Centre
Hours	10:00am–6:00pm Wednesday 10:00am–6:00pm Thursday 10:00am–5:00pm Friday
Topics	Electrical Energy Storage Technologies, Electrical Energy Storage Systems, Battery Production
Parallel Events	Intersolar India, Power2Drive India
Website	→ www.ees-india.in



POWER2DRIVE INDIA



According to Bloomberg New Energy Finance India's electric vehicle (EV) industry saw a year of great interest in 2017 as many car manufacturers announced plans for introducing EVs in the country. Sales doubled, albeit from a small base. Hyundai Motors Co., Maruti Suzuki India Ltd., Tata Motors Ltd., Mahindra & Mahindra Ltd., Ashok Leyland Ltd. and BYD Co. are some of the companies to unveil EV plans.

The new exhibition Power2Drive India aims to help companies to develop and distribute technologies, solutions, and business models in the field of electric vehicles and charging infrastructure, and to push forward a sustainable future mobility in India. Power2Drive India is therefore a must-attend platform for automakers, electric mobility start-ups, suppliers and distributors of electric mobility and transportation.

Electric mobility as crucial part of the sector coupling

Electric mobility and energy storage systems of the high power segment being used in the automotive sector have the potential to actively shape our future energy system and to underline the need for renewable energy generation. They offer furthermore potential for business and new applications as well as improvements for the environment and society at a large scale.

Bangalore aims to be the electric vehicle capital of India

Power2Drive India takes place in Bangalore, the capital city of Karnataka – the best place in India to do business in the e-mobility industry. With the Electric Vehicle and Energy Storage Policy 2017, the government of Karnataka is India's first state to launch a specific EV and energy storage policy. Karnataka intends to make Bangalore the electric vehicle hub of India and hub for energy storage production. The government will create charging infrastructure by subsidizing charging and battery swapping stations. Around \$4.8 billion are expected to be poured into this program and 55,000 jobs are expected to be created.

POWER2DRIVE INDIA IN BANGALORE AT A GLANCE

Date	November 27–29, 2019
Venue	Bangalore International Exhibition Centre
Hours	10:00am–6:00pm Wednesday 10:00am–6:00pm Thursday 10:00am–5:00pm Friday
Topics	Electrical Vehicles, Charging Solutions, Traction Batteries
Parallel Events	Intersolar India, ees India
Website	→ www.PowerToDrive.in



**THE SMARTER E
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GET YOUR
INDIAN SOLAR,
E-MOBILITY AND
ENERGY
STORAGE BUSINESS
STARTED!**



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