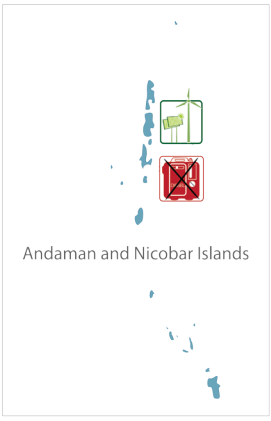
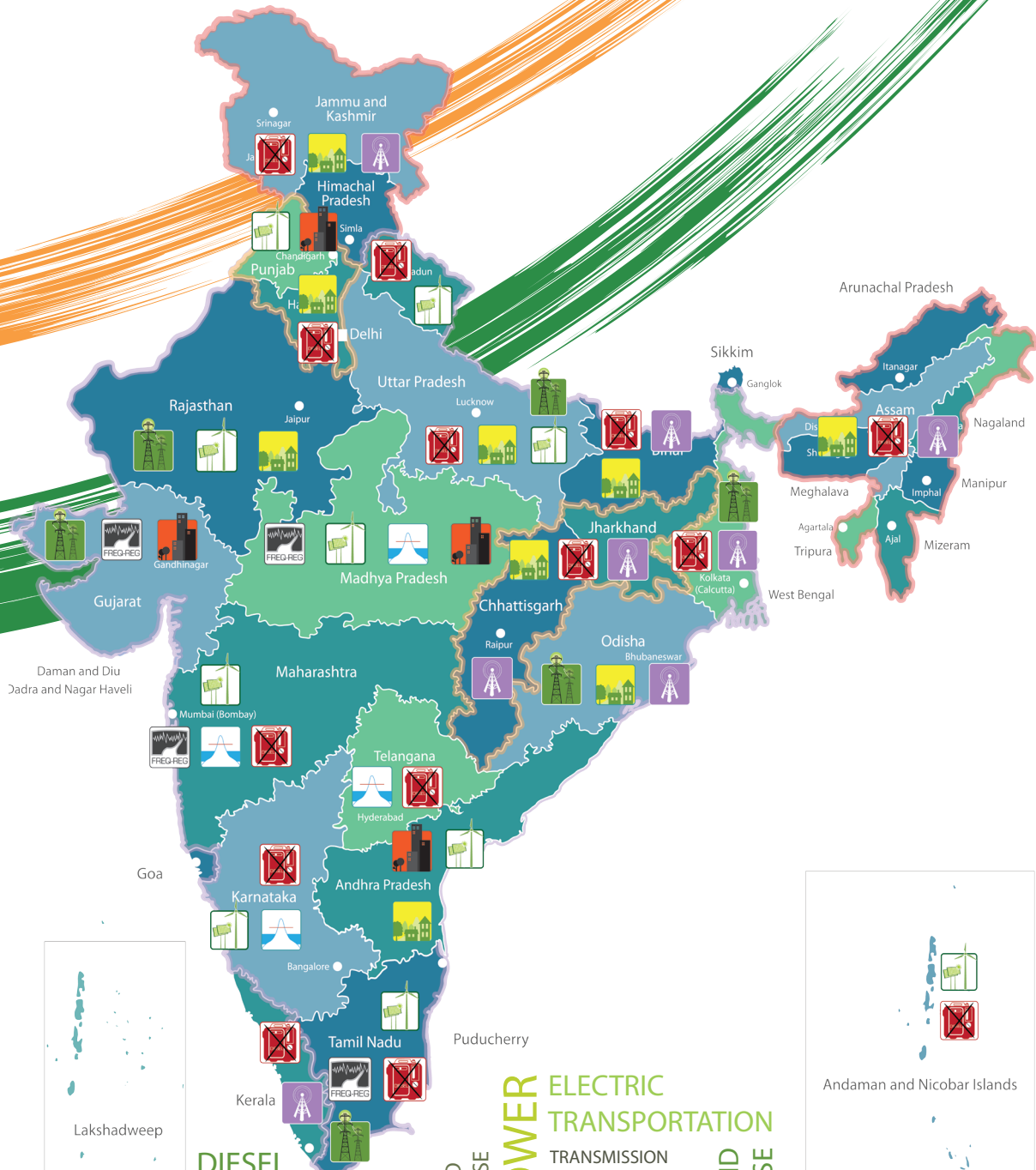


INDIA ENERGY STORAGE ALLIANCE



SMART CITIES
RENEWABLE INTEGRATION

DIESEL USAGE REDUCTION
ANCILLARY SERVICES

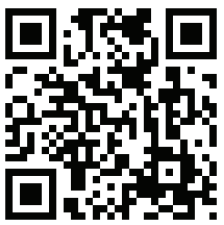
TELECOM TOWERS

DEMAND RESPONSE

BACKUP POWER
ELECTRIC TRANSPORTATION
TRANSMISSION AND DISTRIBUTION
PEAK LOAD MANAGEMENT
MICROGRIDS AND RURAL ELECTRIFICATION

DEMAND RESPONSE

FREQUENCY REGULATION
SMARTGRID



About IESA

The India Energy Storage Alliance (IESA) was launched in 2012 by Customized Energy Solutions to promote energy storage & micro grid technologies and their applications in India. IESA's vision to make India a global leader in energy storage & microgrid technology adoption and hub for manufacturing of these emerging technologies by 2020. IESA's mission is to make energy sector in India more competitive and efficient by creating awareness among various stakeholders in the industry and by promoting information exchange with the end users. IESA also provides insights to technology developers, original equipment manufacturers and system integrators on the policy landscape and business opportunities in India through frequent interaction with all key stakeholders. As estimated by IESA, the Indian energy storage market is expected to grow to 20 GW by 2020. Please find more information on IESA at <http://www.indiaesa.info/>

IESA helps members to understand energy storage opportunities in India and to create business for energy storage in India through a common platform. The IESA team supports policy makers and regulatory bodies to create suitable framework to promote energy storage technology and its adoption in India. IESA helps technology companies to exchange and to consolidate technology developments, trade negotiations and investments. This alliance is an exciting mix of members from diverse business and geographical backgrounds, constituting energy storage manufacturers, academic / research institutions, technology and materials developers, engineering firms, renewable energy companies, power sector systems integrators, as well as large industrial and commercial end-users from across the globe.



IESA Membership

IESA offers 3 membership options to its stakeholders:

- IESA- Knowledge Partner Network Member
- IESA Associate Member
- IESA Leadership Circle (LC) Member

IESA undertakes various activities for its members which include


- We conduct regular webinars for IESA members to share knowledge and opportunities in the Indian market. These webinars provide opportunity for members to understand specific application areas. IESA also invites member companies to share insights at these webinars and provides a platform for reaching to wider audience.

- Through monthly IESA-Information Bulletin, we provide Industry and Technology news to all IESA members. It also includes IESA featured events where IESA members can avail special discounts to participate.

- IESA team has uploaded 100+ research papers, presentations, industry reports, case study and white papers under resource category for its members through secure login access on IESA website.

- IESA maintains a list of opportunities (RFPs/Tenders) related to energy storage and microgrid projects in India. Using this section, members can find one stop resource for exploring opportunities across multiple sectors.

- IESA is a partner to maintain International Energy Storage Database (IESDB) developed by US Department of Energy. IESA is responsible to include the Indian energy storage projects in the database at www.indiaesa.info and www.energystorageexchange.org.

The India Energy Storage Alliance (IESA) is one of the founding members of the  Global Energy Storage Alliance (GESA). GESA has been established as an international non-profit organization to bring together many of the world's leading energy storage and clean energy industry associations to advance education, collaboration, and proven frameworks about the benefits of energy storage. Through this partnership IESA members can gain access to global best practices as well as special networking opportunities through partner organizations. These efforts have resulted in series of initiatives that will open up the opportunities for energy storage deployments in India.





IESA Activities

Summary of key IESA Activities during 2013-14

1. Policy and Regulatory Initiatives:

- Participated in the national taskforce formed by the Ministry of Power & Central Electricity Authority for integration of renewable energy to the electricity network of the country.
- Lead the working group on "Renewable integration, energy storage and micro grids" for MERC (Maharashtra Electricity Regulatory Commission) under Smart Grid Co-ordination Committee.
- Provided training for utility officials and regulators on latest developments related storage through "CEA-India Smart Grid Forum Regional Workshops on Smart Grid"
- Currently part of the standing committee on energy storage and hybrids for Ministry of New and Renewable Energy
- Working with Power Grid Corporation of India (PGCIL) for facilitates integration of energy storage in smart grid and green corridor projects being developed by PGCIL.
- Developed a research paper on "Need for ancillary services in India and role of energy storage technologies in providing these services" in collaboration with Shakti Foundation.



2. Capacity Building on Energy Storage

- IESA Technology Tour: IESA hosted two technical tours in October 2012 and April 2013 in India to encourage one on one dialogue between technology companies and key Indian stake holders. These tours had participation from international delegates representing companies including Altairnano, Imergy Power Systems, DynaPower, Ecoult / East Penn, Enerdel, Google.org, Urban Electric Power, S&C, Applied Materials and ZBB.
- Energy Storage Seminars: IESA has hosted special knowledge building seminars with key strategic partners in different cities around India such as Hyderabad,



Chennai, Bengaluru and Delhi as well as hosted energy storage sessions at over 12 national and international conference during past 18 months.

3. Original Market Research

Original Market Research to explore business models and applications for various energy storage technologies Reports: IESA has compiled the most comprehensive assessment of market potential for energy storage and micro-grid technologies in India for 2014-2020 and released 'Energy Storage India: Market Overview Report - 2013'. The 2nd edition of this Market Assessment will be released in the next month.



IESA research team has also released various reports on energy for India markets.

4. IESA started quarterly magazine

"Emerging Technology News": To spread the knowledge among all stake holders and to create a market for energy storage, IESA started quarterly magazine name Emerging Technology News (ETN). This quarterly magazine covers articles from different domain areas such as Micro grids, Smart cities, storage for DR, Smart Grid and Storage for Renewable Integration. Apart from articles it also includes case study on technology and national & international happenings in energy storage sector. This is circulated to 8000+ energy enthusiasts throughout the world and shared at different national and international energy storage conferences.throughout the world and shared at different national and international energy storage conferences.



5. Energy Storage India (ESI) Conference:

IESA hosted 2nd Energy Storage conference in December 2014, which was attended by over 500 participants from 15+ countries and has generated lots of interest on energy storage and micro-grid opportunities in India. Again this year, we are hosting 3rd International Energy Storage India Conference scheduled for 8th-9th December 2015 in New Delhi, India. The theme of the 3rd conference is "New Era for India's Energy Infrastructure through Energy Storage & Microgrids" and will focus on various applications where energy storage and micro-grid technologies will help India leapfrog the energy infrastructure development. For more details visit <http://esiexpo.in>



Join IESA to gain insights and access to one of the fastest growing energy storage and microgrid markets.

Be part of the largest networking event for energy storage and microgrid industry in India, Energy Storage India. For more details visit www.esiexpo.in



Strategic Partners



IESA Members



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