



6th Smart Cities India 2020 Expo

— Including —

**BUILDINGS
INDIA**

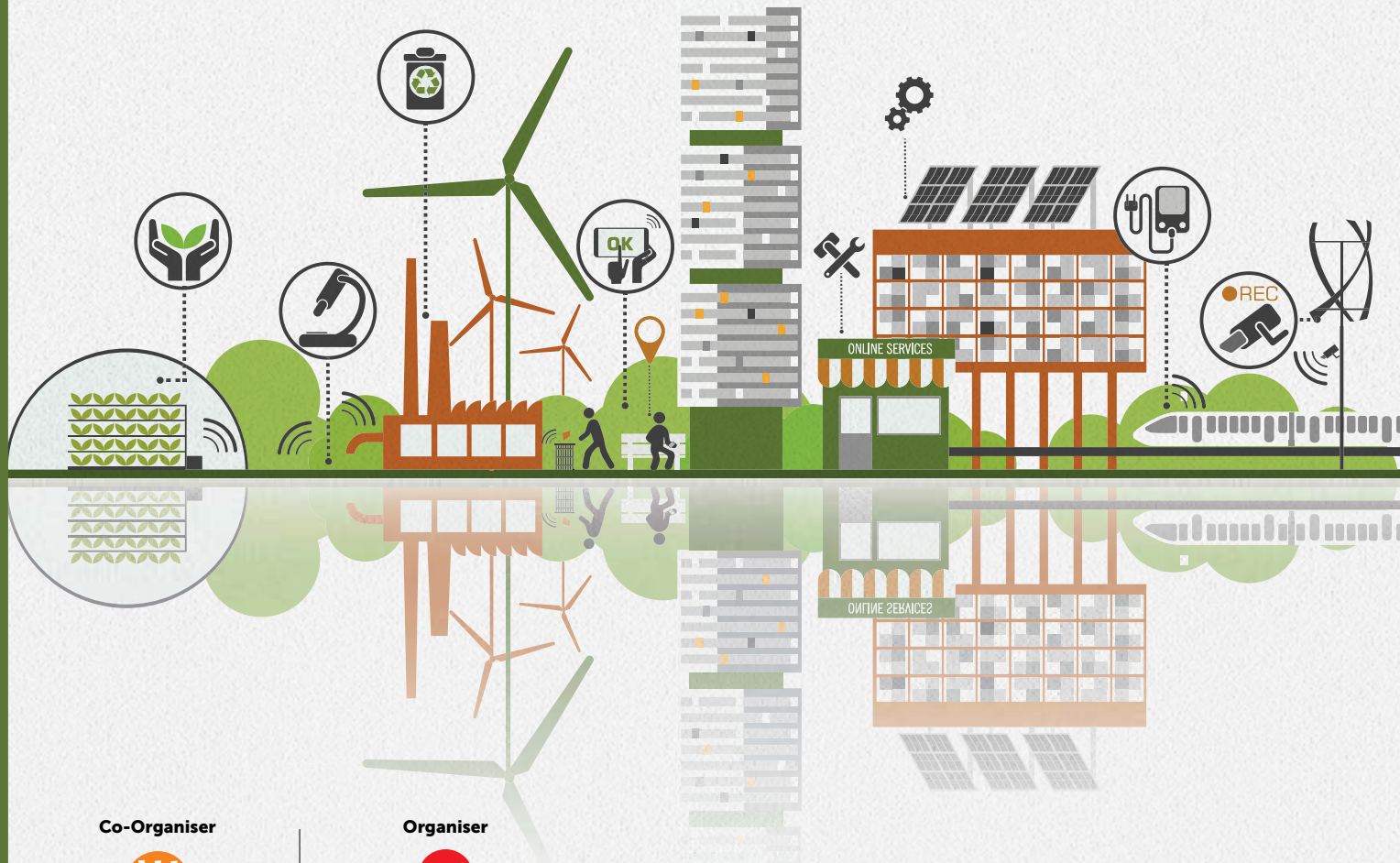
**SOLAR
INDIA**

**TRANSPORT
INDIA**

**WATER
INDIA**

Developing Smart Cities for our Citizens

PRAGATI MAIDAN, NEW DELHI | 20-22 MAY 2020



Co-Organiser



India Trade Promotion Organisation (ITPO)
(A Government of India Enterprise)
Department of Commerce

Organiser



Exhibitions India Group
ISO 9001:2015 - ISO 14001:2015 - OHSAS 18001:2007
Committed to Excellence

www.smartcitiesindia.com

EXPO

- Launched in 2015, the Smart Cities India expo is a leading international expo
- Organised with the India Trade Promotion Organisation (ITPO)
- The 3-day expo attracts 400+ exhibitors
- Number of visitors has increased to 16,000+ in 2019 and is growing

CONFERENCE

- 40+ conference sessions and workshops with 250+ speakers
- Includes representatives from the Centre and States, PSUs, officials, diplomats, commissioners, mayors, city leaders, private sector, professionals, academics, etc

SPECIAL EVENTS

- City Leaders Conclave
- EV & Battery Tech Summit
- Mobi Colloquium
- Smart Cities India Awards
- Smart Village Conclave
- Solar Rooftop Summit
- Start-up India Pavilion

MISSIONS INCLUDED

- Smart Cities Mission
- National Solar Mission
- National Water Mission
- National Electric Mobility Mission
- National Energy Storage Mission
- Swachh Bharat Mission
- Atal Mission for Rejuvenation and Urban Transformation (AMRUT)
- National Heritage City Development and Augmentation Yojana (HRIDAY)
- Digital India
- Housing for All
- Make in India
- Skill India

Smart Tech with India's Urban Planning



Mission Achievements: Some examples

- **Smart Cities:** A total of 5,151 projects costing \$29.5 billion have been sanctioned across 100 cities.
- **FY 2018-19:** Over 2,300 projects worth around \$13.1 billion tendered
- **AMRUT:** 482 cities selected; 4,097 projects awarded at an outlay of \$7.1 billion from FY 15-16 to FY 19-20 including water supply projects, sewerage and septage management; storm water drainage; non-motorised urban transport, and parks/ green spaces in 500 cities
- **National Electric Mobility Mission:** Department of Heavy Industries (DHI) introduced Faster Adoption and Manufacturing of Hybrid & Electric Vehicles in India (FAME-India) scheme in 2015. Financial support provided to 261,507 electric/hybrid vehicles to date
- Fully electric buses added to the scheme for modernising the public transport system in Oct 2017; DHI has sanctioned 455 electric buses for 9 cities with 44 more cities seeking 3144 e-buses
- **National Solar Mission:** A cumulative of 28,780 MW solar capacity installed uptill 31st March 2019. Decentralised solar applications promoted: As on October 2018, 4 million lanterns & lamps; 1.6 million home lights; 0.64 million street lights; and 0.196 million solar pumps installed in the country, while off-grid SPV capacity stood at approx. 916 MW
- **National Water Mission:** 6,376 new ground water monitoring wells have been set up; 1,827 water bodies included in the scheme with the total estimated project cost amounting to \$21.3 billion approx. So far, strengthening of 0.386 million traditional water bodies has taken place. The 'Namame Gange' project has been allocated a budget of \$28.4 billion approx.
- **Housing for All:** 6.3 million houses sanctioned; 1.2 million houses completed; and 2.3 million units under construction uptill November 2018. Amount released from the central government is \$5.7 billion, plus \$10 billion has come from private funds.
- **Swachh Bharat Mission:** 5.5 million household toilets constructed; 0.46 million community & public toilets constructed; 3,558 cities achieved Open Defecation Free tag; 76,085 wards achieved 100 percent door to door waste collection; 88.4 MW waste to energy (WTE) production generated.



6th Smart Cities India 2020 Expo

A smart city uses digital technologies to enhance performance and wellbeing, to reduce cost and resource consumption to engage more effectively and actively with its citizens.

Smart Cities India expo leverages the power of smart technology to deliver better citizen services in providing green buildings, energy, transport and water for a sustainable future.

Factors:

- 31% of India's population lives in urban areas and contributes 63% to India's GDP.
- India's urban population requires comprehensive development of physical, institutional, social and economic infrastructure. Development of 'Smart Cities' is a step in that direction.
- The Government of India's strategy encompasses city-wide application of at least one 'smart solution' by developing



Buildings India

Sustainable infrastructure is an integral part of the Smart Cities Mission. As cities expand, it is imperative to invest in smart buildings and housing to enable cohesive development in the future. Buildings India expo will showcase government schemes and initiatives for the urban/rural poor; smart/green buildings; real estate developers; facilities management, etc.

Key elements of Buildings India are:

- Housing for All & other government initiatives for the urban/rural poor
- Smart/green buildings
- Real estate & high-rise buildings
- Facilities management
- Building Information Modelling (BIM)
- Construction equipment & materials
- Connected homes & smart cities
- Security & surveillance
- Fire safety
- Smart lighting

Solar India

With a target of 100 GW solar power by 2021-22, India has emerged as a global leader in the adaption of solar energy. This includes ground-mounted (60 GW) and rooftop solar (40 GW) projects. India is currently No. 5 in global standings for solar installations. As on 31st March, 2019, cumulative installations of ground-mounted solar stood at 26,984 MW, while that of rooftop solar was 1,796 MW.

Key elements of Solar India will be:

- Ground-mounted & rooftop solar
- Floating solar
- Battery storage
- Solar cities
- Micro grids
- Solar street lighting, etc.



areas in a step-by-step process that would involve either or all of the three area-based development models - retrofitting, redevelopment and greenfield.

- Internet of Things (IoT), a fundamental component of most smart cities, has a potential economic impact of \$3.9-11.1 trillion a year by 2025. Currently, smart city initiatives make up the largest segment of IoT projects.
- A smart city generates vast quantities of data that needs to be stored and analysed. Machine learning and AI are essential for city administrators to cross-reference insights from the different data sets involved. Administrators can use the findings to solve problems, automate processes, improve performance where necessary, and come up with new smart features and services.

On display will be state-of-the-art technologies relevant to building smart cities in India:

- **Buildings:** Home automation/IoT; smart/green building solutions; safety & security; and building intelligence monitoring (BIM)
- **Water & sanitation:** Waste management solutions; water monitoring; water metering/billing; water ATMs; toilets; etc.
- **Environment & pollution:** Urban planning; pollution monitoring; etc.
- **Smart IT & communications:** Command & control centre for cities/municipalities; cloud data; IoT; etc.
- **Smart transport:** Electric mobility; charging infrastructure
- **Clean energy & energy storage devices**
- **Smart grid, etc.**



Transport India

Indian cities are now home to millions of vehicles, including domestic or commercial, two-wheelers, three-wheelers, buses and locally modified electric vehicles used to ferry goods and passengers within the city. Together, these contribute to traffic and parking congestion as well as air pollution, thereby raising health and safety issues. There is an urgent need to address the challenges related to the country's road transport sector, including inadequate public transportation, road safety, traffic management, parking infrastructure, etc.

Transport India will showcase end-to-end solutions for 'Smart Transport' in the country, including:

- Electric/Hybrid/Alternate Fuels Vehicles
- Connected/Autonomous Vehicles
- Storage/Batteries
- Public Transportation
 - Bus/Bus Rapid Transit System
 - Rail/Metro Rail/Hyperloop, etc.
- Smart Cards/Smart Parking
- Traffic Control Rooms & Systems
- Intelligent Transport Systems/Road Traffic Systems (safety, security, surveillance), etc.

Water India

India consumes 581 trillion litres of water annually. Of this, a staggering 89% is used for irrigation, followed by 7% for domestic use, and 4% for industrial use. The country will need 1,200 billion cubic metres of water by 2025, and 1,447 billion cubic metres by 2050. The Government of India aims to connect 90% of rural households with piped water supply by 2022.

Water India provides a platform for products, services and solutions available in the water industry worldwide. The event will see different facets of water in India such as:

- Non-revenue water (NRW)
- Irrigation systems
- Water supply & distribution
- STP/WWTP/ETP
- Government initiatives, etc.



Exhibitor Profile

- **Sustainable environment:** Air, land and water pollution controls
- **Potable water:** Domestic and commercial usage
- **Sanitation:** Toilets for all
- **Energy:** 24x7 clean energy; solar energy; energy storage; smart grids
- **Mobility:** Two; three and four wheel vehicles: EVs / HEVs / Fuel cells / Hydrogen / Alternative fuels, etc.
- Connected / Autonomous vehicles
- Urban mobility and public transport: bus / rail / metro / mono rail, etc.
- Traffic control rooms
- Smart parking
- **Digital India:** IT and Communications
- **e-Governance:** G2C / G2B /G2G
- **Green buildings:** Energy, water and material efficiency; water harvesting; recycling and waste reduction; improved indoor air quality; etc.
- **Urban planning:** City planners / architects / buildings / skywalks / walkways / cycle tracks / BRTs / parks / play-grounds / hospitals / educational institutions / street lighting, etc.
- **Smart buildings:** Energy saving; water harvesting; recycling (water and waste); IT & Communications; HVAC; automation; connected devices; smart lighting; smart appliances; elevators; fire & safety; etc.
- Safety, security and surveillance
- Disaster management
- **Smart health:** Health for all
- **Smart education:** Skilling India
- **Make in India:** Smart manufacturing
- Plan and build new smart cities
- Retrofit existing cities
- Heritage cities
- Smart aerotropolis; military enclaves; ports; railway stations; etc.
- Geographical information systems (GIS)
- Sensors
- Semiconductors
- Special economic zones (SEZ's); industrial parks; IT parks; townships; etc.



Visitor Profile

- Government representatives from ministries, departments, regulatory bodies, SPV's, municipalities, local authorities, etc.
- Embassies and trade offices
- CEOs, COOs, VPs, country managers and decision makers of public and private organizations
- Engineers, architects, and consultants
- Suppliers and buyers of relevant technologies
- Project management, EPCs
- Systems integrators
- Builders and property developers
- Media and advertising
- Non-governmental organizations
- Banks and financial institutions
- End-users, etc.



RESERVE A LOCATION TODAY

SHELL SCHEME (Minimum 9 sqm)
INR ₹13,000 / US\$ 360* (per sqm)

RAW SPACE (Minimum 18 sqm)**
INR ₹12,000 / US\$ 330* (per sqm)

*GST AS APPLICABLE. ** POWER SUPPLY WILL BE CHARGED EXTRA.

Join us on



Co-Organiser



India Trade Promotion Organisation (ITPO)
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Department of Commerce

ITPO, the premier trade promotion agency of the Ministry of Commerce & Industry, Government of India, is committed to showcase excellence achieved by the country in diverse fields, especially trade and commerce. ITPO provides a wide spectrum of services to trade and industry, and acts as a catalyst for growth of India's trade.

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EIG is a trade promotion organization creating opportunities for investments, joint ventures and technology transfers. EIG acts as an interface between businesses, government, academia, society, media, etc. EIG has been in existence since 1987, and is committed to providing satisfaction to its customers by organizing quality and focused international trade shows through exceptional services, employee involvement, market intelligence and continual improvement.

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