WBCSD accelerating charging infrastructure deployment

GEF E-Mobility program

8th December 2021
Reaching the Net-zero target represents a systemic and unprecedented technology scale-up challenge

**Systemic challenge**
- Complex cross-sectorial alignment
- Alignment on key technologies
- Alignment on technology deployment roadmaps
- Coherent policy framework

**Investment challenge**
- USD 2.7 Trillion investments annually
- Governments not sufficient to close the gap
- High upfront costs
- Unclear & long payback period
Aligning businesses on charging framework

9 technology and policy recommendations ensuring TIMELY, INCLUSIVE, SUSTAINABLE transition

Bringing energy, mobility and real estate business leaders together to propose a common vision of interconnected system that can improve the business case for charging infrastructure deployment and catalyze EV market growth.

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# Cross-sectorial alignment on key technologies

## MOBILITY
- **Data**: Data intelligence, Digital systems for sharing data
- **Fleet optimization**: Fast and slow charging
- **Demand flexibility**: Demand flexibility systems, Virtual power plants

## ENERGY
- **Charging**: Unidirectional controlled charging (V1G), Vehicle-to-grid (V2G), Charging point management software
- **Micro grids**: Building energy management systems, EV battery repurposing, Renewable energy sources
- **Smart grid**: Smart metering, Power management technologies, Storage technologies

## REAL ESTATE
- **Spatial & network planning**: Advanced network and spatial planning tools
- **Shared space**: Smart parking systems
- **Connected transport modes**: Integrated fleet management solutions, Modular charging technologies

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Providing nine key actions to unlock shared value

1. Address the needs of different EV fleets
2. Agree on data sharing principles
3. Engage and incentivize flexible consumers
4. Incentivize and facilitate charging integration
5. Encourage the deployment of smart grid technology
6. Maximize charging from renewable sources
7. Establish coordinated strategic planning and management
8. Share space and charging infrastructure
9. Connect transport modes
Accelerating deployment through national coalitions - India

- Participating businesses have electrified 250 million kms through own actions – representing over 50% of electrified corporate fleets in India.

- Collaborating with the department of Heavy Industries in the launch of “India Business Guide to EV Adoption” at COP 25.

- Supporting demonstration project with 500 electric cars to showcase viability of 100% electric ride-hailing fleets in Delhi.

- Invited by Government of India to suggest improvements and changes to India’s EV incentive scheme worth USD $1.4 billion

- Launching India EV ambition at COP 26, pledging to at least 65% of all new vehicles sold are electric by 2030.
Accelerating infrastructure deployment globally

Bring confidence in investment decisions
Form local coalitions to align public, private sector on common deployment roadmaps considering regional market conditions

Leap frog on lessons learned from other countries
Exchange knowledge on best practices to feed locally-informed policy & financing mechanisms

Catalyze action of high impact segments
Collaborate closely with businesses that have capacity to act as catalysts for further technology deployment
Time to Transform.

Geneva, Beijing, Delhi, London, New York, Singapore