Understanding the perspective of industry stakeholders on decarbonization strategies in India

Priorities for transport decarbonization in India

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Business leadership for a sustainable future.

World Business Council for Sustainable Development (WBCSD)

200 global companies united around a common vision creating a world in which over 9 billion people are all living well and within planetary boundaries by 2050.
Decarbonization of transport in India

1. Road transport carries almost 90% of India’s passenger traffic and 65% of the country’s freight. Road transport utilizes ~78% of the energy share used for transport.¹

2. As the cost of batteries and renewable energy falls and innovative mobility business models emerge, shared electric 2W, 3W, 4W, buses and freight can help make mobility cleaner affordable and accessible to everyone.

3. But decarbonization of transport is not just about the energy transition – it is also about efficiency and behavior change.

¹India Transport Report : Moving India to 2032–Volume III
Decarbonization of mobility

Energy transition in mobility
The transition to clean energy in the transport sector

Efficient mobility system
Increased efficiency of the transport system without limiting mobility – more public transport, shared mobility, better last-mile, better commute planning, etc.

Behaviour change
Motivating a switch to low-impact modes of transport (public and private interventions)
Value for industry: Decarbonization of mobility

Unlike traditional vehicles, electrified vehicles require a different value chain and processes to support them.

The potential value of the transition to decarbonized road transport resides at the intersection of mobility, real estate and energy. Collaboration will accelerate EV adoption and strengthen the business case for efficient electric fleets, effective space management, enhanced role of charging network in grid management and help attract capital.
Collaboration can untap value at the intersection of mobility, energy & real estate

**What can each sector do to enable the other?**

**Mobility**

How can electric, connected fleets accelerate the creation of an economically viable charging infrastructure that supports the energy transition?

**What value can be unlocked based on collaboration at the intersection of the different sectors?**

**Real estate (public & private)**

How buildings, mobility hubs and urban infrastructure can help improve efficiency of electrified mobility services, improve access and social integration?

**Energy**

How energy companies (incl utilities & charging infra companies) can leverage digitalization to enable efficient fleet management and help increase the value of space in the urban environment?
Making mobility, infra and space-management smarter

1. How can electric, connected fleets accelerate the creation of an economically viable charging infrastructure that supports the energy transition?

2. How can fleets share data for effective planning and management of charging locations?

3. What kind of partnerships and licensing agreements be activated for long term collaboration?

4. Can fleet operators provide demand guarantees to support investments in charging infra and grid upgradation?
Making mobility, infra and space-management smarter

1. How to maximize utilization of charging and grid assets?
2. How to enable new services – solar + microgrid + charging?
3. How can the power sector use EV fleets for V2G and grid management services?
4. How to create market rules for mobility that support energy transition?
1. How to unlock land for charging infrastructure?
2. Is the current real estate licensing model fit for purpose for what we are trying to achieve?
3. Is there value in aggregating with other services? How can the value of space be enhanced / monetized by opening it up to mobility services?
4. How to make real estate ready for future requirement from space (including the requirement for being ready to provide charging infra)?

Making mobility, infra and space-management smarter
1. How buildings, mobility hubs and urban infrastructure can help improve access and social integration?
2. How can we leverage digitalization to enable efficient fleet management and help increase the value of space in the urban environment?
Making mobility, infra and space-management smarter

Digital platform

Fleet optimization

Charging

Additional services (incremental monetization of real estate)

Space design and usage

Grid management

V2B / V2G microgrids

Intermodal mobility

Real estate

Mobility

Energy

Data

RE integration

Real estate
**REmobility**: working with forward looking business to accelerate decarbonization of mobility in India

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