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Principal Scientific Adviser to GoI launches report on e-mobility R&D roadmap for India to achieve net-zero targets

The "**e-mobility R&D Roadmap for India**" report was launched by Professor Ajay Kumar Sood, Principal Scientific Adviser to the Government of India at Vigyan Bhawan Annexe in New Delhi. The R&D roadmap has been prepared after detailed horizon scanning of the global automotive sector and identifying future cutting-edge technological requirements.

India aims to achieve a 45% reduction in emission intensity by 2030 and energy independence by 2047 to reach net-zero commitment by 2070. A significant part of the vision will require the wider adoption of electric vehicles, manufacturing of indigenous energy storage systems, and generation of renewable energy to feed charging infrastructures.

Presently, the e-mobility value chain heavily depends on imports therefore it is imperative to reduce the dependence on imports within the e-mobility value chain and the requirement of strengthening domestic R&D capabilities in the automotive sector.

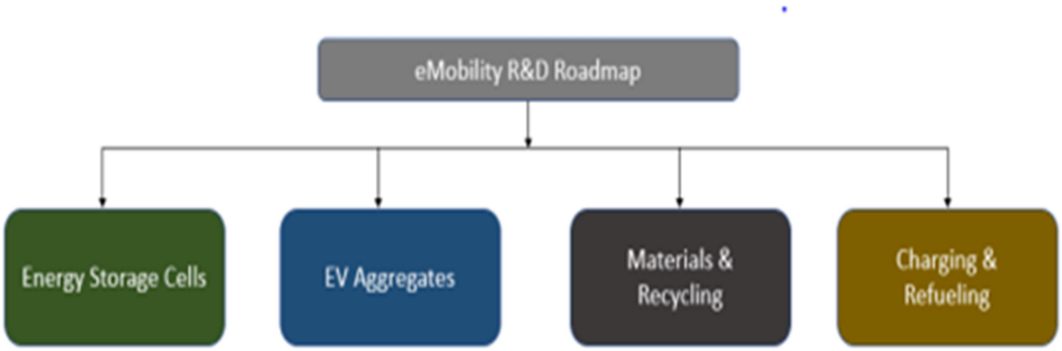
The automobile sector in India is one of the largest contributors to the country's GDP and, considering its fast growth trajectory, it will continue to do so in the future. This progress should be aligned with the Net-Zero vision of the country and there is an impending need to foster a culture of R&D and innovation-driven growth in the automotive sector.

Key highlights

1. The report identifies the RoadMap and projects that the country will have to take in order to be at the cutting edge of both Value and Supply Chains five to seven years down the line- say in 2030.

2. It categorizes research projects into four important areas: Energy Storage Cells, EV Aggregates, Materials and Recycling, Charging and Refueling, and provides clear pathways to attain global leadership by being *Atmanirbhar* in the next five years. Research projects on various sub-topics have been identified under the respective broad areas or buckets mentioned above.

Four critical streams of eMobility R&D Roadmap



3. The report also identifies the specified estimated time required to complete each project and potential risks related to industrialization, obsolescence, market conditions, and technological challenges. The tentative budget outlines the financial resources expected to be allocated.

4. The report also suggests that there is also a need to constantly identify new ideas and opportunities and enable them with suitable financial and administrative actions under special Programs or Missions or Schemes.

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Warm Regards,

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