

# Research and development in battery for electric vehicles

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Government has formulated a Mission Plan for electric vehicles (including hybrid vehicles) viz. National Electric Mobility Mission Plan 2020 (NEMMP 2020). The NEMMP 2020 provides a road map for facilitating the manufacture and use of electric and hybrid vehicles through a series of interventions in order to support R&D in technology including battery technology, create demand for such vehicles, and to enhance manufacturing of such vehicles significantly by the year 2020. Under NEMMP, the Government has an ambitious target to achieve 6-7 million sales of hybrid and electric vehicles by 2020.

As part of the mission, Department of Heavy Industry has notified a FAME India Scheme [Faster Adoption and Manufacturing of (Hybrid &) Electric Vehicles in India] for implementation with effect from 1<sup>st</sup> April 2015. The scheme is proposed to be implemented over a period of 6 years till 2020, wherein it is intended to support the hybrid/electric vehicles market development and its manufacturing eco-system to achieve self-sustenance at the end of stipulated period. At present, the Phase-I of the scheme is under implementation, which was originally for a period of 2 years till 31<sup>st</sup> March 2017 but has been extended further till 31<sup>st</sup> March 2018. The scheme is being implemented through four focus areas namely Technology Development (R&D); Pilot Project; Charging Infrastructure and Demand Creation.

Department of Heavy Industry has, however, not undertaken any specific study to assess the yearly requirement of battery capacity to meet this demand.

As per FAME India Scheme [Faster Adoption and Manufacturing of (Hybrid &) Electric Vehicles in India], specific projects received under Technology Development (R&D), including battery technology / charging infrastructure are considered & approved for funding by the Government. The list of projects approved for funding to help in development of battery technologies is given below:

S.No.	Name of the Project	Name of the Operating Agency	Grant Already released from FAME-India Scheme	Committed Expenditure
1	Technical Development Project for advanced Gen-IV Lead Acid Battery & Gen-Nickel-Zinc Battery for EVs	Non-Ferrous Materials Technology Development Centre (NFTDC), Hyderabad	Rs. 2,44,00,000/-	Rs. 1,56,00,000/-
2	Proposal received under IMPRINT initiative of MoHRD for Hierarchical Nanostructure Carbon Materials Derived from Candle Soot and Graphene for High Rate & High Performance Electrodes for Automotive Batteries and	Indian Institute of Technology, Kanpur	Rs. 61,46,000/-	---

This information was given by Minister of State in the Ministry of Heavy Industries and Public Enterprises Shri Babul Supriyo in reply to a written question in the Rajya Sabha today.

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Supercapacitors  
[Development  
of  
Rechargeable  
Lithium Ion  
Battery]

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