



Subsidy on Electric vehicles

Why in News?

Under the **Electric Vehicle Policy**, the Rajasthan government has constituted an **e-vehicle promotion fund** of Rs 200 crore to **promote electric vehicles**.

Key Points

▪ About the Fund:

- The State Government's "**Electric Vehicle Policy-2022**" includes a provision to **reimburse the State GST amount** and offer a **one-time grant from the E-Vehicle Promotion Fund to buyers of electric vehicles** equipped with modern batteries, following the guidelines of **FAME-2**.
- The reimbursement and one-time grant amount will be payable on vehicles purchased from 1st January 2022 and registered in the state.
- **The Process:**
 - To avail the subsidy, firstly the vehicle manufacturer is required to **register on the departmental portal**.
 - After verification, the department will allow the vehicle buyer to apply for the grant.
- Under this policy, **all types of electric vehicles ranging from two-wheelers to heavy vehicles** have been included.
- The government aims to **encourage more people to use electric vehicles instead of diesel and petrol**, reducing **pollution** and preserving environmental balance.

▪ Advantages of Electric Vehicles:

- It produces zero tailpipe emissions, contributing to cleaner air and improved public health.
- Electricity can be cheaper than gasoline, leading to lower fuel costs per kilometer.
- Electric motors produce significantly less noise than gasoline engines.
- Electric motors convert a higher percentage of energy into useful power than gasoline engines.

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Electric Vehicles

- Electric vehicles are types of vehicles that use one or more electric motors for propulsion, instead of conventional **internal combustion engines (ICE)**, which burn gasoline or diesel.
- **Types of Electric Vehicles:**
 - **Battery Electric Vehicles (BEV):** These rely solely on battery power for propulsion and produce zero tailpipe emissions.
 - **Plug-in hybrid electric vehicles (PHEV):** Combine an electric motor with a gasoline engine. These can be charged externally and run on battery power for a limited distance, then switch to the gasoline engine for longer trips.
 - **Hybrid electric vehicles (HEVs):** These use both an electric motor and a gasoline engine, but the battery cannot be charged by plugging in directly.

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