

Battery Pack Aadhaar System

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Battery Pack Aadhaar System Latest News

Recently, the central government has released draft guidelines for a Battery Pack Aadhaar system.

About Battery Pack Aadhaar System

- It is an **indigenous digital identification** and data storage system developed to ensure **end-to-end traceability of batteries** throughout their entire lifecycle.
- **Objective:** This system aims to bring **transparency, accountability, and sustainability** to the **battery ecosystem** by enabling accurate tracking of performance, and environmental impact.

Features of Battery Pack Aadhaar System

- The **battery producer or importer** shall have the obligation of **assigning a unique Battery Pack Aadhaar Number (BPAN)** to each battery that they introduce in the market and the battery they put to self-use.

- Every Electric Vehicle battery pack and **industrial battery above 2 kWh** will be assigned a **21 character Battery Pack Aadhaar Number**, or BPAN, along with a **QR code**.
- The BPAN will **store**
 - **Static information:** It includes the **manufacturer's identity**, battery specifications, material composition, and carbon footprint.
 - **Dynamic data** — including **battery health, thermal events**, charge-discharge cycles, and end-of-life status — will be maintained on a central server, enabling predictive maintenance and efficient recycling.
- **Significance:** BPAN will play a crucial role in **enabling second-life usage**, regulatory compliance, and efficient recycling.

Source: TH

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