

India's First Hydrogen Train Launched

India's first hydrogen-powered train was launched, marking a significant step towards sustainable rail transport.

A hydrogen train utilizes a Proton Exchange Membrane (PEM) fuel cell onboard to generate electricity, unlike conventional diesel locomotives that burn fuel.

KEY EXAM POINTS

- India's first hydrogen-powered train was launched on **July 17, 2026**.
- The train, named **NaMo Green Rail**, operates on an **89-km stretch** between **Jind** and **Sonipat** in **Haryana**.
- Prime Minister **Narendra Modi** flagged off the train in **Jind**.
- It uses a **Proton Exchange Membrane (PEM) fuel cell** as its onboard power plant.
- This launch signifies a major step towards **sustainable rail transport** and **energy innovation** for **Indian Railways**.

STATICS & SYLLABUS FOCUS

Hydrogen fuel cells convert chemical energy from hydrogen into **electricity**, producing only **water** as a byproduct.

Unlike **diesel locomotives**, hydrogen trains offer **zero tailpipe emissions**, contributing to cleaner air.

The **Proton Exchange Membrane (PEM) fuel cell** is a type of fuel cell known for its **efficiency** and relatively low operating temperature.

The adoption of **hydrogen-powered trains** aligns with global efforts to **decarbonize the transport sector** and combat **climate change**.

Hydrogen is considered a **clean energy source** as its combustion or electrochemical reaction with oxygen produces only **water**.

This initiative contributes to **India's broader goal** of transitioning to a **green economy** and reducing reliance on **fossil fuels**.

REVISION FLASHCARD

India's first hydrogen train, NaMo Green Rail, launched on July 17, 2026, between Jind and Sonipat.

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