



India's First Indigenous Green Urea Plant in Andhra Pradesh | National Current Affairs | 07 Feb 2026

Why in News?

India's first large-scale indigenous green urea plant will be developed and operationalized at the **Pudimadaka Green Hydrogen Hub** in Andhra Pradesh.

Key Points:

- **Strategic MoU:** NTPC Green Energy Limited (NGEL), a subsidiary of NTPC Ltd., and **Assago Industries Pvt. Ltd.** have signed a MoU.
 - Under the agreement, NGEL will supply **green ammonia, renewable electricity, CO₂**, and other utilities to Assago.
- **Objective:** To produce **green urea** using **green hydrogen and renewable energy**, reducing reliance on fossil fuel-based ammonia.
 - The initiative marks a significant step towards building a **domestic green urea value chain**, reducing dependence on imported fertilizers.
 - Aims to **create jobs**, strengthen the **green energy sector**, and contribute to Andhra Pradesh's industrial development.
- **Environmental Impact:** Expected to **significantly cut carbon emissions** compared to conventional urea plants.
 - Supports India's **Net Zero 2070 goal** and the **Green Hydrogen Mission** under the National Hydrogen Policy.
- **Innovation:** First-of-its-kind **indigenous green urea technology** in India, promoting self-reliance in fertilizer production.

Read More: [Net Zero 2070 goal](#), [Green Hydrogen Mission](#), [NTPC](#), [Green ammonia](#)

PLASTINDIA 2026 BEGINS IN NEW DELHI | National Current Affairs | 07 Feb 2026

Why in News?

PLASTINDIA 2026, one of the **world's largest plastics exhibitions**, commenced in **February 2026** at **Bharat Mandapam, New Delhi**.

Key Points:

- **Event:** It is the **12th edition** of the **triennial** mega event of the plastics industry, **PLASTINDIA 2026**.
 - The event is structured around **five strategic pillars** — **Trade, Technology, Talent,**

Tradition, and Tourism, emphasising industry growth, innovation, skill development, and cultural integration.

- **Organisers:** **Department of Chemicals and Petrochemicals (DCPC)**, **Ministry of Chemicals and Fertilizers**, in collaboration with **Ministry of Commerce and Industry** and **Ministry of Micro, Small and Medium Enterprises (MSME)**.
- **Theme :** PLASTINDIA 2026 is held under the theme “**Bharat Next**”.
 - Aligning with the **Prime Minister’s vision of Atmanirbhar Bharat and Viksit Bharat** , aimed at strengthening the domestic plastics industry and manufacturing ecosystem.
- **Sustainability Focus:** For the first time, It is being organised as a **Zero Waste Exhibition**, ensuring segregation, recycling, and reuse of all solid waste generated at the event.

Read More: [Atmanirbhar Bharat](#), [Viksit Bharat](#), [MSME](#)

Kerala CM Launched Invasive Species Detection App | National Current Affairs | 07 Feb 2026

Why in News?

Kerala has officially launched **NeophyteID**, an AI-powered mobile application designed to detect and track invasive plant species across the state.

Key Points:

- **Launch & Developers:** Officially launched on 2nd **February, 2026**, by Chief Minister Pinarayi Vijayan, the app was developed by the **Malabar Botanical Garden and Institute for Plant Sciences (MBGIPS)**.
- **AI Technology:** Utilizing the **YOLOv11** machine learning model, the tool provides real-time identification and **geospatial tracking** for nearly **98 invasive species** in Kerala.
- **Functionality & Access:** Users can photograph plants for instant, data-driven identification in both **English and Malayalam**.
- **Ecological Impact:** NeophyteID aims to prevent the destruction of native plants during eradication efforts.
- **Data-Driven Conservation:** The use of AI and **geospatial tracking** provides researchers with **data-rich insights** into invasive species distribution patterns — critical for planning removal and restoration strategies.

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