

TOP NATIONAL NEWS

India Accelerates Green Steel Mission to Reduce Carbon Emissions



**GREEN STEEL
FOR A GREENER
TOMORROW**

Why in News?

The Ministry of Steel released the implementation roadmap for India's Green Steel Mission aimed at reducing carbon emissions from the steel sector and promoting low-carbon manufacturing.

- Promotes production of green steel using renewable energy and green hydrogen.
- Supports India's Net Zero target by 2070.
- Encourages adoption of energy-efficient technologies.
- Financial incentives proposed for green steel production.
- Expected to improve export competitiveness under Carbon Border Adjustment Mechanism (CBAM).

Government Launches National Urban Cooling Action Plan



- Cool roofs and reflective pavements.
- Urban forests and waterbody restoration.
- Heat Action Plans for 100 Smart Cities.
- Integration with AMRUT 2.0 and Smart Cities Mission.
- GIS-based Urban Heat Island mapping.

Prelims Facts

- **Urban Heat Island:** Urban areas remain warmer than surrounding rural regions.
- **Main causes:** Concrete, asphalt, reduced vegetation.

PLI Scheme Drives Electronics Manufacturing Growth



- Mobile exports crossed ₹2.8 lakh crore.
- India emerging as global electronics manufacturing hub.
- Employment generation in semiconductor ecosystem.
- Supports Make in India.

IMD Predicts Above-Normal Southwest Monsoon



- Reservoir levels improve.
- Better Kharif crop prospects.
- Enhanced groundwater recharge.
- Flood alerts for north-eastern states.

QUOTE OF THE DAY

“Success is where preparation and opportunity meet.”

— Bobby Unser

TODAY IN HISTORY

21 July 1969

Neil Armstrong became the first human to step on the Moon during the Apollo 11 mission, marking a defining moment in the history of space exploration.



INTERNATIONAL AFFAIRS

India-Vietnam Upgrade Strategic Partnership



- Prime Ministers of India and Vietnam agreed to strengthen Comprehensive Strategic Partnership.
- Defence cooperation and capacity building.
- Collaboration in semiconductor and digital economy.
- Maritime security and cooperation in South China Sea.
- People-to-people ties and cultural exchanges.
- Strengthens India's Act East Policy and Indo-Pacific cooperation.

UPSC Link:

India-Vietnam Relations | Act East Policy | South China Sea | Indo-Pacific Strategy

ECONOMY & BANKING

RBI Releases Financial Stability Assessment



- Banking sector remains resilient with strong capital adequacy.
- Gross NPA ratio declines to 2.3%.
- Digital payments rise strongly.
- Credit growth remains above 12%.
- Inflation expected to moderate in FY 2026-27.

SCIENCE & TECHNOLOGY

ISRO Successfully Tests Semi-Cryogenic Engine



- Hot test of Semi-Cryogenic Engine successfully completed at ISRO Propulsion Complex, Mahendragiri.
- Uses Liquid Oxygen (LOX) and Refined Kerosene.
- Higher efficiency and thrust.
- Supports future heavy-lift launch vehicles and reusable launch systems.

Prelims Facts

- Developed by ISRO Propulsion Complex, Mahendragiri.
- Semi-cryogenic engines are cheaper and more efficient than cryogenic engines.

ENVIRONMENT & ECOLOGY

India Launches National Mangrove Conservation Dashboard



- GIS-based platform for real-time monitoring.
- Supports MISHTI initiative and Blue Economy goals.
- India has 4,992 sq. km of mangrove cover (FSI 2025).
- Mangroves act as carbon sinks and protect coastlines.

POLITY & GOVERNANCE

Digital Personal Data Protection Rules Implementation Begins



UPSC Link:

Fundamental Rights | Right to Privacy | Digital Governance | DPDP Act, 2023

EDITORIAL INSIGHT

India's transition towards green manufacturing, resilient urban infrastructure and strategic technological advancement reflects a balanced development model. Initiatives such as the Green Steel Mission, Urban Cooling Action Plan and ISRO's propulsion technologies strengthen economic competitiveness while supporting climate resilience and sustainable growth. These reforms also reinforce India's commitment to achieving Net Zero emissions by 2070 and enhancing its role as a leading global innovation hub.

PLACES IN NEWS

1. Geneva, Switzerland

In News: WTO's 8th Trade Policy Review of India.



2. Hanoi, Vietnam

In News: India-Vietnam Comprehensive Strategic Partnership.



3. Mahendragiri, Tamil Nadu

In News: ISRO semi-cryogenic engine test.



PRELIMS QUICK FACTS

- **Green Steel Mission:** Decarbonisation of steel sector through clean energy and green hydrogen.
- **Urban Heat Island:** Urban areas hotter than surrounding rural areas due to human activities.
- **PLI Scheme:** Incentives linked to production to boost manufacturing and exports.
- **Semi-Cryogenic Engine:** Uses LOX and refined kerosene as propellants.
- **MISHTI:** Mangrove Initiative for Shoreline Habitats & Tangible Incomes.
- **DPDP Act, 2023:** India's data privacy law.
- **CBAM:** Carbon Border Adjustment Mechanism of the European Union.

MAP OF THE DAY

Hanoi, Vietnam



PRACTICE MCQ

Q. Consider the following statements regarding the Green Steel Mission:

1. It promotes production of steel using renewable energy and green hydrogen.
2. It supports India's Net Zero target.
3. It is implemented by the Ministry of Steel.

Which of the statements given above is/are correct?

- (A) 1 only (B) 1 and 2 only
(C) 2 and 3 only (D) 1, 2 and 3

(Answer Tomorrow)



PRABHA IAS IPS ACADEMY

QUALITY EDUCATION AT AFFORDABLE COST

UPSC • TNPS • GROUP • GROUP II • SI/PC • TET • BANKING • SSC

9952033119

www.prabhaonlineips.com

Chennai



SCAN TO VISIT
OUR WEBSITE