



July - 17

TNPSC BITS

- Senior Indian Police Service (IPS) officer Sonali Mishra has been appointed as the first woman Director General of the Railway Protection Force (RPF).
- Alyssa Carson (24) from the USA is aiming to be one of the first humans on Mars and has completed all NASA Space Camps and advanced space training programs.
- The Ministry of Culture launched a two-year celebration marking the 125th birth anniversary of Dr. Syama Prasad Mookerjee for his contributions to India's political, cultural, educational, and industrial development.
- The Centre announced three key appointments—Kavinder Gupta as Lieutenant Governor of Ladakh, Ashok Gajapathi Raju as Governor of Goa, and Ashim Kumar Ghosh as Governor of Haryana.
- Energy Storage Week (IESW), a premier international conference and exhibition, was held in New Delhi.
- Himachal Pradesh made a significant jump in the National Achievement Survey (NAS) 2025 of the Ministry of Education, rising from 21st position in 2021 to the top five nationally.

TAMIL NADU NEWS



Ungaludan Stalin program

Tamil Nadu Chief Minister M.K. Stalin has launched the Ungaludan Stalin programme in Chidambaram.

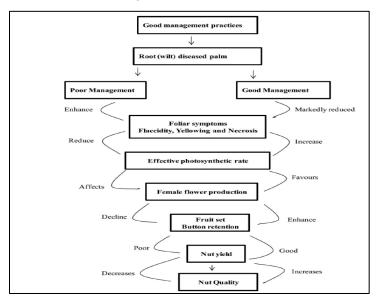




- This program will bring the applications to homes and get the issues resolved.
- ✤ A total of 10,000 camps would be organised as part of the programme.
- It aims to benefit those who are not in town, or are unavailable or unaware of other initiative camps.

Climate sensors to tackle coconut disease

- For the first time in Tamil Nadu, coconut farmers in Pollachi (Coimbatore district) have installed real-time climate monitoring systems to assess crop suitability amid rising Root wilt disease threats.
- This was developed by Bengaluru-based Phytec.
- These low-cost solar-powered sensors track temperature, humidity, rainfall, and solar radiation, aiming to guide future crop planning and diversification.
- Root wilt disease, caused by a phytoplasma and spread by vectors like whiteflies and leafhoppers, has severely impacted coconut trees in the region.
- ✤ Over 10 lakh trees across Anamalai, Pollachi North, and the South blocks are affected, with one lakh already removed.



NATIONAL NEWS

7 new farm products to e-NAM

 The Centre has added seven new agricultural products to the Electronic National Agriculture Market (eNAM) platform.





- They are: sugarcane, Marcha rice, Katarni rice, Jardalu mango, Shahi litchi, Magahi paan, and Banarasi paan.
- ✤ The total number of products on the eNAM platform has now increased to 238.
- The digital trading platform eNAM was launched in 2016 to promote transparent, quality-based, and tech-driven agri-trade in India.



New members to the Rajya Sabha



- President Droupadi Murmu has nominated four distinguished individuals to the Rajya Sabha under Article 80(3) of the Indian Constitution.
 - Ujjwal Nikam service in the field of law and social justice.
 - o Sadanandan Master Recognised for grassroots-level work in social service.
 - o Harsh Vardhan Shringla Former Foreign Secretary of India





- o Dr. Meenakshi Jain Scholarly contributions to Indian history and literature.
- The nominations were made by the President on the recommendation of the Council of Ministers under sub-section (a) of clause (1) of Article 80.
- It allows up to 12 nominations of individuals with special knowledge or practical experience in literature, science, art, or social service.
- The Rajya Sabha (Council of States) consists of up to 238 elected members at maximum.

INTERNATIONAL NEWS

India - EFTA trade deal

- Switzerland has ratified the India-European Free Trade Association (EFTA) Trade and Economic Partnership Agreement (TEPA), set to launch in October 2025.
- TEPA aims to reduce trade barriers, simplify customs, and open Indian markets to Swiss and EFTA exports.
- The EFTA bloc (Iceland, Liechtenstein, Norway, and Switzerland) will invest \$100 billion in India over 15 years.
- This investment is expected to create 1 million jobs in India, marking a major economic boost.
- Switzerland is currently the 12th-largest investor in India.

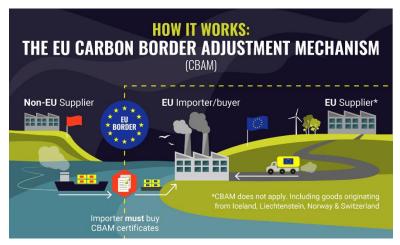






EU's Carbon Border Adjustment Mechanism

- The BRICS nations have strongly condemned the European Union's (EU) Carbon Border Adjustment Mechanisms (CBAMs) and are calling them very unfair and discriminatory.
- CBAMs are the carbon-based import taxes imposed by the EU on goods from countries with less stringent emissions norms.
- ✤ It aimed at preventing 'carbon leakage'.
- BRICS declared that such unilateral environmental trade restrictions violate the 1994 United Nations Framework Convention on Climate Change (UNFCCC) principles.
- The declaration was issued during the BRICS annual summit held in Brazil.
- BRICS also demanded that developed countries honour their UNFCCC commitments by providing at least US\$100 billion annually in climate finance, rising to US\$300 billion by 2035.
- Developing countries estimate that US\$1.3 trillion per year is needed for effective climate action.



✤ BRICS called for a doubling of adaptation finance by 2025.

SCIENCE AND TECHNOLOGY NEWS

STELLAR Model 2025

- ✤ The Central Electricity Authority (CEA) launched STELLAR.
- It was developed in collaboration with The Lantau Group (TLG) and supported by the Asian Development Bank (ADB).
- STELLAR means the state-of-the-art, totally indigenously developed Resource adequacy model.

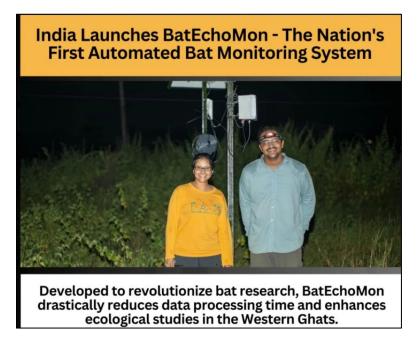




- ✤ It is India's first fully indigenous resource adequacy model.
- It is a next-gen software tool for the integrated planning of power generation, transmission, storage, and demand response.
- It is aimed at optimising the electricity generation, transmission, and storage planning across states.



BatEchoMon



- ✤ It is India's first automated bat monitoring, detection system.
- It has been successfully developed to detect and classify bat species using realtime acoustic analysis.
- It was developed by the Indian Institute for Human Settlements (IIHS), Bengaluru.

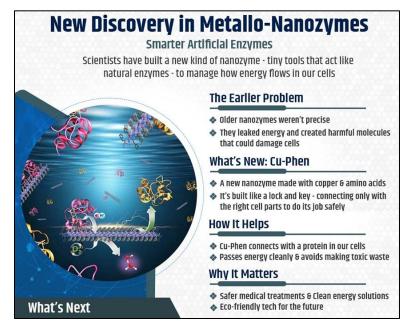




- It activates at sunset and uses a Raspberry Pi microprocessor to isolate and analyse bat calls.
- It employs the convolutional neural networks (CNN) to match call structures with known bat species.
- ✤ It is also the world's first integrated unit for real-time bat call recording and classification.

Cu-Phen

- CSIR-Central Leather Research Institute (CLRI), Chennai, have recently developed specialised Nano-sized particles called Cu-Phen.
- It mimics the function of natural enzymes in our bodies.
- The Scientists found that Metallo-nanozymes, or artificial biocatalysts, mimicking natural enzymes, that capable of controlling electron transfer.
- ✤ It is a crucial process for regulating cellular energy.
- This newly identified property of Metallo-nanozymes seamlessly integrates into biological systems, enabling sustainable energy production, medical inventions, and environmental solutions.



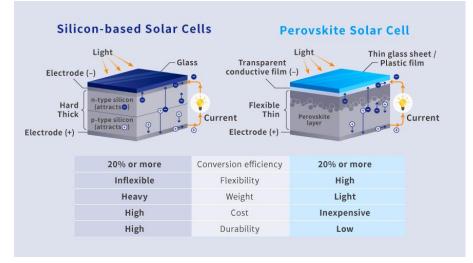
Recycle Toxic Perovskite Solar Cells

The Scientists have developed a green water-based method to recycle the toxic perovskite solar cells.





- It was recovering about 99% of the materials and retaining almost full efficiency even after five cycles.
- It was eliminating the need for toxic solvents like dimethylformamide.
- The process uses sodium acetate to extract lead safely, while sodium iodide and hypophosphorous acid help regenerate perovskite crystals.
- The Perovskite solar cells are a class of photovoltaic devices that use perovskitestructured compounds.
- ✤ It typically contains lead, as the light-harvesting active layer.
- It will enhance the solar energy efficiency and support India's push for greener energy.



ENVIRONMENT NEWS

Lotus flowers in Wular Lake







- Lotus flowers have reappeared in Wular Lake in Jammu & Kashmir after over three decades.
- Wular Lake is Asia's second-largest freshwater lake.
- ✤ It spread across Baramulla and Bandipora districts, covers 130 sq km and provides 60% of Kashmir Valley's fish production.
- ✤ It is one of 42 Indian wetlands listed under the Ramsar Convention.

Zographetus mathewi

- ✤ A new butterfly species named Zographetus Mathewi has been discovered in the forests of Kerala's Western Ghats.
- The species belongs to the skipper butterfly family (Hesperiidae).
- Zographetus Mathewi is the 15th known species in its genus and the fifth recorded from India.
- ✤ The butterfly was named in honour of Indian entomologist George Mathew.



REPORTS AND INDICES

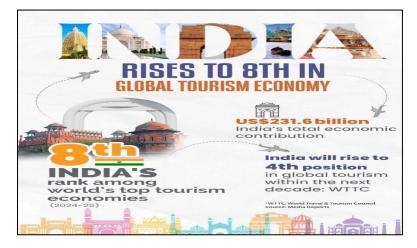
The world's largest tourism economies in 2025

- ✤ India has climbed to 8th place from 10th in the list of the world's largest tourism economies in 2025.
- India is contributing US\$231.6 billion, according to the World Travel & Tourism Council (WTTC).
- ✤ The United States leads the global tourism economy with a US\$2.36 trillion contribution.
- ♦ It is followed by China (US\$1.3 trillion) and Germany (US\$487.6 billion).





The global travel and tourism sector contributed US\$10.9 trillion to the world economy in 2023 and is forecast to reach US\$16 trillion by 2034.



Most polluted cities in 2025

- Byrnihat, on the Assam-Meghalaya border, recorded the highest air pollution levels in India in early 2025.
- This date is released by the Centre for Research on Energy and Clean Air (CREA) report.
- Delhi ranked second with 87 μg/m³, over twice the National Ambient Air Quality Standard (NAAQS) of 40 μg/m³.
- Other highly polluted cities included Hajipur, Ghaziabad, Gurugram, Sasaram, Patna, Talcher, Rourkela, and Rajgir.
- ✤ Aizawl (Mizoram) was ranked the cleanest city during the same period.







SPORTS NEWS

Wimbledon 2025

- Polish tennis star Iga Swiatek won her first Wimbledon against American Amanda Anisimova, marking a historic victory.
- Italian world No. 1 Jannik Sinner has claimed his first Wimbledon men's title by defeating Spain's Carlos Alcaraz.
- Also, Jannik Sinner became the first Italian man to win Wimbledon.
- Martina Navratilova of the USA holds the record for most women's singles wins at Wimbledon with 9 titles to her name.



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