

May - 04

TNPSC BITS

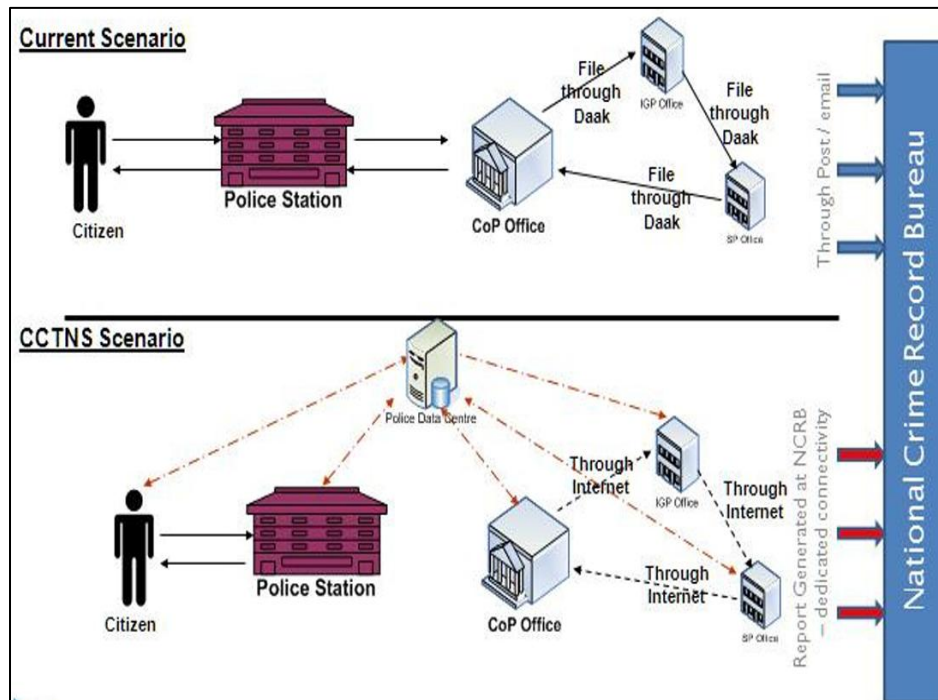
- ❖ The National Mission for Clean Ganga (NMCG) has approved the annual master plan under the River Cities Alliance (RCA) to chart a roadmap of initiatives to be undertaken across the year.
- ❖ Bihar has set two Guinness World Records for the largest Madhubani painting (201.17sqft) and singing bowl ensemble by 375 Buddhist monks at Bodh Gaya ahead of Khelo India Youth Games 2025.
- ❖ The Ministry of New and Renewable Energy (MNRE) has launched the Green Hydrogen Certification Scheme of India (GHCI) to create a robust framework for certifying green hydrogen production and ensuring transparency, traceability, and market credibility.
- ❖ Under the National Quantum Mission (NQM), QNu Labs has launched the world's first and very unique platform, QShield that enables the seamless cryptography management across any environment — cloud, on-premises, or hybrid.
- ❖ Bengaluru-based QpiAI has launched India's first full-stack quantum computer, QpiAI-Indus.
- ❖ The Centre has approved an increase in the Fair and Remunerative Price (FRP) of sugarcane to ₹355 per quintal for the 2025-26 sugar season, up from ₹340 per quintal in the previous season.
- ❖ The Scientists from the Bose Institute's Experimental High Energy Physics (HEP) group have been awarded the highly prestigious 2025 Breakthrough Prize in Fundamental Physics for their contribution to the ALICE collaboration at CERN's Large Hadron Collider (LHC).
- ❖ A new global initiative called 'Revive Our Ocean' was launched to scale up effective, community-led marine protected areas (MPAs) through local action.
- ❖ Uganda has declared an end to the Ebola Sudan Virus Disease (SVD) outbreak after completing a 42-day mandatory countdown without any of new confirmed cases reported.

TAMIL NADU NEWS

Madras High Court on CCTNS 2.0

- ❖ The Madras High Court has directed Tamil Nadu Police Department to Implement Crime and Criminal Tracking Network & Systems (CCTNS) 2.0 within the four months.

- ❖ The Supreme Court's e-committee had initiated a national-level Inter-operable Criminal Justice System (ICJS) platform.
- ❖ It interconnects the CCTNS portal used by State police departments, the Case Information System (CIS) portal used by courts, and the e-prison, e-forensic and e-prosecution portals.
- ❖ The aim of ICJS was to ensure that the High Courts as well as trial courts could easily access the First Information Reports (FIRs), case diaries, chargesheets, and such other documents uploaded in PDF format.
- ❖ The National Crime Records Bureau had been asked to work along with National Informatics Centre to implement ICJS.



NATIONAL NEWS

Guidelines for setting up bio-resource Centres

- ❖ Centre has launched the guidelines for setting up of bio-input resource centres (BRC) under the National Mission on Natural Farming (NMNF).
- ❖ Financial assistance of Rs 1 lakh will be provided as the support to set up each centre.
- ❖ The BRC entrepreneur group / entity must be practising natural farming or have such members with prior experience of natural farming.

- ❖ The bio-inputs should be prepared as per requirements of the local farmers, local land-use patterns, soil types and locally practiced crop systems.



Water resources funds 2025

Fund Utilization		CSS		CS	
		Last FY 2023-2024	Current FY 2024-2025	Last FY 2023-2024	Current FY 2024-2025
8	Funds released by the State Govt. to the SNA account upto the month	4,822.25	5,992.46		
9	SNA/CNA balance at the end of the month	2,404.98	1,347.38	1,293.50	608.63
10	Scheme fund utilization (Actual Expenditure) from SNA/SNA SPARSH/CNA/TSA/Direct PAO during the Month	-849.06	3,369.96	1,228.73	2,102.47
11	Cumulative scheme fund utilization (Actual Expenditure) from SNA/SNA SPARSH/CNA/TSA/Direct PAO upto the Month	10,059.15	15,804.73	4,978.88	5,376.73
11a	Of which estimated Central share	5,964.79	13,216.34	4,978.88	5,376.73
12	% Utilization of Central share against BE/RE (11a/1)	49.45 %	98.39 %	95.07 %	81.79 %

- ❖ The Jal Shakti ministry has utilised nearly the entire Central allocation for water resources schemes in the last fiscal, with 98.39 per cent of funds spent by the end of March.
- ❖ The Centrally Sponsored Schemes (CSS) are the programmes funded mainly by the Central government but implemented by state governments, often requiring a matching contribution from the states.
- ❖ The Central Sector schemes are fully funded and implemented by the Central government without any financial participation from the states.
- ❖ As against a Central budget estimate of Rs 13,431.48 crore for these Centrally Sponsored Schemes, the actual expenditure stood at Rs 13,216.34 crore.

- ❖ In comparison, the Central Sector schemes recorded a slightly lower utilisation rate at 81.79 per cent, with Rs 5,376.73 crore spent out of the Rs 6,573.73 crore allocated.
- ❖ In FY 2023-24, only 49.45 per cent of allocation for Centrally Sponsored Schemes was utilised.

INTERNATIONAL NEWS

AIM4NatuRe initiative



- ❖ The Food and Agriculture Organization (FAO) has very recently launched the Accelerating Innovative Monitoring for the Nature Restoration (AIM4NatuRe) initiative.
- ❖ This initiative is funded by GBP 7 million from the United Kingdom.
- ❖ It aims to enhance the monitoring and reporting of global ecosystem restoration efforts.
- ❖ It will support the achievements of Target 2 of the Kunming-Montreal Global Biodiversity Framework — restoring at least 30% of the degraded ecosystems by 2030.

ECONOMY NEWS

Key Surveys for Monetary Policy

- ❖ The Reserve Bank launched three key surveys, including inflation expectations, to gather useful inputs for monetary policy decisions.

- ❖ The Inflation Expectations Survey of Households (IESH) aims at capturing the subjective assessments on the price movements and inflation, based on their individual consumption baskets, across 19 cities.
- ❖ The Urban Consumer Confidence Survey (UCCS) seeks the qualitative responses from households, regarding their sentiments on the general economic situation, employment scenario, price level, and households' income and spending.
- ❖ The Rural Consumer Confidence Survey (RCCS) will collect current perceptions and one-year-ahead expectations of households.
- ❖ It collects data on general economic situation, employment scenario, overall price situation, own income and spending from the households residing in the rural and semi-urban areas across 31 states/ Union Territories.



SCIENCE AND TECHNOLOGY NEWS

Project Kuiper Broadband Internet

- ❖ The first 27 satellites for Amazon's Kuiper broadband internet constellation were launched into space.
- ❖ The satellites are the first of 3,236 that the Amazon plans to send into low-Earth orbit for Project Kuiper.
- ❖ It will deliver the broadband internet to underserved, rural, and remote areas globally.

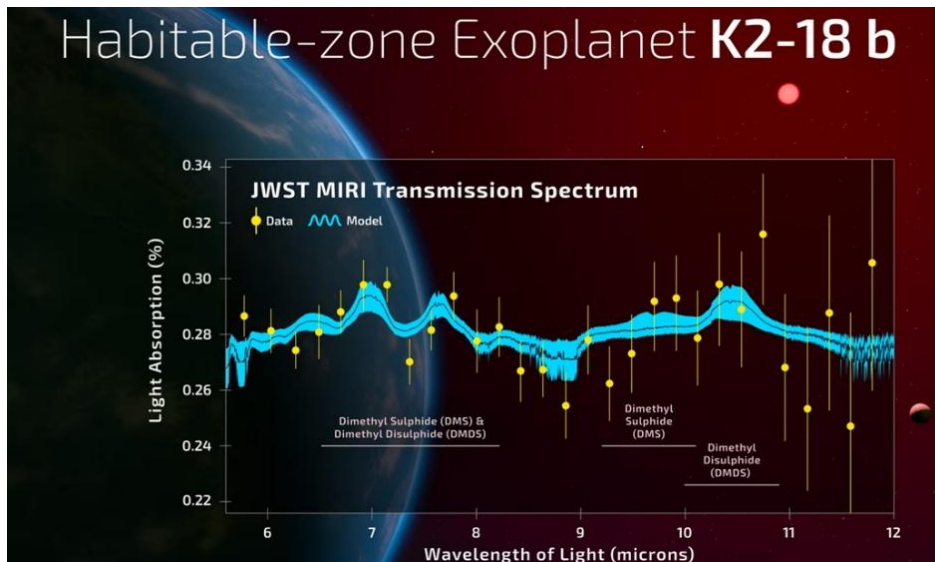
- ❖ More than 7,000 Starlink satellites are still in orbit, some 550 kilometres above Earth.



amazon

- 📡 3,200+ satellites to provide global broadband.
- 🌐 Launch in 2025, aiming for wide coverage.
- 💰 \$10B investment, with affordable user terminals..

Possible Life on Exoplanet K2-18b



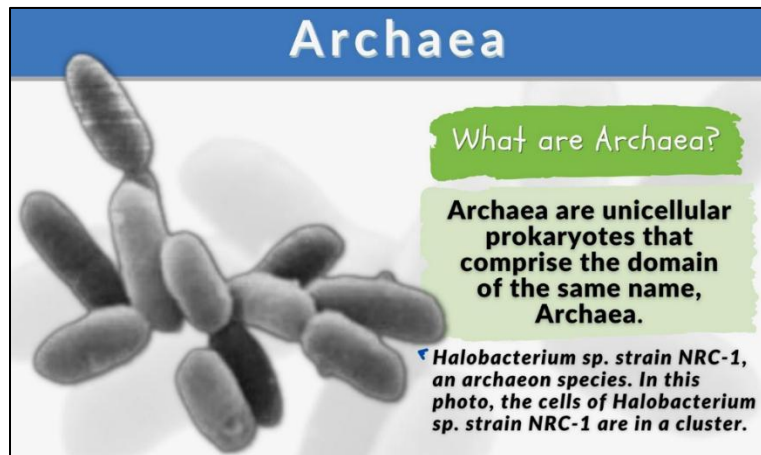
- ❖ Astronomers have detected a possible biosignature, or signs of past or present life linked to biological activity, on an exoplanet named K2-18b.
- ❖ The team has detected the presence of dimethyl sulfide or DMS, and potentially dimethyl disulfide or DMDS within the atmosphere of K2-18b.

- ❖ On Earth, both the molecules are only produced by microbial life, typically marine phytoplankton.
- ❖ K2-18b, located 124 light-years from Earth, could be a Hycean world.
- ❖ This potentially habitable planet entirely covered in liquid water with a hydrogen-rich atmosphere.

ENVIRONMENT NEWS

New Species of Archaea

- ❖ The Microbiologists have discovered a previously unknown methane-producing archaea species in the human gut.
- ❖ They named it *Methanobrevibacter intestini* sp. nov., strain WWM1085.
- ❖ It survives only in oxygen-free environments and produces methane.
- ❖ The team also isolated a new variant of *Methanobrevibacter smithii*, called GRAZ-2.
- ❖ Archaea are one of the three recognized domains of living organisms, along with bacteria and eukaryotes.
- ❖ One group of archaea, known as methanogens, produces methane by breaking down hydrogen and carbon dioxide.
- ❖ These microbes are vital to metabolic processes in animals – including humans.

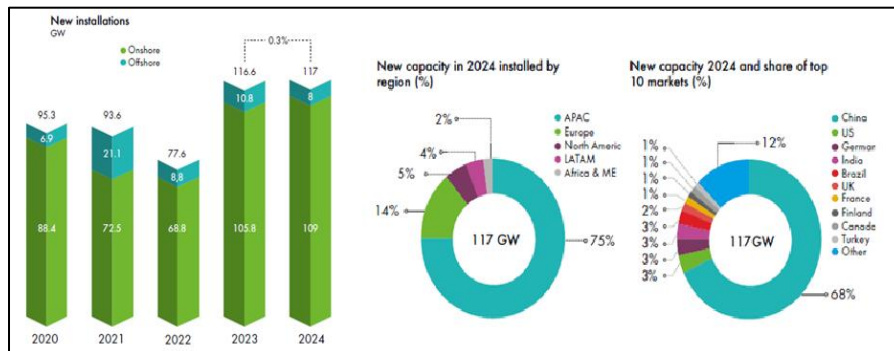


REPORTS AND INDICES

Global Wind Report 2024

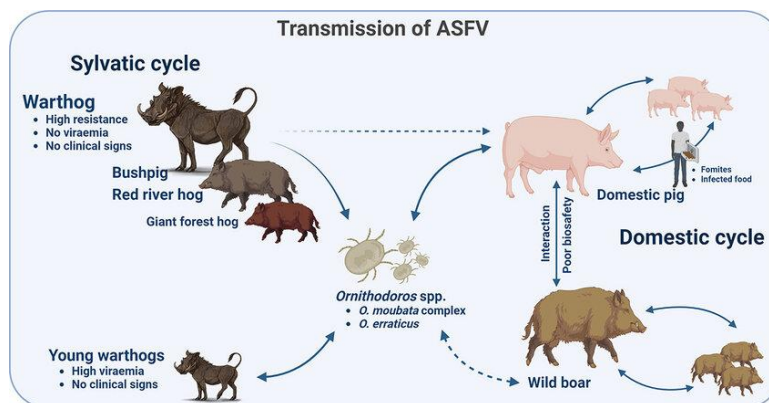
- ❖ This new assessment was released by the Global Wind Energy Council (GWEC).

- ❖ The current growth projections show the industry will deliver only 77 per cent of the installed capacity required by 2030 to maintain a viable pathway to net-zero emissions.
- ❖ In 2024 117 gigawatts of new wind capacity were installed worldwide - a marginal increase from the 116.6 GW added in 2023.
- ❖ Total global wind power capacity now stands at an impressive 1,136 GW.
- ❖ The United States, Brazil, India and Germany rounded out the top five markets.
- ❖ In 2024, China led the world in new wind installations, contributing of 79,824 megawatts (MW).
- ❖ Uzbekistan, Egypt and Saudi Arabia emerged as the new leaders in wind energy adoption.
- ❖ 2024 marked a breakthrough year for the offshore wind, with 56.3 GW generated globally.



STATES' NEWS

African Swine Fever in Mizoram



- ❖ Mass of pigs have died in Mizoram due to the resurgence of the African Swine Fever (ASF) outbreak this year since March 20.




- ❖ ASF is a highly contagious and fatal animal disease that infects and leads to an acute form of haemorrhagic fever in domestic and wild pigs.
- ❖ Historically, outbreaks have been reported in Africa and parts of Europe, South America, and the Caribbean.
- ❖ However, since 2007, the disease has been reported in multiple countries across Africa, Asia and Europe, in both domestic and wild pigs.
- ❖ The mortality is close to 95% - 100% and since the fever has no cure, the only way to stop its spread is by culling the animals.

IMPORTANT DAYS

May Day 2025 - May 01

THE TAMILNADU WORKERS WHO HOISTED THE MAY DAY RED FLAG FOR THE FIRST TIME IN INDIA

 In the year 1923, the first ever May day red flag hoisting by workers was carried out in Chennai. **Comrade Singaravelar**, one of India's pioneering communist leaders presided this event.

- ❖ It is celebration of working-class people, recognising their contribution to society and promoting workers' rights and opportunities.
- ❖ The first Labour Day parade was organised in New York City in 1882 by the Central Labour Union, paving the way for global recognition of workers' rights.
- ❖ The first Labour Day in India was held on May 1, 1923, in Chennai under the leadership of the Labour Kisan Party of Hindustan.
- ❖ It was led by Malayapuram Singaravelu.

Maharashtra and Gujrat Day 2025 - May 01

- ❖ On this day in 1960, the bilingual Bombay State was divided, creating the separate states of Maharashtra and Gujarat.
- ❖ The demand for a separate Marathi-speaking state gained momentum in the 1950s through the Sanyukta Maharashtra Movement.
- ❖ The Mahagujarat Movement, dating back to 1928, also gained momentum in the 1950s.

- ❖ Its supporters were calling for a state that unified all Gujarati-speaking areas, including parts of Saurashtra and Kutch.



World Tuna Day 2025 – May 02



- ❖ It was officially established by the United Nations in 2016, following a proposal by the Pacific Island nations.
- ❖ This day aims to promoting the conservation of tuna stocks and ensuring that future generations can continue to benefit from this marine resource.
- ❖ Tuna are migratory species found in both tropical and temperate oceans.
- ❖ Tuna accounts only for 20% of the value of all marine fisheries and 8% of globally traded seafood.

MISCELLANEOUS NEWS

2025 Green Airports Recognition

- ❖ Twelve airports from across the Asia-Pacific and the Middle East regions were honoured for excellence in sustainable energy management
- ❖ Three Indian airports also got place in the list.

- ❖ The Cochin International Airport Limited (CIAL) has received the award for terrain based solar power plant at Payyannur in Kannur.
- ❖ Hubballi Airport in Karnataka has been awarded the Platinum Recognition.
- ❖ The Kempegowda International Airport, Bengaluru won silver in Between 15-38 million passengers per annum category.

