



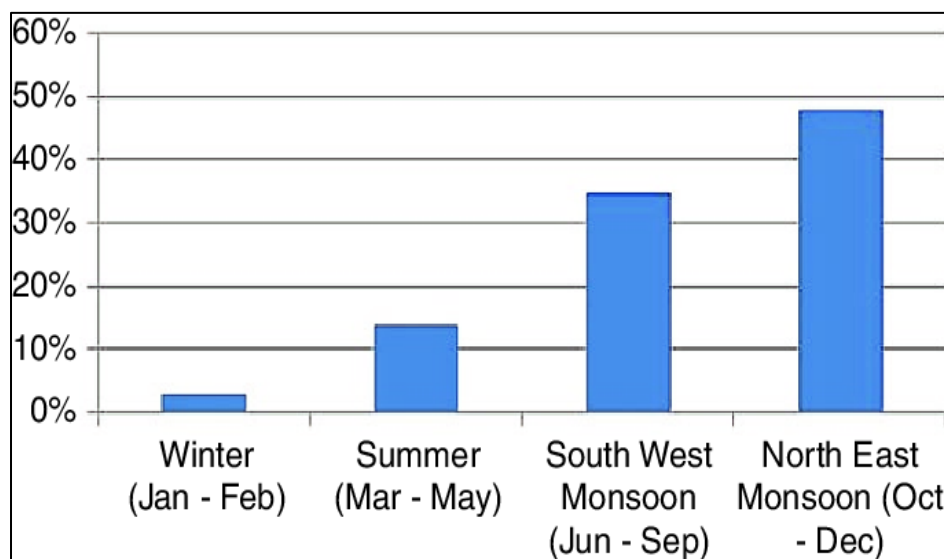
November - 03

TNPSC BITS

- ❖ India will establish the first National Aviation Safety Centre in 2025 to train the aircraft accident investigators and aviation professionals following global best practices.
- ❖ Ford Motor Company will invest Rs 3,250 crore to restart manufacturing at its Chennai plant after four years, setting up a next-generation powertrain facility for global markets.
- ❖ Ilamparathi A. R. from Chennai became India's 90th chess Grandmaster at the Bijeljina Open in Bosnia and Herzegovina.

TAMIL NADU NEWS

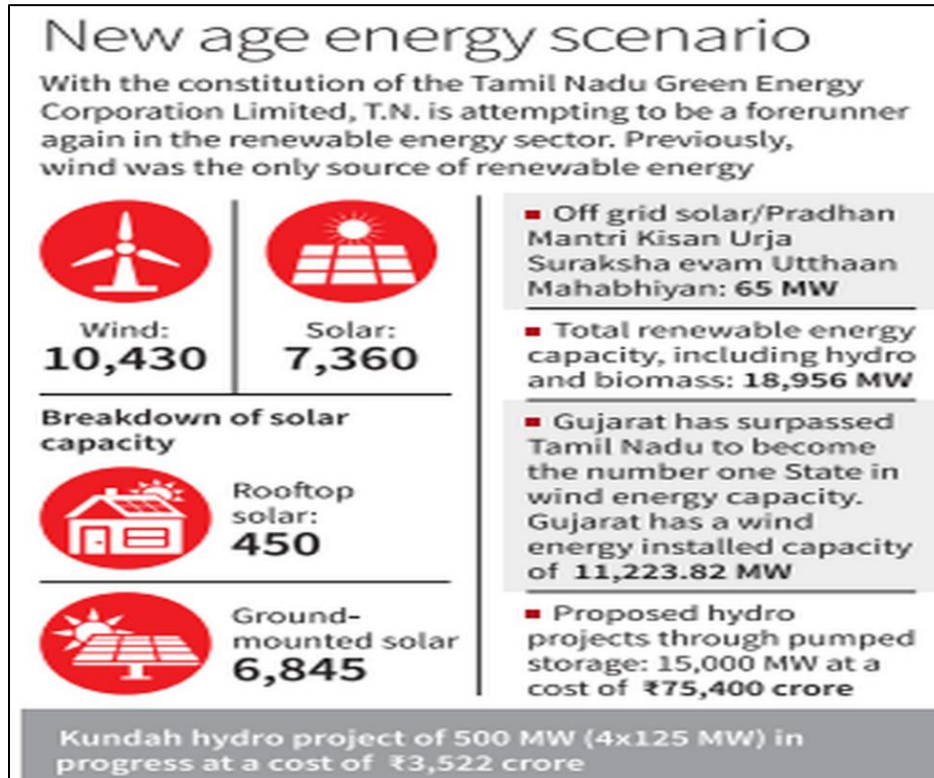
Rainfall Across Tamil Nadu 2025



- ❖ Tamil Nadu recorded 23.3 cm of rainfall in October, which is 36% above the normal level of 17.1 cm.
- ❖ Chennai's Nungambakkam weather station registered 32.4 cm of rainfall, the second-highest October total of the decade.
- ❖ In October 2024, the State received 21.4 cm of rainfall, which was 25% above average.
- ❖ The Northeast (NE) monsoon remained active throughout most of October, bringing rainfall almost daily.

- ❖ The State has already received nearly half of its NE monsoon quota during October.

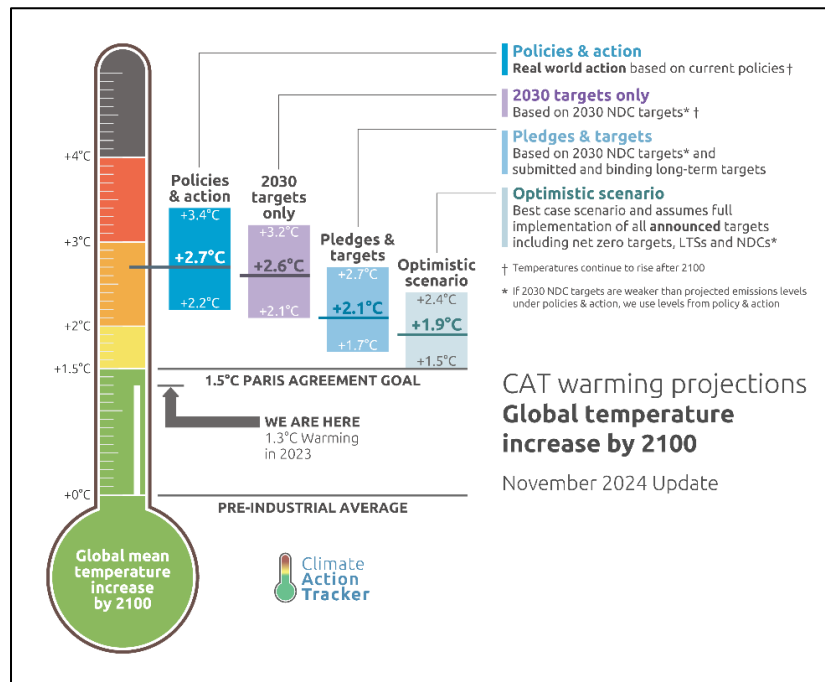
Renewable Energy Capacity and Projects



- ❖ Since 2021, Tamil Nadu's wind energy sector has attracted over ₹5,700 crore and added 816 megawatts of capacity.
- ❖ An additional ₹4,200 crore is planned for 600 megawatts of new wind projects.
- ❖ The State's solar energy sector has received over ₹23,500 crore for 6,736 megawatts of projects.
- ❖ Solar projects worth ₹39,000 crore (5,700 megawatts) are under advanced approval stages.
- ❖ Tamil Nadu ranks fourth nationally in total installed renewable capacity with more than 25,500 megawatts.
- ❖ Installed wind capacity is 11,500 megawatts, making the State second in India.
- ❖ The State aims to source 50 percent of its power requirements from renewable sources by 2030.
- ❖ Tamil Nadu targets a 70 percent reduction in carbon emissions and Net Zero by 2070 in line with national commitments.

- ❖ Projected power demand is expected to rise from 20,700 megawatts to 35,500 megawatts by 2034–35.
- ❖ A 500 megawatt Pumped Storage Project is planned at Kundah.
- ❖ Pre-project implementation is ongoing for 1,100 megawatts at Vellimalai and 2,400 megawatts at Aliyar.
- ❖ Tamil Nadu's coastline has over 35 gigawatts of offshore wind potential with excellent wind speeds and high-capacity factors.
- ❖ The National Institute of Wind Energy and the India–Denmark Green Strategic Partnership are preparing for India's first offshore wind project off the Tamil Nadu coast.

Climate Action Tracker



- ❖ The Government of Tamil Nadu launched the Climate Action Tracker and Climate Decarbonisation Pathways for selected districts.
- ❖ Districts including Ramanathapuram, Virudhunagar, Coimbatore, and Nilgiris have been analysed with support from the Vasudha Foundation.
- ❖ The initiative aims to guide the State toward achieving net zero emissions through district-level action plans.
- ❖ Tamil Nadu has added nearly 10 gigawatts (GW) of renewable energy in the last five years.

- ❖ About 60 percent of the State's total installed power capacity now comes from renewable sources.
- ❖ Projects include electrifying 500 city buses in Coimbatore and replacing five lakh streetlights with light-emitting diode (LED) lights by 2030.

NATIONAL NEWS

Forest Dweller Relocation Policy



- ❖ The Ministry of Tribal Affairs and the Environment Ministry will implement a national framework to set standards, timelines, and accountability for relocations.
- ❖ The relocation of forest-dwelling communities from tiger reserves must be voluntary, exceptional, and based on evidence.
- ❖ A national database will record and track all relocations, compensation, and post-relocation status.
- ❖ Annual independent audits will check compliance with the Forest Rights Act, 2006, and the Wildlife Protection Act, 1972.
- ❖ Villages can continue to live in forests while exercising their Individual Forest Rights or Community Forest Rights.

- ❖ Consent for relocation must be free, informed, given in the local language, and verified by independent civil society organisations.

International Solar Alliance Assembly 2025

- ❖ The Eighth Session of the International Solar Alliance (ISA) Assembly was held in New Delhi.
- ❖ India ranks fourth globally in total renewable energy installed capacity, third in solar power generation, and fourth in wind power.
- ❖ India's installed solar energy capacity has crossed 120 gigawatts.
- ❖ India aims to achieve 500 gigawatts of non-fossil fuel capacity by 2030.
- ❖ ISA initiatives include the Global Solar Facility, Small Island Developing States Platform, and Africa's Solar Mini-Grid Programme.



INTERNATIONAL NEWS

NAM Ministerial Meeting 2025

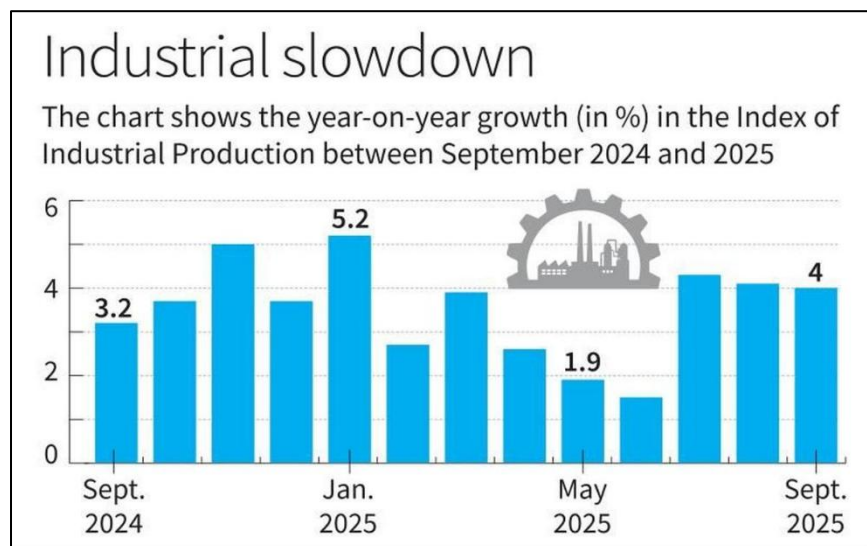
- ❖ India participated in the 19th Mid-Term Ministerial Meeting of the Non-Aligned Movement (NAM) held in Kampala, Uganda.
- ❖ Uganda holds the NAM chair for 2024-26 and hosted member states for discussions on reinforcing unity among developing nations.
- ❖ The Meeting aimed to reinforce unity among developing nations and promote cooperation for shared global affluence.

- ❖ The theme of the event was “Deepening Cooperation for Shared Global Affluence.”
- ❖ During the ministerial, India engaged with NAM member states to enhance diplomatic and developmental cooperation with developing nations.
- ❖ India, as a founding member of NAM, reaffirmed its commitment to the principles and values of the movement.



ECONOMY NEWS

Industrial Production Growth in September 2025



- ❖ The Index of Industrial Production (IIP) grew by 4% in September 2025, marking a three-month low.

- ❖ Industrial growth for April to September 2025 was 3%, the slowest in at least five years.
- ❖ The mining sector contracted by 0.45% in September 2025, down from 6.6% in August.
- ❖ The consumer non-durables sector fell by 2.9%, while consumer durables grew by 10.2% in September 2025.
- ❖ Manufacturing grew by 4.8%, and the primary goods sector slowed to 1.4% in September 2025.

SCIENCE AND TECHNOLOGY NEWS

Vertical Landing Technology



- ❖ The Researchers at the IIT - Madras have achieved a breakthrough in soft landing technology for vertical take-off aircraft and unmanned aerial vehicles (UAVs).
- ❖ They combined a real-time hybrid rocket thruster with a virtual simulation to attain the required landing velocity.
- ❖ A touchdown velocity of 0.66 metres per second (m/s) was achieved during testing.

- ❖ Hybrid rocket motors were found to be safer and less complex than liquid engines for vertical landing platforms.
- ❖ The team also developed a hybrid rocket fuel using compressed air as the oxidiser, enhancing safety and efficiency.

Calibre Centre

- ❖ CALIBRE Centre will be established by the National Centre for Biological Sciences and the International Centre for Theoretical Sciences, both part of the Tata Institute of Fundamental Research.
- ❖ CALIBRE stands for Centre for Artificial Learning and Intelligence for Biological Research and Education.
- ❖ The centre aims to integrate artificial intelligence in biological research, education, and innovation.
- ❖ It will provide infrastructure to develop advanced artificial intelligence tools for basic, applied, and translational biology research.
- ❖ Calibre will offer education and training to young Indian researchers to apply artificial intelligence in biological studies.
- ❖ The centre will use neuromorphic, brain-inspired computing approaches to improve artificial intelligence technology.

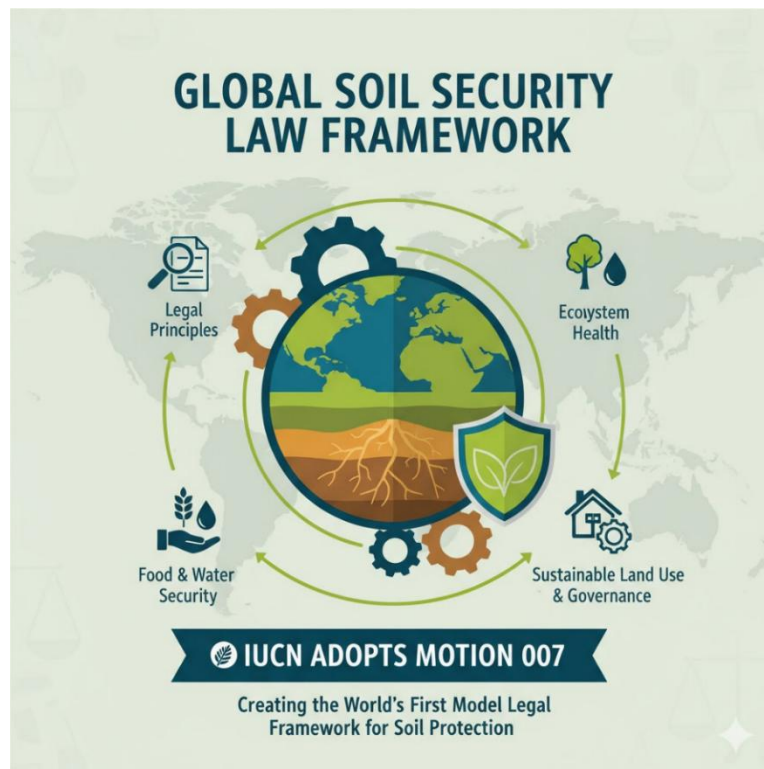


ENVIRONMENT NEWS

Global Soil Security Law Framework

- ❖ The IUCN has adopted Motion 007 on Soil Security Law, creating the world's first model legal framework for soil protection.

- ❖ The resolution will guide over 90 countries in developing national laws focused on soil conservation, regenerative agriculture, and legal accountability for soil health.
- ❖ The motion was co-sponsored by international soil conservation organizations and think tanks.
- ❖ This marks the first formal recognition by a global conservation body that soil security is essential for food, water, biodiversity, and climate resilience.
- ❖ Following adoption, the IUCN will form a working group to develop concepts for an international convention or global legal instrument on soil security.
- ❖ The proposed Model Soil Security Law will help countries integrate soil protection into agriculture, climate policies, and ecosystem restoration programs.
- ❖ Since January 2025, consultations have been held with multiple countries to promote awareness and comprehensive soil protection measures.



REPORTS AND INDICES

CSE Reports on food systems 2025

- ❖ The Centre for Science and Environment (CSE) has released a report on “sustainable food systems” recently.

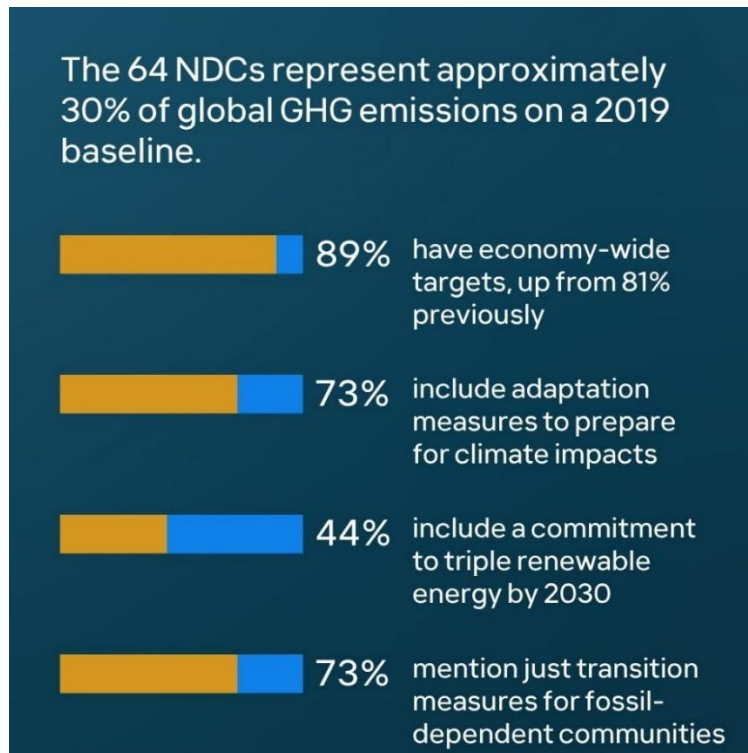
- ❖ In 2018, about 11 per cent of global greenhouse gas emissions came from agriculture, livestock, and pesticide use.
- ❖ India's rain-fed rice yields may decline by 20 per cent by 2050 and by 47 per cent by 2080 without adaptation measures.
- ❖ Irrigated rice yields may drop by 3.5 per cent by 2050 and by 5 per cent by 2080 under the same conditions.
- ❖ About 90 per cent of India's 573 rural districts face climate risks, including pest outbreaks, disease, and erratic monsoons, causing water stress.
- ❖ The CSE report recommends low-input agriculture, multiple-option cropping, nutrition-rich and climate-resilient crops, and aligning food production with consumer choices.
- ❖ The second report named "Missing from the Plate: Edible Plants in Wetlands Lose Favour" was also released.
- ❖ It documents edible wetland plants and their potential contribution to food security and climate resilience.



NDC Report 2025

- ❖ The 2025 NDC (Nationally Determined Contributions) Synthesis Report by the UNFCCC (United Nations Framework Convention on Climate Change) assesses climate action ahead of COP30 in Belem.
- ❖ Collective global emissions are declining, but the pace is insufficient to meet the Paris Agreement target of limiting warming to 1.5°C.
- ❖ New NDCs from 64 countries, covering about 30% of global emissions, aim to reduce emissions up to 17% below 2019 levels by 2035.
- ❖ Nearly 9 in 10 countries now have economy-wide emission targets, and 97% have national legal or policy frameworks supporting climate implementation.

- ❖ Adaptation measures are included in 73% of NDCs, while 94% reference measures to address loss and damage from climate impacts.



SPORTS NEWS

Women's Cricket World Cup 2025



- ❖ India beat South Africa and win claiming their first-ever ICC Women's Cricket World Cup.
- ❖ 36year old Harmanpreet Kaur is the oldest captain to win the Women's World Cup.

- ❖ Deepti Sharma became the First cricketer to score a fifty and bag five wickets in a World Cup knockout game both Men's and Women's.
- ❖ Australia won 7CWC titles since 1978, and followed by England (4 times).

South Asian Senior Athletics Championships 2025

SR	COUNTRY	GOLD	SILVER	BRONZE	TOTAL
1.	 INDIA	20	20	18	58
2.	 SRI LANKA	16	14	10	40
3.	 NEPAL	0	2	4	6
4.	 BANGLADESH	0	0	3	3
5.	 MALDIVES	0	0	1	1

- ❖ The 4th South Asian Athletics Federation Senior Athletics Championships 2025 was held at Morabadi Football Stadium in Ranchi, Jharkhand.
- ❖ India finished first in the overall medal tally with 58 medals, including 20 gold, 20 silvers, and 18 bronze.
- ❖ Sri Lanka finished second with 40 medals, including 16 gold, 14 silvers, and 10 bronze.

MISCELLANEOUS NEWS

Swasth Nari Campaign - Guinness Records

- ❖ India made three Guinness World Records under the “Swasth Nari, Sashakt Parivar Abhiyaan,” Ministry of Health and Family Welfare.
- ❖ The records include the highest number of people registering for a healthcare platform in one month, with more than 3.21 crore registrations.
- ❖ The second record was for the most people signing up for breast cancer screening online in a single week, with over 9.94 lakh participants.
- ❖ The third record was for the most people signing up for vital signs screening online at the state level within a week, crossing 1.25 lakh participants.

- ❖ The campaign ran from September 17 to October 2 to improving the health and nutrition of women, adolescent girls, and children

