



August - 15

### TNPSC BITS

- ❖ The National Commission for Women (NCW) has inaugurated the Digital Shakti Center in New Delhi to address the rising cybercrimes against women.
- ❖ Bharat Heavy Electricals Limited (BHEL) has received the first ever order for the demonstration of methanol firing in a Gas Turbine at the 350 MW Kayamkulam Combined Cycle Power Plant (CCPP) in Kerala.
- ❖ The West Bengal government and UNICEF have teamed up to encourage fathers to play an active role in promoting breastfeeding among new mothers.
- ❖ The Odisha government has introduced India's first round-the-clock grain ATM, also known as the 'rice ATM,' to revolutionise the Public Distribution System (PDS) for ration cardholders.

## **TAMIL NADU**

# Public EV charging stations - 2023



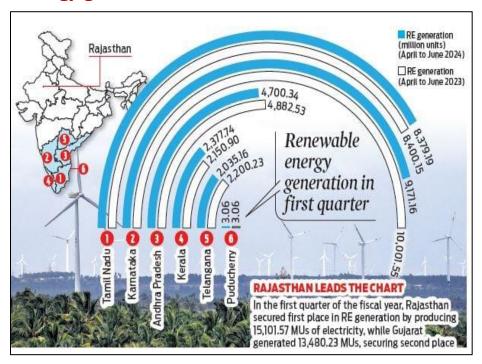
❖ Public electric vehicle charging stations in Tamil Nadu consumed 1.727 million units (MU) of electricity in the first two months of financial year 2024-25.





- ❖ The overall electricity consumption by public charging stations across India was 113.58 MU in the first two months of FY2024-25.
- ❖ In Tamil Nadu, 163 public charging stations consumed 1.032MU of electricity in April 2024, while 154 consumed 0.695 MU in May 2024.
- ❖ The major regions in Tamil Nadu with public charging stations included Coimbatore, Villupuram, Tirunelveli, Chennai North and Vellore.
- ❖ In 2023-24, the public charging stations in Tamil Nadu consumed 13.383 MU of electricity.
- ❖ In April 2023 and May 2023, the consumption was 1.438 MU and 1.422 MU respectively.
- ❖ Around 40% of the EV four-wheelers and close to 70% of the EV two-wheelers sold in the country are made in Tamil Nadu.
- ❖ Delhi (54.43 MU), Maharashtra (28.64 MU), Gujarat (8.78MU) were the top states in terms of electricity consumption by public charging stations.

## Renewable energy generation in Tamilnadu 2024



- ❖ Tamil Nadu has continued to rank second in renewable energy generation among southern states during the first quarter of the current financial year for the second year in a row.
- ❖ The state produced 8,379.19 million Units (MUs) of renewable energy.
- ❖ This is bit less than 8,400.15 MUs it generated during the same period last year.





- ❖ Karnataka took the top spot by generating 9,171.16 MUs despite recording a marginal dip from 10,001.55 MUs it generated last year.
- ❖ Tamil Nadu led in wind energy generation, producing 4,114.02 MUs, while Karnataka generated 3,095.93 MUs.

## **NATIONAL**

## Kasturi Cotton Bharat program



- ❖ This Ministry of Textiles' programme is a pioneering effort in the traceability, certification and branding of Indian cotton.
- ❖ It is operational at the national level and its promotion is being made at national and international platform.
- ❖ India is contributing to 25% of global production.

### **NIPCCD's Executive Council**

- ❖ The centre has reconstituted the Executive Council and General Body of the National Institute of Public Cooperation and Child Development (NIPCCD) after more than five decades.
- ❖ NIPCCD, an autonomous organization under the Ministry of Women and Child Development.
- ❖ It was initially established in 1966 under the Societies Registration Act XXI of 1860.



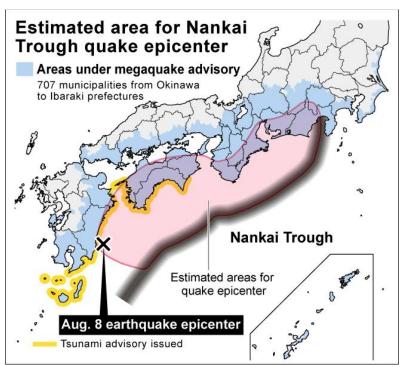


- ❖ The reconstitution reduces the size of the General Body from 94 to 22 members and the Executive Council from 21 to 13 members.
- ❖ The General Body is responsible for formulating the overall policies, while the Executive Council manages the administrative affairs of the institute.



#### INTERNATIONAL

# Megaquake advisory



❖ After a 7.1-magnitude earthquake shook the southern Japan, the country's meteorological agency issued its first-ever "megaquake advisory".

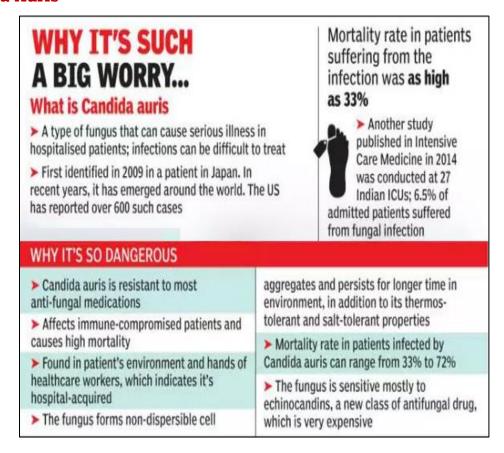




- ❖ The warning said the likelihood of strong shaking and large tsunamis is higher than normal on the Nankai Trough.
- ❖ Nankai Trough is a 900 km long subduction zone along Japan's southwest Pacific coast.
- ❖ The trough has produced large earthquakes roughly every 100 to 150 years.
- ❖ These tremors usually come in pairs, with the second often rupturing in the subsequent two years.
- ❖ The most recent "twin" earthquakes took place in 1944 and 1946.
- ❖ This advisory by the Japan's meteorological agency was just a warning not a prediction.

#### SCIENCE AND TECHNOLOGY

#### Candida Auris



- ❖ Candida auris, a formidable yeast infection, has been escalating its presence across the United States.
- ❖ This emerging fungus was first identified in 2009 and first detected in the US in 2016.





❖ It poses a significant global health threat due to its severe impact on hospitalized patients and its resistance to multiple antifungal treatments.

#### **ENVIRONMENT**

# **Unprecedented Glacier Retreat**

- \* Recent glacier retreat across the Andes is unprecedented in the history of human civilization.
- ❖ Scientists carbon-dated bedrock that had been recently exposed by the retreated glaciers by measuring beryllium-10 and carbon-14 nuclide levels and found that concentrations were nearly zero.
- ❖ These glaciers are smaller than they've been since the last interglacial period, which ended about 115,000 years ago.
- ❖ The rock hadn't been exposed during the Holocene Era, which dates back 11,700 years.



## **New Peacock sanctuaries 2024**

- ❖ The Central Government has declared Adichunchanagiri in Karnataka and Choolannuar in Kerala as Peacock Sanctuary.
- ❖ The Sanctuaries offer a safe space where these birds can live and thrive without human disturbance.



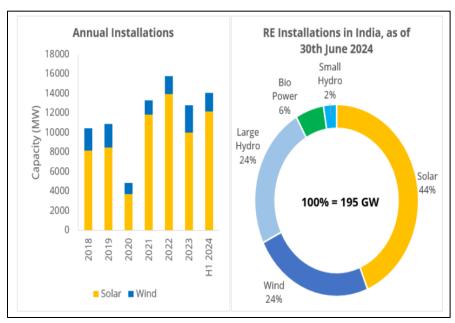


- ❖ Peacock conservation involves protecting both the Indian blue peacock and the green peafowl.
- ❖ As per IUCN red list, the green peafowl classified as Near Threatened.



# **STATES**

# Wind energy generation capacity 2023-24



- ❖ Gujarat topped in the all-India wind energy generation capacity commissioned for the year 2023 -24.
- ❖ Karnataka secured second place and Tamil Nadu ranked third.





- ❖ Gujarat's wind power generation for financial year 2023- 24 is 1743.8MW.
- ❖ Karnataka's commissioned capacity is 724.66MW and Tamil Nadu's capacity is 586.37MW.

# PERSONALITIES, AWARDS, AND EVENTS

#### Rekha Sharma - NCW

- ❖ National Commission for Women chief Rekha Sharma has stepped down from her role.
- ❖ Sharma has had a contentious tenure as the NCW chief for two terms and spent 9 years in total.
- ❖ She has been involved with NCW since 2015, taking on roles as a member and temporarily as chairperson before becoming chief.



## Gandhian Shobhana Ranade

- ❖ Renowned social worker Shobhana Ranade, who met Gandhi when she was 18, passed away recently.
- ❖ She had dedicated her life to uplifting the underprivileged, especially women and children
- ❖ She was awarded with the Padma Bhushan in 2011.



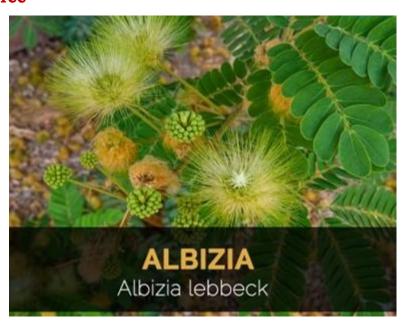


❖ She played a role in setting up the Gandhi National Memorial Society (GNMS) and a National Institute for Training Women at the Aga Khan Palace in Pune in 1979.



# **MISCELLANEOUS**

#### **Indian Siris tree**



❖ The century-old Indian Siris tree in East Godavari district, Andhra Pradesh, recently collapsed during the Godavari floods.





- ❖ By early 2024, the lone tree was dubbed as the most photographed tree on the banks of river Godavari in Andhra Pradesh.
- ❖ Indian Siris, also known as Albizia lebbeck, is a tropical tree native to India and Southeast Asia.
- ❖ It belongs to the Fabaceae family and is a deciduous tree.

## Machine learning framework - 'LEAP'

- \* Researchers at the Indian Institute of Technology, Guwahati (IIT-G) have developed an innovative machine learning framework named 'LEAP'.
- ❖ It marks a significant advancement in the field of Electronic Design Automation (EDA) used in the semiconductor industry.
- ❖ It is a critical component in the \$600 billion semiconductor industry



