



May - 27

TNPSC BITS

- ❖ IIT Madras has joined hands with the government of Israel to establish an 'India – Israel Center of Water Technology'.
- ❖ The Tamil Nadu government has gutka ban extended for a period of one year from May 23, 2023.
 - Tamil Nadu initiated the ban in 2016.
- ❖ Olympic champion Neeraj Chopra became the world number one for the first time in his career in the latest men's javelin throw rankings issued by the World Athletics.
- ❖ China became the world's top car exporter by surpassing Japan.
- ❖ The decade of the 2080s of Bikram Samvat will be marked as 'the Visit Nepal decade' and the year 2025 as the special year for tourism.
- ❖ Ireland has approved new rules that will require extensive health labelling on alcoholic beverages, including cancer warnings and a calorie count.
 - This is the first time in the World.

TAMIL NADU

New ministers in-charge for districts

- ❖ The state has shuffled certain ministers who are in charge of specific districts to coordinate welfare schemes, expedite projects and monitor their implementation.
- ❖ On October 19, 2021, Government appointed his cabinet colleagues as in charge of 14 specific districts to monitor welfare schemes and undertake emergency works during natural calamities.
- ❖ Now, changes have been made and hereafter 16 districts will have a minister as in-charge.

eVTOL aircrafts

- ❖ The ePlane Company, a developer of Electric Vertical Take off and Landing (eVTOL) aircrafts has received Design Organisation Approval from the Directorate General of Civil Aviation (DGCA).
- ❖ Incubated at IIT Madras, Chennai since 2019, the ePlane Company was founded by Satyanarayanan Chakravarthy.

- ❖ The ePlane Company is in pursuit of developing India's first compact flying electric taxi.
- ❖ It was designed for intra-city commutes and cargo transport.
- ❖ The ePlane e200 is a two-seater aircraft that is designed to operate in urban spaces.



NATIONAL

'Sengol' sceptre



- ❖ A golden sceptre called 'Sengol' would be installed at a prominent spot in the new Parliament building.

- ❖ It was presented to Jawaharlal Nehru, India's first prime minister, as a symbol of the transfer of power from the British.
- ❖ The word 'Sengol' is believed to have been derived from the Tamil word 'semmai', which refers to excellence.
- ❖ Nehru sought the advice of C Rajagopalachari, the last Governor-General of India for this.
- ❖ Rajaji suggested the use of the 'Sengol'.
- ❖ He was inspired by the Chola dynasty, where a similar ceremony was held to transfer power between kings.
- ❖ The 'Sengol' was crafted by Vummidi Bangaru Chetty of Madras.

The term 'forum shopping'



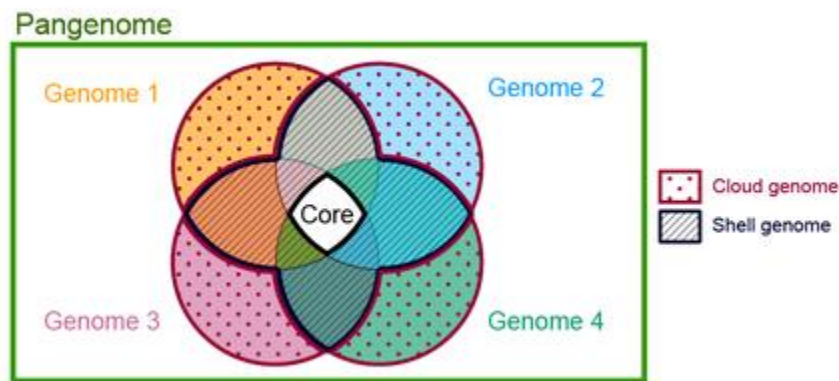
- ❖ The CJI Chandrachud condemns 'forum shopping' in his recent trail.
- ❖ The term described that, when litigants or lawyers attempt to deliberately move their case to a particular judge or Court where they think the judgment could be more favourable.
- ❖ The Supreme Court in its 1988 ruling in 'Chetak Construction Ltd. vs. Om Prakash' said, "A litigant cannot be permitted choice of the forum".

SCIENCE AND TECHNOLOGY

Pan Genome Map

- ❖ A recent study published in the Nature journal presents a pangenome reference map.

- ❖ It is built by using genomes from 47 anonymous individuals (19 men and 28 women).
- ❖ They are mainly from Africa but also from the Caribbean, Americas, East Asia, and Europe.
- ❖ Our genome consists of 23 different strings, each composed of millions of individual building blocks called nucleotides or bases.
- ❖ The four types of building blocks (A, T, G and C) are arranged and repeated millions of times in different combinations to make all of our 23 chromosomes.
- ❖ Genome sequencing is the method used to determine the precise order of the four letters and how they are arranged in chromosomes.
- ❖ Sequencing individual genomes helps us understand human diversity at the genetic level and how prone we are to certain diseases.



Artificial Leaf



- ❖ Researchers from the University of Cambridge have developed an “artificial leaf”.



- ❖ It can convert carbon dioxide into liquid fuels by harnessing the power of sunlight.
- ❖ Importantly, these can directly be used by internal combustion vehicles as drop-in fuels.
- ❖ They replicated the process of photosynthesis by converting carbon dioxide, water and sunlight into two multi carbon fuels— ethanol and propanol.

ENVIRONMENT

Coal Power Plants Top the EU Emitters List

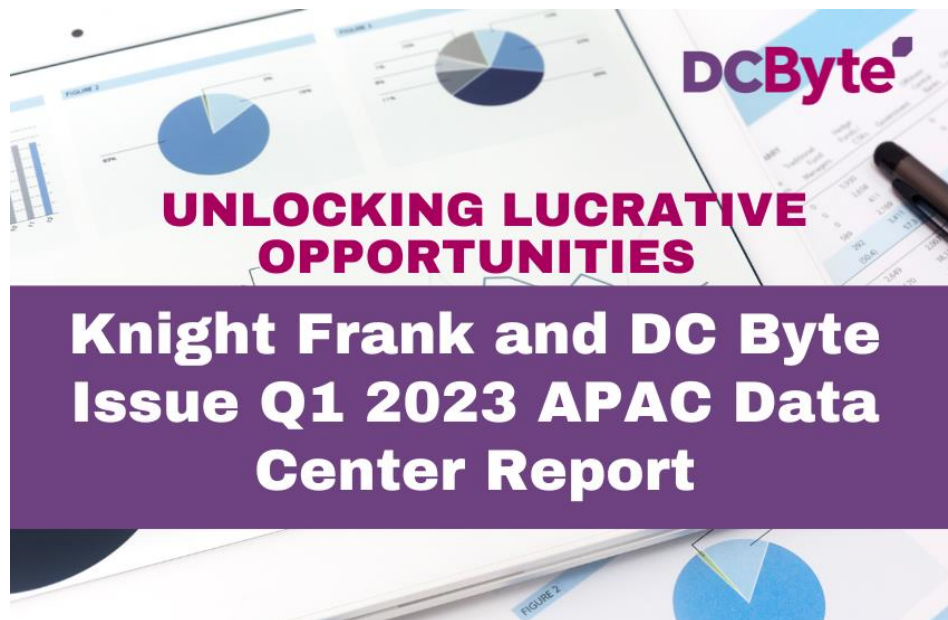
Power Plant	Owner	Fuel	Position	Emissions 2022 (Mt CO ₂ e)
 Bełchatów	PGE	Lignite	1	 35.06
 Neurath	RWE	Lignite	2	 24.22
 Boxberg	EPH	Lignite	3 (▲2)	 19.13
 Niederaußem	RWE	Lignite	4 (▼1)	 17
 Kozienice	ENEA	Hard Coal	5 (▼1)	 15.54
 Jänschwalde	EPH	Lignite	6	 15.31
 Weisweiler	RWE	Lignite	7	 14.93
 Lippendorf	EPH/EnBW	Lignite	8 (▲1)	 11.91
 Turów	PGE	Lignite	9 (▲2)	 11.22
 Maritsa East 2	BEH	Lignite	10 (▲7)	 10.93

- ❖ Global energy think tank Ember released a report titled 'Repeat offenders: coal power plants top the EU emitters list'.
- ❖ The ten largest emitters in the European Union Emissions Trading System in 2022 were all coal plants.
- ❖ Germany and Poland dominating the list.
- ❖ However, the long-term trend of coal power emissions shows a decline.
- ❖ The values in 2022 40 per cent lower than a decade ago.

- ❖ Coal power emissions rose 6 per cent compared to 2021, but remained below 2019 levels.

REPORTS AND INDICES

Data Centre Q1 2023 Report



- ❖ International property consultant Knight Frank along with DC Byte has released a 'Data Centre Q1 2023' report.
- ❖ The report focuses on nine rapidly emerging markets in APAC - Bangkok, Hong Kong, Kuala Lumpur, Mumbai, Seoul, Shanghai, Singapore, Sydney and Tokyo.
- ❖ Shanghai, Tokyo and Mumbai have emerged as the top Data Centre markets in the Asia-Pacific region.
- ❖ Mumbai is the only city from India on the study and has emerged as the standout growth story of Q1, 2023.

STATES

First Neo Metro

- ❖ The country's first Neo Metro will start on two corridors in Dehradun.
- ❖ Also, Haridwar will see the country's first Pod taxi.
- ❖ Neo Metro is the rubber tyre-based mass transit system that draws power from an overhead electric conductor.

- ❖ It runs on a dedicated elevated track.
- ❖ Provide on Demand (Pod) taxis are driverless electric vehicles that move on a specially designed track.

PROJECT DETAILS			
Project	Commencing year	Fare per person (in Rs)	Estimated (in Rs crore)
Dehradun Neo Metro	2026-27	Yet to be decided	1,663
Pod Taxi Haridwar	2026-27	20 to 90	1,330
Chandi Devi ropeway	2025	155 (for one side)	161
Neelkanth	2027	330 (for one side)	466

PERSONALITIES, AWARDS, AND EVENTS

FIJI's highest civilian awards



- ❖ Indian Prime Minister held meetings with his counterparts from Papua New Guinea, Fiji and New Zealand.
- ❖ Modi was the first Indian premier to travel to Papua New Guinea.



- ❖ Papua New Guinea Governor-General Bob Dadae conferred the Grand Companion of the Order of Logohu on Modi.
- ❖ This is the country's highest civilian award and recipients are titled "chief".

IMPORTANT DAYS

Indian Commonwealth Day 2023 - May 24



- ❖ An international Commonwealth Day is celebrated every year on March 13.
- ❖ But it is observed on May 24 in India and a few other nations.
- ❖ Following Queen Victoria's passing on January 22, 1901, Commonwealth Day was first celebrated in 1902 as a way of honouring her.
- ❖ The first commemoration of this important day took place on May 24, 1902.
- ❖ Theme for this year is "Forging a Sustainable and Peaceful Common Future."

