

# **POLITY**

PRE-CONTEXT

# **DELIMITATION COMMISSION**

THE HINDU, PG.NO: 1.

News: "South will not lose LS seats on delimitation, says Union Home Minister."

#### What is Delimitation?

- Delimitation refers to redrawing electoral boundaries to reflect population changes and ensure balanced representation.
- Art.82 and 170: empower Parliament to readjust the allocation of seats in the Loksabha and the Legislative Assemblies of States, respectively, after every census.

#### **About Delimitation Commission:**

- Delimitation Commission is a statutory body, established under Delimitation Commission Act.
- Appointed by President of India.
- · Composition:
  - Chairman: A retired or working Supreme Court Judge
  - Members: Election Commissioner, Concerned State Election Commissioners.
- · Powers:
  - Orders of delimitation commission are laid before the Lok Sabha and Legislative Assemblies, but they can't modify them.
  - It's orders cannot be called into question before any court.

# **Delimitation commissions after Independence:**

- 1952, 1962, 1972, 2002, 2020 (for few States).
  - Delimitation commissions are backed by Statute Eg.
     Delimitation Commission Act, 1952, Delimitation Act, 2002.
- 42nd Constitutional Amendment Act, 1976: Imposed a freeze on the delimitation process until the results of the 2001 Census.
  - The freezing of delimitation was done to prevent states that were effective in population control from being disincentivized.
- 84th Constitutional Amendment Act, 2002: the total number of existing seats in the Lok Sabha and State Legislative Assemblies is to remain unaltered until the first census after 2026.
- · Delimitation Commission (2020):
  - Delimitation in the UT of Jammu and Kashmir and the northeastern States of Assam, Arunachal Pradesh, Manipur, and Nagaland.
  - This Delimitation Commission was set up under Delimitation Act, 2002.

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## **ENVIRONMENT**

PRE-CONTEXT

# EU'S CARBON BORDER ADJUSTMENT MECHANISM

THE HINDU, PG.NO: 13.

News: "EU says ready to address India's specific concerns on carbon tax levy on imports"

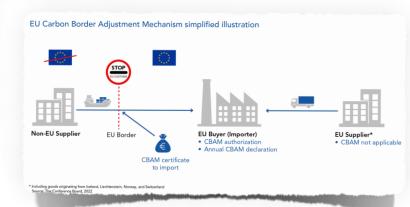
## About EU-CBAM:

- The CBAM is like a carbon tax for imported goods, making sure they cost the same as EU-made products.
  - EU industries invest in technology to maintain high environmental standards, leading to higher production costs compared to countries with less stringent emission norms.
    - This reduces the demand for EU-made products in markets due to their high cost.
  - CABM ensures level playing field by imposing tax on imported goods, making sure they cost the same as EUmade products.
- CBAM is not applicable to goods originating from the EU.
- Exporters must disclose the quantity and emissions of their goods and purchase corresponding certificates.

## Significant risks to India's international trade.

- The EU accounts for 20% of India's total merchandise exports, with 25% affected by CBAM.
- · India, at COP29 Baku, opined CBAM is 'discriminatory'.
- BASIC countries (Brazil, South Africa, India, and China), opined CBAM overlooks the "differentiated responsibility" under climate architecture
  - i.e., Common But Differentiated Responsibilities.

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# **ENVIRONMENT**

PRE-CONTEXT

#### **SUSTAINABLE ENERGY**

THE HINDU, PG.NO: 22.

**News:** "Coal-fired power plants in India cut rice, wheat yield by up to 10%."

**Context:** Generating electricity by burning coal leads to considerable air pollution, which affects human and animal health. Recent studies, have shown that in India nitrogen dioxide and ozone emissions from coal-fired power plants diminish yields of staple crops like wheat and rice.

# Wind Energy:

- Use of wind power by placing windmills to generate electricity.
- Nine windy States of India generate as much as 50Gigawatts (GW) of electricity.
- · India is the fourth largest wind power maker in the world.

#### Solar Energy:

- · It uses energy from sunlight.
- This involves setting up solar panels on houses and buildings or on large scale solar farms.
- · These panels absorb sunlight and convert light into electricity.
- Central and State govts offer subsidies to those who install solar panels.
- India is the third-largest producer of solar power in the world.

## Block a river and generate power:

- This involves stopping a part of a river to make electricity, besides offering water for agriculture in areas where the river flows.
- When a river's water is blocked by a dam and then released, the resultant energy is used to generate electric power.
- The top five dams across India together generate as much as 50 GWs (Gigawatts) of hydroelectric energy.

# Generation of Power where a river flows into the sea:

- Here concept of osmotic pressure difference plays role in power generation.
- India has a vast coastline of 7,500 km, where rivers from the west, south and east drain into the sea, and this technology can effectively generate electricity.
- Here is an *opportunity* for Indian scientists and technologists to rise to the challenge.

## **Nuclear Energy:**

- Using nuclear reactors for peaceful purposes and generate electricity.
- Nuclear power plants use nuclear fission to heat water, create steam, and spin turbines to generate electricity.
- The set of eight nuclear power plants in India together generate 3.5 GW of electricity.

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## **GS III**

SYLLABUS: ENVIRONMENTAL POLLUTION

# ETHANOL BLENDING PROGRAMME

THE HINDU, PG.NO: 8

**News:** "How will the govt. produce the required fuel ethanol?".

## About Ethanol Blending Programme(EBP):

- 15% ethanol blending achieved & targets 20% ethanol blending of petrol 2025-26".
- Raw materials: sugarcane molasses, rice, broken rice, wheat, maize and other grains with starch content.
- Uttar Pradesh is the largest contributed to ethanol blending program.

#### Benefits:

- When petrol was blended with 20% of the biofuel, carbon monoxide reduced by 30% in four wheelers and 50% in two wheelers.
- · Reduction in GHG emissions.
- Estimated EPB will cut approx 4 billion USD annually.
- Bolsters the rural economy by promoting crop diversification.
- · Byproducts of ethanol, can be used for poultry.

#### Issues

- Food vs Fuel Equation: Eg. Maize imports has increased in 1st quarter of 2024 financial year.
  - For production of one-litre of Ethanol requires 2kgs of rice, 2.5kg of maize or 50kg of sugarcane—NITI Aayog.
- · Unsustainable water usage:
  - Production of one litre of grain based ethanol requires 8-12 litres of water.
  - Sugarcane is highly water intensive, this would redirect irrigation water from essential food grain crops.
- Negative impact on livestock feed: Eg. Poultry majorly depends on maize and rapid diversion can lead inflate prices.
- River pollution: Effluents from plants are discharged into cancels, rivers which are source for drinking water and agriculture needs—case of Gandepalli Andhra Pradesh.
- All ethanol production plants and distillers falls under red category as per central govt norms.

## Steps taken to increase indigenous production of Ethanol:

- Re-introduction of administered price mechanism.
- Amendment to Industries Act 1951: brings exclusive control of Denatured Ethanol under central govt. for smooth movement of ethanol across the country.
- · Reduction of GST on Ethanol meant for EBP.
- Differential Ethanol price based on raw materials utilised for ethanol production.
- **Interest subvention scheme** for enhancement and argumentation of ethanol production.
- Publication of *long term policy by* on ethanol Procurement.

#### Other

- E85: Blend of 85% of ethanol and 15% of other hydrocarbons.
- Extra Neutral Alcohol(ENA): used for making liquor for Human consumption.

# Crop Production and States (2024):

- Major Maize producing States: Karnataka, Madhya Pradesh Maharashtra, Andhra Pradesh, Rajasthan.
- Major Sugarcane producing States: UP, Maharashtra, and Karnataka.
- Major Rice producing States: West Bengal, UP, Punjab, Andhra Pradesh.
- Major Wheat producing States: UP, Madhya Pradesh, Punjab, Haryana.

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# **MAPPING**

PRE-CONTEXT

## DEMOCRATIC REPUBLIC OF CONGO

THE HINDU, PG.NO: 14.

News: "Indian peacekeepers serve with commitment: UN."

# Situation in Democratic Republic of Congo (DRC):

- Crisis in the (DRC) is back in the spotlight after the M23
  militia, backed by eastern neighbour Rwanda, captured
  the mineral rich city of Goma, which lies on the border of
  DRC.
  - UN estimates suggest that the fighting, which began in January, has taken the lives of more than 2,900 people, displaced close to 7,00,000.
- Root cause of the crisis is generally attributed to the 1994
   Rwandan genocide, the region has been beset with conflict between the Hutus and Tutsis since colonial times.
  - Hutus and Tutsis are two distinct ethnic groups primarily found in Rwanda.

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#### THE M23 MILITIA One of about 100 armed factions vving for a foothold in mineral-rich eastern DRC DEM. REP. OF CONGO Rwandan-backed group which consists primarily of Tutsis who failed Kinshasa Goma to integrate into the Congolese army Led major insurgency against the DRC government in 2012, took up 500km arms again in 2022. The group is 310 miles estimated to have 6,500 fighters ▲ Mount Jan 27-28, Goma: While M23 rebels Nyiragongo claim control of the city, they are reportedly facing resistance from Direction army and pro-government militias of M23 5km advance Sake DEM. REP. 3 miles OF CONGO Keshero RWANDA Munigi **GOMA UN experts estimate** up to 4,000 Rwandan Bulenga forces are fighting Gisenyi alongside M23 Goma International Airport "Great Barrier" LAKE KIVU Port border crossing

# **S**CHEMES

PRE-CONTEXT

# PM-MATRU VANDANA YOJANA

THE HINDU, PG.NO: 6.

**News:** "A leap backward for maternity entitlements."

**Context:** Pregnant women, continue to be deprived of their legal right to maternity benefits. Worse whatever little used to be paid to them seems to be shrinking.

Central government spending on the PMMVY was at an all-time low of ₹870 crore in 2023-24 –barely one third of the corresponding figure five years earlier, that too in money terms. To cover90% of all births at just ₹6,000 a birth, the PMMVY would require a total budget of at least ₹12,000 crore.

# PM-Matru Vandana Yojana (2017):

- · Centrally Sponsored Scheme.
- · Nodal Ministry: Women & Child Development.
- Scheme is component of NFSA 2013, which provides provides maternity benefits to women belonging to Socially and Economically disadvantaged sections.
- Maternity benefit is to provided to woman for her first two living children, provided if second child is a girl.
- For the first child Maternity benefit of Rs. 5000 and Rs. 6000 second child, if that is girl via Direct Benefit Transfer.
- Exclusion: Women employed in Central Govt., State Govt., PSUs.

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Thank you!