

# **Today's Prelims Topics**

# **International Monetary Fund**

# **Context**

The Appointments Committee of the Cabinet has approved the appointment of former RBI Governor Urjit Patel as Executive Director (ED) at the IMF for a three-year term.

# **About International Monetary Fund (IMF)**

- It is a **specialised agency** of the United Nations (UN), founded at the Bretton Woods Conference in 1944. **(HQ- Washington DC)**
- Membership: 190 countries.
- It grants loans only to its member countries.
- Reports released by IMF:
  - World Economic Outlook (WEO): A biannual report analysing global economic trends and forecasts.
  - O Global Financial Stability Report (GFSR): Focuses on global financial markets and assesses risks to financial stability.
- Lending facilities of IMF: Extended Fund Facility, Rapid Financing Instrument, Rapid Credit facility.

#### Structure of the IMF

- Board of Governors: Highest decision-making body of the IMF. Each member country is represented by its Finance Minister or Central Bank Governor. They meet annually to review key policies and global economic challenges.
- Executive Board: Composed of 24 Executive Directors, this board is responsible for the day-to-day operations of the IMF.
- Managing Director: The Managing Director is the head of the IMF and its staff.

# **Quota System**

- The IMF operates on a quota system, which reflects each member's relative position in the global economy. A member's quota is determined by its GDP, trade openness and other factors.
- Quotas determine the financial contribution of each member country, voting power, and access
  to IMF resources. Quotas are denominated in Special Drawing Rights (SDRs), the IMF's unit of
  account
- A country's voting power is directly related to its quota; the higher the quota, the more voting power the country has. The U.S. has the largest quota and voting share, followed by Japan, China and Germany.
- India has 2.75% of the total quota, making it the 8th largest quota-holding country.

# **UPSC PYQ**

- **Q.** "Rapid Financing Instrument" and "Rapid Credit Facility" are related to the provisions of lending by which one of the following? **(2022)** 
  - (a) Asian Development Bank
  - (b) International Monetary Fund
  - (c) United Nations Environment Programme Finance Initiative
  - (d) World Bank

# **Answer: B**



# Samudrayaan & Challenges of deep sea exploration

#### **Context**

Earlier this month, two Indian "aquanauts" undertook a deep-sea mission in the Atlantic Ocean aboard the French vessel *Nautile* as a part of the preparations for India's **Samudrayaan Project**.

# **About Samudrayaan Mission**

- Samudrayaan is a key initiative under the Deep Ocean Mission (DOM).
- It aims to explore ocean depths of up to 6,000 meters using a manned submersible vehicle named 'Matsya 6000'.
- India will join the elite group of countries U.S., Russia, China, France, and Japan that have conducted successful crewed deep-sea missions.
- Objectives and Opportunities
  - Enhance India's capabilities in deep-sea research.
  - o Enable assessment of living and non-living ocean resources.
  - Strengthen ocean observation systems.
  - Explore the potential for deep-sea tourism in the future.

#### **About MATSYA 6000**

- A 4th-generation, self-propelled, human-rated deep-ocean submersible.
- Being developed by the National Institute of Ocean Technology (NIOT), Chennai.
- Has successfully completed wet testing.
- Endurance:
  - o **12 hours** during normal missions.
  - Up to 96 hours in emergency situations.

# **About Deep Ocean Mission (DOM)**

- Nodal Ministry: Ministry of Earth Sciences.
- Launched in 2021, with a 5-year completion target.
- **Purpose**: To explore deep-ocean resources and develop indigenous technologies for sustainable utilization.
- Supports India's Blue Economy goals.

# **Challenges of the Mission**

- **Pressure Resistance:** Vessel must withstand **600x atmospheric pressure**; titanium alloy sphere with precise welding needed.
- Livable Environment: Maintain 20% oxygen, remove CO<sub>2</sub> with scrubbers, use re-breather units in emergencies.
- Aquanaut Health & Safety: Crew needs peak fitness; food/water intake very limited (e.g., dry fruits during 9-hour test).
- **Communication Barriers:** Radio unusable underwater; **acoustic telephone** developed, worked after overcoming salinity/temperature issues.

**Source: IndianExpress** 





# **Purchasing Power Parity Index**

#### **Context**

According to a report by EY,India is set to become the world's second-largest economy in PPP terms by 2038.

# **About Purchasing Power Parity (PPP) Index**

- PPP Index adjusts GDP and incomes for **price level differences across countries**, making it a better tool to compare **real living standards and economic size** than nominal GDP.
- It shows how much currency is needed in one country to buy the **same basket of goods and services** in another country.
- Difference from Market Exchange Rate (MER):
  - o **PPP:** Reflects cost of living and real purchasing power.
  - o **MER:** Reflects demand–supply of currencies in forex markets.
- Top 3 economies according to PPP: 1. China 2. USA 3. India

# Why India is Projected to Rise?

- **Demographic Dividend:** Median age in 2025: **28.8 years** → younger workforce compared to ageing West and China.
- **Strong Savings & Investment Rates:** Higher domestic savings → financing for infrastructure and industries
- Debt Sustainability: Govt. debt-to-GDP ratio projected to fall from 81.3% (2024) to 75.8% (2030).
- **Structural Reforms & Technology:** GST, Insolvency and Bankruptcy Code (IBC), PLI schemes, AI & digital adoption.
- Vision 2047: Trajectory aligns with India's long-term vision of becoming a developed nation (Viksit Bharat) by 2047.

Source: **DD India** 



# **Air Quality Life Index Report**

#### **Context**

The Air Quality Life Index (AQLI) 2025 report has highlighted high PM2.5 levels in India, especially in Delhi and the northern plains.

# **About Air Quality Life Index Report (AQLI)**

- It is published annually by the Energy Policy Institute at the University of Chicago (EPIC).
- This edition is based on pollution data from 2023.
- Objective: Quantifies the impact of long-term exposure to PM2.5 pollution on life expectancy.

# **Major Findings - India**

- Average life expectancy loss: <u>3.5 years</u> due to PM2.5 exposure.
- India's PM2.5 concentration (2023): 41 μg/m³ (national average).
  - O WHO safe limit: 5 μg/m³.
- 46% of India's population lives in areas exceeding national standard (40 μg/m³).
- Delhi (Worst impacted):
  - O PM2.5 level (2023): 88.4 μg/m<sup>3</sup>.
  - O Life expectancy loss: **8.2 years**.
  - o If Delhi meets **WHO standard** → Residents gain **8 years**.
  - o If Delhi meets national standard (40  $\mu g/m^3$ )  $\rightarrow$  Residents gain 4.7 years.
- Situation in other Northern Plains States:
  - o Bihar: Loss of **5.4 years**.
  - O Haryana: **5.3 years**.
  - Uttar Pradesh: 5 years.

**Source: Hindustan Times** 





# **State Energy Efficiency Index-2024**

#### **Context**

Recently the Bureau of Energy Efficiency released the 6th edition of State Energy Efficiency Index.

# **About State Energy Efficiency Index (SEEI) 2024**

- Released by: Bureau of Energy Efficiency (BEE) with Alliance for an Energy Efficient Economy (AEEE).
- Coverage: Assesses energy efficiency performance of 36 States/UTs for FY 2023–24.
- **Purpose:** Data-driven monitoring, sharing best practices, and fostering competition among states to achieve **Net Zero 2070 vision**.

# **Key Features:**

- Framework: 66 indicators across Buildings, Industry, Municipal Services, Transport, Agriculture, DISCOMs, and Cross-Sector.
- Focus Areas: EV policies, star-rated buildings, Demand Side Management (DSM), renewable adoption.
- Classification of States: Front Runners (>60%), Achievers (50–60%), Contenders (30–50%) & Aspirants (<30%).
- Top Performers 2024, in respective categories:
  - Maharashtra (Group 1)
  - o Andhra Pradesh (Group 2)
  - o Assam (Group 3)
  - o **Tripura** (Group 4)

# Bureau of Energy Efficiency (BEE)

- BEE was established on March 1, 2002 under the Energy Conservation Act, 2000.
- Nodal Ministry: Ministry of Power.
- Objectives:
  - Promote energy efficiency and conservation across all sectors.
  - Reduce India's energy intensity (energy use per unit of GDP).
- Key Functions:
  - o Implement **Standards & Labelling Programme** (Star ratings on appliances).
  - O Develop Energy Conservation Building Code (ECBC).
  - o Promote **Perform, Achieve and Trade (PAT)** scheme for industries.
  - o Implement Energy Efficiency Financing Platform (EEFP).

Source: PIB

# **Purple Notice - Interpol**

# **Context**

The Enforcement Directorate (ED) has issued its first Purple Notice through Interpol.

# **About INTERPOL (International Criminal Police Organization)**

- It is an inter-governmental law enforcement organisation, helps **coordinate cooperation among** law enforcement agencies across its member countries.
- HQ: Lyon, France
- Members: 196 countries (India is a member)

Types of Interpol Notices	
Notice	Purpose
Red Notice	To locate and provisionally arrest a wanted person pending extradition. (Most well-known)
Blue Notice	To locate or identify a person of interest, or to collect information.
Green Notice	To warn about a person's criminal activities when they pose a threat to public safety.
Yellow Notice	To locate missing persons, especially minors, or help identify persons unable to identify themselves.
Black Notice	To identify unidentified bodies.
Orange Notice	To warn of an event, person, object, or process representing a serious and imminent threat.
Purple Notice	To provide information on modus operandi, objects, devices, or concealment methods used by criminals.
Silver Notice	<ul> <li>To track assets of wanted criminals globally. (Launched Jan 2024 in pilot phase).</li> </ul>
Interpol-UN Special Notice	For individuals or entities subject to UN sanctions.

**Source: Times of India** 



# **National Annual Report and Index on Women's Safety (NARI-2025)**

#### **Context**

National Annual Report & Index on Women's Safety (NARI) 2025 was recently released by the National Commission for Women.

# **Key Highlights of Report**

- National safety score: 65% (cities ranked as "much above", "above", "below" or "much below" this mark).
- Safest cities: Kohima, Visakhapatnam, Bhubaneswar, Aizawl, Gangtok, Itanagar, Mumbai.
- Least safe cities: Patna, Jaipur, Faridabad, Delhi, Kolkata, Srinagar, Ranchi.

# **Findings on Safety Perceptions**

- 6 in 10 women felt "safe"; 40% felt "unsafe" or "not so safe".
- High harassment prevalence: 7% reported incidents in public spaces (2024 data).
- Young women (<24 years) most vulnerable (14% reported harassment).
- **Common types**: Verbal harassment (58%) most frequent; others include physical, psychological, sexual, and economic harassment.
- Hotspots: Neighborhoods (38%) and transport (29%).

# Women's Responses to Harassment

- 28% confronted harassers.
- 25% left the location.
- 21% sought safety in crowds.
- 20% reported to authorities.

# **Confidence in Safety Systems**

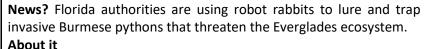
- Sharp drop in safety perception at night, especially in public transport and recreational areas.
- 86% felt safe in educational institutions during the day, but this declines after dark.
- Reporting gaps:
  - Only 1 in 3 victims filed complaints.
  - Only 1 in 4 women believed authorities would act.
  - Only 22% of reported cases were officially registered.
  - O Action taken in just 16% of cases.
- Workplace safety: 53% unaware if their workplace had a POSH policy.

Source: IndianExpress, TheHindu



# **News in Short**

# Burmese Pythons (Python bivittatus)





 Distribution: Native to Southeast Asia (India, Nepal, Myanmar, Thailand, Vietnam, Laos, Cambodia, Indonesia, China).

# • Characteristics:

- Size: Among the largest snakes in the world; can grow up to 5–7 meters (16–23 ft) and weigh over 90 kg.
- O **Diet:** Carnivorous; eat mammals, birds, reptiles, and even alligators. They have no natural predators in Florida
- Reproduction: Lay large clutches of eggs (30–80 at a time), making population control difficult.
- Camouflage: Excellent at blending into vegetation, making them hard to detect and capture.
- Conservation status (native habitat): Listed as Vulnerable by the IUCN due to habitat loss and hunting for skin/meat.

**Source: IndianExpress** 

# **MILMEDICON 2025**

**News?** India hosted MILMEDICON-2025 at Manekshaw Centre, New Delhi.

# **About it**

- An international conference on military medicine.
- Focus: Physical and mental trauma in military settings.
- Organised by the Directorate General of Medical Services (Army).
- **Aims** to advance military healthcare, foster global cooperation, and build future-ready medical solutions.
- Part of the Indian Army's "Year of Reforms" initiative.

Source: TheHindu

# Typhoon Kajiki

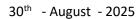
**News?** Typhoon Kajiki struck northern Thailand, causing floods and landslides that killed 5 people, injured 15, and left several missing.

## About it

- A powerful tropical cyclone forming in the West Pacific
- It originated over the Philippines, strengthened over the South China Sea and hit China & Vietnam.

# **About Tropical Cyclone**

- A tropical cyclone is a rapidly rotating storm system originating over warm tropical oceans, characterized by: a low-pressure center (called the eye), strong rotating winds, heavy rain, thunderstorms.
- Condition for Formation: Warm ocean temperatures of at least 26–27°C (79–81°F)
  - O High moisture content in the atmosphere





#### Low to moderate wind shear

- Coriolis force (due to Earth's rotation) to initiate cyclonic spin.
- Regional Names:
  - o Willy-willy (Australia)
  - Hurricane (Northern Atlantic)
  - Typhoon (Western North Pacific).

**Source: The Hindu** 

# **Daruma Doll**



## News?

PM Narendra Modi was presented a Daruma doll during his recent visit to Japan.

# About it

- It is a traditional Japanese doll <u>modeled after Bodhidharma</u>, an Indian monk who founded **Zen Buddhism in Japan.**
- It represents perseverance, resilience, and good luck; often associated with achieving goals.
- It is widely used in Japan for motivation, New Year celebrations, and goal-setting rituals.

**Source: Indian Express** 

# Indian Ocean Naval Symposium (IONS-2025)

#### News?

India recently hosted Emerging Leaders Panel Discussion under Indian Ocean Naval Symposium (IONS) at Kochi.

# About IONS

- It is a voluntary, inclusive regional maritime cooperation forum.
- **Objective:** To enhance maritime security, safety, and cooperation in the Indian Ocean Region (IOR).
- Members: 25 member + 9 observer countries.
- Eligibility: A nation state with permanent territory or border with Indian Ocean and which maintains a Navy or maritime agency
- Chair of IONS: Rotated every 2 years among member countries. India to chair during 2025-27.

# UNGA's new initiatives to strengthen global cooperation on Al governance

# News?

The UN General Assembly has recently launched two new global mechanisms - an Independent International Scientific Panel on AI and a Global Dialogue on AI Governance.

# **About UN Scientific Panel on AI**

- It is an Independent body to bridge science & policy.
- Functions:
  - Provide scientific assessments to inform global AI governance.
  - Promote a **common understanding** of Al-related threats, opportunities, and technologies.
  - O Advise on societal, ethical & economic impacts of Al.

# **About Global Dialogue on AI Governance**

• New multilateral, inclusive platform under UN umbrella.



- It brings together Member States, industry, civil society, academia & researchers.
- **Purpose:** Collective discussion on AI challenges like bias, misinformation, autonomous weapons, job loss.

Both initiatives are established under the <u>UN's Global Digital</u> <u>Compact,</u> agreed upon at the <u>Summit of the Future.</u>

Source: **Down to Earth** 





# **Mains Topics**

# **Dowry in India: A Social Evil that Persists**

#### **Context**

Recent cases like the alleged dowry-related death of **Nikki Bhati in Uttar Pradesh (2025)** highlight how the age-old practice of dowry continues to endanger women despite decades of legal prohibition.

# **About Dowry**

- Dowry, the practice of demanding money, property, or gifts from the bride's family at the time of marriage, continues to be one of the **deep-rooted social evils in Indian society**.
- Despite legal bans since 1961, the practice survives across caste, class, rural and urban settings.
- In **2022, NCRB recorded 6,589 dowry deaths**, which means on average, one woman dies every 80 minutes due to dowry-related violence.
- This reflects how dowry is not just a private family issue, but a **societal problem linked to** patriarchy, gender inequality, and caste dynamics.

# **Reasons/Factors behind Dowry Demands**

- Socio-Cultural Factors:
  - Patriarchy: Viewing women as economic liabilities and men as breadwinners.
  - Marriage as a transaction: Dowry seen as compensation for "bringing home" a wife.
  - Caste & Community norms: Caste panchayats often legitimise dowry demands as tradition.
  - O **Gender Inequality:** From childhood, girls are socialised to prioritise family honour, while boys are considered assets.
- Economic Factors:
  - o Greed & Rising Consumerism: Families demand cash, gold, cars, or property.
  - Low female workforce participation: Women's limited economic independence sustains the belief that dowry secures financial stability.
- Institutional Weaknesses:
  - Ineffective enforcement of laws: Low conviction rates discourage victims from reporting.
  - O Social stigma: Families avoid police/legal action, prioritising "honour" over justice.

# **Impacts of Dowry**

- **Violence Against Women:** Women face harassment, beatings, marital rape, and in extreme cases, death.
- Female Foeticide & Skewed Sex Ratio: Families fearing dowry expenses prefer sons over daughters.
  - O This worsens India's sex ratio at birth (SRB ~ 929 in NFHS-5).
- Cycle of Debt and Poverty: Poor families often take loans or sell land to pay dowry, creating intergenerational poverty.
- Loss of Women's Agency: Women cannot walk out of abusive marriages due to stigma and lack of financial independence.
- **Perpetuation of Patriarchy:** Dowry strengthens male dominance and normalises women's subordination in marriage.



# **Challenges in Addressing Dowry**

- **Cultural Legitimacy:** Dowry is often disguised as "gifts" or "stridhan", making enforcement difficult.
- **Community Pressure:** Families avoid filing cases due to fear of dishonour within their caste or community.
- Patriarchal Institutions: Caste panchayats promote reconciliation instead of justice, sending women back to abusive households.
- Weak Implementation of Laws: Conviction rates under dowry laws remain low. Police often discourage complaints, fearing misuse debates.
- **Stigma for Women:** Women face **double victimisation**, social blame for marriage failure and lack of natal family support.

# **Measures Taken by Government**

# **Legal Framework**

- **Dowry Prohibition Act, 1961:** Outlaws giving/taking dowry.
- IPC Section 498A: Cruelty by husband/in-laws is a criminal offence.
  - Replaced by <u>BNS section 85 & 86.</u>
- IPC Section 304B: Defines "dowry death"; punishment: 7 years—life imprisonment.
  - o Replaced by **BNS section 80.**
- Indian Evidence Act, Section 113B: Presumption of dowry death if woman dies within 7 years of marriage.
- **Domestic Violence Act, 2005**: Broader protection against abuse in marriage.

# **Schemes & Campaigns**

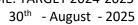
- Beti Bachao Beti Padhao (2015): Aims to improve girl child status.
- National Commission for Women: Helplines, counselling, legal aid.
- State campaigns: Kerala's Say No to Dowry, Haryana's Selfie with Daughter initiative.

# **Related Supreme Court Judgments**

- Kans Raj vs State of Punjab (2000): Continuous harassment can amount to dowry death.
- Satya Narayan Tiwari vs State of UP (2010): Reiterated need for strict punishment in dowry deaths.
- Rajesh Sharma vs State of UP (2017): Issued guidelines to prevent misuse of Section 498A IPC (later diluted).
- State of Punjab vs Iqbal Singh (1991): Circumstantial evidence can establish dowry death.

# **Way Forward**

- Social Reform:
  - O Mobilise **youth, civil society, and women's groups** to challenge dowry as a norm.
  - Public campaigns like Say No to Dowry must be scaled nationally.
- Women's Empowerment:
  - Improve female education and workforce participation.
  - Financial literacy, property rights, and skill development can reduce economic dependence.
- Community Engagement:
  - Involve caste and religious leaders to reform customs.
  - Panchayats must be sensitised to prioritise women's rights over "honour".
- Legal Strengthening:
  - o Fast-track courts for dowry cases.
  - O Better victim support systems shelters, helplines, counselling, and legal aid.
- Behavioural Change through Education:
  - Gender sensitisation in schools and colleges.





- Pre-marital counselling on equal partnership in marriage.
- Technology & Transparency:
  - O Use online complaint portals for anonymous reporting.
  - O Social media campaigns to create stigma against dowry seekers.

Dowry persists because it is **socially sanctioned, culturally legitimised, and institutionally ignored**. While India has strong laws, they remain ineffective without deep **social transformation**. To tackle dowry effectively, India must go beyond legal measures and foster **social reform, economic empowerment, and behavioural change**.





# **Need of Energy Sovereignty for India**

#### **Context**

For India - the world's third-largest energy consumer - dependence on external sources has become a critical vulnerability. In a fragmented & conflict-prone world, **energy sovereignty** (ability to secure uninterrupted, affordable, and indigenous energy) has emerged as the new strategic currency.

# **India's Dependence on Imported Energy**

- Crude Oil: India imports 85% of its crude oil requirement.
- Natural Gas: More than 50% of gas demand is imported, much of it through LNG.
- Coal: Despite large reserves, India imports ~20–25% of its coal needs, mainly coking coal for steel.
- Financial Outflow: In FY23–24, oil and gas imports alone cost India \$170 billion (25% of merchandise imports).
- Geopolitical Dependence:
  - o Pre-2022: West Asia supplied >60% of crude.
  - Post-Ukraine war: Russia became India's largest supplier, accounting for 35–40% of crude imports in 2024–25 (up from just 2% before 2022).

# **Reasons for Energy Dependence**

- Resource Constraints:
  - Oil & Gas Reserves: India's proven reserves are limited and depleting.
  - High Import Needs: Domestic production of crude has stagnated at ~30 MMT/year while demand has crossed 220 MMT/year.
- Rising Energy Demand:
  - Driven by urbanisation, industrialisation, and transport growth.
  - India's energy demand is expected to double by 2040, making imports even more critical.
- Infrastructure and Technology Gaps:
  - Slow progress in domestic oil exploration (due to regulatory hurdles and low investment).
  - o Lack of large-scale renewable storage capacity → continued reliance on fossil fuels.
- Policy and Pricing Factors:
  - O Domestic energy pricing is often politically sensitive, discouraging private investment.

# **Impact of Energy Dependence**

- Economic Impact: Large import bills widen trade deficit and put pressure on the rupee.
  - Fiscal burden rises when subsidies are used to shield consumers from high prices.
- **Geopolitical Vulnerability:** Over-reliance on few regions (West Asia, now Russia) makes India vulnerable to global conflicts.
  - Eg: June 2025 Israel-Iran tensions nearly disrupted 20 million barrels/day of oil flow, threatening \$100+ oil prices.
- **Energy Insecurity:** Supply chain disruptions (wars, sanctions, pandemics) risk shortages and price volatility.
- **Strategic Risks:** Dependence weakens **strategic autonomy**, as energy access influences foreign policy choices.
- Environmental Impact: Import dependence often locks India into fossil fuel reliance, delaying green transition.



# **India's Path to Energy Sovereignty**

• **Diversification of Sources:** Reduced dependence on West Asia (from >60% of imports to <45%). Enhanced sourcing from **Russia**, **Africa**, **U.S.**, **Latin America**.

# **Five Strategic Pillars for Energy Sovereignty**

- Coal Gasification & Carbon Capture:
  - o India has 150+ billion tonnes of coal reserves.
  - Gasification can convert coal into syngas, methanol, hydrogen, and fertilisers, reducing import dependence.
- Biofuels & Ethanol Blending:
  - Ethanol blending programme: Target of 20% blending (E20) by 2025.
  - O Already transferred **₹92,000 crore to farmers** and saved foreign exchange.
  - **SATAT scheme**: 500+ CBG plants generating clean gas and bio-manure to restore degraded soils.

# Nuclear Energy:

- Current nuclear capacity: **8.8 GW** stagnant for decades.
- Plans to expand with thorium roadmap, uranium partnerships, and Small Modular Reactors (SMRs).
- Nuclear provides **zero-carbon baseload power** to complement renewables.
- Green Hydrogen Mission:
  - Target: 5 MMT/year by 2030.
  - Focus on local electrolyser manufacturing, storage solutions, and technology ownership to avoid external dependence.
- Pumped Hydro Storage:
  - Critical for balancing renewable energy variability.
  - India's geography allows creation of large pumped hydro plants as grid stabilisers.
- Renewable Energy Push:
  - Installed RE capacity: 190 GW (2024), aiming for 500 GW by 2030.
  - Solar and wind expansion with global partnerships (ISA, One Sun One World One Grid).
- Strategic Petroleum Reserves (SPR): India has built reserves covering ~10 days of imports, with plans to expand.

Energy security is no longer just climate policy but a **survival strategy**. India must adopt an **energy sovereignty doctrine** built on diversification, domestic capacity, and resilient infrastructure. The future's most valuable resource is not oil but **uninterrupted**, **affordable**, **indigenous energy**.