



## Islamic State-Khorasan

[Source: TH](#)

### Why in News?

Recently, a terror attack at **Moscow's Crocus City Hall** claimed over 137 lives, reigniting concerns about the resurgence of the **Islamic State (IS)** and its growing terror capabilities.

- Experts believe the attack was likely carried out by **IS Khorasan (IS-K), the group's Afghanistan-Pakistan branch.**

### What is the Islamic State-Khorasan (IS-K)?

- **IS-K:**
  - **IS-K, the Afghanistan-based arm of the IS,** has been responsible for recent attacks, including the twin bombings in Kerman, Iran.
  - Established in Afghanistan's Nangarhar province in 2015, IS-K comprises **Central Asian militants** and has gained prominence since the Taliban's return to power in August 2021.
  - IS-K targets **Afghanistan's Shia minority** and seeks to recruit radicalised youths from Central Asia and Afghanistan's Tajik and Uzbek minorities.
  - IS-K utilises **anti-Russian and anti-Iranian propaganda** to recruit among Central Asians, Afghans, and Pakistanis.
    - Geopolitical instability in Afghanistan and parts of West Asia provides fertile ground for IS-K to regroup and launch attacks.
- **Security Challenges for Russia:**
  - Russia, hosting thousands of Central Asian migrant labourers, faces a serious security challenge due to IS-K's activities.
  - Russia faces pressure to enhance security measures and address the root causes fueling IS-K's resurgence.



**Islamic State:**

- The Islamic State (IS) also known as the **Islamic State of Iraq and Syria (ISIS)** and the **Islamic State in Iraq and the Levant (ISIL)**, is a **Salafi-Jihadist militant organisation**.
- It is a **transnational Sunni insurgent group** operating primarily in western Iraq and eastern Syria that seeks to establish an **Islamic caliphate in Iraq and Syria** and to create a global Salafi-Jihadist movement.
- IS claimed the establishment of a **“province” in India called “Wilayah of Hind”**.

**Prominent India-Centric Terror Organizations in Pakistan**

| Name                         | Formation  | FTO Designation | About  | Status in India as per the Unlawful Activities (Prevention) Act, 1967 |
|------------------------------|------------|-----------------|--|---|
| <b>Lashkar-e-Taiba (LET)</b> | Late 1980s | 2001            | Responsible for major <b>2008 attacks in Mumbai</b> and numerous other high-profile attacks. | Banned  |
| <b>Jaish-e-Mohammed</b>      | 2000       | 2001            | Along with LET, it was responsible for the <b>2001</b>                                       | Banned  |

| (JEM)                                 |      |      | <b>attack on the Indian parliament.</b>   |        |
|---------------------------------------|------|------|---|--------|
| <b>Harakat-ul Jihad Islami (HUJI)</b> | 1980 | 2010 | Initially formed to fight the Soviet army, later redirected efforts toward India. Operates in Afghanistan, Pakistan, Bangladesh, and India, <b>seeking annexation of Kashmir into Pakistan.</b> | Banned |
| <b>Harkat-ul-Mujahideen (HUM)</b>     | 1985 | 1997 | Operates mainly from <b>Pak-Occupied Kashmir and some Pakistani cities.</b>   | Banned |
| <b>Hizb-ul Mujahideen</b>             | 1989 | 2017 | The militant wing of <b>Pakistan's largest Islamist political party</b> , and is one of the largest and oldest militant groups operating in Jammu and Kashmir.                                  | Banned |
| <b>Al Qaeda</b>                       | 1988 | 1999 | Operates primarily from former Federally Administered Tribal Areas in Karachi, and Afghanistan.   | Banned |

## UPSC Civil Services Examination, Previous Year Question (PYQ)

### Prelims

**Q. Hand-in-Hand 2007' a joint anti-terrorism military training was held by the officers of the Indian Army and officers of the Army of which one of the following countries? (2008)**

- (a) China
- (b) Japan
- (c) Russia
- (d) USA

**Ans: (a)**

## UP Board of Madarsa Education Act, 2004

**For Prelims:** [Secularism](#), [Fundamental Rights](#), [Right to Education \(RTE\) Act, 2009](#), [Sarva Shiksha Abhiyan](#), [PM SHRI Schools](#)

**For Mains:** Education, Government Policies & Interventions, Issues Arising Out of Design & Implementation of Policies

**Source: IE**

## Why in News?

The Allahabad **High Court (HC)** has struck down the **Uttar Pradesh Board of Madarsa Education Act, 2004**, as unconstitutional.

## What is the Uttar Pradesh Board of Madarsa Education Act, 2004?

### ▪ Overview of the Act:

- The Act aimed to regulate and govern the functioning of **madrasas (Islamic educational institutions)** in the state of Uttar Pradesh.
  - It provided a framework for the establishment, recognition, curriculum, and administration of madrasas across Uttar Pradesh.
  - Under this Act, the **Uttar Pradesh Board of Madarsa Education** was established to oversee and supervise the activities of madrasas in the state.

### ▪ Concerns Regarding the Act:

#### ◦ Constitutional Violation:

- The act has been deemed **unconstitutional by the Allahabad HC**, as it **promotes education segregated along religious lines**, contradicting the [principle of secularism](#) enshrined in the Indian Constitution and [fundamental rights](#).
- The Act's provisions were criticised for failing to **ensure quality compulsory education up to the age of 14 years**, as mandated by [Article 21 A of the Constitution](#).
- Concerns were raised regarding the exclusion of madrasas from the [Right to Education \(RTE\) Act, 2009](#) potentially depriving students of **universal and quality school education**.

#### ◦ Limited Curriculum:

- Upon examination of madrasa syllabi, the court noted a curriculum **heavily focused on Islamic studies**, with limited emphasis on modern subjects.
- Students were required to **study Islam** and its doctrines to progress, **with modern subjects** often included as optional or offered minimally.

#### ◦ Conflict with Higher Education Standards:

- The Act was deemed to conflict with **Section 22 of the [University Grants Commission \(UGC\) Act, 1956](#)**, raising questions about its compatibility with **higher education standards**.

### ▪ High Court Ruling:

- The Allahabad HC declared the **Uttar Pradesh Board of Madarsa Education Act, 2004** unconstitutional due to violations of secular principles and fundamental rights.
  - It directed the **state government to accommodate madrasa students in recognised regular schools** and raised concerns about the limited curriculum focused on Islamic studies.
- The ruling highlighted potential adverse effects on students' access to quality education and prompted legal arguments regarding constitutional violations.

## What are the Constitutional Provisions Regarding Education in India?

| Provisions   | Article            |
|--|--------------------|
| The State shall endeavour to <b>provide early childhood care and education for all children</b> until they complete the <b>age of six years</b>  | Article 45         |
| The <b>86<sup>th</sup> Constitutional Amendment Act of 2002</b> , provided the Right to Education as a fundamental right in Part III of the Constitution and made education a fundamental right for children <b>between the ages of six and fourteen</b> . | <b>Article 21A</b> |
| <b>Promotion of education and economic interests of Scheduled Castes, Scheduled Tribes, and other weaker sections of the people.</b>   | Article 46         |
| <b>Freedom to attend religious education</b> in certain educational institutions established under an <b>endowment or trust and administered by the state</b> .  | Article 28         |
| <b>Education of minorities, protection of interests of minorities</b>  | Article 29         |



|   |                |
|---|----------------|
| Right of minorities to establish and administer educational institutions                                      | Article 30     |
| Parents and guardians must provide educational opportunities for their children between the ages of 6 and 14. | Article 51A(k) |

## What are the Initiatives Related to Education?

- [Sarva Shiksha Abhiyan \(SSA\)](#)
- [Rashtriya Madhyamik Shiksha Abhiyan.](#)
- [Rashtriya Uchhattar Shiksha Abhiyan \(RUSA\)](#)
- [National Programme on Technology Enhanced Learning.](#)
- [PRAGYATA](#)
- [Mid-Day Meal Scheme](#)
- [Beti Bachao Beti Padhao](#)
- [PM SHRI Schools](#)

### Drishti Mains Question:

Q. Analyse the challenges arising from the design and implementation of government policies in the education sector.

## UPSC Civil Services Examination, Previous Year Question (PYQ)

### Prelims

**Q. Which of the following provisions of the Constitution does India have a bearing on Education? (2012)**

1. Directive Principles of State Policy
2. Rural and Urban Local Bodies
3. Fifth Schedule
4. Sixth Schedule
5. Seventh Schedule

**Select the correct answer using the codes given below:**

- (a) 1 and 2 only  
 (b) 3, 4 and 5 only  
 (c) 1, 2 and 5 only  
 (d) 1, 2, 3, 4 and 5

**Ans- (d)**

### Mains

**Q1.** How have digital initiatives in India contributed to the functioning of the education system in the country? Elaborate on your answer. **(2020)**

**Q2.** Discuss the main objectives of Population Education and point out the measures to achieve them in India in detail. **(2021)**

# Solar Waste Management

**For Prelims:** [Solar Energy](#), [Circular Economy](#), [National Solar Mission](#), [Solar Park Scheme](#), [Rooftop Solar Scheme](#), [Critical Minerals](#).

**For Mains:** Solar Energy and Development in India, Challenges Related to Solar Waste, Government Schemes to Enhance Solar Energy Production in India.

**Source:** [IE](#)

## Why in News?

Recently, a report titled '**Enabling a Circular Economy in India's Solar Industry - Assessing the Solar Waste Quantum**' shed light on India's escalating [solar waste](#) crisis.

- The study was conducted by the **Ministry of New and Renewable Energy (MNRE)** in collaboration with experts from the [Council on Energy, Environment and Water](#) (a leading not-for-profit policy research institution in Asia)

## What are the Key Highlights of the Report?

- **Solar Waste Projection:** The current solar capacity of India, as of FY23, has generated about **100 kilotonnes (kt)** of cumulative waste, which will increase to 340 kt by 2030.
  - This volume will increase 32 times by 2050 resulting in about 19000 kt of cumulative waste.
  - **77% of the cumulative waste generated by 2050** will be due to new capacities.
- **State-wise Contribution:** Around 67% of the projected waste by 2030 is expected to be produced by five states: **Rajasthan, Gujarat, Karnataka, Tamil Nadu, and Andhra Pradesh**.
  - Rajasthan will account for 24% of the waste generated by 2030, followed by Gujarat accounting for 16%, and Karnataka accounting for 12%.
- **Critical Minerals Content:** Discarded solar modules contain [critical minerals](#) essential for India's economic development and national security, including silicon, copper, tellurium, and cadmium.
  - The projected 340 kt of waste by 2030 is estimated to comprise **10 kt of silicon, 12-18 tonnes of silver, and 16 tonnes of cadmium and tellurium**.
- **Recommendations:**
  - The MNRE should maintain and periodically update a database of the installed solar capacity (containing details such as module technology, manufacturer, commissioning date, etc.) for accurate mapping of plausible waste generation centres.
  - The Ministry of Environment, Forest and Climate Change should issue guidelines for **collecting and storing solar waste**.
    - Furthermore, it should **promote the safe and efficient processing of stored waste**.
  - Solar cell and module producers should start developing **waste collection and storage centres** to adhere to the responsibilities assigned in the [Electronic Waste Management Rules 2022](#).

## What is Solar Waste?

- **About:** Solar waste is any waste generated during the **manufacturing of solar modules, or discarded modules and scrap** from manufacturing processes.
  - Modules are discarded at the end of their functional life or due to damages from transportation, handling, and installation.
  - Improper handling and landfilling of solar waste should be avoided. Proper treatment is necessary to **reclaim valuable minerals and prevent** the leaching of toxic materials like

lead and cadmium.

- **Potential Recyclability of Solar Waste:** Approximately **80% of solar panel components, including glass and metal frames, are recyclable**, according to the [International Renewable Energy Agency \(IRENA\)](#).
  - Solar waste can be recycled to recover materials like glass, aluminium, copper, silicon and silver.
  - Recycling can be broadly categorised into **mechanical, thermal and chemical processes**.
    - Each process helps in the recovery of specific minerals of varying purity grades.
- **Challenges of Solar Waste Recycling in India:**
  - **Lack of Policy Framework:** The absence of specific comprehensive laws governing solar waste management hinders the establishment of standardised recycling practices and may contribute to inconsistent recycling efforts.
  - **Complex Composition & Difficulty in Separation:** Solar panels contain various materials like silicon, glass, aluminium, and toxic elements like lead and cadmium.
    - Separating these components for effective recycling requires specialised technology, which is often expensive and not widely available in India.
  - **Informal Sector Involvement:** A large portion of solar waste ends up with informal recyclers who lack proper safety measures and often resort to environmentally harmful practices.
  - **Limited Market for Recycled Materials:** In India, lack of adequate demand for materials such as silicon wafers or glass cullet from recycled panels undermines the economic feasibility of recycling efforts.

## What are India's Initiatives Related to Solar Energy?

- [National Solar Mission](#)
- [Solar Park Scheme](#)
- [Rooftop Solar Scheme](#)
- [PM-KUSUM scheme](#)
- [PM-Surya Ghar Muft Bijli Yojna](#)
- [International Solar Alliance](#)

## How can India Manage Solar Waste Effectively ?

- **Stringent Regulatory Framework:** India can create a comprehensive regulatory framework to guide collection, recycling, and material-specific recovery targets for solar waste.
  - The framework can also encourage incentives like [green certificates](#) to encourage **recycling and mineral recovery**.
  - It should also include developing and implementing comprehensive policies to **promote circular economy principles** within the solar industry, encouraging resource efficiency, recycling, and reuse.
- **Formalisation of Informal Recyclers:** Integrating **informal recyclers into the formal system** through **training programs** and providing them with proper equipment. This ensures safe, environmentally sound practices and also provides them a secured employment.
- **Solar Panel Refurbishment and Second Life:** . By establishing dedicated refurbishment facilities, India can **clean, repair, and retest slightly damaged panels**, diverting them from the waste stream and providing affordable options for consumers.
- **Solar-waste Entrepreneurship:** Encouraging and incentivising green innovators to design and prototype new sustainable products using recycled solar materials, thereby fostering creativity and effective utilisation.

## What are Electronic Waste Management Rules 2022?

- **About:** The management of E-Waste in India is presently regulated under E-Waste (Management) Rules, 2022 under the Environment Protection Act, 1986

- It includes waste management of solar PV modules, panels, and cells.
- **Applicability:** These rules apply to everyone involved in the life cycle of e-waste, including manufacturers, producers, refurbishers, dismantlers, and recyclers.
- **Key Features:**
  - **Extended Producer Responsibility (EPR):** Producers are obligated to fulfil specific recycling targets for the e-waste they introduce into the market. This is achieved through a system of **EPR certificates**.
  - **Solar E-Waste Management:** Producers are mandated to store the waste generated from **solar PV modules and cells** up to 2034 – 2035 as per guidelines laid down by the **Central Pollution Control Board (CPCB)**.
    - The rules also mandate the filing of annual returns on the e-waste management portal up to 2034 – 2035.
  - **Hazardous Substances:** It mandates that every producer of Electrical and Electronic Equipment (EEE) and their components shall ensure that their products do not contain **lead, mercury and other hazardous substances** beyond the maximum prescribed concentration.
- **Exceptions:** The rules do not apply to the following:
  - Waste batteries regulated by the Battery Waste Management Rules, 2022
  - Packaging plastics governed by the Plastic Waste Management Rules, 2016
  - Micro enterprises defined in the Micro, Small and Medium Enterprises Development Act, 2006 (27 of 2006)
  - Radioactive wastes covered by the provisions of the Atomic Energy Act, 1962 (33 of 1962) and its rules.

**Drishiti Mains Question:**

Assess the consequences of limited recycling infrastructure on India's renewable energy objectives and sustainable development goals especially considering the increasing amount of solar waste.

**UPSC Civil Services Examination Previous Year Question (PYQ)**

**Prelims**

**Q. Consider the following statements: (2016)**

1. The International Solar Alliance was launched at the United Nations Climate Change Conference in 2015.
2. The Alliance includes all the member countries of the United Nations.

**Which of the statements given above is/are correct?**

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

**Ans: (a)**

**Mains**

**Q. India has immense potential of solar energy though there are regional variations in its developments. Elaborate. (2020)**



# Kunming-Montreal GBF Implications for India's Indigenous Tribes

**For Prelims:** [Conference of Parties \(COP15\)](#), [Kunming-Montreal Global Biodiversity Framework](#), [Sustainable Development Goals](#)

**For Mains:** Kunming-Montreal Global Biodiversity Framework, Outcomes of COP 15, Environmental Pollution & Degradation, Indigenous Communities

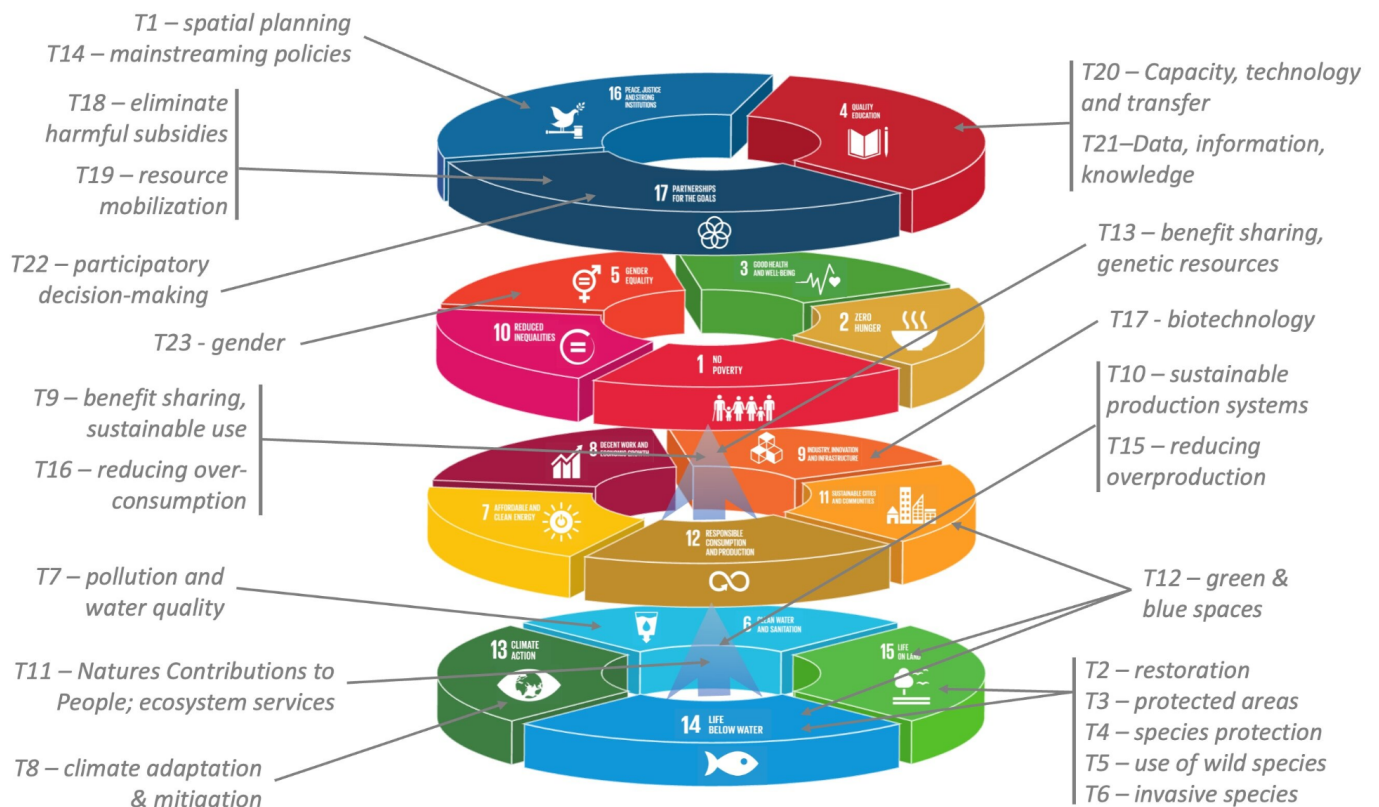
**Source:** TH

## Why in News?

A recent symposium organised by the University of Arizona highlighted concerns about the [Kunming-Montreal Global Biodiversity Framework \(GBF\)](#) and its potential impact, particularly on [India's indigenous tribes](#).

## What is the Kunming-Montreal Global Biodiversity Framework?

- **About:** The Kunming-Montreal GBF was adopted during the **15<sup>th</sup> meeting of the Conference of the Parties to the UN Convention on Biological Diversity** in December 2022.
  - It aims to support the achievement of [sustainable development goals](#) and build on previous strategic plans.
  - The framework sets **four goals for 2050 and 23 targets for 2030**, covering planning, monitoring, reporting, finance, and capacity development.
    - Target 3 of the GBF aims to **increase protected areas to at least 30% of the world's terrestrial area by 2030, compared to the current 16%**.
  - All parties (including India) are committed to setting national targets to implement the GBF.



#### India's Progress:

- **Target 3 - 30x30:** India reports bringing 22% of its terrestrial area and 5% of marine and coastal areas under the **Protected Area Network**.
  - While India shows progress in expanding protected areas, concerns arise over legal definitions and diversions of these areas for non-conservation purposes.
  - **India's Forest (Conservation) Amendment Act of 2023** expanded the definition of forest activities to include commercial ventures such as zoos and ecotourism, reflecting a commitment to sustainable development.
    - However, the **Supreme Court** has issued directives that require any proposal for establishing zoos and safaris within forest areas (excluding protected areas) to **receive prior approval from the court**.
- **Other Effective Area-Based Conservation Measures (OECMs):** India identifies 14 categories of OECMs, including citizen-led initiatives, but the voluntary nature of their declaration raises questions about legal protection.

### What Could be the Implication of Forest Expansion on India's Indigenous Tribes?

- **Implication:** Forest Expansion under GBF targets may restrict traditional land use **practices and livelihoods of indigenous communities** relying on natural resources, leading to increased poverty and food insecurity among indigenous populations.
  - About **84%** of India's **national parks** were established in areas inhabited by the indigenous peoples and meeting the GBF targets will threaten their existence.
- **Related Recent Instances:** Upgrading initiatives such as the **Kumbhalgarh Wildlife Sanctuary, Rajasthan to a tiger reserve** could displace 162 tribal villages.
  - Expansion plans for the **Nauradehi Sanctuary in Madhya Pradesh** may affect 62 predominantly tribal villages.
  - The notification for the **Barak Bhuban Wildlife Sanctuary** in Assam poses risks to Khasis, Dimasas, and other indigenous groups.

#### Note

This negative trend is also evident in other Southeast Asian countries where indigenous peoples face denial of basic rights in protected areas. Instances include **denial of housing, health, education, electricity, and security** to indigenous peoples in places like **Indonesia's Ujungkulon National Park**.

## How India can Utilise Indigenous Tribes in Biodiversity Conservation?

- **Preserving Cultural Heritage through Ecotourism:** Supporting **ecotourism initiatives led by indigenous communities**, fostering cultural preservation and generating income.
  - A standout example is the **Wayanad tribal heritage villages in Kerala**, where community-led eco-tourism projects have not only boosted income but also safeguarded wildlife and empowered local communities.
- **Integrating Traditional and Professional Knowledge:** Government can leverage traditional knowledge of indigenous tribes like the **Khasi and Jaintia tribes of Meghalaya** have a rich tradition of protecting "**sacred groves**( **areas of natural vegetation that are preserved through local taboos and sanctions**)."
  - Integrating this knowledge with scientific surveys by institutions like the **Wildlife Institute of India (WII)** can create comprehensive conservation plans.
- **Promoting Co-Management Models:** Expanding **co-management models like the West Bengal Joint Forest Management (JFM) program** where indigenous communities work alongside forest departments to manage protected areas. This leverages their knowledge and fosters a sense of ownership.

## Way Forward

- **Free, Prior, and Informed Consent:** The Indian government uphold Upholding Free, Prior, and Informed Consent (FPIC) which is a mandatory requirement before establishing protected areas on tribal lands under the **Panchayats (Extension to Scheduled Areas) Act, 1996**.
- **Social Impact Assessment:** Conducting **social impact assessments** to understand the potential impact of protected area expansion on existing livelihoods.
  - Following the example of **Namibia's Communal Conservancy program**, co-management models can be established for protected areas.
  - These models grant indigenous communities a stake in wildlife management, incentivizing sustainable practices.
- **Aligning Policies with International Standards:** India must align its national policies with **United Nations Declaration on the Rights of Indigenous Peoples (UNDRIP) principles** ensuring that indigenous rights and knowledge systems are respected along with sincere conservation efforts.

### Drishti Mains Question:

Q. Assess the potential threats posed by Kunming-Montreal GBF Implications for India's Indigenous Tribes.

## UPSC Civil Services Examination, Previous Year Questions (PYQs)

### Prelims

Q. "Momentum for Change: Climate Neutral Now" is an initiative launched by (2018)

- (a) The Intergovernmental Panel on Climate Change
- (b) The UNEP Secretariat
- (c) The UNFCCC Secretariat
- (d) The World Meteorological Organisation

Ans: (c)

PDF Reference URL: <https://www.drishtias.com/current-affairs-news-analysis-editorials/news-analysis/04-04-2024/print>

