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Topic wise content



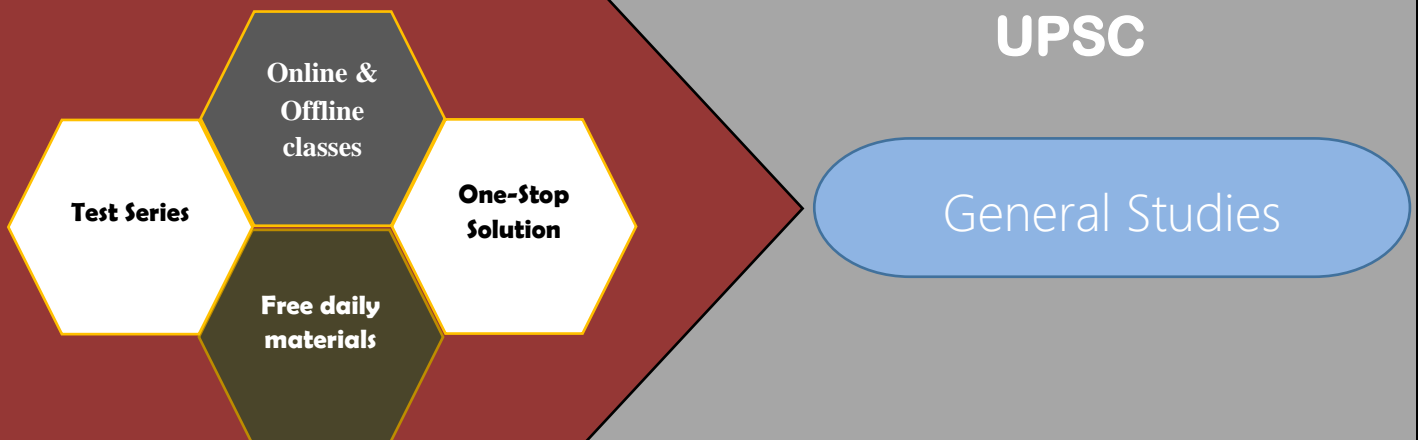
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Mission Innovation 2.0

Notes for civil services preparation



Mission Innovation 2.0

- Recently, the Union Minister of Science & Technology addressed the **Mission Innovation (MI)** to mark the beginning of phase-2 of the mission or Mission Innovation 2.0.
- **India played a leadership role** in MI Steering Committee and is a member of the Analysis and Joint Research and Business & Investor Engagement sub-groups.

Key Points

Mission Innovation:

Formation:

- Mission Innovation was **announced on 30th November 2015**, on the sidelines of the **Paris Climate Agreement** to undertake ambitious measures to combat **climate change**.

Membership:

- It is a global initiative of **24 countries and the European Union** to accelerate global clean energy innovation.

Principle:

- Commitment by all members to seek to **double their clean energy innovation investments over five years** in selected priority areas.
- Each **member according to its own priorities, policies, processes, and laws independently determines the best use of its funding** and defines its own Research & Development priorities and path to reach the doubling goal.
- In many cases, MI members prioritise parts of their whole energy innovation budget within their baseline.

Objectives:

- Enhance the **public sector investment** to a substantial to a substantial level.
- Increased **private sector engagement** and investment.
- Increase **international collaboration**.
- **Raising awareness** of the transformational potential of innovation.

Innovation Challenges (IC):

- Innovation challenges are a **major part of the mission innovation** that is aimed at leveraging research, development, and demonstration (RD&D) in technology areas that could ultimately result in **effective ways to reduce greenhouse gas emissions, increasing energy security, and creating new opportunities for clean economic growth**.
- There are **8 innovation challenges** under the mission innovation:
- IC1 – **smart grids**, IC2 – **Off-grid access to electricity**, IC3– **Carbon capture**, IC4 – **Sustainable biofuels**, IC5 – **Converting sunlight**, IC6 – **Clean energy materials**, IC7 – **Affordable cooling and heating of buildings**, IC8 – **Renewable and clean hydrogen**.
- The first phase has shown that work done under ICs have mobilized in a relatively short period, relying on members' leadership and voluntary efforts to advance IC objectives.
- These resources have dramatically accelerated the availability of the advanced technologies that will define a future global energy mix which is clean, affordable, and reliable.

Mission Innovation 2.0:

- To achieve the shared goal of accelerating innovation, all the members have agreed to develop a **second phase (2.0)** that includes:

- An **enhanced Innovation Platform** building on current activities to strengthen the global clean energy innovation ecosystem and to accelerate learning.
- **New public-private innovation alliances** – Missions – built around ambitious and inspirational goals backed by voluntary commitments that can lead to tipping points in the cost, scale, availability, and attractiveness of clean energy solutions.



