



VAJIRAO & REDDY INSTITUTE

India's Top Potential Training Institute for IAS

+918988885050



+918988886060

www.vajiraoinstitute.com



info@vajiraoinstitute.com

YOJANA MAGAZINE ANALYSIS

(February 2025)

(Part 4/4)

TOPICS TO BE COVERED

PART 1/4

- **PM KUSUM: EMPOWERING FARMERS WITH SOLAR ENERGY**
- **ENERGY SECURITY IN INDIA**

PART 2/4

- **INDIAN CARBON MARKETS**
- **SMART CITIES MISSION & ROLE OF ENERGY EFFICIENCY**

PART 3/4

- **SCOPE & OPPORTUNITIES FOR RENEWABLE ENERGY IN RURAL INDIA**
- **GREEN HYDROGEN**

PART 4/4

- **BIOFUELS AS A PROMISING SUBSTITUTE FOR HIGH CARBON ENERGY SOURCE**
- **PRAGATI: DRIVING INDIA'S DEVELOPMENT WITH PURPOSE**

ADDRESS:

19/1A Shakti Nagar, Nagiya Park Near Delhi University, New Delhi - 110007 (India)



BIOFUELS AS A PROMISING SUBSTITUTE FOR HIGH CARBON ENERGY SOURCE

- The demand for energy is increasing, but fossil fuels are no longer sustainable due to their environmental impact.
- **Biofuels**, derived from renewable **biomass**, offer a strategic advantage for both **sustainable development** and **energy security**.
- The **National Policy on Biofuels (NPB) 2018** aims to enhance biofuel generation and create a **sustainable biofuel ecosystem**.
- **Jatropha curcas**, a non-edible feedstock, is identified as a key source for **biodiesel** production.

ABOUT BIOFUELS

- Biofuels are **renewable fuels** made from **biomass**, used primarily for:
 - **Transportation**
 - **Heat generation**
 - **Power generation**

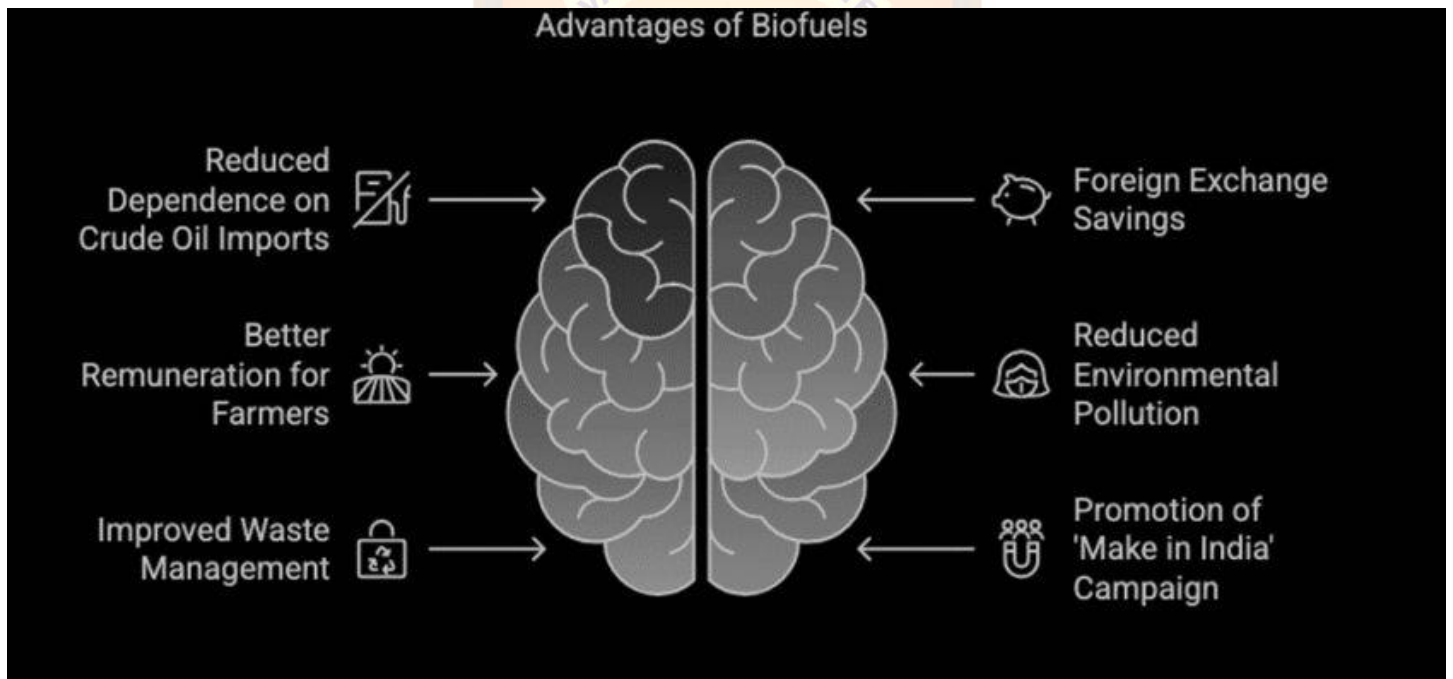
ADDRESS:

19/1A Shakti Nagar, Nagiya Park Near Delhi University, New Delhi - 110007 (India)



- The most common biofuels are **ethanol** and **biodiesel**, which:
 - Offer **environmental benefits**
 - Help reduce **greenhouse gas emissions**
- Biofuels contribute to **sustainable development**, reduce dependence on fossil fuels, and enhance **national energy security**.

Advantages of Biofuels



NEED FOR ALTERNATIVE ENERGY SOURCES

- Access to **affordable** and **clean energy** is essential for health, development, and well-being.

ADDRESS:

19/1A Shakti Nagar, Nagiya Park Near Delhi University, New Delhi - 110007 (India)



- Conventional energy sources, especially **fossil fuels**, harm the environment.
- There is a growing need for **alternative energy sources** to address:
 - **Climate change**
 - **Biodiversity loss**
 - **Pollution**

Biofuels are emerging as an ideal solution to meet India's energy needs sustainably.

BIOFUELS IN INDIA

- **India's biofuel initiative** began in **2003**, focusing on **molasses for bioethanol** and **non-edible oils for biodiesel**.
- **Challenges** in biofuel production:
 - **Inconsistent production**
 - **High costs**
 - **Limited land availability**
 - **Selection of feedstock**

A **coherent policy** with a **long-term vision** is needed to sustain India's biofuel efforts, offering benefits like **energy security**, **economic growth**, and a **higher quality of life**.

ADDRESS:

19/1A Shakti Nagar, Nagiya Park Near Delhi University, New Delhi - 110007 (India)



HOUSEHOLD ENERGY & BIOFUELS

- Household energy is crucial for **health** and **well-being**.
- Unaffordable or inadequate access to energy can have adverse consequences.
- **Biofuels** can provide a **viable solution** for household energy needs, offering:
 - **Social benefits**
 - **Environmental benefits**

JATROPHA CURCAS

- **Jatropha curcas** is a **non-edible oilseed** identified as a suitable feedstock for biodiesel production in India.
- **Advantages of Jatropha:**
 - Can grow in **arid zones** and **degraded lands**
 - Resistant to pests and diseases
 - Attracts **pollinators**
 - Sequesters **carbon**
 - Provides valuable **byproducts**

ADDRESS:

19/1A Shakti Nagar, Nagiya Park Near Delhi University, New Delhi - 110007 (India)



NATIONAL POLICY OF BIOFUELS

- **NPB 2018** aims to increase **biofuel production** and establish a **sustainable biofuel ecosystem** in India.
- The government aims to meet **20% of India's diesel demand** using biofuels, which will require:
 - Significant **land resources**
 - Major **investment**
- The **NPB 2022 amendment** advanced the target for achieving **20% bioethanol blending in petrol to 2025-26** and expanded the range of eligible feedstocks.

CHALLENGES & OPPORTUNITIES

Challenges:

- Need for **research and development**
- **Technology transfer** to improve biofuel production
- **Mainstreaming biofuel adoption**
- Promoting **sustainable production practices**

ADDRESS:

19/1A Shakti Nagar, Nagiya Park Near Delhi University, New Delhi - 110007 (India)



VAJIRAO & REDDY INSTITUTE

India's Top Potential Training Institute for IAS

+918988885050



+918988886060

www.vajiraoinstitute.com



info@vajiraoinstitute.com

Opportunities:

- Reducing **greenhouse gas emissions**
- Improving **air quality**
- Promoting **rural development**

CONCLUSION

Biofuels are a **promising alternative** to **fossil fuels**, offering a pathway toward **sustainable energy production** and **consumption**. By addressing the **challenges** and leveraging the **opportunities**, India can use biofuels to Achieve **energy security**, Promote **environmental sustainability**, Drive **economic growth**.

ADDRESS:

19/1A Shakti Nagar, Nagiya Park Near Delhi University, New Delhi - 110007 (India)



VAJIRAO & REDDY INSTITUTE

India's Top Potential Training Institute for IAS

+918988885050



+918988886060

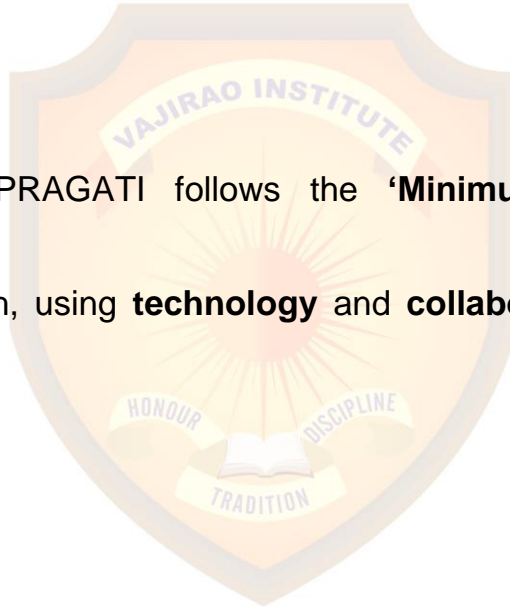
www.vajiraoinstitute.com



info@vajiraoinstitute.com

PRAGATI: DRIVING INDIA'S DEVELOPMENT WITH PURPOSE

- The **PRAGATI** (Pro-Active Governance and Timely Implementation) initiative has played a significant role in accelerating **infrastructure development** and improving **governance** in India.
- Launched in **2015**, PRAGATI follows the '**Minimum Government, Maximum Governance**' approach, using **technology** and **collaboration** to speed up progress and reduce delays.



KEY FEATURES

PRAGATI focuses on **collaboration**, **transparency**, and **technology** to ensure efficient project management and **timely implementation**. Some of its key achievements include:

- **340 stalled projects** worth **Rs 17.05 lakh crore** (\$205 billion) have been reviewed since its launch.
- **Significant reduction in delays** and **improved completion timelines**.

ADDRESS:

19/1A Shakti Nagar, Nagiya Park Near Delhi University, New Delhi - 110007 (India)



VAJIRAO & REDDY INSTITUTE

India's Top Potential Training Institute for IAS

+918988885050



+918988886060

www.vajiraoinstitute.com



info@vajiraoinstitute.com

- **Streamlined environmental and forest clearances**, reducing approval times:
 - Environmental clearance approval time dropped from **600 days** to **70-75 days**.
 - Forest clearance approval time dropped from **300 days** to **20-29 days**.
- **Improved grievance redressal mechanisms**, such as **CPGRAMS**, and reduced passport issuance times.

IMPACT ON KEY PROJECTS

PRAGATI has been instrumental in accelerating several important infrastructure projects, including:

- **Bogibeel Rail and Road Bridge**: Completed in **3 years** after **over two decades** of delays.
- **Jammu-Srinagar Baramulla Rail Link**: On track for completion by **2025**, overcoming years of stagnation.
- **Navi Mumbai Airport**: Resolved **land acquisition hurdles**, set for launch by **December 2024**.

ADDRESS:

19/1A Shakti Nagar, Nagiya Park Near Delhi University, New Delhi - 110007 (India)



- **Bengaluru Metro Rail:** Expedited **land acquisition** for **Phase 1**, enabling the metro's launch in **2017**.
- **Haridaspur-Paradeep Rail Connection:** Resolved funding and **land acquisition issues**, leading to the **inauguration** of the rail line in **2020**.
- **Dahisar-Surat Section, National Highway 8:** Enabled progress on the service road, with safeguards for wildlife and compensation for landowners.
- **Varanasi-Aurangabad Section, National Highway 2:** Addressed **land record challenges**, speeding up the project's completion.

LEADERSHIP & GOVERNANCE

PRAGATI has created a culture of **transparency** and **responsiveness** within the government. Key aspects include:

- Use of **real-time data** and **proactive problem-solving**.
- Promotion of **cooperative federalism**, with both **Central** and **state governments** working together for shared goals.

ADDRESS:

19/1A Shakti Nagar, Nagiya Park Near Delhi University, New Delhi - 110007 (India)



INFLUENCE ON OTHER SCHEMES

PRAGATI's success has driven technology adoption in several other important government schemes, including:

- **Swachh Bharat Mission:** Built **12 crore toilets** and created **ODF (Open Defecation Free)** villages.
- **Jal Jeevan Mission:** Increased **tap water access** for rural households from **17% in 2019 to 74% in February 2024**.
- **Saubhagya Scheme:** Achieved **universal electrification**.
- **Vibrant Villages Programme (VVP):** Transformed **46 Northeast villages** into India's 'First Villages'.
- **Light House Projects:** Promoted innovation in **housing construction** with **digitized technology**.
- **SVAMITVA Initiative:** Enabled **legal land ownership records** for rural residents using **drone technology**.

ADDRESS:

19/1A Shakti Nagar, Nagiya Park Near Delhi University, New Delhi - 110007 (India)



VAJIRAO & REDDY INSTITUTE

India's Top Potential Training Institute for IAS

+918988885050



+918988886060

www.vajiraoinstitute.com



info@vajiraoinstitute.com

GLOBAL BENCHMARK FOR GOVERNANCE

PRAGATI has set a **global benchmark** for governance by promoting:

- **Transparency, accountability, and efficiency** in project implementation.
- The use of **technology** like **drone feeds** and **GPS tracking** for real-time data collection and **quick decision-making**.
- **Digital dashboard approach** for enhanced project oversight across sectors.
- Fostered **public participation** through a robust **feedback loop**, allowing citizens to directly influence governance.

CONCLUSION

PRAGATI has transformed **governance** in India, showcasing the power of **technology, collaboration, and decisive leadership** in driving development and achieving tangible results. Its success serves as an inspiration for other countries aiming to improve **infrastructure delivery** and enhance **governance effectiveness**.

ADDRESS:

19/1A Shakti Nagar, Nagiya Park Near Delhi University, New Delhi - 110007 (India)