

GOBARdhan

Mains: *GS III - Infrastructure*

Why in News?

Recently, the Union Cabinet approved GOBARdhan - National Circular Bioenergy Scheme to boost domestic Compressed Bio Gas (CBG) and energy security.

What is GOBARdhan?

- **GOBARdhan - Galvanizing Organic Bio-Agro Resources Dhan**, was originally launched under the Swachh Bharat Mission (Grameen) in 2018.
- **Nodal Ministry** - Ministry of Petroleum and Natural Gas (MoPNG)
- **Implementation Period** - FY 2026-27 to FY 2035-36
- **Integral component of** - Solid and Liquid Waste Management (SWM), converting bio-waste - animal waste, kitchen leftovers, crop residue and market waste, into biogas and bio-slurry, thereby ensuring cleanliness in villages and improving rural lives.
- **Objectives**
 - To increase nearly ten-fold domestic CBG production.
 - Mobilize large-scale private investment.
 - Create a vibrant circular bioeconomy across the country.
- **Vision**
 - India's waste will fuel India's growth.
 - India's villages will become centres of clean energy production.

- India's farmers will become partners in the nation's energy security.

What are the six growth engines under GOBARdhan?

- **Assured CBG Offtake** - It establishes a dedicated CBG Offtake Assurance framework to provide a reliable and predictable market for producers.
- Procurement by City Gas Distribution (CGD) entities will support achievement of the notified CBG Obligation trajectory:
 - 3% in FY 2026-27
 - 4% in FY 2027-28
 - 5% from FY 2028-29 onwards in CNG (Transport) and PNG (Domestic) segments
- This framework turns blending obligation into long-term demand signal, boosting bankability, utilization, and private investment.
- **Stable CBG Pricing Framework** - It introduces a government-backed administered price of Rs 2,110 per Metric Million British Thermal Unit (MMBTU).
- It is equivalent to ₹105 per kilogram of CBG, ensuring stable and remunerative pricing.
- Pricing framework ensures 10-year revenue certainty with government support and cost-sharing, balancing producer returns and consumer affordability.



- **Capital Assistance** - Eligible greenfield CBG projects will receive capital assistance of up to Rs. 2 crore per ton per day (TPD) of installed CBG capacity.
- Support covers value-chain assets and brownfield expansion, reducing capital burden and enabling wider private, MSME, cooperative, and rural participation.
- **Development of Pipeline Infrastructure** - It supports both cluster-based and standalone pipeline infrastructure connecting CBG plants with trunk pipelines and City Gas Distribution networks.
- Greater pipeline connectivity will reduce evacuation costs, improve reliability, expand market reach and enable higher utilization of domestically produced CBG.

- **Credit Guarantee Support** - Credit Guarantee Mechanism boosts lender confidence and expands MSME access to institutional finance for CBG projects.
- The mechanism will provide credit guarantee coverage of up to **85 %** on eligible loans for such projects.
- By sharing lending risk, the mechanism enables affordable finance, lowers collateral needs, speeds project development, and broadens MSME, women, and new-developer participation in a competitive CBG industry.
- **CBG Ecosystem Challenge Fund** - It establishes a dedicated CBG Ecosystem Challenge Fund to accelerate district-level implementation and strengthen local value chains across the CBG ecosystem.
- The Fund will support:
 - Feedstock resource assessment and mapping
 - Feedstock aggregation infrastructure
 - District-level CBG development planning
 - Technology adoption and process improvement
 - Value addition of organic manure
 - Capacity building and stakeholder awareness

GOBARDhan Unified Registration Portal: Provides a single national platform for CBG/Bio-CNG plant operators and developers to obtain a registration number, which is mandatory to access MoPNG benefits and support.



What are the expected outcomes of GOBARdhan?

- **Growth & Security** - Ten-fold surge in CBG output builds a clean gas pillar and enhances energy security by cutting fossil fuel imports.
- **Investment & Rural Empowerment** - Stable finance and project viability spur private investment while creating new income opportunities for farmers, cooperatives, and rural entrepreneurs.
- **Scientific Waste Utilization** - Productive use of agri-residue, dung, municipal waste, and biomass.
- **Emission Reduction** - Lower GHGs via fossil fuel replacement and organic waste use.
- **Organic Manure Economy** - Expansion through higher production, value addition, and FOM/LFOM use.
- **Streamlined Implementation** - Faster projects via one national framework, digital governance, and simplified institutions.

What are the benefits of GOBARdhan?

- **Production Growth** - Compressed biogas (CBG) output increased tenfold, which stimulated significant private sector investment.

- **Foreign Exchange Savings** - Over ₹40,000 crore saved as a result of reduced energy imports.
- **Fuel Substitution** - Clean gas replaced 10 million metric tonnes (MMT) of fossil fuels.
- **Economic Contribution** - The initiative contributed over ₹75,000 crore to the gross domestic product (GDP).
- **Employment** - More than 150,000 jobs were created throughout the value chain.
- **Climate Impact** - Waste diversion efforts prevented 40 million tonnes (MT) of carbon dioxide (CO₂) emissions.
- **Agricultural Support** - Production of 250 million metric tonnes (MMT) of organic fertilizer enhanced soil health.

What lies ahead?

- GOBARdhan will scale India's CBG journey from a strong base to a nationwide clean energy industry, reinforcing energy security, rural prosperity, waste-to-wealth, Atmanirbhar Bharat, and Viksit Bharat.

Reference

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