



# Ecodhara Magnatek



Ecodhara Magnatek stands as a preeminent biogas EPC company, acclaimed for its exceptional prowess in design, engineering, procurement, and construction. Our specialization encompasses the entire value chain of biogas and biomethane plants and precisely developed to maximise return on investment, using decades of extensive engineering, operations, and maintenance expertise. We efficiently manage feedstock and the sales of biogas and its by-products, ensuring lasting customer relationships through comprehensive project support and dedicated after-sales service.



#startupindia



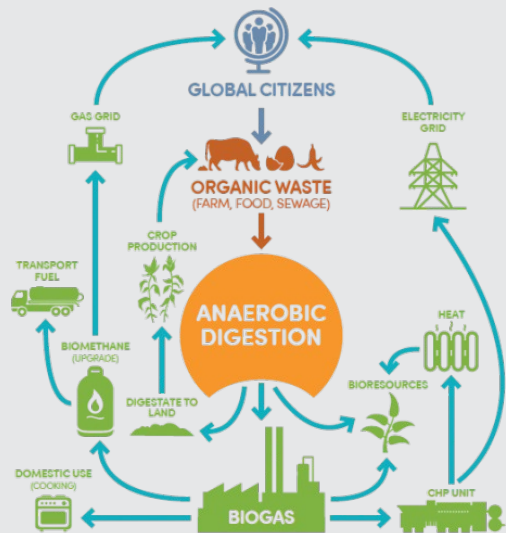
## Ecodhara Magnatek Private Limited

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# ABOUT TECHNOLOGY

Our Bio CNG production plant transforms organic waste into clean, renewable fuel. Utilizing state-of-the-art technology, we ensure high efficiency and low emissions. With our Bio CNG production technology, you can produce a green and sustainable source of energy.



## Biogas use

- Renewable Natural Gas pipeline injection
- Bio-CNG for vehicle fuel
- Cooking fuel
- Electricity Generation
- Bio-CNG for heating and cooling
- Bio-CO<sub>2</sub>

## Organic Fertiliser (PROM)-

Restore organic carbon content in soil through digestate fertilizer use



BIOGAS CAN REDUCE  
GLOBAL GHG  
EMISSIONS  
BY 18-20%



## Ecodhara offers following Services:

### Planner/manufacture of biogas plants

- Project development/planning
- Full-system suppliers/turnkey plants
- Arranging permitting
- Construction and commissioning support

### Operators of biogas plants

- Biogas plant
- Biomethane plant

### Manufacturers/suppliers of plant components

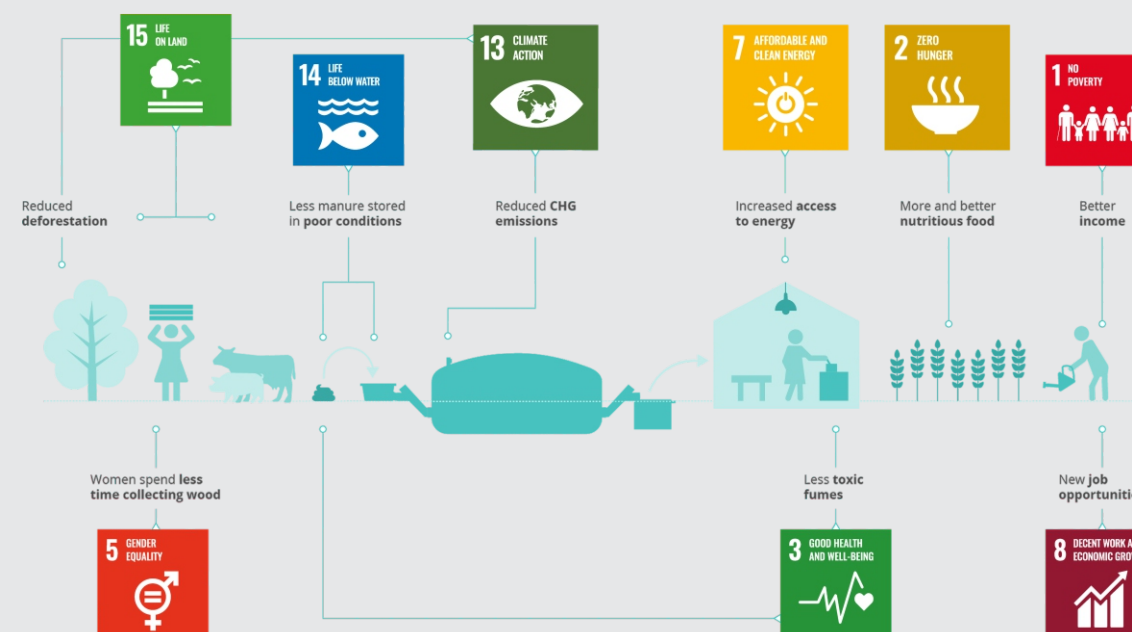
- Connection to gas grid
- Control & instrumentation systems
- Other energy conversion technologies (e.g. ORC, fuel cells)
- Substrate preparation and processing
- Waste treatment
- Water treatment

### Services / consulting

- Consulting
- Legal advice/legal support
- Financing
- Insurance
- Direct marketing of gas
- Direct marketing of fertilisers

## IMPACT

The CBG sector provides significant impacts, including decreased import expenses, clean fuel production, job creation, reduction in greenhouse gas emissions, and bio-fertilizer production. These benefits contribute to enhanced energy security, minimized environmental harm, improved income for farmers, and the advancement of sustainable agricultural methods.



“Dual Fuel CBG tractor can save upto Rs. 1.5 - 2 lakhs on fuel cost per year”

## Value added products

- Renewable natural gas (RNG)
- Green hydrogen
- Biodegradable planter pots





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### Waste Steam to Power Generation:

The ERP System can replace existing PRVs to generate electricity while providing steam for industrial processes. This system allows the plant to recover available energy and offers an efficient way to reduce steam pressure for various process requirements while generating clean electricity. The ERP system includes a turbine, which can be single-stage or multistage, depending on the plant's operating parameters. With our technology, you can achieve high returns with a small installation footprint, harnessing waste steam for power generation with turbine capacities ranging from 30KW to 1MW.

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### Wastewater Treatment:

Our wastewater treatment services employ state-of-the-art technologies to ensure efficient and effective purification processes. We provide comprehensive solutions that cater to diverse treatment needs, ensuring that wastewater is safely and sustainably managed. We have partnered with disruptive global technologies for STPs, ETPs, and ZLDs to offer customized solutions. Our advanced systems are designed to meet stringent environmental standards, promoting a cleaner and healthier environment.

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