



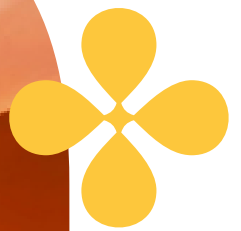
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WEEKLY MEMBER SPOTLIGHTS






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 BIO GAS

ABOUT

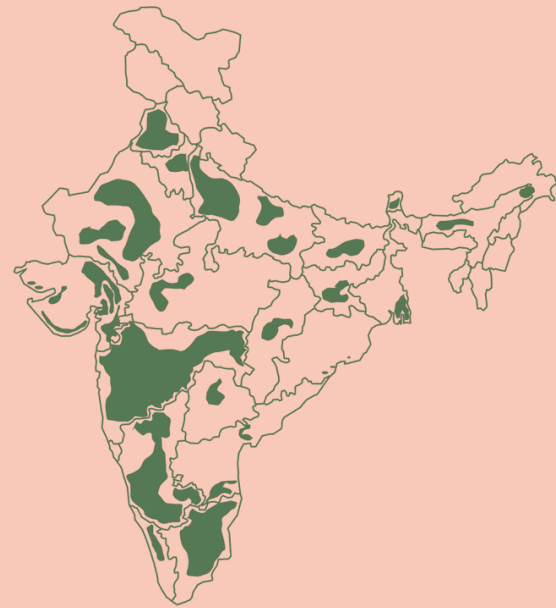
Sistema.bio is a global social enterprise that provides access to innovative biodigester technology, training, and financing to address the challenges of poverty, food security, and climate change. The company manufactures and distributes high-quality, affordable biodigesters that enable farmers to convert organic waste into renewable energy and organic fertilizer. This helps reduce reliance on fossil fuels for cooking and electricity, minimizes the use of chemical fertilizers, and promotes sustainable agricultural practices.

The biodigesters are designed to meet the specific needs of smallholder farmers while addressing key issues such as waste management and greenhouse gas emissions. Working together with farmers worldwide, Sistema.bio delivers high-quality carbon mitigation, sequestration, and climate change adaptation programs backed by Measurement, Reporting, and Verification (MRV) systems supported with IoT technology. These initiatives not only help farmers reduce their carbon footprint but also enhance productivity, improve health outcomes, and promote regenerative agriculture.

Headquartered in Pune, Sistema.bio has a team of over 850 professionals working with more than 1,25,000 smallholder farmers across 23 states in India. The state-of-the-art manufacturing facility in Chakan, Pune, spans 1,30,000 sq. ft. and has an annual production capacity of 1,00,000 units, making it the world's largest manufacturing facility for biogas plants. The facility caters to Sistema.bio growing demand across Asia and Africa while providing employment to over 150 people.

Current Operation Areas

Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Chhattisgarh, Delhi, Gujarat, Haryana, Jharkhand, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Meghalaya, Odisha, Punjab, Rajasthan, Sikkim, Tamil Nadu, Telangana, Uttar Pradesh, Uttarakhand, West Bengal



Map. Current Operation Areas (India)

TECHNOLOGY

Modern biogas plants by Sistema.bio are modular, prefabricated systems that convert animal waste into clean energy and organic fertilizer, giving farmers a reliable and sustainable solution. They process cattle dung, pig waste, and poultry waste by mixing it with water in a 1:2 ratio (where 1 is dung & 2 is water), where anaerobic digestion produces biogas and biofertilizer.

Key Specifications:

- **Durable Material:** Built with LLDPE (Linear Low-Density Polyethylene) – UV-resistant, non-flammable, high tensile strength, and superior impact resistance.
- **Longevity:** Designed for a lifespan of 15–20 years.
- **MNRE Approved:** Certified by the Ministry of New and Renewable Energy (MNRE) for safety and quality.
- **Warranty:** Comes with a 10-year warranty on the reactor.
- **Quick Installation:** No foundations or brick/cement work needed; installation completed within 7 days.
- **Scalable Capacity:** Available in sizes ranging from 2m³ to 75 m³.
- **Comprehensive Package:** Includes cookstove, piping, and all essential connections for immediate use.
- **Low Maintenance:** Easy to operate, minimal upkeep required, and supported with free training and after-sales service.

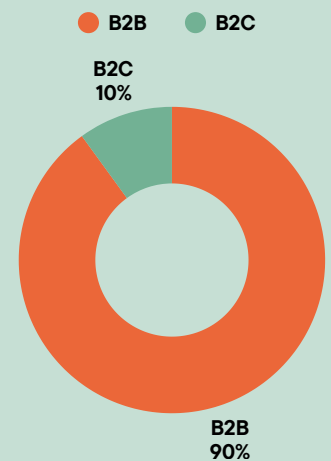


Chart. Market Segment

BUSINESS MODEL

Sistema.bio reaches communities through Agricultural Training Hubs that demonstrate regenerative practices powered by its biogas technology. These hubs act as training and demonstration centers, building local capacity and trust in the system.

From each hub, local technicians are trained and employed to promote, install, and maintain biodigesters. In partnership with farmer organizations, NGOs, MFIs, and development agencies, Sistema.bio expands access and affordability.

Support for the initiative helps establish new hubs, train local technicians, and scale sustainable energy solutions — each hub strategically positioned to reach hundreds of thousands of farmers and drive lasting environmental and economic impact.



IMPACT

Through its innovative biogas technology and community centric approach, Sistema.bio continues to generate tangible social, economic, and environmental impact worldwide.

Systems Installed: 1,25,000+ biodigesters providing clean energy and organic fertilizer

People Impacted: 6,73,000+ individuals benefiting from access to clean and affordable energy

Waste Treated: 2,33,85,701+ tons of waste converted into renewable energy and biofertilizer

CO₂e Emissions Mitigated: 9,96,016+ tons of emissions reduced, advancing global climate goals



Way Forward

Sistema.bio aims to empower one million farmers across India by 2030 with modern biogas plants. By doing so, the company aspires to help reduce 1% of global annual greenhouse gas emissions by 2030.



To achieve this vision, Sistema.bio remains focused on building farmer awareness, simplifying technology adoption, and strengthening after-sales support. By addressing barriers related to cost, complexity, and limited training, the company is scaling partnerships, improving financing models, and expanding rural service networks to ensure clean energy reaches every farm that needs it.



Alignment with SDG Goals



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