

ECONOVA ANAEROBIC BIODIGESTER

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is an advanced system that transforms organic
waste into clean, renewable energy.



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The Econova Anaerobic Biodigester is an advanced system that transforms organic waste into clean, renewable energy. Through anaerobic digestion, specialized microbes break down waste in an oxygen-free environment, producing biogas rich in methane and carbon dioxide. This eco-friendly energy source can power cooking, heating, electricity generation, and even serve as vehicle fuel when upgraded to biomethane

What Makes the Econova Anaerobic Biodigester Exceptional ?



Renewable Energy:

Reduces dependence on fossil fuels by generating clean, sustainable energy

Waste Reduction:

Optimizes the composting process with minimal human effort, saving time and costs.

Improved Soil Health:

Operates with low power consumption and requires no additional additives.

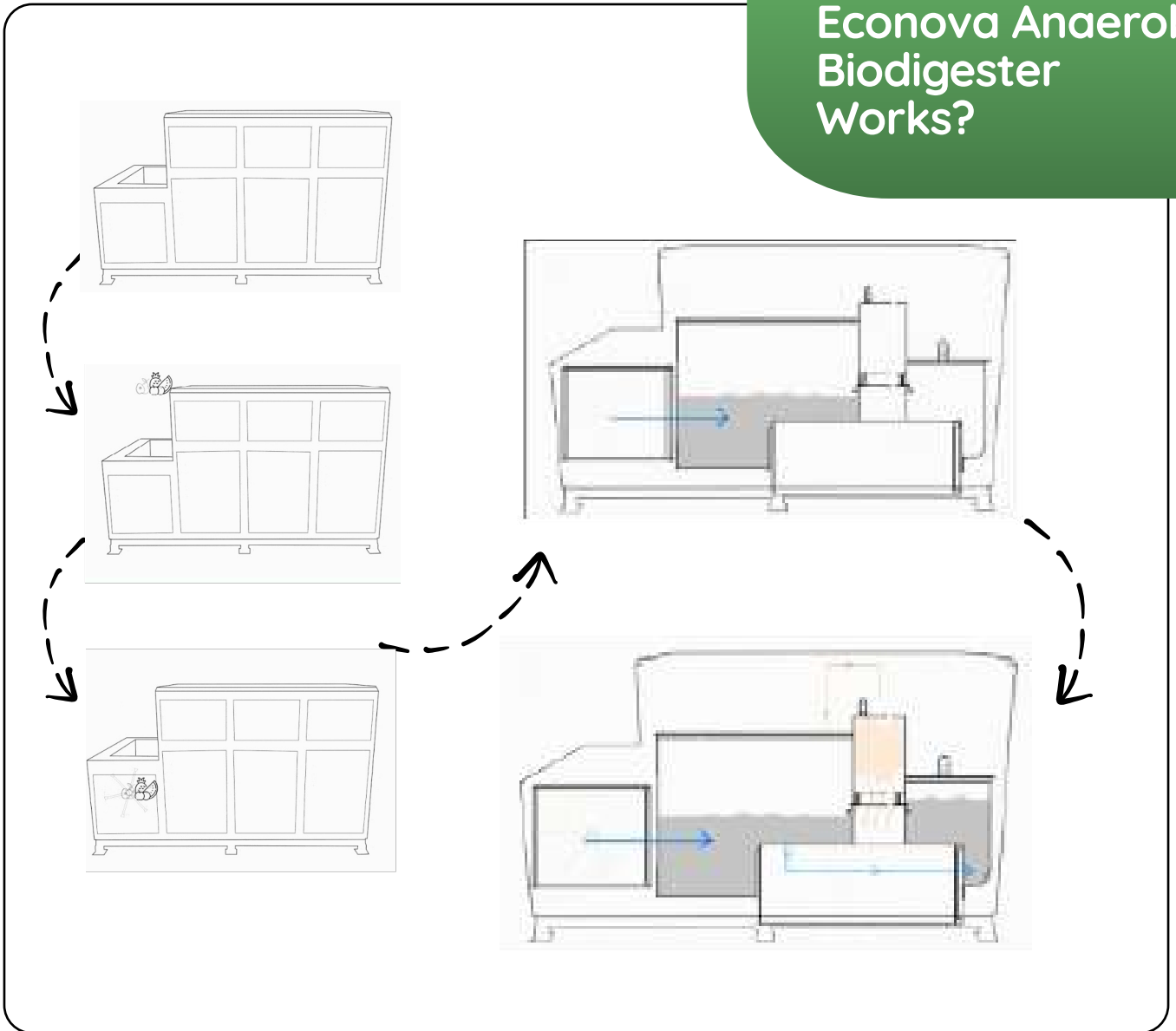
Lower Greenhouse Gas Emissions:

Expels harmless water vapor through a drainage system, ensuring mess-free operation.

Range of Capacities :

Econova Anaerobic Biodigester is available in a range of capacities, from 220 lbs to 5,500 lbs, making it suitable for both small-scale and large-scale composting needs.

How the Econova Anaerobic Biodigester Works?



1. Pre-Treatment: Waste Loading & Feeding:

Organic waste is first placed into the segregation unit, where it is sorted to remove non-biodegradable materials.

2. Fermentation in the Digester:

Inside the digester, the organic material is heated to specific temperatures, creating optimal conditions for microorganisms to break down the waste.

3. Biogas Production & Collection:

As microorganisms digest the organic matter, biogas is naturally produced and collected for further processing.

4. Extracting the Digestate:

The remaining byproduct, known as digestate, is removed from the system.

5. Purification:

Before use, the biogas undergoes purification, where water, hydrogen sulfide, and impurities are removed. The result is biomethane,

SECTORS WE SERVE



Food & Hospitality

Hotels, Resorts, Restaurants, Cafeterias, Canteens, Villas, Food Processing Plants, Food Delivery Services



Healthcare & Wellness

Hospitals, Rehabilitation Centers, Wellness Centers



Education & Institutions

Schools, Colleges, Universities, Government Institutions



Retail & Commercial

Malls, Supermarkets, Corporate Campuses, Convention Centers



Community & Public Services

Places of Worship, Devotional Centers, Municipalities, Corporations, Prisons, Correction Facilities, Food Banks, Non-Profit Organizations



Agriculture & Farming

Animal Farms, Agriculture Farms, Farmers Markets, Landscaping Companies



Residential & Apartments

Apartments, Townships, Bungalow

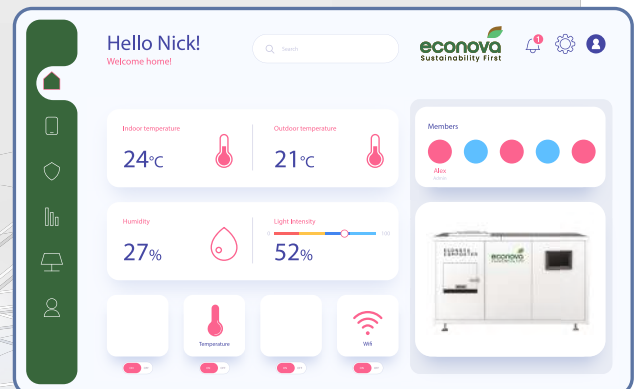


Events & Public Gathering

All types of Event Venues, Festivals

CLOUD COMPOSTING

Our cloud-enabled systems offer real-time monitoring and data analytics, providing full visibility into the composting process. Track waste diversion, landfill reduction, compost and biogas output, and carbon footprint impact with precision. Designed for efficiency, our plug-and-play installations make setup effortless, while advanced safety features guarantee reliability.





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