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SIMPLY WASTE ?

A monthly newsletter on waste

SOURCE : CANVA

IN THIS ISSUE

800+
Biogas plants installed

22,995
Tons of CO_2 offset every year

547
Tons of LPG substituted every year

28.8
Lakh liters of organic manure generated every year

Green Connect®
Resource Management Solutions
ISO 9001:2015

S. Manikandan of Coimbatore Turns Food Waste into Cooking Fuel with Green Connect's GASTODAY Biogas Plant

In a remarkable sustainability move, S. Manikandan, a resident of Coimbatore, has taken the initiative to reduce food waste and utilize it as a renewable energy source. In April 2023, he installed a Green Connect Biogas Plant called GASTODAY in his home, marking a significant step towards eco-friendly living.

Manikandan's journey into biogas began when he stumbled upon the Green Connect YouTube channel, where he learned about the concept of using food waste to produce biogas for cooking. Green Connect introduced him to GASTODAY, a domestic biogas plant designed to convert leftover food, vegetables, and organic waste into usable biogas. Manikandan was impressed with the concept and eagerly agreed to proceed with the installation.

Upon completing the installation process, the initial step in launching GASTODAY is to put 100 kg of fresh cow dung into a bucket, ensuring a 1:2 ratio with water. This mixture forms the foundation for biogas production. Once the gas begins to form, we can proceed to add food waste into the system. Initially, there were challenges as the biogas production did not meet expectations due to the use of non-fresh cow dung. However, after switching to fresh cow dung, the biogas production improved significantly. Today, Manikandan's household relies on 45 to 1 hour of biogas daily for cooking, effectively reducing their dependence on conventional cooking fuels.

This sustainable choice not only benefits Manikandan's household but also contributes to waste management in the community. It's a commendable example of how individuals can play a crucial role in promoting eco-conscious practices while embracing innovative solutions like the GASTODAY biogas plant from Green Connect. Manikandan's story serves as an inspiration for others to explore sustainable alternatives and make a positive impact on the environment.

Pugalanthi's Green Revolution: Transforming Food Waste into Cooking Fuel with GASTODAY

In January 2023, Pugalanthi, a resident of Karur, embarked on a sustainable journey by installing a Green Connect biogas plant known as GASTODAY at his home. His vision was simple yet impactful: to harness the potential of food waste and convert it into a clean and renewable source of cooking fuel.

Pugalanthi's journey began when he reached out to Green Connect. Green Connect offered an innovative domestic biogas plant called GASTODAY, designed to process leftover food, vegetables, and organic waste through anaerobic bacterial digestion.

Today, Pugalanthi is reaping the benefits of his decision. He utilizes food waste, rice starch, and even tea waste to produce approximately 45 to 1 hour of biogas daily. What's remarkable is that he encounters no issues with GASTODAY, thanks to his diligent maintenance of a pH level between 6 and 7—a crucial factor for efficient gas generation. To assess the health of Gastoday plants , he uses pH paper to test the water from the outlet.. A pH reading of 6-7 indicates a healthy condition, while 1-5 signifies acidity.

The installation of GASTODAY at Pugalanthi's home offers an eco-friendly cooking solution while addressing waste management. This small initiative plays a crucial role in reducing environmental impact, fostering a greener future. Pugalanthi's story is an inspiring testament to individual efforts in promoting sustainability through innovative solutions like GASTODAY. His choice highlights biogas as a cleaner and sustainable household alternative, effectively managing food waste while cooking responsibly.

Casa Grand Villas at coimbatore Embrace Sustainability with Organic Waste Composter

In October 2019, Casa Grand, a prominent real estate developer, embarked on a journey towards sustainable living by installing an organic waste composter (OWC) at their villas. Their vision was clear: to transform food and vegetable waste into a valuable resource through the creation of a biogas plant. To turn this vision into reality, Casa Grand sought the expertise of Green Connect, a leading eco-friendly solutions provider.

Understanding that a biogas plant may not efficiently cater to all residents in their villas, they have chosen to introduce organic waste composters for gardening purposes. This eco-friendly solution not only reduces organic waste but also provides nutrient-rich compost for gardening, fostering a greener and more sustainable lifestyle within their villa community.

The OWC machine adopted by Casa Grand is a semi-automatic composter, designed to handle 100 kg of food and vegetable waste. The process begins with the machine crushing and separating the waste into liquid and solid components.

Over a period of 21 days, the waste undergoes decomposition, transforming into nutrient-rich compost suitable for gardening.

By implementing this sustainable solution, Casa Grand not only reduces their environmental footprint but also reaps the benefits of organic compost for their lush gardens. This initiative showcases Casa Grand's commitment to eco-conscious living and serves as an inspiration for other communities to follow suit in adopting organic waste management systems. Casa Grand's embrace of the OWC technology is a testament to their dedication to a greener and more sustainable future.

KH Exports: Leading the Way in Sustainable Manufacturing with Biogas Solutions

KH Exports, a dynamic global leader in the export industry, has earned a stellar reputation for its exceptional range of high-quality leather products and unwavering commitment to excellence. While they offer a diverse array of items like shoes, gloves, wallets, belts, and bags, what sets KH Exports apart is their dedication to sustainability.

In 2016, KH Exports took a significant step towards eco-friendliness. After coming across an article about Green Connect's innovative approach to converting food waste into biogas and effective waste management, they were inspired to make a change. Impressed by the concept, KH Exports promptly installed a biogas system in their Chennai manufacturing unit's canteen.

The success of this initiative led KH Exports to implement biogas plants in two more units, located in Vellore. Not only did this reduce their reliance on LPG, resulting in cost savings, but it also showcased theircommitment to environmental sustainability through effective waste management.KH Exports is not just a leader in manufacturing quality leather products; they are also champions of responsible and eco-conscious business practices.

KH Exports Facility with Green Connect Biogas

Place	: Poondhamalli
Year of Installation	: 2016
Plant capacity	: 400 kg/day
Biogas produced	: 40 Cubic Meter/ day
LPG Equivalent	: 20 kg / day
Manure capacity	: 800 liter
Accessories used	: Crusher, blower, biogas storage balloon
Type waste generated	: Food Waste

Place	: Vellore
Year of Installation	: 2017
Plant capacity	: 150 kg/day
Biogas produced	: 15 Cubic Meter/ day
LPG Equivalent	: 7.5 kg / day
Manure capacity	: 300 liter
Accessories used	: Crusher, blower, biogas storage balloon
Type waste generated	: Food Waste

Place	: Vellore
Year of Installation	: 2017
Plant capacity	: 250 kg/day
Biogas produced	: 25 Cubic Meter/ day
LPG Equivalent	: 12 kg / day
Manure capacity	: 500 liter
Accessories used	: Crusher, blower, biogas storage balloon
Type waste generated	: Food Waste

Sustainable Development Goals Achived by Using Biogas

Green Connect September'23 Update

Commercial Projects:

- Saveetha University, Chennai, TN - Set to install a 500 kg food waste plant.
- Dhanraj Baid Jain College, Chennai, TN - Set to install a 30 kg food waste plant.

Accessories Delivered:

- Chettinad Cement Corporation Pvt Ltd, Ariyalur, TN - Biogas Blower have been supplied and installed.
- Venkatesan Kaveesh Biogas FR, PondicherryP TN - SS Stove with 45cft burner has been Supplied.

Service Projects:

- The Ramco Cement Limited, Alathiyur, TN - Food waste crusher has been serviced

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