

SIMPLY WASTE ?

A monthly newsletter on waste



SOURCE: CANVA

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GREEN CONNECT AUGUST'23 UPDATE



800+

Biogas plants installed



22,995

Tons of CO₂ offset every year



547

Tons of LPG substituted every year



28.8

Lakh liters of organic manure generated every year

Revolutionizing Cooking Fuel: Swarna Latha's Journey with GASTODAY



In Salem, Tamil Nadu, resides Mrs. Swarna Latha. Her life took an unexpected turn in July 2022 when she attended the Agriculture Product Expo in Salem. Little did she know that this visit would lead to a profound transformation in her life and a promising change for farmers in her community.

At the expo, Green Connect showcased a groundbreaking product called "GASTODAY." What intrigued Swarna Latha the most was its ability to convert food waste into biogas, a clean and sustainable cooking fuel. As an advocate for farmers, she saw the potential of this innovation and immediately wanted to introduce it to her community.

To understand the product's effectiveness, Swarna Latha purchased GASTODAY for her personal use. Over a year, she closely monitored its performance and shared her feedback. Her experience was nothing short of remarkable. She revealed that she could generate 45 minutes of cooking gas. This significantly reduced her reliance on traditional LPG cylinders, with bookings now only required every 2.5 months.

Addressing a common concern, Swarna Latha confirmed that the biogas produced by GASTODAY was completely odor-free, dispelling any doubts about its convenience and cleanliness.

What makes Swarna Latha's journey even more commendable is her commitment to educating farmers about the benefits of biogas. By adopting GASTODAY not just for personal use but also as an advocacy tool, she sets a shining example for the agricultural community.

Green Connect extends its heartfelt appreciation to Swarna Latha for her dedication and initiative. Her story showcases the potential of innovations like GASTODAY to bring positive change to farmers' lives and contribute to a sustainable future. We wish Swarna Latha continued success in her mission to create a greener, more efficient, and cost-effective future for all. Swarna Latha's commitment to innovation and sustainability is an inspiration to us all.

Revolutionizing Farming in Salem: Nithya's Biogas Journey



In April 2023, Nithya, a dedicated farmer from Ayothiyapattinam, Salem, embarked on a journey towards sustainability by installing the innovative Green Connect Biogas system at her home. With a small herd of six cows to care for, Nithya had been relying on firewood for cooking their food. However, she envisioned a more eco-friendly approach and turned to biogas, with cow dung as the primary input.

Green Connect was quick to respond to Nithya's inquiry, having just completed research and development on an innovative biogas model. This new system boasted the unique capability of producing high-pressure gas without the need for a booster, making it a perfect fit for Nithya's needs. Thrilled with the proposition, Nithya became the proud owner of the very first Green Connect Biogas system of its kind.

Since its installation, Nithya has been utilizing biogas for her daily cooking needs, enjoying

up to three hours of uninterrupted cooking time. Not only has this transition freed up a significant amount of her daily schedule, as she no longer needs to collect firewood or struggle with traditional cooking methods, but it has also proven to be a safe and efficient alternative.

Furthermore, the Green Connect Biogas system provides Nithya with a valuable byproduct: nutrient-rich manure. She cleverly repurposes this organic treasure in her garden and around her trees, enhancing soil fertility and promoting a thriving green oasis on her farm.

Nithya's story serves as an inspiring testament to the transformative power of sustainable technology in agriculture. The Green Connect Biogas system not only reduces her carbon footprint but also enhances her daily life as a farmer. It is a beacon of hope for others seeking to adopt eco-friendly practices while reaping the benefits of modern technology in their farming endeavors.

Yoga Prana Vidya Ashram's Green Initiative: Transforming Food Waste into Sustainable Energy



In 2021, Yoga Prana Vidya Ashram took a significant step toward environmental responsibility by partnering with Green Connect to address their kitchen food waste management. Nestled in a scenic, pollution-free, and tranquil environment, the ashram has long been a haven for individuals seeking holistic healing, meditation, and spiritual growth.

The collaboration with Green Connect began with a comprehensive assessment of food waste generation within the ashram. The results were eye-opening, revealing that an astonishing 75 kilograms of food waste were generated daily. Armed with this data, Green Connect proposed the installation of a 75 kg food waste biogas plant.

This innovative system had the potential to produce 10 cubic meters of biogas daily, equivalent to the energy provided by 5 kilograms of LPG.

While the financial savings from reduced LPG consumption were significant, Yoga Prana Vidya Ashram's primary motivation was not monetary gain but rather a commitment to environmental stewardship. Their decision to install a biogas plant was driven by a desire to reduce their carbon footprint and contribute positively to the planet.

The implementation of the biogas plant has been a resounding success, with Yoga Prana Vidya Ashram using the generated biogas efficiently. Their journey has been marked by minimal issues, with the replacement of a biogas booster being the only notable maintenance requirement. This seamless transition to sustainable energy sources exemplifies the ashram's dedication to both spiritual growth and environmental well-being, making it a shining example of eco-conscious living.

Eco-Friendly Greywater Treatment at Le Yercaud Resort



Green Connect has recently undertaken a commendable project aimed at treating the graywater (Gray water is wastewater generated from sources other than toilets, such as sinks, showers, and laundry) produced by the picturesque Le Yercaud Resort. This initiative showcases the organization's commitment to sustainable, eco-friendly solutions for water management. The project's success lies in its innovative use of DEWATS (Decentralized Wastewater Treatment System) technology, which not only preserves precious resources but also operates without the need for electricity.

At the heart of this project is a meticulously designed system capable of treating 1000 liters of greywater, a design skillfully crafted by one of Green Connect's own experts. To implement this design, prefabricated tanks were supplied and swiftly installed, taking just a week for erection and commissioning. Remarkably, the entire system is installed underground, minimizing visual impact and harmonizing with the resort's lush surroundings.

The DEWATS technology employed here is a three-step process that relies on natural mechanisms. It begins with anaerobic digestion, where microorganisms break down organic matter, followed by aeration. During the aeration process, the utilization of canna Indica plants helps absorb the nutrient content from the gray water, facilitating additional purification. Finally, UV treatment is utilized to ensure the water reaches the desired clarity. The result is pristine, treated water that aligns with the highest environmental standards.



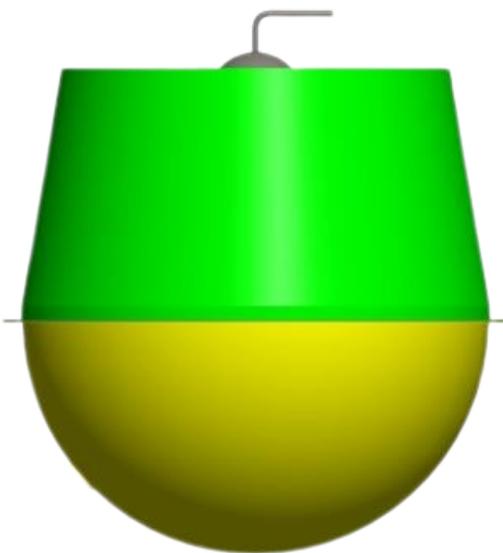
Eco-Friendly Greywater Treatment at Le Yercaud Resort

This treated water finds a valuable purpose in the resort's gardens, where it nourishes the lush greenery, creating a sustainable cycle of water use. Importantly, Green Connect conducts rigorous testing on the treated water, ensuring that it meets all the necessary parameters set by the Pollution Control Board (PCB). This includes tests for Chemical Oxygen Demand (COD), Biological Oxygen Demand (BOD), pH levels, Total Suspended Solids (TSS), and Total Dissolved Solids (TDS). The successful compliance with these standards underscores the project's effectiveness and its contribution to environmental preservation.



The Green Connect project at Le Yercaud Resort serves as an inspiring model for responsible water management in the hospitality industry. By harnessing the power of DEWATS technology and a commitment to sustainability, this initiative not only benefits the environment but also showcases how businesses can integrate eco-friendly practices into their operations.

GASTODAY 2.0



Green Connect has specially developed GASTODAY 2.0, a product with unique characteristics, including the production of high-pressure gas, mosquito repellence, and the convenience of transporting up to 50 products simultaneously.

Benefits

- 1.5 h of gas usage per day
- 100 liter of manure produced per day
- Odur free gas
- Electricity Free
- 3 - 5 ton of carbon offset per year
- Improved sanitisation

Green Connect August'23 Update

Service Projects:

- JKKN Educational Institution, Namakkal, TN - Sewage Treatment Plant water health checkup.
- Yoga Prana Vidya Ashram, Hosur, Tamil Nadu - Blower replacement
- St Xavier's boys hostel, Salem, Tamil Nadu - Biogas pipe line replacement work
- Le Yercaud, Yercaud, Tamil Nadu - Water quality check in waste water treatment plant
- Sundram Fasteners Limited, Hosur, Tamil Nadu - Gas production monitoring
- National Agro Foundation, Solakpally, Telangana - Beneficiary Identification & existing domestic biogas plant service work

