Make Benefit from Waste
Use Food Waste as resource, Do Something to Recycle?

Stop Greenhouse Gas from Pollution

Adaptations

- Food Waste to Bio Gas Plants
- Waste to Hi Nutrient Organic Manure
- Waste to Energy Power Generation
- Zero Disposal & Zero Maintenance

Integration

Simple Operation | 100% Proven | Stop Land Fills

100% Proven Stop Land Fills
Simple Operation
Zero Disposal & Zero Maintenance
Waste to Energy Power Generation
Waste to Hi Nutrient Organic Manure
Food Waste to Bio Gas Plants
Food waste is destroying the planet. Doing something about it and starts action from home.

India is well known for pleasing weather, natural beauty and its clean and fresh mountain air. Increasing population industrialization, transportation, or hazardous solid/liquid waste dumping problem and even agriculture generating prominent degree of pollutants in to the environment reducing the quality of air. Hence, there is a intimidation to the quality of life as well as the natural beauty that can sunken the root for an economically sound and environmentally safe future of the country.

Worldwide, a third of all food is lost or thrown away each year, according to the U.N.’s Food and Agricultural Organization. This 1.3 billion tons of unconsumed food is increasingly recognized as a major ecological problem. Producing it wastes more than 1 trillion gallons of water and billions of pounds of petroleum-derived fertilizer. This loss maddeningly persists alongside widespread food insecurity. And much of the waste ends up in landfills, where it decomposes without air, releasing methane, a greenhouse gas more potent than carbon dioxide.

When my family began our concerted campaign to reduce our carbon footprint a few years ago, we were surprised to find that food weighed in as our second biggest climate-damaging culprit (behind only airplane travel). By letting us take some of our food directly out of the waste stream, dumpster diving lowered our carbon impact. But it also heightened my awareness of the perversities of the global food economy.

It was suddenly striking to me how accustomed I’d grown to the complacency and excess of food shopping culture in the United States. In the 1990s, I spent several years living and cooking for myself in rural Mongolia. There, I toted home unpackaged produce in two reusable plastic grocery bags and yogurt in a small blue bucket I brought empty to the vendor every week.
But back in the U.S., massive displays of stacked fruit eventually ceased to boggle my mind. I passed over the package of strawberries with the squashed one on the bottom (which would end up in some lucky dumpster diver’s haul). I looked for the biggest, most perfect sweet potato. At home, rather than eat food that had become unappealing, I let it mold, grow stale or dry out until I could throw it out without a second thought.

In short, I related to my food as a commodity, rather than as what it is: a miraculous substance with the power to sustain me and my family.

North America and Europe, the lion’s share of food waste comes not from grocery stores (responsible for 11%), but from consumers (responsible for nearly 40%), according to the U.N.’s FAO. So in addition to advocating for practices in the food industry, we in the wealthy developed world need to cultivate a more sustainable personal relationship with food.

When you get right down to it, food is a strange thing: It’s part of the environment, it’s part of us, and then it’s part of the environment again. When we gather, prepare, consume and dispose of it, we experience the tight weave of our bodies with the Earth. The fact that our bodies depend on and are part of the material environment can be disturbing to contemplate, but it can also remind us of how strange and wonderful it is to be, briefly, alive.

The 19th century American naturalist and philosopher Henry David Thoreau worried that “devotion to sensual savors” turned our food into sustenance for “the worms which, even in life and health, occupy our bodies.” For Thoreau, to enjoy the sensuality of eating was to feed only the part of us that dies.
In table below most solid waste generated 12 states in India

<table>
<thead>
<tr>
<th>Solid waste</th>
<th>DELHI</th>
<th>Tamil Nadu</th>
<th>Gujarat</th>
<th>Himachal Pradesh</th>
<th>Chandigarh</th>
<th>Kerala</th>
<th>UP</th>
<th>Maharashtra</th>
<th>Odisha</th>
<th>Rajasthan</th>
<th>W.B.</th>
<th>M.P.</th>
<th>Total</th>
<th>Trend</th>
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<tbody>
<tr>
<td>Solid waste</td>
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<tr>
<td>(t/day)</td>
<td>4,000.00</td>
<td>5,021.00</td>
<td>3,809.00</td>
<td>39.00</td>
<td>200.00</td>
<td>1,220.00</td>
<td>5,515.00</td>
<td>8,589.00</td>
<td>646.00</td>
<td>1,768.00</td>
<td>4,479.00</td>
<td>2,286.00</td>
<td>5,150.00</td>
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<tr>
<td>Solid waste</td>
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<tr>
<td>(t/day per</td>
<td>475.00</td>
<td>467.00</td>
<td>451.00</td>
<td>427.00</td>
<td>397.00</td>
<td>393.00</td>
<td>381.00</td>
<td>378.00</td>
<td>366.00</td>
<td>355.00</td>
<td>321.00</td>
<td>316.00</td>
<td>393.92</td>
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<td>resident)</td>
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</table>
Most solid waste generation per person state is the National Capital of India-New Delhi- “Highest opportunity to utilise solid waste”.

**OUR VISION**

- To ensure that we provide hygienic pollution free environment and ensuring good health to every Indian.
- Providing Clean, Green, Environment friendly & Sustainable technologies for Solid waste management at the point of source where it is generated.
- Creating one stop shop for waste handling solution.
OUR ZERO WASTE SOLUTION

Ecohouse - (Biogas plants)

I. Bio Wastes processed at source without creating any environmental impact
II. Zero waste concept achieved in total
III. Transporting & Dumping of waste eliminated
IV. 100% fool proof system of waste handling
V. Prefabricated units are available
VI. The plant constructed underground enable usage of space effectively
VII. Environment friendly since the process does not generate any polluting liquids or gas. Methane (CH4) is the simplest hydrocarbon fuel which produces the least amount of CO2 when burnt.
VIII. 100% adaptable, Simple to operate & Maintenance FREE
IX. Biogas produced is used for cooking or power generation
X. More than anything else, the amount of greenhouse gas that is stopped from polluting the atmosphere is huge!
Biogas Plant can be replace LPG cooking gas in large volume. This biogas plant is very economical where large quanity of food waste to be generated.

i) All type of Canteens like College, Industrial, Hospitals, Railway etc.

ii) Hotels and Marriage Halls.

iii) Sabjimandis.

iv) Hostels and mass.

v) Apartment and Societies.

vi) Large Malls.
<table>
<thead>
<tr>
<th>Food waste generated Kg per Day</th>
<th>10</th>
<th>20</th>
<th>25</th>
<th>50</th>
<th>75</th>
<th>100</th>
<th>150</th>
</tr>
</thead>
<tbody>
<tr>
<td>No of cylinder Can be reduce per Year</td>
<td>18.00</td>
<td>24.00</td>
<td>36.00</td>
<td>72.00</td>
<td>96.00</td>
<td>144.00</td>
<td>192.00</td>
</tr>
<tr>
<td>Space required (Sq ft)</td>
<td>25.00</td>
<td>40.00</td>
<td>50.00</td>
<td>80.00</td>
<td>100.00</td>
<td>130.00</td>
<td>160.00</td>
</tr>
<tr>
<td>Yearly LPG cost saving in lacs</td>
<td>0.16</td>
<td>0.22</td>
<td>0.32</td>
<td>0.65</td>
<td>0.86</td>
<td>1.30</td>
<td>1.73</td>
</tr>
<tr>
<td>Price in Lacs</td>
<td>0.67</td>
<td>1.56</td>
<td>1.93</td>
<td>4.12</td>
<td>4.48</td>
<td>6.82</td>
<td>7.74</td>
</tr>
<tr>
<td>Pay beck period</td>
<td>4.15</td>
<td>7.22</td>
<td>5.96</td>
<td>6.36</td>
<td>5.19</td>
<td>5.26</td>
<td>4.48</td>
</tr>
<tr>
<td>Food waste generated Kg per Day</td>
<td>200</td>
<td>300</td>
<td>500</td>
<td>750</td>
<td>1000</td>
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<tr>
<td>No of cylinder Can be reduce per Year</td>
<td>276.00</td>
<td>384.00</td>
<td>564.00</td>
<td>1,140.00</td>
<td>1,416.00</td>
<td></td>
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</tr>
<tr>
<td>Space required (Sq ft)</td>
<td>180.00</td>
<td>220.00</td>
<td>450.00</td>
<td>600.00</td>
<td>900.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Yearly LPG cost saving in lacs</td>
<td>2.48</td>
<td>3.46</td>
<td>5.08</td>
<td>10.26</td>
<td>12.74</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Price in Lacs</td>
<td>9.59</td>
<td>13.98</td>
<td>18.78</td>
<td>31.63</td>
<td>32.60</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pay beck period</td>
<td>3.86</td>
<td>4.05</td>
<td>3.70</td>
<td>3.08</td>
<td>2.56</td>
<td></td>
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</tr>
</tbody>
</table>
Ecohouse - WASTE TO ENERGY

- Waste Crushed & fed into the plant as Homogeneous solution for Efficient & Effective Digestion
- Simple, Fast & HAZZLE FREE waste processing
- **Output 7-8% gas & 60% Liquid Manure**
- Automation with booster for faster heating
- **Models starting from Domestic use to Large Industrial & commercial establishments**
- Ecohouse CHAMP is a Compact, Modular Multi Utility converter provide perfect waste handling solution for Houses & Flats.
BIO GAS PLANT MODEL-2
Ecoconverter Solution

Composting technology suitable for Housing Complexes, Markets, Institutions, Industries, Hotels, IT Parks, Municipalities etc.

✓ Unique Technology has been developed to make composting Naturally Easier & Faster

Waste from your green bins Crushed, Washed & Dewatered

After volume reduction waste is fed to Ecobins for Manure conversion

In 3 weeks you get highly nutrient Organic manure ready to be used

SIMPLE OPERATION / MAINTENANCE FREE / GUARANTEED SOURCE SEGREGATION
**BENEFITS**

- Clean & hygiene campus
- Organic compost for garden
- Eliminates dumping & saves environment

**Our Prestigious Customer:**

**Ecohouse - Biogas:**
- LIC, Chennai
- IIT, Chennai
- Tambaram Municipal Corporation, Chennai
- HPCL, Chennai
- Kirloskar Bros. Ltd., MP
- Indian Institute of Forest Management, Bhopal
- Yazaki Wiring Technologies Ltd., Chennai
- Dr. M G R University, Chennai
- The CLUB, Bangalore
**Ecoconverter – Organic manure**
- TATA Homes, Chennai
- Jones Foundation, Chennai
- Chitrakoot Apartments, Bangalore
- Zoho Corporation, Chennai

**Food waste disposer**
- Rashtrapathi Bhavan
- SHAR, Sriharikota
- BEL, Chennai
- LIC of India, Chennai
- Vasantha Bhavan, Chennai
- JC Residency, Kodaikanal
- T V S, Chennai, Madurai, Mysore,
- TCS, Chennai
- Accenture, Chennai, Hyderabad
- TATA telecommunications, Chennai
- Yahoo, Bangalore
- MICO, Bangalore
- L&T ECC – Housing projects, Calcutta, Chennai
- Ramaniyam real estates – Housing Projects
- Real Value Promoters – Housing Projects