Inefficient waste disposal/reportage by local authorities
Costly expenditure on firewood or liquid petroleum gas
Lack of organic fertiliser for home garden
High electricity bills

Story of Sisira Kumara
Mr Sisira Kumara, fending for a family of three, once contacted a particular biogas supplier to have a unit constructed at his household. Having been made aware of the benefits of biogas as well as the importance of having an alternative source of energy the 2.5 m³ sized biogas unit took three days to construct and a week after, he was able to use it as an alternative to LPG in the kitchen. Requiring 7-10 kg* of food and garden waste, prior to biogas, his household replaced gas cylinders monthly and today 90% of meal-preparation is done atop a biogas-powered stove. The organic bio-slurry produced is used for the family’s acre-wide farmland as a substitute to chemical fertiliser that has also resulted in a higher harvest this season.

*4l paint bucket = 4 kgs of waste

No More Septic Tanks
Another well known biogas supplier in the country encourages his customers building new houses to ensure that they have a biogas unit to manage toilet and kitchen as opposed to a septic or sewage tank. He believes that an 8 m³ unit that takes five days of construction and 1½ weeks to activate, becomes a multi-solution provider for households with 3-5 members in both managing waste and curbing the rising cost of LPG and electricity. Having recovered the investment within a year, certain households have been able to rely solely on biogas for cooking and culinary activities.

No Space; then Compact Units
With an approximate 14-month return on investment for biogas units starting at LKR 50000, this supplier has made units available for purchase over the counter. A 3-4 member family is able to find a solution to waste management concerns, alternative cooking fuel and organic fertiliser that now allows them to grow their own fruits and vegetables thereby increasing the family’s self-sufficiency. This particular supplier is also of the belief that while all households in the island should have a biogas unit in their compound to meet waste management and energy concerns, the family should also inculcate a tendency towards making the biogas unit an integral part of their family unit.

Frequently Asked Questions

1. I have a very small family / limited garden space. Can I still have a bio-digester installed?
Yes you can! There are bio digesters that accommodate both small families and small gardens. For example the LDPE-500L unit requires only 2-4 kgs of food waste to produce 4 LPG kgs equivalent of biogas per month. There are also smaller units that take up only about 15sq ft in space.

2. The initial cost is too large a one-time expenditure. What do I do?
There are a few banks that will offer loans to construct bio-digesters.

3. How do I install a bio-digester to my existing premises?
Call any of our listed service providers and give them your requirement. They will advise you on the specifications.

Our goal is to see as many households in SL equipped with a biogas unit. The project, an EU funded SWITCH-Asia initiative is a joint partnership between People in Need, Cz and local partner Janathakshan. For questions or clarifications we are are more than happy to help. Our contact details for more information is as follows:
biogas.lanka@gmail.com
+94766331450
www.lankabiogas.com

The EU SWITCH-Asia initiative is a joint partnership between People in Need, Cz. and local partner Janathakshan funded, by the European Union.
Do you have any of these problems?

- Inefficient waste disposal/management by local authorities
- Costly expenditure and/or on firewood or liquid petroleum gas
- Lack of organic fertiliser for your home garden
- High electricity bills

If you do, we have the solution you’ve been looking for!

Biogas, produced through bio-digesters installed at your home can be used for cooking and can power electricity in your household.

Feed your bio-digester with:

- Animal Waste
- Human Waste
- Garden Waste
- Food Waste

and enjoy a range of benefits!

- Alternative Energy
- Waste Management
- Organic bio-slurry for your home garden

Which type of bio-digester is right for me?

<table>
<thead>
<tr>
<th>Type of Digester</th>
<th>Ideal For</th>
<th>Cost (LKR)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LDPE Floating Dome</td>
<td>For smaller families and households with small spaces. Maximum waste capacity is 8kg a day</td>
<td>50000-68000</td>
</tr>
<tr>
<td>Sri Lak Umaga</td>
<td>Requires 2-25kgs of solid degradable waste from garden, kitchen and sewage</td>
<td>120000-180000</td>
</tr>
<tr>
<td>Chinese Fixed Dome</td>
<td>Ideal for households to connect sewage waste or for household with livestock waste of 25-30kg a day</td>
<td>80000-150000</td>
</tr>
</tbody>
</table>

How long does is take to build a bio-digester?*

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<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>01 Day</td>
<td>For a 500l LPDE digester</td>
<td></td>
</tr>
<tr>
<td>04 Days</td>
<td>For a 2.5 Sri Lak Umaga digester</td>
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</tr>
<tr>
<td>10 Days</td>
<td>For a toilet-connected Chinese fixed dome digester</td>
<td></td>
</tr>
</tbody>
</table>

* subject to variation

Did you know?

Banks and micro finance institutions have recognised the value of biogas and now offer loans schemes.

Why should you have a bio-digester in your household?

1. It’s cost-effective in the long run;
2. Removals dependency on Municipal waste removal;
3. Produces organic fertiliser for home gardening;

Choose your service provider

<table>
<thead>
<tr>
<th>Company/ Institution</th>
<th>Area</th>
<th>Contact No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arpico Green Gas</td>
<td>Island wide</td>
<td>0773510546</td>
</tr>
<tr>
<td>Echo tech Base</td>
<td>Island wide</td>
<td>0777134474</td>
</tr>
<tr>
<td>Green Engineering</td>
<td>Central Province</td>
<td>0718194879</td>
</tr>
<tr>
<td>Helawagaa</td>
<td>Northwestern/ Western province</td>
<td>0713027720</td>
</tr>
<tr>
<td>Helpo Eco Green</td>
<td>Island wide</td>
<td>(091) 2226818</td>
</tr>
<tr>
<td>Isuru Bio Constructors</td>
<td>Northwestern/ North central province</td>
<td>0714432112/ 0712607189</td>
</tr>
<tr>
<td>Srimal Tissera</td>
<td>Island wide</td>
<td>0775976087</td>
</tr>
<tr>
<td>T Jayarathne</td>
<td>Southern Province</td>
<td>0725663733</td>
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<tr>
<td>St Mary Construction</td>
<td>North Western/ Central province</td>
<td>0777567066</td>
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