Bio Gas In India

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Advantages of Biogas Production

Biogas can offer a multi-pronged solution to India acting as a catalyst to other industries, driving wider economic growth.

- Socio-Economic Empowerment
- Import Substitution
- Environment Friendly & Sustainable
- Energy Security
- Affordable
- Safe and Convenient
## Biogas Sources in India

<table>
<thead>
<tr>
<th>Source</th>
<th>Approx. CBG Potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cattle Dung &amp; Chicken Litter</td>
<td>18 MMT</td>
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<tr>
<td>Forest Residue</td>
<td>8 MMT</td>
</tr>
<tr>
<td>Agriculture Residue</td>
<td>12 MMT</td>
</tr>
<tr>
<td>Press Mud, Spent Wash &amp; Baggasse</td>
<td>8 MMT</td>
</tr>
<tr>
<td>Municipal Solid Waste</td>
<td>2 MMT</td>
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<tr>
<td>Prospective energy crops in Barren, Waste &amp; Single Crop Land</td>
<td>12 MMT</td>
</tr>
</tbody>
</table>

**Total Approx. CBG Potential : 60 MMT**
## Biogas Policy Intervention in India

<table>
<thead>
<tr>
<th>Policy/Milestone</th>
<th>Date</th>
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</thead>
<tbody>
<tr>
<td>First Standard on Biogas (IS 16087: 2013)</td>
<td>2013</td>
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<tr>
<td>Inclusion of CBG as Transport Fuel</td>
<td>Jun 2015</td>
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<tr>
<td>First revision on Biogas Standard (IS 16087: 2016)</td>
<td>May 2016</td>
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<td>National Biofuel Policy</td>
<td>Jun 2018</td>
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<tr>
<td>SATAT</td>
<td>Oct 2018</td>
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<tr>
<td>Priority Sector Lending – Reserve Bank of India</td>
<td>Sep 2020</td>
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<tr>
<td>Fermented Organic Manure - FCO</td>
<td>Jul 2020</td>
</tr>
<tr>
<td>Injection of Biogas in Natural Gas Grid</td>
<td>Apr 2021</td>
</tr>
<tr>
<td>Liquid Fermented Organic Manure - FCO</td>
<td>Jun 2021</td>
</tr>
</tbody>
</table>
SATAT PROGRAMME

Sustainable Alternative Towards Affordable Transportation (SATAT) was launched on 01.10.2018

5000 CBG Plants by 2023

15 MMT of CBG

50 MMT of Bio-Manure

CBG Plants to be set up by Entrepreneurs and off take by Oil & Gas Companies (IndianOil, BPCL, HPCL, GAIL & IGL)
1501 Letter of Intents on CBG awarded by IndianOil for 3.5 MMTPA capacity
CBG Marketing

CBG sales of 13 CBG Plants initiated from 23 Retail Outlets + 2 Industrial Customers + 1 CGD injection points

- Noble Exchange, Pune
- Clarus Bio Energy, Sangli
- Spectrum Renewable, Kolhapur
- Green Earth, Surendranagar
- Bleach Energy, Anand
- Govardhannathji Energies, Nadiad
- Glow Green, Surat
- Spectrum Renewable, Rohtak
- Indian Potash, Muzaffarnagar
- Solika Energy Pvt Ltd, Hyderabad
- Sri Lakshmi Venkateshwara, Kadapa
- TR Mega Foods, Ludhiana
- IOT Biogas, Namakkal
- Indian Potash, Muzaffarnagar
CBG PLANTS

IOT Biogas, Namakkal, Tamil Nadu
VERBIO – ASIA’S LARGEST CBG PLANT
Challenges

- Aggregation of feedstock
- Low cost finance to Entrepreneurs
- Availability of Equipment
- Proven Technology
THANKS!