HVO Production from Waste Feedstocks
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HELLO!

HALLO!

BONJOUR!

你好！
About ECO

- Focus on Waste and Low-value Feedstock Upgrading
- Clean Application in Fuels, Chemicals & Materials
- Wholly owned subsidiary of the Hong Kong and China Gas Group

Business Focus in Greater China

In-house Research & Development
About ECO HVO Plant

- Located in Zhangjiagang, China
- Commission since 2017 Q4
- 100% waste based-HVO
- Design capacity ~ 100,000 t/a
Greenhouse Gases Saving

380,000ton CO2 Emission Saving

16.2Mn Tree seedlings
China UCO Distribution

- >40Mn tonnes of cooking oil consumed /yr
- >20% of world generation
- 4 Mn tonnes of UCO /yr
- Only <200 collecting points certified under ISCC

Beijing
Shanghai
Sichuan
Guangdong
General UCO Quality in China

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Free Fatty Acid</td>
<td>≤6%</td>
</tr>
<tr>
<td>Water, Impurities &amp; Unsaponifiable</td>
<td>≤3%</td>
</tr>
<tr>
<td>matters</td>
<td></td>
</tr>
<tr>
<td>Iodine Value</td>
<td>≥80</td>
</tr>
<tr>
<td>Sulphur Content</td>
<td>50-200</td>
</tr>
<tr>
<td>Chlorine Content</td>
<td>50-150</td>
</tr>
</tbody>
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China Biodiesel Plant & HVO Plant Statistics

Design production capacity in China:
FAME: 3 Mn tonnes/yr
HVO: 0.62 Mn MT/yr
Policy: Dedicated Treatment Facility for Cities

Licensing for Restaurant, Kitchen and Agricultural waste collection and processing

Towngas China: SuZhou Treatment,

- Design capacity: 100,000 MT/a
- GPS: Route tracking and navigation
- RFID: Auto recording collecting information
Policy: Shanghai Biofuel Test Point

200 biofuel-supplying petrol stations
30,000 tonnes of B5 biodiesel made from UCO
0.3 RMB/L (4 US cents) cheaper than regular diesel
QR code for traceability
UCO MUST be used locally, special approval required for export out the city
Thank You

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