Lowell, Michigan
Biomass to Energy Sweetspot
Project Overview

- Privately financed biomass to energy project
- Multiple feedstocks
- Long term contract for feedstock and output
Players

- SPart, LLC – project developer
- Lowell Light and Power – energy purchaser
- City of Lowell – wastewater treatment
- Rockford Const. – design/builder
- enco2, LLC – AD process supplier
- Williams & Works – wastewater treatment design
- Infrastructure Alternatives - operator
Feedstock

• Litehouse Foods – wastewater with vegetable oil, vegetable matter, milk solids
• Swiss Lane Farms – dairy cattle manure
• Kerkstra and Plummers – grease trap waste
## Volatile Solids to Digester

<table>
<thead>
<tr>
<th>Feed</th>
<th>Design</th>
<th>Current</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manure</td>
<td>4,200 lb/day</td>
<td>5,000 lb/day</td>
</tr>
<tr>
<td>FOG</td>
<td>13,350 lb/day</td>
<td>3,000 lb/day</td>
</tr>
<tr>
<td>Float</td>
<td>6,000 lb/day</td>
<td>2,800 lb/day</td>
</tr>
</tbody>
</table>
# Power Generation

<table>
<thead>
<tr>
<th>Feed</th>
<th>Design</th>
<th>Current</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manure</td>
<td>70 kW</td>
<td>70 kW</td>
</tr>
<tr>
<td>FOG</td>
<td>500 kW</td>
<td>75 kW</td>
</tr>
<tr>
<td>Float</td>
<td>230 kW</td>
<td>105 kW</td>
</tr>
</tbody>
</table>
Current Status

- Commercially viable project
- Saved local employer $$$
- Ramping up FOG feed
- Digestate separator unable to get adequate capture – will need to improve – project underway
- Other similar projects in planning stage
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Questions?