Supplementary information

Lactic acid and biomethane production from bread waste: A techno-economic and profitability analysis using pinch technology

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Table S1. Capital investments for the distillation columns in US$.

<table>
<thead>
<tr>
<th>Scenario</th>
<th>DC1</th>
<th>DC2</th>
<th>DC3</th>
<th>DC4</th>
<th>DC5</th>
<th>DC6</th>
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<tbody>
<tr>
<td>Scenario I</td>
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<td>138200</td>
<td>198200</td>
<td>231900</td>
<td>163000</td>
<td>109400</td>
</tr>
<tr>
<td>Scenario II</td>
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<td>138200</td>
<td>198200</td>
<td>231900</td>
<td>163000</td>
<td>107100</td>
</tr>
</tbody>
</table>
**Fig. S1.** (a) Heat exchanger network (HEN) and (b) grid diagram for Scenario II to produce lactic acid (LA) from 100 MT bread waste (BW) per day.