Suffolk energy-from-waste facility
annual report
2018

In this fourth year of partnership between SUEZ and Suffolk County Council, we’ve put 266,135 tonnes of Suffolk’s waste to good use generating enough electricity to power 39,537 homes.
Suffolk energy-from-waste facility

2018 in numbers

**INPUTS**
- Waste processed
  - Municipal waste: 233,211 tonnes
  - Commercial waste: 32,924 tonnes
  - Total: 266,135 tonnes
- Energy imported: 731 megawatt hours
- Raw materials consumed:
  - Lime (hydrated): 2,390 tonnes
  - Powder activated carbon: 81 tonnes
  - Urea: 585 tonnes
  - Diesel: 447,574 litres

**OUTPUTS**
- Energy generated and exported:
  - Electricity (generated): 181,838 megawatt hours
  - Electricity (exported): 160,480 megawatt hours
- Waste recovered and disposed:
  - Air pollution control residue: 6,508 tonnes
  - Bottom ash (aggregate): 53,144 tonnes
  - Ferrous metals: 7,123 tonnes
  - Non-ferrous metals: 2,624 tonnes

**SAVINGS**
- 64,192 tonnes fossil fuels
- 134,380 tonnes CO2e
- Savings achieved by diverting 266,135 tonnes of waste from landfill and exporting 160,480 megawatt hours of electricity

**COMPLIANCE**

**Environment**

<table>
<thead>
<tr>
<th>Environment Parameter</th>
<th>Licence limit Daily average (mg/m³)</th>
<th>Line 1 Daily average (mg/m³)</th>
<th>Line 2 Daily average (mg/m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Particulates</td>
<td>10</td>
<td>2.7</td>
<td>1.4</td>
</tr>
<tr>
<td>Total organic carbons</td>
<td>10</td>
<td>0.5</td>
<td>0.3</td>
</tr>
<tr>
<td>Hydrogen chloride</td>
<td>10</td>
<td>4.8</td>
<td>5.4</td>
</tr>
<tr>
<td>Carbon monoxide</td>
<td>50</td>
<td>2.9</td>
<td>2.0</td>
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<tr>
<td>Sulphur dioxide</td>
<td>50</td>
<td>31.7</td>
<td>19.6</td>
</tr>
<tr>
<td>Oxides of nitrogen</td>
<td>200</td>
<td>164.0</td>
<td>165.9</td>
</tr>
</tbody>
</table>

The energy-from-waste process is one of the most tightly regulated industrial processes in Europe. At the Suffolk facility, both SUEZ and the Environment Agency monitor the facility to ensure it operates within the conditions set out by the environmental permit. Flue gas is treated throughout the process to ensure compliance with the permit limits.

Further information is available on our website (www.suffolkefw.co.uk).

**Health and safety**

SUEZ actively promotes safe behaviour and safety awareness through the work of its dedicated health and safety teams, training courses, safety auditing and the Safety in Mind programme.

Introduced in 2016, Safety in Mind conversations are used to highlight good practice or to discuss how an activity could be undertaken more safely. The number of Safety in Mind conversations has increased by 210% since 2017, encouraging a safety aware culture among staff, contractors and visitors.

**ECONOMY**

£639,784 spent with Suffolk suppliers

51 staff 2 apprentices

**Sponsorship**

SUEZ Communities Trust awarded £16,305 to Claydon Football Club for new ground maintenance equipment

**Community and Visitor Centre**

- 3 community liaison group meetings
  - The community liaison group is made up of residents and councillors local to the facility. It is a forum to both share any concerns about our operations and to celebrate successes. The group has been integral to the facility’s success.
- 80 visits including open days
- 28 education / school / children visits
- 52 adult groups
- 151 open day visitors
- 1,322 total visitors

11 outreach events

The Suffolk Show, working with others from the Suffolk Waste Partnership

10 activities with schools, from STEM workshops to environmental talks to careers preparation