

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 waste to
good use generating
enough electricity to
power **39,537** homes.



Putting Suffolk's waste to good use

Suffolk County Council
and SUEZ recycling and
recovery UK work in
partnership to dispose of
all of Suffolk's household
waste left after recycling.

INPUTS

Waste processed

233,211 tonnes
32,924 tonnes

Municipal waste Commercial waste

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 CO_{2e}

Savings achieved by diverting **266,135** tonnes of waste from landfill and exporting **160,480** megawatt hours of electricity

COMPLIANCE

Environment

| | Licence limit Daily average per line (mg/m ³) | Line 1 Daily average (mg/m ³) | Line 2 Daily average (mg/m ³) |
|-----------------------|--|---|---|
| Particulates | 10 | 2.7 | 1.4 |
| Total organic carbons | 10 | 0.5 | 0.3 |
| Hydrogen chloride | 10 | 4.8 | 5.4 |
| Carbon monoxide | 50 | 2.9 | 2.0 |
| Sulphur dioxide | 50 | 31.7 | 19.6 |
| Oxides of nitrogen | 200 | 164.0 | 165.9 |

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.

0 RIDDOR

Lost time incidents **0**

9 Personal injuries

Damages to property **7**

175 Near hazard / Near miss reported

15,770 Safety in Mind conversations

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