

Suffolk energy-from-waste facility

**20
23**

**Annual
report**



In the ninth year of partnership between SUEZ and Suffolk County Council, we've put **294,607 tonnes of waste** to good use generating enough electricity to **power 52,243 homes***.

294,607

**tonnes
waste processed**

185,144

**megawatt hours
electricity exported**

52,243

**households
powered***

* Based on the mean consumption of all domestic meters in the East in 2022 being 3,543.9 kWh (www.data.gov.uk). This figure will fluctuate as the amount of electricity used by households changes year on year.

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



Putting Suffolk's waste to good use

SUEZ recycling and recovery UK
Suffolk energy-from-waste facility, Lodge Lane, Great Blakenham, Suffolk IP6 0JE

01473 839149 · www.suffolkefw.co.uk



INPUTS

Waste processed

Municipal waste

253,294 tonnes

Commercial waste

41,313 tonnes

TOTAL

294,607 tonnes

Electricity imported

314 megawatt hours

Raw materials consumed

Lime (hydrated)

3,048 tonnes

Powder activated carbon

92 tonnes

Urea

728 tonnes

Diesel

237,596 litres¹



OUTPUTS

Energy generated and exported

Electricity (generated)

208,226 megawatt hours

Electricity (exported)

185,144 megawatt hours

Waste recovered

Bottom ash (aggregate)

52,061 tonnes

Ferrous metals

6,500 tonnes

Non-ferrous metals

3,052 tonnes

Waste disposed

Air pollution control residue

7,385 tonnes

Waste diverted to landfill

3,976 tonnes²

SAVINGS

22,142 tonnes fossil fuels

saved by exporting

184,527 megawatt hours of electricity, compared to natural gas power stations

LOCAL ECONOMY

£681,135 spent with Suffolk suppliers

- 47 staff
- 3 apprentices
- 1 intern
- 4 colleagues celebrate 10 years' service with SUEZ

BIODIVERSITY

- 6 beehives onsite, looked after by local beekeepers
- 2 adult peregrine falcons successfully hatched
- 4 chicks in purpose-built nesting box

¹ Diesel is used in the start-up and shut down of the facility to support the preheating and controlled cooling of the furnaces.

² During the annual shutdown of the facility some waste is diverted to landfill. Shutdown is required for routine maintenance.

COMPLIANCE

Environment (mg/m³)

	Licence limit to Nov 2023 Daily average per line	Licence limit from Dec 2023 Daily average per line	Line one Daily average	Line two Daily average
Particulates	10	5	0.46	0.9
Total organic carbons	10	10	0.049	0.49
Hydrogen chloride	10	8	2.6	2.4
Carbon monoxide	50	50	4.5	2.8
Sulphur dioxide	50	40	31.14	32.49
Oxides of nitrogen	200	180	172.9	174.96

On 01 December 2023, the site received an updated permit from the Environment Agency that enforces the new limits set by the Industrial Emissions Directive Best Available Techniques review.

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 awareness through the work of its dedicated health and safety teams, training courses, safety auditing and the Safety in Mind (SIM) program.



COMMUNITY AND VISITOR CENTRE

- 106 visits, including open days
- 46 education / school / children visits
- 60 adult groups
- 1,797 total visitors
- 822 adults
- 975 children
- 35 colleagues completed a 'Day a year to volunteer'
- ↳ Supporting projects ranging from stock sorting and preparation at St Elizabeth Hospice, bird box making with the Suffolk Wildlife Trust, building a shed at Somersham Primary School and assisting Growing Places.
- 32 outreach events
 - ↳ The Suffolk Show
 - ↳ Latitude Festival
 - ↳ Suffolk Youth Climate conference
 - ↳ Go Green, Go Wild Stowmarket
 - ↳ 11 primary school assemblies and lessons
 - ↳ 5 outreach sessions to children's community clubs
 - ↳ 8 outreach adult talks
 - ↳ 6 careers events

SPONSORSHIP

- The facility donated over £6,750 to local groups including:
 - ↳ Suffolk Greenest County Awards
 - ↳ Home Start Suffolk
 - ↳ Claydon High School for their production of Oliver Jr
 - ↳ Play equipment for Claydon Primary School
 - ↳ New Forest School shed for Somersham Primary School
 - ↳ Bury St Edmunds U15 rugby club
 - ↳ Stowmarket Food Bank Christmas Appeal

SUEZ COMMUNITIES FUND

- The SUEZ Communities Fund awarded a total of £50,000 to Bramford Parish Council for playground development.