

Suffolk
energy-from-waste facility
Annual report

2021



In this seventh year of partnership
between SUEZ and Suffolk County Council,
we've put **291,609** tonnes of waste
to good use generating enough
electricity to power
43,352 homes.

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

2021 in numbers

↓ INPUTS

Waste processed

Municipal waste

243,216 tonnes

Commercial waste

48,393 tonnes

TOTAL

291,609 tonnes

Energy imported

221 megawatt hours

Raw materials consumed

Lime (hydrated)

2,602 tonnes

Powder activated carbon

86 tonnes

Urea

709 tonnes

Diesel

276,447 litres*

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

↑ OUTPUTS

Energy generated and exported

Electricity (generated)

203,863 megawatt hours

Electricity (exported)

180,346 megawatt hours

Waste recovered

Bottom ash (aggregate)

53,574 tonnes

Ferrous metals

7,316 tonnes

Non-ferrous metals

3,407 tonnes

Waste disposed

Air pollution control residue

6,998 tonnes

Waste diverted to landfill

2,967 tonnes*

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

SAVINGS

21,642 tonnes fossil fuels

saved by exporting

180,346 megawatt hours of electricity, compared to

natural gas power stations

ECONOMY

£818,797 spent with Suffolk suppliers

- 48 staff
- 1 apprentice

2021 in numbers

COMPLIANCE

Environment (mg/m³)

	Permit limit Daily average per line	Line one Daily average	Line two Daily average
Particulates	10	1.8	1.0
Total organic carbons	10	0.4	0.4
Hydrogen chloride	10	3.4	3.3
Carbon monoxide	50	1.5	0.9
Sulphur dioxide	50	32.6	26.7
Oxides of nitrogen	200	179.9	179.7

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.

As a result of good health and safety practice on site, the facility has recently surpassed four years without a lost time incident, an injury accident that causes an employee to take time off work.

0 RIDDOR

0 Lost time incidents

6 Personal injuries

7 Damages to property

50 Near hazard / Near miss reported

3,383 Safety in Mind conversations

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.

Due to the COVID-19 pandemic, the facility has remained closed to the public since early March 2020 to protect the essential service that SUEZ and Suffolk County Council provide. While on site visits have been unavailable, our Community Liaison Manager has been delivering virtual workshops and classes to schools, and virtual tours to community groups.

Heritage Open Days

● 2 webinars for the national festival in September



streamed live to 75 attendees and has since been viewed more than 100 times on YouTube.

Watch the recording here: youtu.be/8tHkCgJJWy8

SUEZ communities trust

● The trust awarded

£47,966 to projects in Suffolk

£7,966 to Barham Parish Council for playground development

£40,000 to Claydon and Barham Recreation Ground for playground expansion and refurbishment