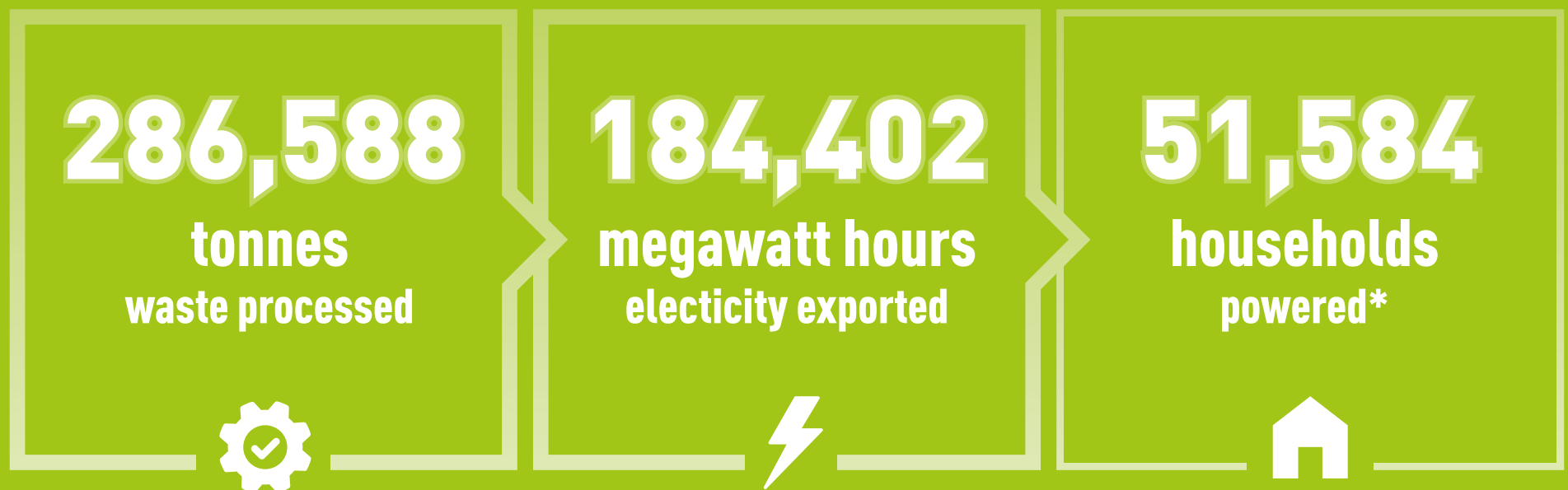


Suffolk energy-from-waste facility Annual report

20
24



In the tenth year of partnership between SUEZ and Suffolk County Council, we've put **286,588 tonnes of waste** to good use generating enough electricity to **power 51,584 homes***.



* Based on the mean consumption of all domestic meters in the East in 2023 being 3,574.8 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

230,292 tonnes

Commercial waste

56,296 tonnes

TOTAL

286,588 tonnes

Electricity imported

333 megawatt hours

Raw materials consumed

Lime (hydrated)

2,963 tonnes

Powder activated carbon

84 tonnes

Urea

600 tonnes

Diesel

243,530 litres¹

OUTPUTS

Energy generated and exported

Electricity (generated)

207,405 megawatt hours

Electricity (exported)

184,402 megawatt hours

Waste recovered

Bottom ash (aggregate)

52,451 tonnes

Ferrous metals

6,564 tonnes

Non-ferrous metals

3,417 tonnes

Waste disposed

Air pollution control residue

7,207 tonnes

Waste diverted to landfill

4,735 tonnes²

SAVINGS

22,127 tonnes fossil fuels

saved by exporting

184,402 megawatt hours of electricity, compared to natural gas power stations

LOCAL ECONOMY

£654,427 spent with Suffolk suppliers

- 47 staff
- 3 apprentices
- 1 intern

BIODIVERSITY

- Suffolk Wildlife Trust biodiversity survey undertaken
- 1 bug hotel installed on wildflower meadow
- 6 beehives onsite, looked after by local beekeepers
- 2 adult peregrine falcons hatched
- 3 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 dry @ 11% O₂)

| | Licence limit Daily average per line | Line one Daily average | Line two Daily average |
|-----------------------|---|---------------------------|---------------------------|
| Particulates | 5 | 1.2 | 1.4 |
| Total organic carbons | 10 | 0.3 | 0.4 |
| Hydrogen chloride | 8 | 3.4 | 3.4 |
| Carbon monoxide | 50 | 2.6 | 3.1 |
| Sulphur dioxide | 40 | 25.7 | 24.0 |
| Oxides of nitrogen | 180 | 164.1 | 165.2 |

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



- 84 visits, including open days
 - 42 education / school / children visits
 - 42 adult groups
 - 973 total visitors
 - 449 adults
 - 524 children
 - 2 Year 10 work experience students hosted
 - 35 colleagues completed a 'Day a year to volunteer'
- 21 outreach events
 - The Suffolk Show
 - Suffolk Youth Climate conference
 - 10 primary school assemblies and lessons
 - 1 outreach session to a children's community club
 - 3 adult outreach talks
 - 3 careers events

Supporting projects including construction work at Suffolk Owl Sanctuary, stock sorting and preparation at St Elizabeth Hospice, building a dead hedge and maintaining natural habitats for indigenous creatures at Red Gables, overhauling a memorial at the National Museum Arboretum, assisting with maintenance at Flixton Aviation Museum, assisting with preservation of flora and fauna at Orford Ness and serving Christmas lunches at Red Gables.

SPONSORSHIP



- The facility donated over £2,300 to good causes in Suffolk including:
 - Banham Zoo
 - Suffolk Greenest County Awards
 - Home-Start in Suffolk
 - Sproughton Primary School for a prayer garden
 - St Elizabeth Hospice
 - The SUEZ SCOPE Christmas fund awarded £500 to Home-Start in Suffolk to help them to support local residents in need over Christmas