# Suffolk energy-from-waste facility Annual report



# In this seventh year of partnership between SUEZ and Suffolk County Council,

electricity to power

**A S S D A 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.



we've put 🦳 🦳

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

tonnes of waste

to good use generating enough

#### Suffolk energy-from-waste facility



### **INPUTS**

Waste processed

Municipal waste 243,216 tonnes

Commercial waste

**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** 7

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 E818,797 spent with Suffolk suppliers • 48 staff • 1 apprentice



## COMPLIANCE

| Environment<br>(mg/m³) | <b>Permit</b><br>Limit<br>Daily average<br>per line | <b>Line one</b><br>Daily average | Line two<br>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

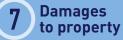
#### **Health and safety**

SUEZ actively promotes safe behaviour and awareness though 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.



Personal injuries



50 Near hazard / Near miss reported



6

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



**£7,966** to Barham Parish Council for playground development

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