

Organisation	The Coddendam Centre
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Background and Energy Consumption

The Coddendam Centre contacted Groundwork East through the Net Zero Suffolk support service to instigate their annual carbon footprint. The Centre has been committed to reducing their carbon emissions by installing a heat pump and 80 solar panels.

Electricity, LPG and water consumption were given for the period January to December 2023.

Electricity consumption: 19,133kWh*

LPG Consumption: 94kg

Water: 183m³

*17,138kWh building use and 1,995 Electric Vehicle charger use

Carbon Footprint

GHG emissions are expressed as tonnes of CO₂ equivalents (tCO₂e). This is a unit of measurement used to indicate the global warming potential of a greenhouse gas, expressed in terms of the global warming potential of one unit of carbon dioxide.

Scope 1: These are Direct Emissions which arise from the activities of an organisation and include fuel combustion on site or in owned equipment, such as gas boilers, fleet vehicles and mobile machinery.

Scope 2: These are Indirect Emissions from electricity purchased and used by the organisation. Emissions are created during the production of the energy which is eventually used by the organisation.

Scope 3: These are all other Indirect Emissions from activities of the organisation, occurring from sources that they do not own or control. In this GHG report Scope 3 emissions are those arising from

water usage, 'Transmission and Distribution' (T&D) and Well to Tank (WTT) of electricity and Scope 1 fuels purchased by the organisation.

Data provided via the Carbon Charter gave an annual carbon footprint for 2020 of 31.0tCO₂e. The carbon footprint was recalculated for the year of 2022 and was 8.6tCO₂e. This is a 22.4tCO₂e reduction, approximately 72%.

The 2023 carbon footprint is 5.2tCO₂, which is a 3.4tCO₂ reduction, approximately 40% reduction from 2022.

Table 1: Carbon footprint calculations compared to baseline

	2020	2022	2023
tCO₂	31	8.6	5.2
% year reduction		72%	40%
% reduction from baseline		72%	83%

Table 2: Breakdown of emissions 2023

		2023
Scope 1	Fuels	0.1
Scope 2	Electricity	3.7
Scope 3	Fuels and Energy (not included in Scopes 1 or 2)	<0.1
	Electricity T&D and WTT	1.3
	Water supply and treatment	0.1
		5.2

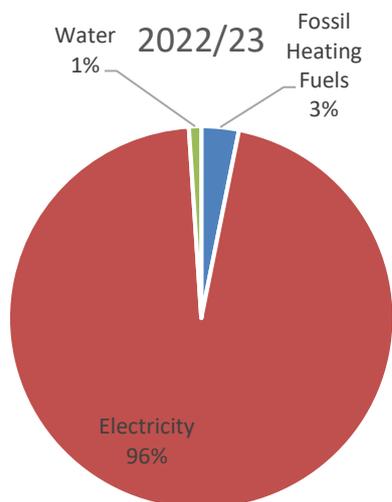


Figure 1: Annual Estimated Summary Emissions