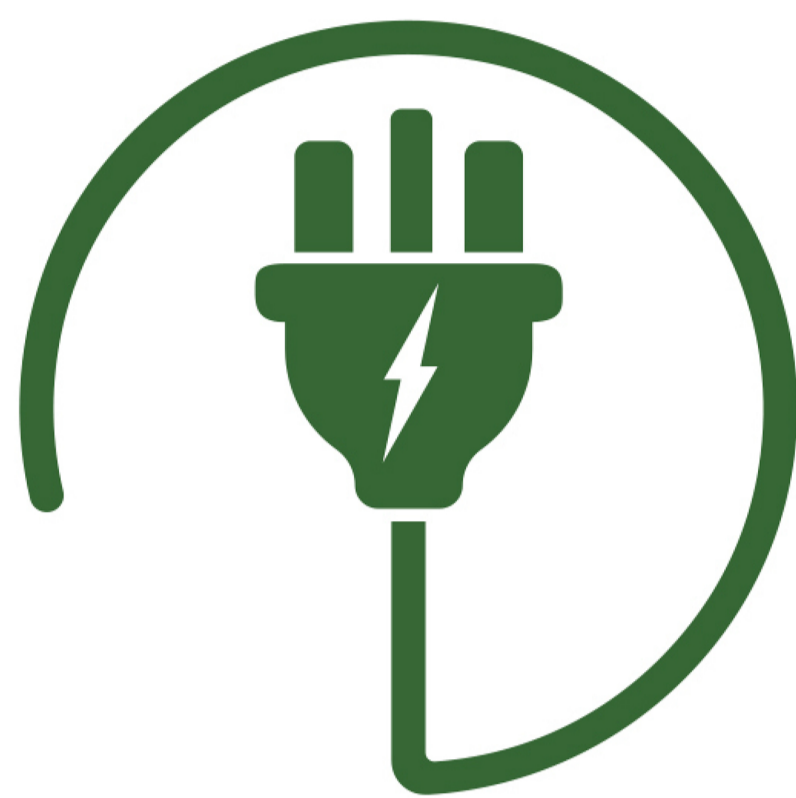


Introduction

The Levenseat Renewable Energy (LREL) waste treatment facility consists of an advanced materials recovery facility and a combined heat and power plant, designed to recover recyclable material from black waste and maximise diversion from landfill.

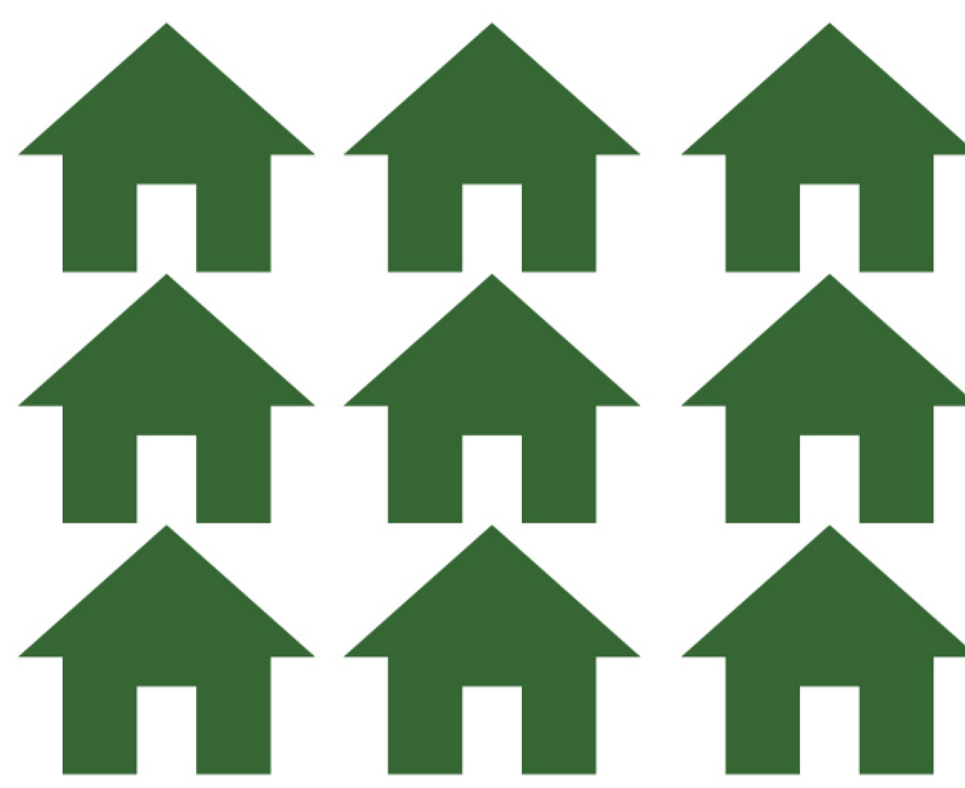
Once all efforts have been made to recover recyclable material from waste streams, the next best option is to recover energy from the remaining waste. This not only means we are recovering value from waste; we are also diverting waste from landfill and helping to contribute to Scotland's renewable energy targets.

Key Facts



12.5MW

Electricity Generated



Equivalent to the needs of

25, 000 Homes



215, 000 tonnes

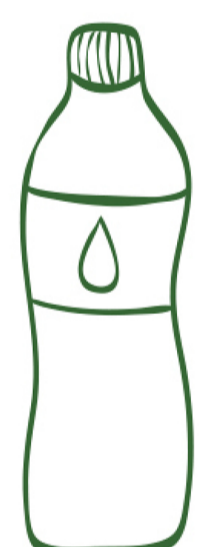
Processing Capacity

Interesting Facts

The LREL facility is designed to process residual waste, otherwise known as black bin waste, waste that householders have deemed to be unrecyclable, yet we are able to recover and recycle on average 20% of the material received.



84, 000 Aluminium cans recovered



224,875 Plastic bottles recovered

Other materials recovered include WEEE from electrical equipment, organic fines that are sent for composting, and ferrous metals in the form of pots and pans etc.

*based on 2020 annual statistics

Step 1: Recovery of Recyclates

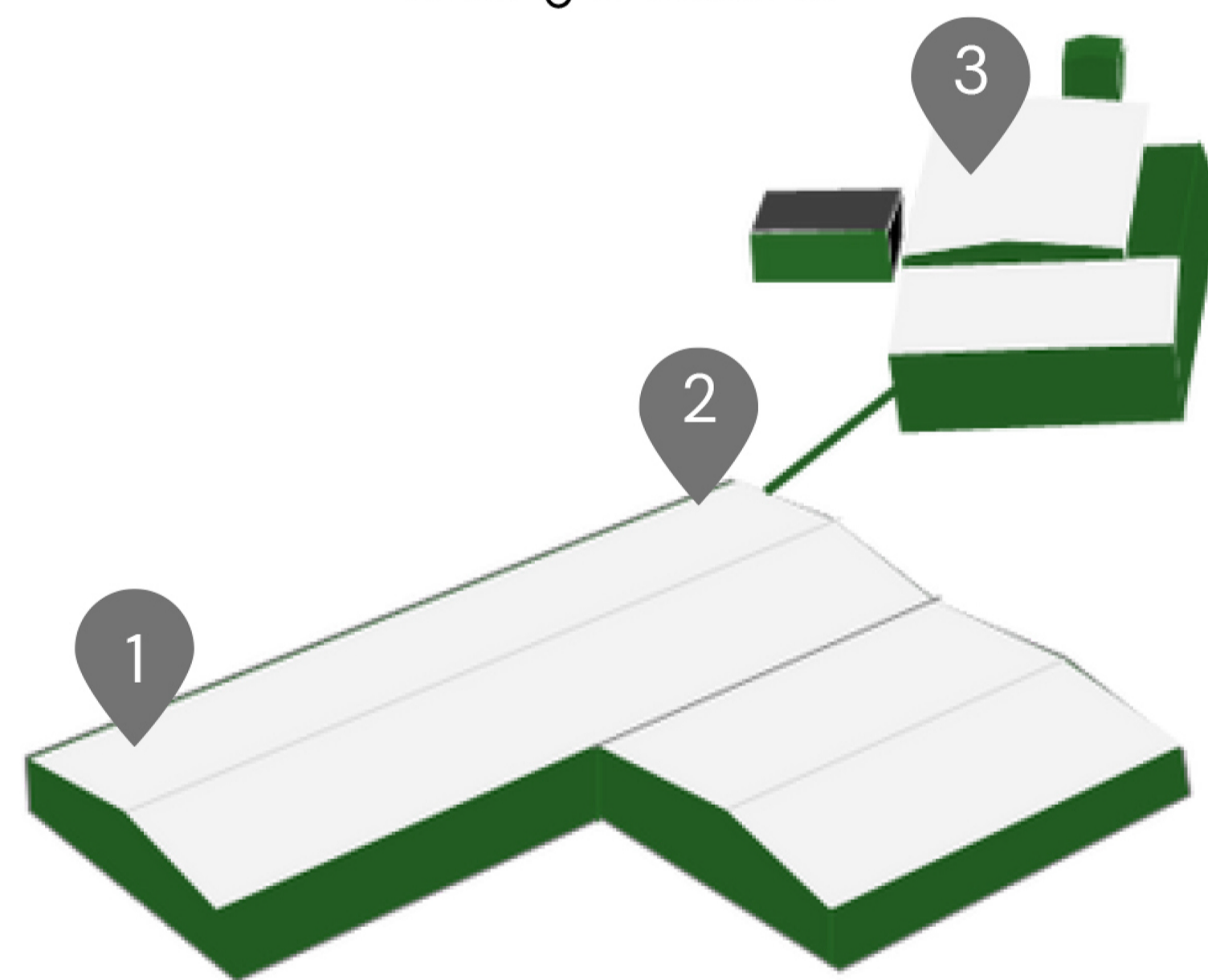
Materials such as wood, cardboard, ferrous metals, non-ferrous metals, mixed plastics, and inerts are all recovered and diverted back into the manufacturing or construction industries.

Step 2: Fuel Preparation

The remaining waste is prepared into a fuel known as Refused Deriver Fuel. This fuel is made to a specific, detailed standard to ensure a clean and efficient conversion process and to minimise production of ash and other by-products

Step 3: Energy Recovery

Our Power Plant provides an environmentally responsible means of producing reliable baseload electricity. The Plant uses non-recyclable waste as a fuel, reducing our reliance on fossil fuels, the need for landfill and cutting emissions.



Emissions Monitoring

Emissions are monitored directly by our Continuous Emissions Monitoring System (CEMS). This system is fitted inside the stack so it monitors the flue gas before it is released into the atmosphere.

The majority of our emissions are compounds of normal air like steam, oxygen, nitrogen and carbon dioxide. For the very small remainder of emissions, they go through a sophisticated treatment process that ensures emissions remain well below all relevant standards.

In addition to providing information to SEPA for regulatory compliance, the CEMS also allows the Power Plant team to monitor the processes. The data provided by the monitoring systems gives useful feedback on how the processes are operating, thereby allowing the team to safely and efficiently run the plant.

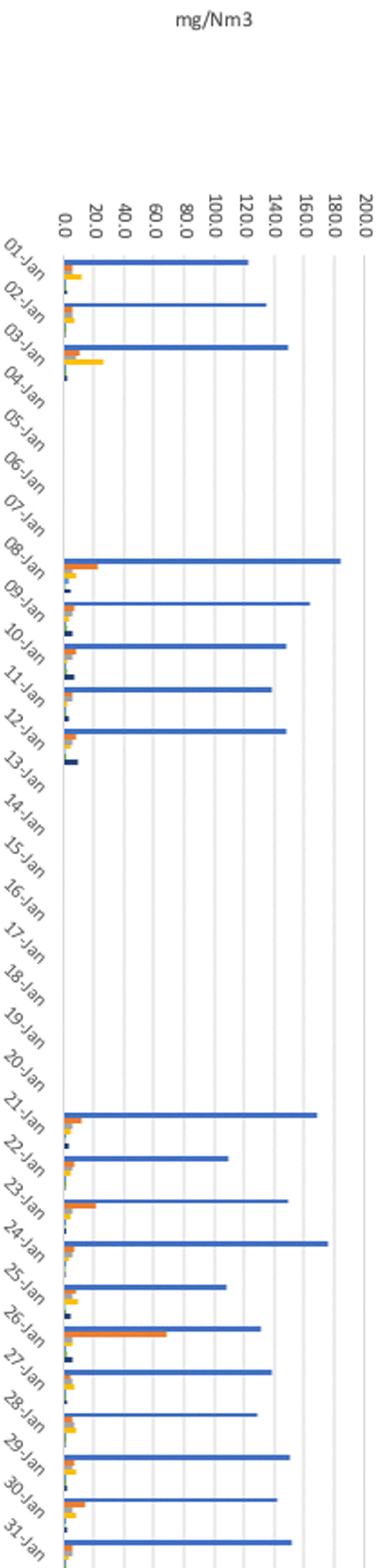
	Permitted levels mg/Nm3	
	Daily	30 min max average
Nitrogen Oxide (NO _x)	200	400
Carbon Monoxide (CO)	50	100
Sulphur Dioxide (SO ₂)	50	200
Hydrogen Chloride (HCl)	10	60
Ammonia (NH ₃)	10	
Total Organic Carbon (TOC)	10	20
Particulates	10	30

Please see below for this months report

Learn more at www.lrel.co.uk

JANUARY 2025 DAILY AVERAGE CEMS REPORT

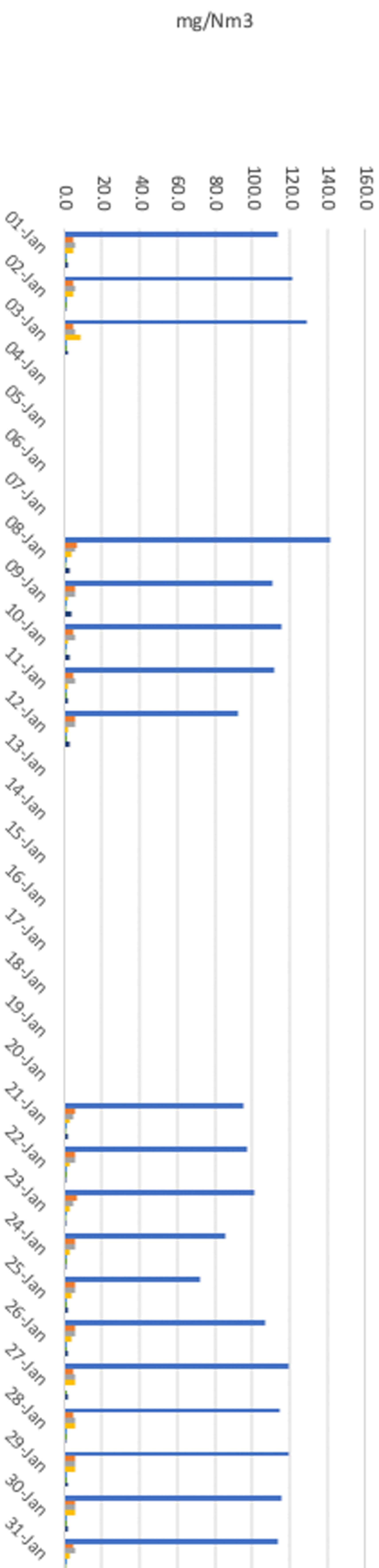
30-minute Average Maximums



Date	NOx 30m Max	CO 30m Max	SO2 30m Max	HDQ 30m Max	NH3 30m Max	TOC 30m Max	Particulate Matter 30m Max
01-Jan	122.21	3.46	5.8	11.3	0.7	0.9	1.7
02-Jan	134.61	6.0	5.8	7.4	0.6	0.9	1.4
03-Jan	149.2	10.9	7.6	26.2	0.4	1.0	1.5
04-Jan	0.0	0.0	0.0	0.0	0.0	0.0	0.0
05-Jan	0.0	0.0	0.0	0.0	0.0	0.0	0.0
06-Jan	0.0	0.0	0.0	0.0	0.0	0.0	0.0
07-Jan	0.0	0.0	0.0	0.0	0.0	0.0	0.0
08-Jan	184.51	6.6	6.1	8.1	3.6	1.4	4.6
09-Jan	163.81	6.6	5.7	3.7	0.8	1.5	5.8
10-Jan	148.21	8.5	6.1	2.2	1.2	1.7	6.4
11-Jan	137.91	6.0	6.1	2.6	0.8	1.0	3.1
12-Jan	147.7	7.7	6.3	4.0	1.3	1.1	9.9
13-Jan	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14-Jan	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15-Jan	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16-Jan	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17-Jan	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18-Jan	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19-Jan	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20-Jan	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21-Jan	169.21	11.6	5.3	4.1	0.6	1.3	3.8
22-Jan	109.91	7.4	5.9	4.2	0.6	1.1	1.4
23-Jan	149.41	21.1	5.5	4.1	0.6	1.3	1.2
24-Jan	175.81	6.6	6.1	3.1	0.8	1.3	1.3
25-Jan	108.41	8.6	5.8	9.1	1.3	1.1	4.5
26-Jan	131.51	68.0	6.2	5.8	0.4	1.9	5.2
27-Jan	138.21	4.8	6.2	7.2	0.2	1.0	2.4
28-Jan	128.41	5.9	6.5	7.8	0.4	0.9	1.3
29-Jan	150.11	6.8	6.3	7.6	0.3	1.2	1.8
30-Jan	142.41	14.6	6.1	7.8	0.4	1.3	2.1
31-Jan	152.2	5.5	5.7	3.5	0.6	1.2	2.9

JANUARY 2025 DAILY AVERAGE CEMS REPORT

Daily Averages



	01-Jan	02-Jan	03-Jan	04-Jan	05-Jan	06-Jan	07-Jan	08-Jan	09-Jan	10-Jan	11-Jan	12-Jan	13-Jan	14-Jan	15-Jan	16-Jan	17-Jan	18-Jan	19-Jan	20-Jan	21-Jan	22-Jan	23-Jan	24-Jan	25-Jan	26-Jan	27-Jan	28-Jan	29-Jan	30-Jan	31-Jan
NOx Daily Mean	113.6	121.6	129.2	0.0	0.0	0.0	0.0	142.1	110.3	115.3	118.9	92.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	95.5	96.8	100.8	85.2	72.2	107.0	119.7	115.0	119.1	115.2	113.8
CO Daily Mean	4.6	5.0	4.9	0.0	0.0	0.0	0.0	6.3	5.1	4.8	4.6	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	5.8	6.5	5.6	5.7	5.9	4.2	4.6	5.1	5.5	4.5
SO2 Daily Mean	5.2	5.2	5.3	0.0	0.0	0.0	0.0	5.2	5.1	5.2	5.2	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	5.1	4.8	5.1	5.1	5.2	5.3	5.4	5.3	5.3	5.4
HD Daily Mean	4.9	4.4	8.5	0.0	0.0	0.0	0.0	3.9	2.1	1.7	1.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	2.4	2.3	2.6	3.5	4.0	5.2	5.4	5.4	5.2	2.5
NH3 Daily Mean	0.2	0.3	0.1	0.0	0.0	0.0	0.0	0.6	0.3	0.3	0.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.2	0.2	0.5	0.7	0.1	0.0	0.1	0.1	0.1	0.2
TOC Daily Mean	0.8	0.8	0.9	0.0	0.0	0.0	0.0	1.1	1.1	1.1	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.9	1.0	0.9	0.8	0.9	0.9	0.9	0.9	0.9	1.0
Particulate Matter Mean	1.2	1.1	1.2	0.0	0.0	0.0	0.0	2.6	3.2	2.4	1.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.1	1.1	1.1	1.4	1.9	1.2	1.1	1.2	1.3	2.2