



CABOT CARBON LTD
SULLY MOORS RD
SULLY
VALE OF GLAMORGAN
CF64 5RP

**ENVIRONMENTAL PERMIT BU2110IS
FUGITIVE EMISSIONS
ANNUAL REPORT CY2024**



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Quality & Environmental Manager
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Introduction

Cabot Carbon Ltd is required to undertake an annual review of fugitive emissions at the installation in accordance with their Environmental Permit BU2110IS, requirement 4.1.4, which specifies:

“The Operator shall review fugitive emissions, having regard to the application of Best Available Techniques, on an annual basis, or such other period as shall be agreed with the Agency, and a summary report of this review shall be sent to the Agency detailing such releases and the measures taken to reduce them within 3 months of the end of such period.”

The CY2024 fugitive emissions report addresses fugitive emissions from the permitted installation to air, water, and land, having regard to best available technique (BAT) and the measures taken by Cabot Carbon Ltd to reduce them. The Annual Fugitive Emissions data table is also attached for reference.

Highlights

We are pleased to report that there were no emissions of a significant or reportable nature in 2024. We have a proactive approach towards identifying and correcting minor problems, allowing for early detection of potential drips or wisps. In 2024 there were 40 releases recorded across 8 media categories, which is a 30% decrease in number of events over last year. The total amount of fugitive releases came to 407Kgs, with all releases being of a minimal volume. The largest release came from a fumed silica spill (200Kgs), this one event accounts for nearly 50% of the total fugitive emissions amount. Most spills and leaks were released to indoor areas or to small bund/containment thereby posing no pollution risk. Additionally, immediate clean up measures are completed to prevent spills/leaks from leaving boundaries of containment.

The most significant release in 2024 was, as mentioned, a fumed silica release. The release occurred during a tanker loading operation through a vent valve. During the preloading checks from the observation gantry the vent valve looked closed, and the cap cover secure. However during post incident investigation, we found that the cap was cross threaded underneath and the valve was slightly open. It was not possible to see this from the observation gantry point. This type of tank is no longer used for fumed silica loading and pre-loading checks by Cabot staff have been increased to prevent further instance of this type.

Cabot continued to focus on mechanical integrity programmes and risks of corrosion under insulation. Reliability improvements implemented in 2024, with some £3.4 million in capital expenditure during the year, included projects such as:

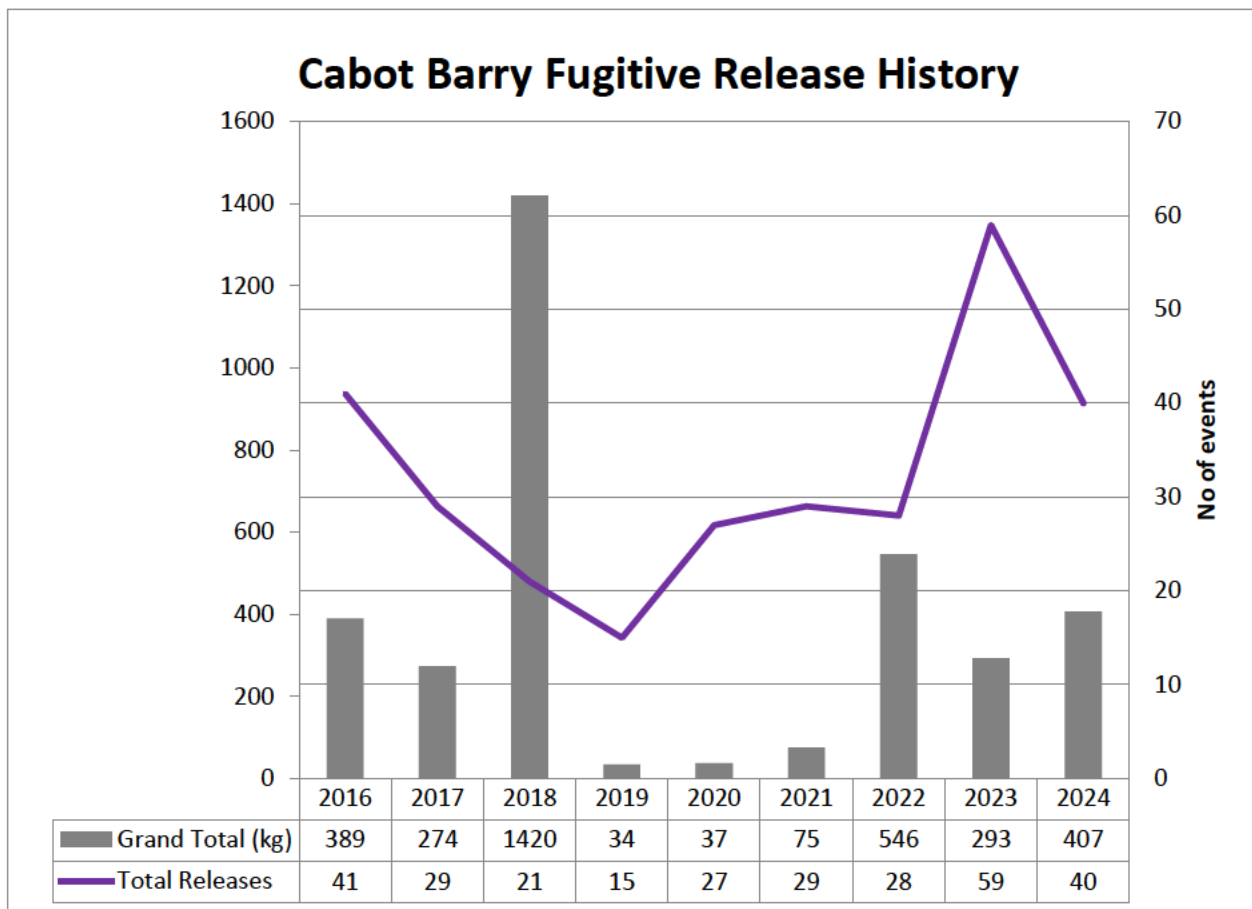
- Cooling tube replacement.
- Ammonia gas detection system
- AHCl Line replacement
- PTFE pipework renewal

Cabot are committed to continuously improving our Environmental performance, during 2025 we plan to continue our focus on reliability improvements through capital expenditure with another £2 Million budgeted for sustaining capital.

Operators monitor the plant routinely as part of Outside Operator duties and we are proud of our generative reporting culture, this promotes early detection and response to wisp and drip leaks and any failure modes. Details of all leaks and spills for 2024 are shown below.

Fugitive Release Breakdown

2024	Quantity KG	No.Fugitive Releases	
AHCl	26	3	Gas
Ammonia	5.0	1	Liquid
Fumed Silica	234.7	15	Solid
Glycol	50.0	1	Liquid
HCl	6.2	7	Liquid
Hydrogen	77.0	4	Gas
Oil (Non Feedstock)	7.1	8	Liquid
Sodium Hydroxide	1.0	1	Liquid
Total	407	40	



We continue with our 'Drive to Zero' philosophy. Environmental performance is a critical component of operational excellence and is carefully monitored at the Barry facility. Cabot is committed to being an industry leader and we endeavor to conduct our business in an environmentally responsible manner. There have been no other notable reported fugitive releases during the reporting period that warrant further comment.

End.

**** Cabot Barry: 14 years 3 months since last ENC (@ 28th March 2025) ***