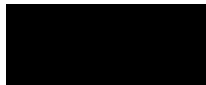




CABOT CARBON LTD
SULLY MOORS RD
SULLY
VALE OF GLAMORGAN
CF64 5RP

**ENVIRONMENTAL PERMIT BU2110IS
FUGITIVE EMISSIONS
ANNUAL REPORT CY2023**



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28.03.2024

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 CY2023 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 2023. We have a proactive approach towards identifying and correcting minor problems, allowing for early detection of potential drips or wisps. In 2023 there were 59 releases recorded across 8 media categories, which is an increase over last year. However, all but one of the releases in 2023 were very small, under 20Kgs. This resulted in the total amount of releases coming to 293Kgs which is a significant reduction on last year (546Kgs). Most spills and leaks were released to indoor areas or to small bund/containment thereby posing no pollution risk.

The most significant release in 2023 was due to a fault with a Boiler feed water dosing pump. A leak on the discharge tubing meant the chemical treatment agent had pumped out into the bund of the dosing hut. We estimate the release to be ~150L with all the released material being contained within the storage bund.

Cabot continued to focus on mechanical integrity programmes and risks of corrosion under insulation. Reliability improvements implemented in 2023, with some £2 million in capital expenditure during the year, included projects such as:

- Cooling tube replacement.
- Glycol condenser replacement
- Filter life extension
- Site radio system upgrade
- PTFE pipework renewal in the acid area

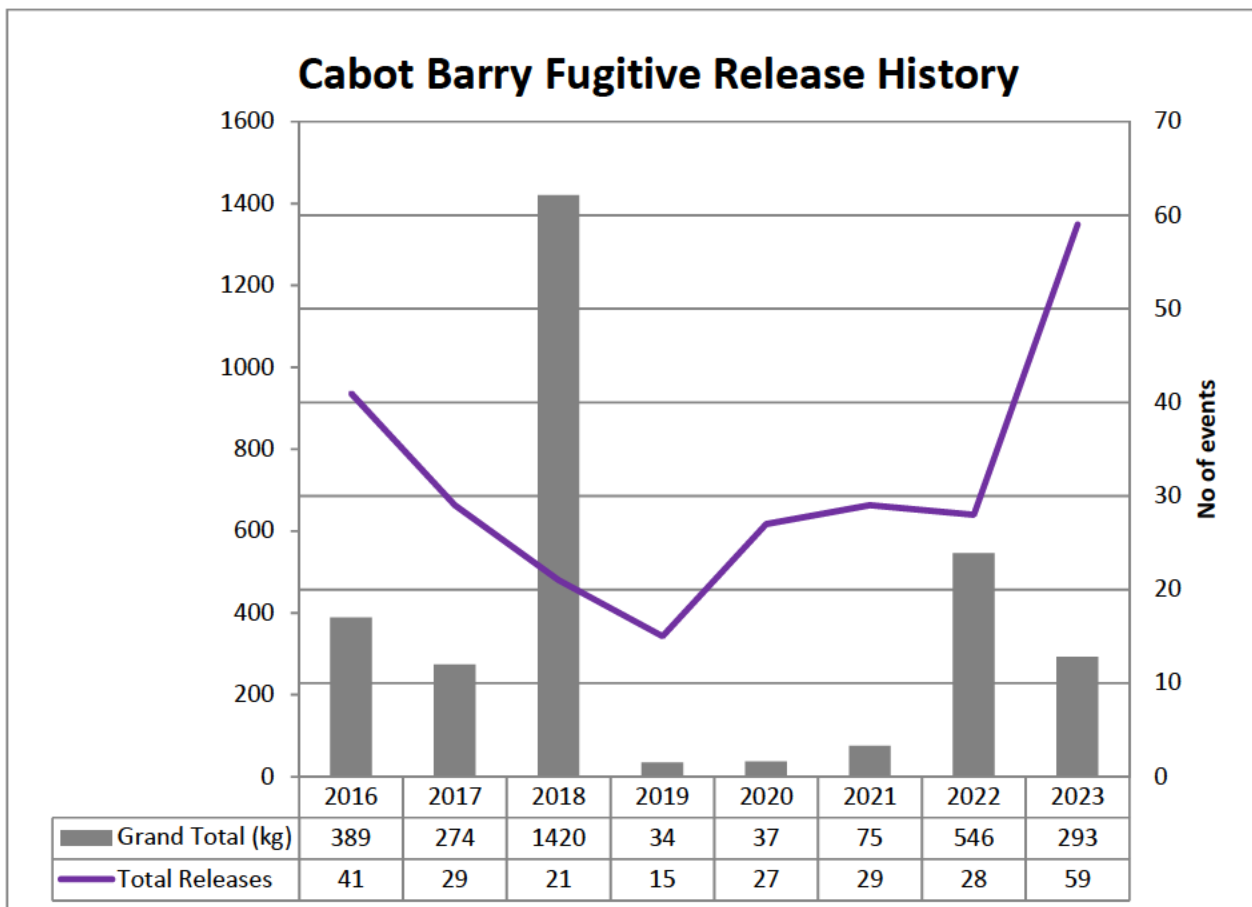
Cabot are committed to continuously improving our Environmental performance, during 2024 we plan to continue our focus on reliability improvements through capital expenditure with another £2 Million budgeted for sustaining capital.

As part of our sustainability 2025 goals Cabot implemented a Process Safety Management scorecard which aims to help us achieve our goal of reducing significant process safety events by 50%. As ‘loss of primary containment’ is classed as a process safety event this scorecard directly impacts the continuous improvement activities aimed at reducing fugitive emissions. It contains metrics on topics like mechanical integrity, Process Safety corrective action closure, Management of Change etc. We also continue to review the content and frequency of our Environmental preventative maintenance activities to ensure suitability and effectiveness.

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 2023 are shown below.

Fugitive Release Breakdown

2023	Quantity KG	No. Fugitive Releases	
Ammonia	0	1	Gas
Fumed Silica	86.3	29	Solid
Hydrogen	0.1	1	Gas
Oil (Non Feedstock)	10.3	10	Liquid
Sodium Hydroxide	0.5	1	Liquid
AHCl	12.1	4	Gas
Suez	157.2	5	Liquid
HCl	26.1	8	Liquid
Total	293	59	



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: 13 years 3 months since last ENC (@ 28th March 2024) ***