

CASE STUDY

AVON ENERGY PARTNERS



EMISSION INVENTORY AUTOMATION

The Client:

THE
BILLINGTON
GROUP

The Billington Group is a prominent, family-owned business, specialising in good and agricultural products, operating in several sectors including food manufacturing, agricultural supplies, and commodity trading. Key subsidiaries of The Billington Group include Billington Foods, English Provender Company, and Carr's Billington. The Billington Group has committed to becoming net-zero in its own operations by 2040, and to become net-zero in its supply chain by 2050.



Growing for the Future - The Billington Group

“Business as usual – particularly for the food and agriculture industries – will not secure the future the world needs.” – The Billington Group

The Challenge:

Large food businesses, often operating across multiple entities and employing thousands of employees, need a systematic, practical way to monitor emissions across their entire value chain. This includes emissions from their own operations, such as fuel and electricity use, as well as those generated throughout the supply chain, from purchased goods and services and transport and distribution, to business travel, employee commuting, and even the end-of-life treatment of their products.

The Billington Group needed a reliable way to:

Measure and monitor carbon emissions across large subsidiaries	Identify emission hotpots and opportunities for reduction
Process thousands of datapoints with confidence	Deliver accurate, up-to-date emissions data for regulatory reporting and SBTi submissions

Without a comprehensive Emissions Inventory, decisions on reduction strategies, supplier engagement, and broader business planning cannot be informed by credible, reliable, and relevant data, risking the implementation of ineffective or misdirected reduction strategies.

The Solution:

Since 2023, Avon Energy Partners has produced The Billington Group’s emissions inventory. For the 2025 inventory, this process was upgraded through the implementation of an automated emissions inventory tool, enabling faster processing, improved data quality controls, and more consistent outputs.

The tool allows users to:

Pull raw data directly for analysis	Update Emission Factors across the board
Our automated emissions inventory tool enables users to pull raw data directly into a standardised input file, which then automatically processes the inputs, performs analysis, and generates emission outputs.	A central hub for emission factors enables users to update factors as often as required in one place, removing the need to update factors within individual files.
Streamline analysis	Identify emission hotspots and key drivers
Predefined inputs, calculations, and formulas allow users to enter data quickly and immediately review emissions outputs. Removing the need for manual calculations and time-consuming data processing, while increasing confidence in results.	A feature of the tool allows users to automatically generate insights from the GHG Emissions Inventory, including Scope 1, 2, and 3 emissions tables, waterfall charts, key drivers, and FLAG/Fossil pie charts.

How we delivered value

Raw Data Support	We supported The Billington Group during their data collection stages, working directly with suppliers, internal teams, and department heads to ensure the data gathered was relevant, complete, and of an appropriate standard.
Constant Communication	We worked closely with the sustainability team, providing guidance and support as questions and queries arose, ensuring each stage of the process maintains momentum and is not delayed.
Data quality first	By working closely with The Billington Group, we ensured that all data collected met a high standard of quality and reliability.
Emission Factor Confidence	With emissions factors monitored in a central hub, we ensure all factors used are consistently reviewed, kept up to date, and aligned with the most accurate data available.
Output Reliability	By automating the analysis process, working closely with The Billington Group, and maintaining emission factors through a central hub, we were able to deliver GHG emissions inventories with a high level of confidence in its accuracy and reliability.

Outcomes and Impact

GHG Emission Inventories from 2019-2025	Identification of emission hot spots and reduction strategies	SBTi alignment and measurement against targets
Full GHG and FLAG-aligned emissions inventories covering seven entities (2019-2025).	Detailed analysis of Scope 1, 2, and 3 emissions to highlight key drivers and inform targeted, high-impact reduction actions.	Robust, consistent data to enable credible SBTi submissions and year-on-year progress measurement against targets

Why this case matters:

Reliable and accurate GHG Emissions Inventories are essential for businesses to report emissions confidently to stakeholders, regulators, and the public. They also enable organisations to identify effective, business-specific reduction strategies, avoiding generic approaches that may irrelevant or ineffective.

Contact

AVON ENERGY PARTNERS



Email: will@avonenergypartners.co.uk

LinkedIn: <https://www.linkedin.com/company/avon-energy-partners/>

Website: <https://www.avonenergypartners.co.uk>