

Chemifloc Sustainability Plan

Evan Lawless

Strictly Confidential – Not for Distribution

Definition of sustainability

"Meeting the needs of the present without compromising the ability of future generations to meet their own needs"



There are compelling business reasons for our sustainability commitment



We are undertaking this sustainability initiative because it's the right thing to do, transcending the label of mere 'tree-huggers'. There are compelling business reasons for this commitment as well.

- We recognise that there is an increasing demand from our customers for sustainable practices.
- Our customers Irish Water are aspiring to be carbon-neutral by 2040, integrating sustainability plans into their tender processes.
- We are aware that, especially among younger individuals, there is a strong desire to join a company that prioritises sustainability, a goal towards which we are actively making strides.



Sustainability encompasses these elements as well as sustaining our own business





Its important not to get Carbon tunnel vision and miss the bigger picture

Carbon Tunnel Vision

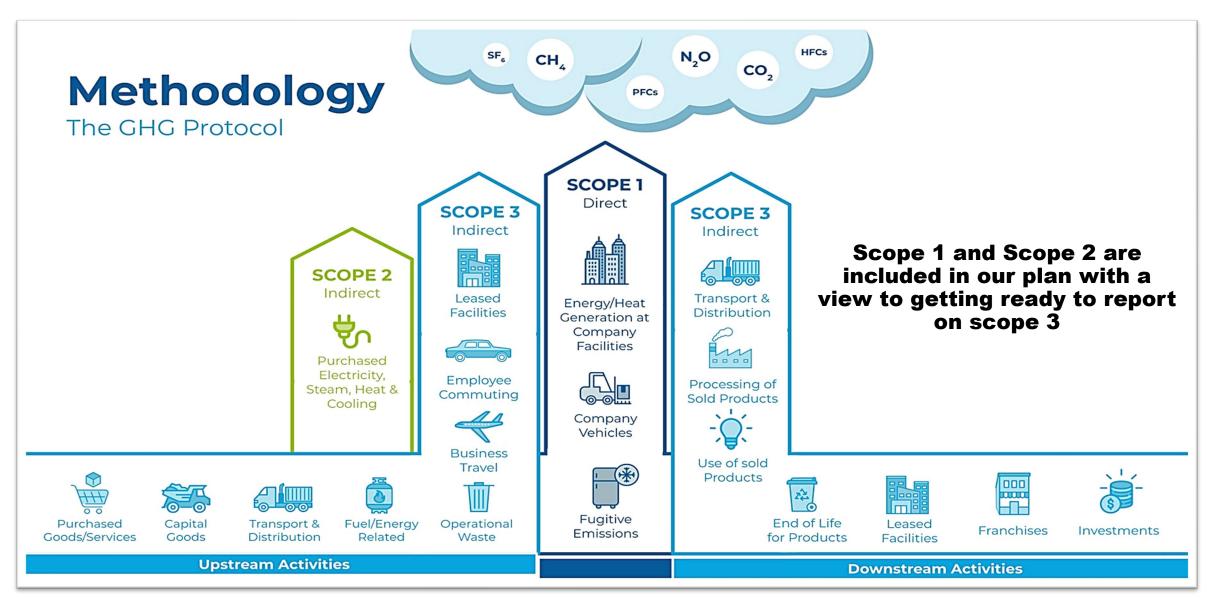
Missing the big picture

	Biodiversi	ty loss	
	Habitat destruction	Wildlife loss	
Fresh	water scarcity	Species	sloss
Air pollut	ion	E	xtinction
Water polluti	on		Widespread toxic pollutants
			Overpopulation
			Carbon emissions
			Overconsumption
\bigcirc		Ove	rdevelopment
Deforestati	on		
2	Zoonotic disease	Soil conta	mination
	Eutrophication	Erosion	



Declining carrying capacity

Carbon reporting is broken down by scope



The journey so far



The Circular Economy

- Chemifloc is a member of INCOPA (Carbon footprints of inorganic coagulants produced by INCOPA member organisations)
- Chemifloc produce aluminium-based coagulants by using an increased quota of a by-product, Aluminium Hydrate.

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0		

Transport

- Chemifloc have invested in a Fuel-Efficient Fleet.
- Chemifloc has implemented load size optimisation all bulk loads where applicable are now 30T (utilising split loads).
- Load efficiency has gone from 46% to 83%
- Chemifloc are making use of driver knowledge and familiarisation to optimise routes



Continuous Improvement

- Chemifloc have begun to roll out lean manufacturing and 6S
- Chemifloc are investing in energy efficient process design (Implementation of Heat Exchangers, in Foynes and Shannon, New loading gantries in Shannon and Foynes).
- Chemifloc are committed to retaining their integrated ISO management standards (ISO 14001, ISO 9001 and ISO 45001)



Biodiversity

- Chemifloc have committed to the All-Ireland Pollinator Plan.
- First action completed Promote the All-Ireland Pollinator Plan to employees.

The Process

Chemifloc Group Sustainability Champions





Mike Hayes GI Chemicals

Julita Fox Laboratory



Ronan Beaty Engineering



Evan Lawless Transport



SHEQ

Lia Sheehan





Tracy Hynes Finance

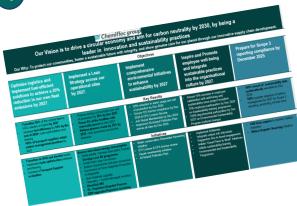
Shane Kenrick Finance



A process to develop the objectives and key results







WHAT: Development of Strategic Objectives and key results





2

Data baseline and future estimates to lock in KPI targets



HOW: Initiatives Brainstorm; Current and New

oup

6 Project Charters developed and timeline planning 3months to 24months

Vision and Why

Our Vision

Sustainability

Our Why

To be part of a circular economy and strive to be carbon neutral by 2030, blending commercial success with environmental stewardship for the benefit of our stakeholders and the planet. To protect our communities, foster a sustainable future with integrity, and show genuine care for our planet through our innovative supply chain development.



Chemifloc Sustainability Vision

To be part of a circular economy and strive to be carbon neutral by 2030, blending commercial success with environmental stewardship for the benefit of our stakeholders and the planet







TRANSPORTATION

Be fuel efficient achieving 20% reduction in emissions

• 30% of Fleet to HVO, or

Alternative by 2027

efficiency via truck route optimistation and

• 5% annual Fuel

driver training

• HVO or Alternative

Route optimistation

& refining routes

initiatives e.g., Telemetry



2024 to 2030



OBJECTIVES





OPERATIONAL Deliver net Zero by Implementing a Lean Strategy across our sites	ENVIRONMENTAL Be a leader in Sustainability, Implementing yearly initiatives	PEOPLE Champion well-being and PEOPLE centric sustainable practices	COMPLIANCE Be COMPLIANT in Scope Reporting
 20% Energy Reduction by 2027 25% reduction in non-value add activity (Lean) Strive to achieve an Energy award by 2027 	 KEY RESULTS 20% mains water reduction p/unit of production by 2026 EPA License by Sept 2024 Deliver the All-Ireland Pollinator Plan by Dec 2024 	 80% satisfaction from well-being and sustainability programs 75% employee participation on Sustainability training programme by Dec 2025. 	 100% of sustainability data recorded by Dec 2027 75%+ supplier adoption of carbon management by 2027. 100% of transport suppliers adopt carbon management
 Solar panels Lean strategy initiatives deployed across the sites e.g., Site layout 	INITIATIVES • Water conservation /Rainwater harvesting • EPA license review • All Ireland Pollinator Plan	 Environmental and Sustainability Programmes – mental health & well-being Initiate sustainability training New Building for wellbeing & collaboration 	 practices by Dec 2027. Measure Sustainability Data Ethical Supplier Sourcing Initiative Conduct a Transport Supplier evaluation.







OBJECTIVES





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Be fuel efficient a 20% reduction in (•	Deliver net Zero by Implementing a Lean Strategy across our sites	Be a leader in Sustainability, Implementing yearly initiatives	Champion well-being and PEOPLE centric sustainable practices	Be COMPLIANT in Scope Reporting
			KEY RESULTS		
 10% of Fleet mo HVO on a pilot b 		 Solar panel assessment and cost benefit analysis across all sites completed by Dec 	 Set up infrastructure to capture roof water from the Shannon site by Dec 2024 	 100% Core team trained on Sustainability By Dec 2024 	 Scope 1 & 2 sustainability data recorded by Dec 2024
 Driver training c by Dec 2024 	ompleted	2024• a Lean Champion onboarded	• EPA License by Sept 2024	 100% of Senior Management trained on Sustainability By Dec 2024 	 Supplier Sustainability criteria to be developed by May 2024
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Measuring Sustainability

Fueling our Transport

- The volume of Fuel used in our trucks.
- Fuel Efficiencies
- Carbon per tonne

Process

- The amount of **Electricity used** in our facilities
- The amount of **process waste** we can eliminate through Lean

Environment

- EPA Licence compliance
- Mains Water conservation
- Implementation of pollinator plan initiative

People

The number of people that participate in "**Sustainability programmes**" (Wellbeing, community, training etc)

Compliance in sustainability reporting

• Being compliant and measuring reporting on our sustainability and carbon footprint goals.

Sustainability Area	Metric	% by 2030	
Energy Consumption KWh of energy used per tonne of product produced – Electricity usage using solar Electricity c02 carbon		B:832887kwh 20% Net Zero	
Carbon Footprint	Tonnes of CO2 equivalent emitted per product unit Tonnes of CO2 equivalent emitted per kilometer driven	Strive for 0% 30% reduction	
Water Use and Wastewater Management	Liters of Main water used per tonne of product produced – Mains water usage and wastewater to drain	Strive for 20% reduction B: 45,604 cubic M	
Supply Chain Sustainability	Number of suppliers compliant with our sustainability criteria	Strive for 100%	
People Engagement	Satisfaction from Employee engagement projects initiated per year	Strive for 80%+	
Environment	IED and EPA Licence compliance Implementation of pollinator plan	100% 100%	
Compliance in sustainability reporting	Fully compliant and measuring reporting on our sustainability and carbon footprint goals.	Strive for 100%	

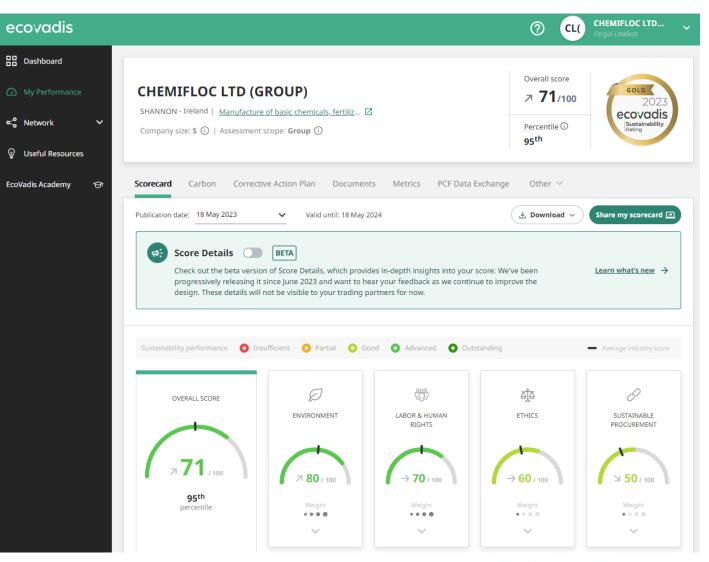


EcoVadis Score

The EcoVadis sustainability assessment is a service to assess your company's material sustainability impacts based on documented evidence. The EcoVadis sustainability assessment is organized into four stages: Registration. Questionnaire. Expert analysis.

It is considered to be the standard within the chemical industry.

Chemifloc are currently in the 95th percentile.





How we will govern this process

Each champion has been selected for their expertise and commitment to sustainability

They will **undergo specialised training** to further enhance their knowledge and leadership in their respective areas.

They will also participate in a weekly core meeting to drive and monitor progress against our sustainability plan.

Breakdown of responsibilities:

- **Evan** will lead our efforts in **Transport**. He will focus on making our transport logistics more sustainable.
- **Sarah Brew** is appointed as the champion for the **Environment**. Her role will cover all initiatives aimed at reducing our environmental impact.
- Lia Sheehan will take charge of integrating sustainability into our HR practices, focusing on training and employee engagement.
- Ronan Beaty, Julita Fox and Mike Hayes will jointly oversee Operations, ensuring that our production processes are environmentally friendly and efficient across all sites
- **Tracy Hynes** will be responsible for our suppliers and managing supplier adoption of carbon management by 2025 for Scope 3 reporting
- Shane Kenrick will be responsible for **Reporting**. He will maintain transparency and keep all stakeholders informed of our progress.
- The sustainability metrics will become part of our business scorecard to ensure we keep this in sight along with our business metrics.

These champions are not only responsible for their individual areas but are also key to ensuring that sustainability becomes the culture of our daily operations.



Detailed Sustainability plans



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Sustainability Area	Metric Description	КРІ		2022 (baseline)	2023	2024	2025	2026	2027
Carbon Footprint	Tonnes of CO2 equivalent emitted by Fuel used for Trucks	CO2 equivalent emitted by Fuel used for Trucks	Calc	1321					
Carbon Footprint Electricity usage – power emitted onsite Co2 Electricity Co2		Calc	234.8						
Carbon Footprint	Tonnes of CO2 emitted per tonne sold	Emissions per tonne sold – scope 1 & 2	Calc	0.0092					
Carbon Footprint	Tonnes of CO2 emitted per tonne sold	Emissions per tonne sold – scope 3	Calc based on assumptions	TBD					
Energy Consumption	kWh of energy used per tonne of product produced	20% Energy Reduction by 2027.	Solar panels	832887kwh					
Fleet Fuel	Transition of fleet to	30% of Fleet to HVO, or Alternative by 2027 5% annual Fuel efficiency via truck route optimistation and driver training	Fleet optimistation	16 Trucks Pilot in 2024					
Waste reduction		25% reduction in non -value add activity by 2027	Lean initiatives	TBD					
Water Use and Wastewater Management	Litres of water used per tonne of product produced	20% mains water reduction p/unit of production by 2027 through water conservation	Water management	45,604 cubic M – strive for 20% reduction					
Supply Chain Sustainability	Number of suppliers compliant with our sustainability criteria	75%+ supplier adoption of carbon management by 2027 for Scope reporting.100% of transport suppliers adopt carbon management practices by Dec 2027.	Scope compliance 0%	TBD but Strive for 100%					
Employee Engagement	Number of employee engagement projects initiated per year	80% satisfaction from well-being and sustainability programs 75% employee participation on Sustainability training programme by Dec 2025.	Sustainable HR	0% participation – Strive for 75%+					
Social and Community Engagement		Deliver the All-Ireland Pollinator Plan	Environmental	0%					