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BUILDING YOUR ESG ROADMAP

H&MV's ESG guide to help Suppliers and
Subcontractors on their journeys



ENVIRONMENTAL



SOCIAL



GOVERNANCE





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A Brief Introduction to ESG

Chapter 1



Chapter 1: A Brief Introduction to ESG

Why Use this Guide?

This ESG guide is designed specifically for suppliers and subcontractors working on H&MV Engineering projects. It will help you understand and implement Environment, Social and Governance Practices.



Benefits of using this guide:

- Clear expectations on how to start your ESG journey with H&MV
- Understand and thrive in ESG concepts
- Gives practical tools and resources
- Potential cost savings
- Getting ahead of mandatory compliances
- Enhancing Business reputation and future proofing your business

What is ESG?

ESG stands for Environmental, Social and Governance. It is a framework used to evaluate the sustainability and ethical impact of a business.



Environmental, how we can reduce our impact on the planet by adopting sustainable practices, addressing climate change, efficient resource management, & waste reduction



Social, how we manage our relationships with employees, clients, suppliers & communities



Governance, the policies and processes we operate to at H&MV Engineering

What is ESG?

By considering ESG factors, companies can mitigate potential risks, attract investors, reduce costs and build a positive reputation. ESG also aligns with evolving consumer and societal expectations and regulatory trends, ensuring businesses operate responsibly and contribute to a sustainable future.

H&MV ESG statement

At H&MV, we believe these three pillars do not exist in silos. They are captured under one banner to demonstrate the positive impact we can have on the world.





Chapter 1: A Brief Introduction to ESG

What is ESG?

The 3 Pillars of ESG, Environmental, Social and Governance. This section will go through what aspects of each pillar you can improve on, and we will give you tools, tips and tricks in how to excel in that area.



- Carbon Emissions
- Biodiversity
- Energy Consumption
- Climate Change
- Waste Management
- Water Management
- Resources
- Circular Economy



- Human Rights
- Health & Safety
- Wellbeing
- Equality Diversity & Inclusion
- Employee Relations
- Attraction & Retention
- Communities



- Accounting
- Transparency
- Board Composition
- Bribery & Corruption
- Shareholders Rights
- Data Protection

There are 14 ESG objectives at H&MV which fall under the three pillars of ESG.

Environmental



Social



Governance



The objectives include aspects such as decarbonisation, biodiversity conservation, reducing waste, attracting top talent & promoting a diverse workforce, ethical conduct and quality management. The following chapters will outline some of the work being done at H&MV.



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Environmental

Chapter 2



Chapter 2: Environment

The Pillars of Environmental

The environmental pillar of ESG focuses on how a company manages its impact on the planet. This includes reducing carbon emissions, conserving natural resources, promoting energy efficiency, and implementing sustainable practices that protect ecosystems and biodiversity. It's all about minimizing environmental risks and contributing to a healthier, more sustainable future.





Chapter 2: Environment

Carbon Emissions

Carbon emissions are the release of carbon dioxide and other greenhouse gases into the atmosphere. These emissions get trapped in the earth's atmosphere and contribute to climate change.

There are 3 main areas carbon emissions are broken into:

Scope 1: Direct emissions

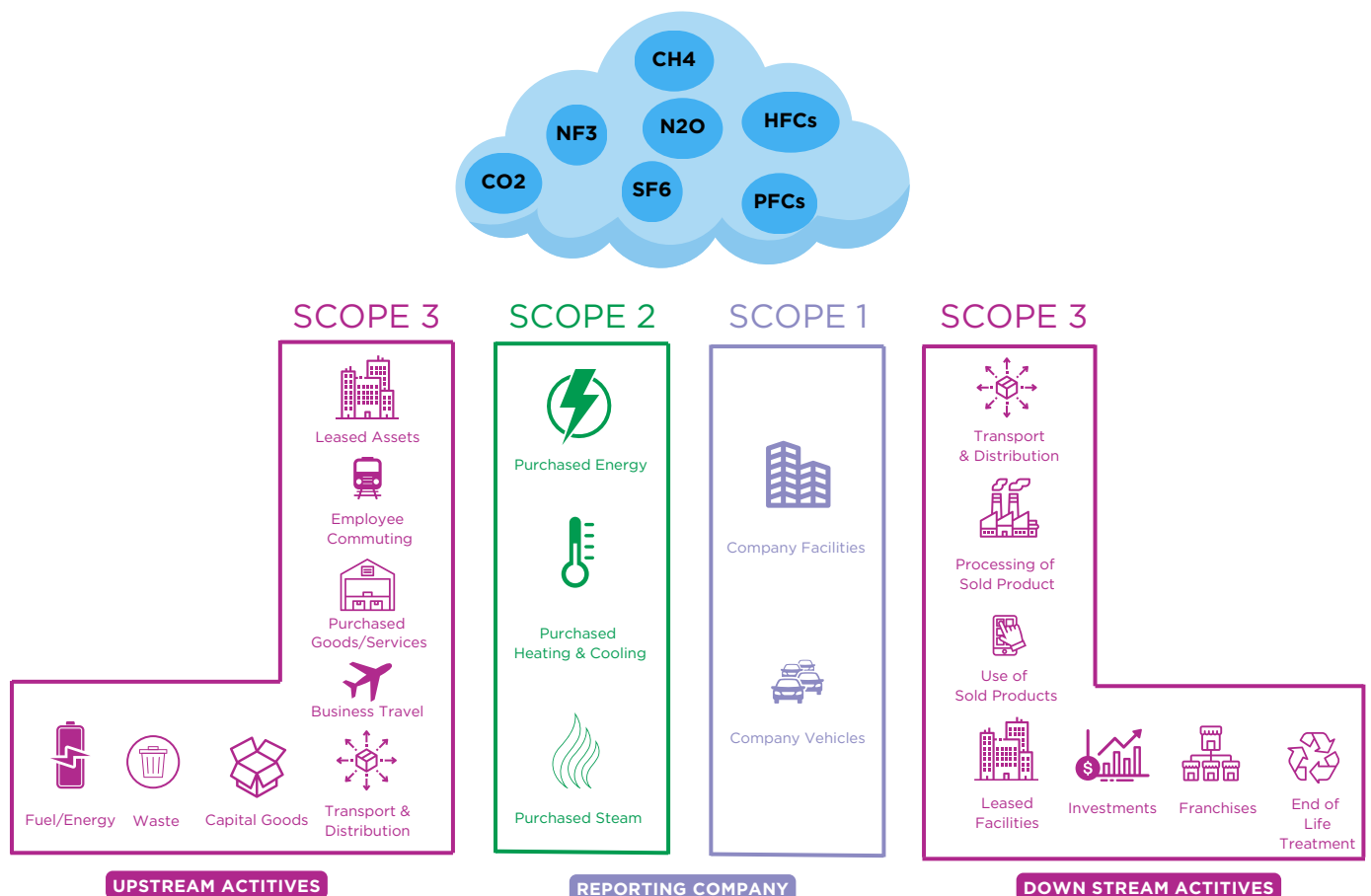
- Fuel Combustion on site
- Company Vehicles

Scope 2: Indirect emissions

- Electricity and Gas purchased by the company.
- Heat or Steam purchased by the company

Scope 3: Indirect emissions

- Value Chain
- Business transportation (flights, train, taxis, sail, etc)
- Waste
- Employee commuting
- Purchased goods and services





Chapter 2: Environment



Energy Transition 101: What is scope 1,2,3 emissions?

This video provides a foundational understanding of these scopes and their role in managing carbon footprints during the energy transition. You can watch the video above for an explanation on these Scopes!

How to calculate your Carbon Footprint

On paper, the calculation of a carbon footprint is relatively straight forward.

There are 3 steps:



1. Identify Sources: e.g., Company vehicles, electricity, waste.



2. Collect Activity Data: Activity data are quantitative measures of a level of activity that results in GHG emissions. E.g., kWh of electricity, litres of fuel, kilometres travelled, tonnes of recycling.



3. Quantify Emissions: Using an emission factor, that correctly pertains to the activity data, you can quantify emissions.

To see a worked example of emissions calculation, please refer to the [here](#).

You can also read more about emission factors [here](#).



Chapter 2: Environment

Tools to help you:

Carbon Footprint Calculator



The Carbon Footprint Calculator on carbonfootprint.com allows individuals and households to estimate their carbon emissions based on factors like energy use, transportation, and waste. It provides a free tool to track emissions, offering practical steps for reducing your footprint. Users can also offset their emissions by supporting various carbon reduction projects, with the option to receive a personalized certificate. The tool helps raise awareness of climate change impacts and encourages sustainable living practices.

You can access it here: [Carbon Footprint Calculator](https://carbonfootprint.com).

Equipment CO2 Calculator

The ERA Equipment CO2 and TCO Calculators are free, independent tools that help users evaluate the economic and environmental impact of construction equipment. The CO2 calculator estimates the carbon footprint based on lifecycle assessments, while the TCO calculator computes the total cost of ownership, including factors like maintenance and fuel use. These tools are designed to assist in making informed choices when managing equipment fleets.

You can explore it further here: [ERA Equipment Calculators](https://era-equipment-calculator.com).



Supply Chain Sustainability



The Supply Chain Sustainability School's free carbon calculator helps businesses in supply chains assess and reduce their carbon emissions. It allows users to measure the environmental impact of their operations and identify opportunities for improvement. The tool is designed to support sustainability efforts, providing insights into carbon reduction strategies tailored for supply chains.

You can find more information here: [Supply Chain Carbon Calculator](https://supply-chain-carbon-calculator.com).



Chapter 2: Environment

What is H&MV Doing to Reduce Their Emissions?

Electronification of the fleet



Electrifying H&MV's fleet is a key part of our drive to reduce our carbon footprint and boost sustainability. By gradually shifting from traditional fuel-powered vehicles to electric ones, we will cut emissions and running costs significantly over time. This move aligns with our ESG objectives, enhances energy efficiency, and lessens our dependence on fossil fuels.

Embracing EV's positions H&MV for a greener future, ensuring our fleet is environmentally responsible and supports our long-term sustainability goals.

Across offices and sites we have installed Electric Vehicle chargers to make the transition to EV's more smooth, allowing our clients and staff to make the most out of their Electric Vehicle.

We're proud to announce that this shift has resulted in an estimated reduction of 18,605 kg of carbon emissions.



When were electric cars first on our roads?

Electric cars first hit the road in the 1830s and, by 1900, dominated a third of the U.S. market, until gasoline engines took over, thanks to Ford's affordable Model T. Now, EV's are making a comeback, closing the loop on a century-old rivalry.





Chapter 2: Environment

Green Site: How to reduce carbon footprint on site

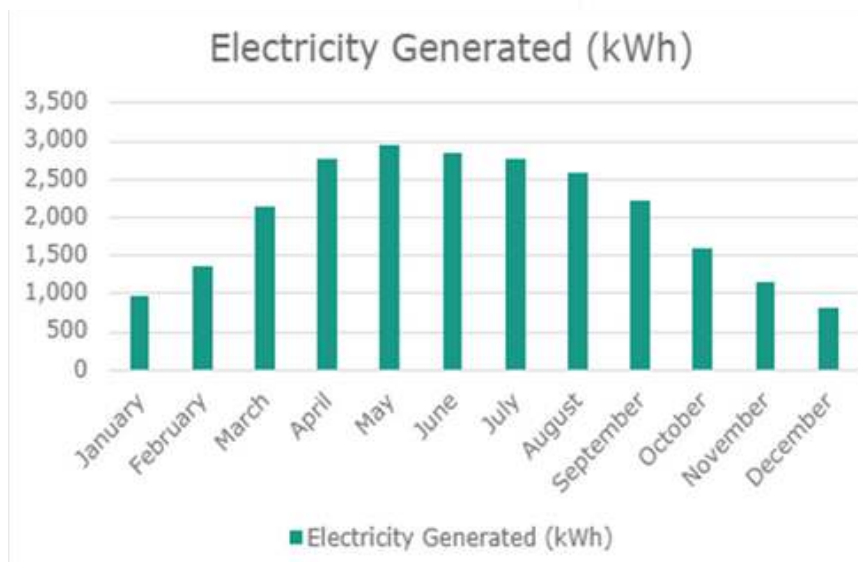
Diversifying our Energy Source with Solar



H&MV Engineering is committed to sustainability through our Green Site initiative, which includes the installation of a 26.4 kWp solar array. This array is designed to harness renewable energy, cut carbon emissions, and improve energy efficiency. By incorporating solar technology, we enhance our operations and contribute to a low-carbon economy. Our Green Site initiative supports our environmental goals, ensuring we minimize our carbon footprint while maximizing energy output and benefits for the community and the environment.

Potential annual savings for our Green Site is 19.56 Tonnes of CO₂ and 24,064 kWh of electricity, resulting in savings of €8,163 per annum!

19.56 Tonnes of CO₂ is the equivalent of driving a car 1.3 times around the globe



A common misconception is that solar panels doesn't generate enough electricity in Ireland's winter, but solar technology works efficiently even on cloudy days, producing energy year-round. Just look at the output of our Green Site array!



Chapter 2: Environment

Bringing in the Light

LEDs with Passive Infra-Red (PIR)

At the Green Site project, we use LED lighting and Passive Infrared (PIR) sensors to boost energy efficiency. LEDs consume less energy than traditional bulbs, providing bright light while reducing our carbon footprint. PIR sensors detect motion and automatically turn lights on and off, minimizing energy waste. This combination improves safety on-site and helps us achieve our sustainability goals.



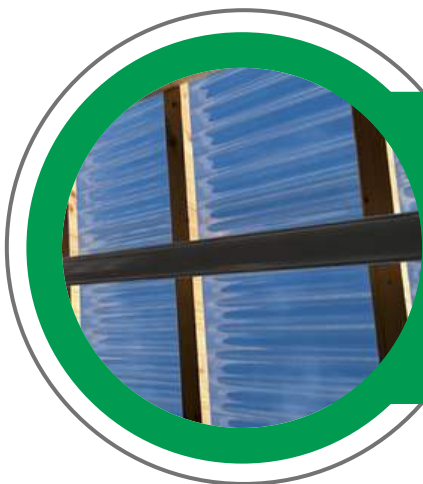
Solar Light Emitting Diodes (LEDs)

We use solar LED lighting towers to promote sustainability. These towers harness solar energy to power bright LED lights, reducing reliance on traditional energy sources. By using solar LED lighting, we lower our carbon footprint and enhance safety on-site while minimizing energy costs.



Daylight Savings

We've designed our Green Site welfare setup to bring in more natural daylight, reducing the need for artificial lighting. This approach cuts down on energy use while creating a more comfortable and sustainable work environment.





Chapter 2: Environment

Rainwater Harvesting



Rainwater harvesting plays a critical role in achieving our Environmental goals. By collecting and storing rainwater from the roof tops of our site cabins we significantly reduce our reliance on traditional water sources.

This system not only helps in conserving water but also minimizes stormwater runoff, which can lead to erosion and pollution. The harvested rainwater is utilized for flushing toilets and other non-potable uses, ensuring that we make the most of this natural resource.

Ireland's National Planning Framework supports rainwater harvesting in homes and businesses, seeing it as part of a sustainable solution to increasing urban water demand.

Solar Powered CCTV



We have implemented solar battery-powered CCTV systems across our green site. This innovative approach not only enhances safety but also aligns with our eco-friendly values.

The solar panels harness renewable energy from the sun, powering the CCTV cameras without drawing from the grid. This reduces our overall energy consumption and minimizes our carbon footprint. The battery storage ensures that the cameras operate efficiently, even during cloudy days or at night.





Chapter 2: Environment

Pollution Control and Waste Management



Pollution control refers to the measures taken to reduce or eliminate the release of harmful substances into the environment, including air, water, and soil. It aims to limit the adverse effects of industrial activities, transportation, and other sources of pollution.

Below are some examples of pollution control H&MV Engineering have deployed on our work sites.

Refuel Areas



All refuel containers on H&MV sites are double-skinned to ensure the best available protection is provided to the environment, minimising accidental spillages. They have a valid leak-proof test and CE certificate. At every refuel area there is an Oil Spill kit (30L minimum size) and a fire extinguisher, to deal with any emergencies and appropriate signage. When the process of refuelling is taking place, control measures like drip trays are used.



Chemical Storage



Chemicals/hazardous being stored on site are left in CoSHH/Chemstores. A CoSHH folder with data sheets are available on the site for all the chemical/hazardous materials. All chemical storage has Chemical Spill kit in the close vicinity to it in case of any spills.





Chapter 2: Environment



Pollution Control for Watercourses

When there are open watercourses on or close to the site, silt fencing is put in place to ensure best practise of environmental protection. Additional control measures like straw bales, check dams, silt socks and earth bunds are implemented too.



Wheel Wash



Wheel wash systems are designed to clean the tires and undercarriages of vehicles exiting construction sites, preventing mud, dirt, and debris from being carried onto public roads. This helps maintain road safety, reduces environmental pollution, and ensures compliance with local regulations on site cleanliness. These systems can be manual or automated, using high-pressure water jets to remove debris. Regular use of wheel washes minimizes the risk of road contamination, reduces the need for road sweeping, and helps project sites maintain a positive community impact.

Concrete Washout



Concrete washouts on sites are used for concrete truck washings after concrete loads has been delivered. The location for this washout is always 50 m away from any watercourses, with barriers and signage in place.



At H&MV's Coalburn site in the UK, a new concrete washout system has been implemented. This system is set to be tested at a new site in Ireland soon. It features a pH correction system using CO2 tanks. The washout operates as a closed-loop system, treating water for reuse in washing the next concrete truck. It includes an internal filter sack that is regularly replaced, and all solid concrete waste is disposed of by a contracted waste vendor off-site.



Chapter 2: Environment



Environmental Protection for Small Equipment/Drums

When small equipment or drums containing fuel, oil, or hazardous materials are present on site, drip trays or plant nappies are employed to prevent environmental contamination from accidental spills. These trays and nappies catch any leaks or drips, providing an essential barrier between hazardous substances and the ground. This proactive measure helps to minimize the risk of pollution, ensuring compliance with environmental regulations and safeguarding the surrounding ecosystem. Regular monitoring and maintenance of these containment systems are essential to their effectiveness.



Biodiversity



At H&MV, we are committed to preserving and enhancing biodiversity in the environments where we operate. As part of our sustainability initiatives, we collaborate with organizations like 'Hometree' to plant native trees, creating habitats for wildlife, supporting local ecosystems and carbon capturing. By integrating biodiversity into our operations, we contribute to healthier ecosystems, which in turn help to combat climate change, promote cleaner air, and enhance the natural beauty of the communities we work in.

Species Document



H&MV creates detailed documents on the various species of animals that can be found in the surrounding area of our sites. These documents are designed to raise awareness, spark interest, and encourage the protection of local wildlife. By educating employees and visitors about the species present, H&MV aims to foster a deeper connection to nature and ensure the safety and conservation of these species within the environment where the company operates.

Most common species	Species specific nesting season	Breeding
Woodpigeon 	Early March to Late August	Breeds throughout Ireland & UK, only in the higher hills and mountains are they absent.
Robin 	Mid-March to Mid-June	Breeds throughout Ireland & UK. Nests in a bank, ivy or cavity in tree or wall. Will use open-fronted nestboxes.
Blackbird 	Mid-March to Mid-June	Breeds throughout Ireland & UK mainly in hedgerows. Nest in trees or bushes - especially brambles and ivy. Will use large open-fronted nestboxes.
Song Thrush 	Mid-March to Mid-June	Breeds throughout Ireland & UK mainly in hedgerows. Nest in trees, bushes, ivy and brambles.
Jackdaw 	Mid-March to Mid-April	Breeds throughout Ireland & UK. Nesting areas include buildings, chimneys and in tree holes.
Rock 	Late March to Early May	Breeds throughout Ireland & UK. Nest in the tops of trees.
House Sparrow 	Late March to Mid-July	Breeds throughout Ireland & UK. Nests in cavities in buildings and under eaves. Will use nestboxes.
Collared Dove 	March to September	Breeds throughout Ireland & UK. Nests in buildings and trees.



Chapter 2: Environment

Construction Environmental Management Plan (CEMP)

H&MV implement CEMP across all sites to manage and mitigate the environmental impacts of a construction project. Its purpose is to outline measures to minimize negative effects, ensure compliance with environmental regulations, and establish monitoring procedures for environmental performance. The CEMP promotes sustainable practices and facilitates communication among project teams and stakeholders about their environmental responsibilities. Ultimately, it aims to protect the environment while allowing for the successful execution of the construction project.



Workshops and Awareness Talks



H&MV has organised workshops and awareness talks to spark interest among staff such as talks about endangered and invasive species. These sessions dive into the real-world issues these species face and what we can do to help. By sharing knowledge and encouraging discussions, H&MV aims to create a deeper connection to the environment and inspire everyone to get involved in conservation efforts. It's a great way to foster a culture of care for our natural world within the company.



Circular Economy



We do our best to re-use waste material to encourage zero waste and circular economy. The target is to have zero waste to landfill by 2028, and we are continuously adapting and searching for new ways to work step by step to this goal. Some of our initiatives include building bee boxes out of waste wood, hanging flower baskets from discarded hard hats and partnering with Glasgow wood, who reclaim and reuse waste timber. By doing these, we are getting closer and closer to our goal.





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Social

Chapter 3





Chapter 3: Social

The Pillars of Social

The social pillar of ESG looks at how a company manages its relationships with employees, suppliers, customers, communities and other stakeholders in which it operates.

ESG 09 - Attraction & Retention



Develop a 90-day onboarding program and implement the Great Place to Work initiative in the UK and Ireland to boost retention rates from 80% to 86%

ESG 10 - Equality Diversity & Inclusion



Enhance gender balance by pursuing Irish Centre for Diversity Bronze and Silver certifications and conducting a Gender Gap Analysis

ESG 11 - Safety & Wellbeing

Reduce Lost Time Incidents by minimizing accidents and promoting safe driving practices. Empower staff with more SSDs to maintain high situational awareness on site

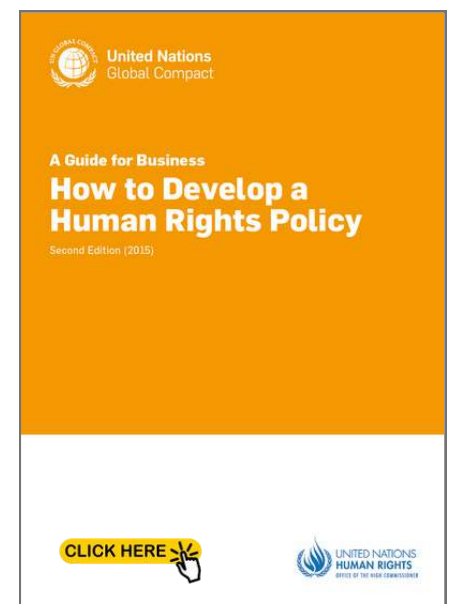


Human Rights

At H&MV Engineering, we are deeply committed to upholding the highest ethical standards across all our operations. This commitment is reflected in our zero-tolerance stance on bribery, corruption, and unethical business practices. We ensure all employees, contractors, and partners adhere to these principles, contributing to a fair and transparent working environment.

By fostering openness and accountability, we aim to contribute positively to the communities in which we operate, always respecting local laws and customs. This is a core part of how H&MV supports and promotes human rights within our business practices.

For your business, you can learn how to develop a Human Rights Policy for your business [here](#).





Chapter 3: Social

Health and Safety



What does safety mean at H&MV?

The safety of our people working on projects, on site and in our offices, is our highest priority, underpinned through a culture of leadership accountability and proactive risk management. We empower everyone to act when something is unsafe and lead by example in all our actions.



H&MV regularly runs safety campaigns to promote a strong safety culture across its sites. These campaigns feature posters that focus on key areas like Electrical Safety, Heavy Lifting, and MEWP. The posters serve as constant reminders to prioritize safety and ensure that all employees are informed and prepared to handle potential risks on-site.

For your business, you can learn how to develop a Health & Safety Policy [here](#).



Chapter 3: Social

See Something, Say Something, Do Something

The "See Say Do" initiative at H&MV focuses on fostering a proactive safety culture within the organization. Here's a breakdown of its key components:



See: This encourages employees to be vigilant and observant in their work environment. They are urged to notice any unsafe conditions, behaviours, or situations that could lead to accidents or incidents.



Say: Once something unsafe is observed, employees are encouraged to communicate it. The aim is to promote open communication about safety concerns without fear of repercussions.



Do: This emphasizes taking action based on what has been seen and reported. It involves implementing corrective measures to address the identified safety issues, whether through immediate action or by working with teams to develop longer-term solutions.





Chapter 3: Social

Wellbeing

Sports and Social Committee



At H&MV, our Sports and Social Committee is focused on promoting employee engagement and fostering a sense of community within the workplace. We organise various events throughout the year, across all of our offices, to offer our staff opportunities to network and socialise outside of work responsibilities. From old school sports days, tag rugby tournaments and pool competitions, to table quizzes, guest speakers and coffee mornings, H&MV are committed to

continuously developing a more vibrant and connected company culture. Some highlights of our 2024 S&S calendar include the Summer BBQ held in Thurles for all

Irish staff and our annual Charity Cycle which takes place in Tipperary each year. With the help of all the employees who volunteer on the day and in the lead up to the event, we have raised well deserved funds for our chosen charity partners: the Irish Guide Dogs for the Blind and the Dillon Quirke Foundation.



Mental Health Committee



H&MV's Mental Health Committee is made up of employees who volunteer their time to support the well-being of their colleagues. The committee organizes initiatives like mental health awareness workshops, wellness programs, and open discussions, offering resources for anyone seeking support. By encouraging open conversations and promoting mental well-being, the volunteer-led committee ensures that mental health is prioritized alongside physical safety, creating a more supportive and inclusive workplace.



Chapter 3: Social

Elephant in the Room



The "Elephant in the Room" initiative, supported by H&MV Engineering, is represented by a model elephant placed in the reception, serving as a constant reminder that the company encourages open conversations around mental health. Championing this cause is mental health advocate Brent Pope, whose mission to break the stigma aligns with H&MV's focus on well-being. The presence of the model elephant is a clear symbol of H&MV's commitment to creating an environment where mental health is openly discussed, ensuring that everyone feels supported and heard.



Lighthouse



Lighthouse, also known as The Construction Charity, collaborates with H&MV UK to provide crucial mental health and wellbeing support for our industry workers. They've been a vital partner, especially following the tragic on-site accident earlier this year. Lighthouse offered immediate, on-site assistance to our entire team and provided critical resources to support our UK HR team during that difficult period. They continue to offer ongoing mental health support to our

UK site staff. Proceeds from a charity golf event and a soccer tournament were directed to Lighthouse, and representatives attended to connect with our staff. In Ireland, we made our first donation to Lighthouse this year, with plans to expand our partnership in 2025.





Chapter 3: Social

Equality, Diversity & Inclusion

Promoting and delivering EDI in the workplace is an essential aspect of good people management. It's about creating working environments and cultures where every individual can feel safe, experience a sense of belonging, and is empowered to reach their full potential.



Surveys have shown that a more diverse workplace has higher employee engagement, higher profits, increased productivity and innovation, higher employee retention, and an improved brand reputation. A focus on diversity can also increase the size of the hiring pool, as it draws more potential employees to your business from a wide variety of personnel and professional backgrounds.

Community Engagement

H&MV Engineering shows strong community involvement by sponsoring local sports clubs, including soccer, camogie, cricket, and football teams. This support helps foster community spirit, encourages youth participation in sports, and promotes healthy lifestyles. By investing in these clubs, H&MV contributes to building teamwork and social cohesion within the community.



Charity Partnerships

Partnerships like the Dillion Quirke Foundation highlight H&MV's collaboration with the foundation, raising awareness of Sudden Adult Death Syndrome (SADS) and promoting health screenings. Fundraising Events like charity cycles or other fundraising efforts H&MV has organized to support causes like the Dillon Quirke Foundation and Irish Guide dogs.





Chapter 3: Social

Sustainability Awareness Campaigns



At H&MV Engineering, our Sustainability Awareness Campaign is all about sparking conversations and making a real impact, both in the company and beyond. Throughout our Annual ESG Awareness Month, we brought people together for a series of podcasts that dove into everything from restoring our natural environment to the importance of mental health.

Our Annual ESG Awareness month is integral to how we communicate and educate both our staff and external stakeholders. The month long event demonstrates the significance of all 3 pillars and emphasize the role employees play in driving positive change. We truly believe in the power of the individual and positive collect action. ESG Month helps employees understand that their actions have a direct impact on the company's sustainability performance and on the planet, creating a sense of purpose and motivation to contribute to a more sustainable future for all.

Attraction and Retention

Attraction and retention are key priorities at H&MV, which is why we place a strong emphasis on out-of-office days, social events, and actively listening to our employees—because it makes a real difference. We are proud to announce that H&MV Engineering has been named one of the 100 Best Companies to Work For in Europe by Great Place to Work and Fortune Europe for 2024.



Get celebrating!

Take advantage of Internationally & Nationally celebrated days in your business. Showing your active support for these causes can boost brand reputation, increase employee satisfaction and increase the value of communities.

Some of these days can include:

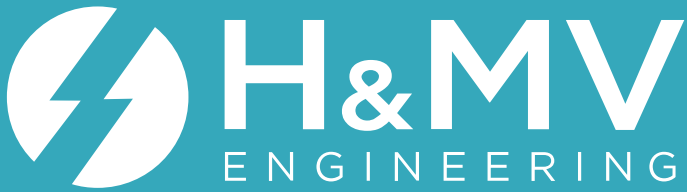
- International Women's Day
- International Men's Day
- World Environment Day
- World Mental Health Day
- International Day of Happiness

You can find a list of internationally celebrated days by clicking on the icon below, or alternatively, [clicking here!](#)



United
Nations

CLICK HERE 



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Governance

Chapter 4



Chapter 4: Governance

Reporting Obligations



In 2026, H&MV Engineering will be reporting to the EU in line with the Corporate Sustainability Reporting Directive (CSRD).

EU law requires all large companies and all listed companies (except listed micro-enterprises) to disclose information on what they see as the risks and opportunities arising from social and environmental issues, and on the impact of their activities on people and the environment.

The goal of the CSRD is to increase transparency and standardise sustainability reporting across the EU.

The Corporate Sustainability Reporting Directive Explained for Investors - YouTube



How does this affect me?

Our Sustainability performance will be closely tied to the practices of our suppliers and subcontractors. The information we report must include details on the environmental and social impact of our value chain's operations.

Ethical business conduct

This refers to the practice of applying moral principles and standards in business operations, ensuring actions are not only legal but also right and fair. It involves doing business in a way that is honest, transparent and considerate of stakeholders, including employees, customers, investors, suppliers, and the broader community.

Key elements include:

- Integrity, honesty and fairness
- Compliance with Laws and Regulations
- Respect for People and Human Rights
- Confidentiality & Privacy
- Social Responsibility
- Accountability

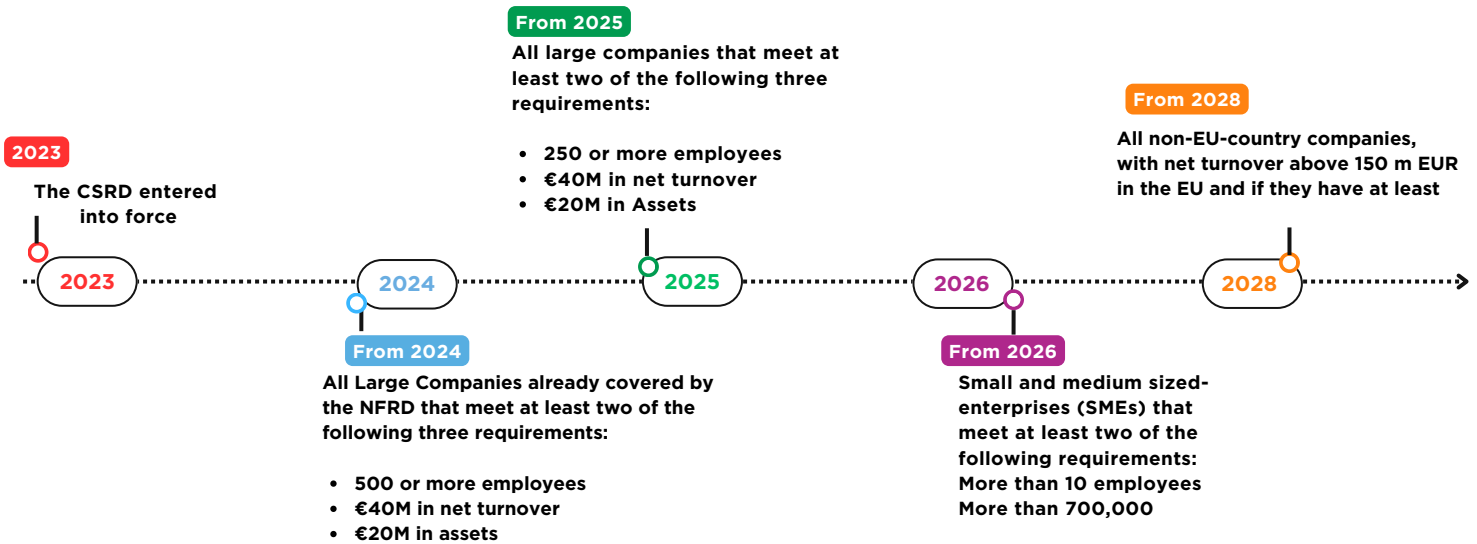


Chapter 4: Governance

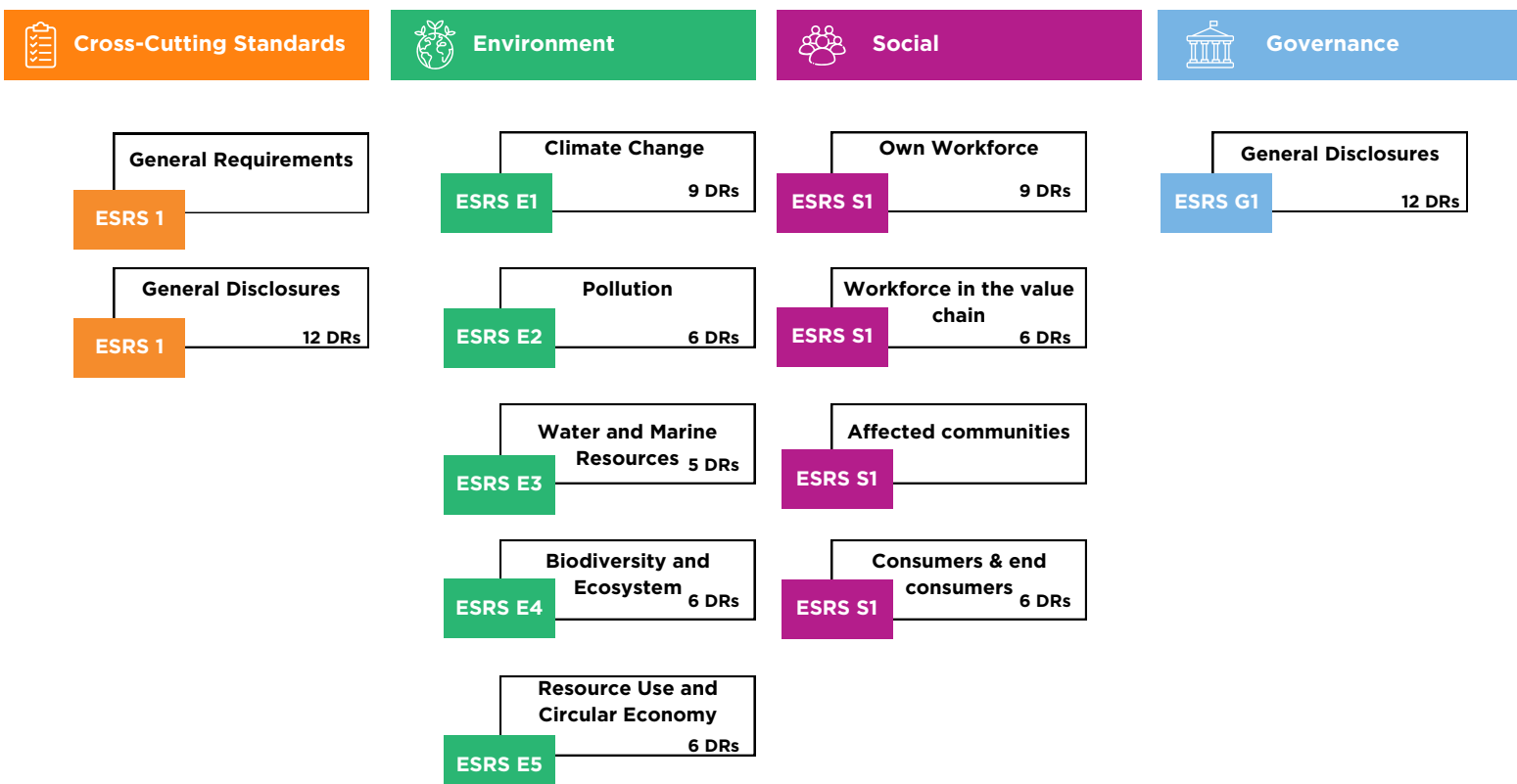
When will your company have to comply with CSRD Reporting?

The CSRD aims to create a consistent, comparable, and reliable framework for sustainability reporting, making it easier for investors, stakeholders, and the public to assess companies' ESG commitments and actions.

CSRD Timeline



This image is an overview of the European Sustainability Reporting Standards (ESRS) under the Corporate Sustainability Reporting Directive (CSRD). It categorizes the ESRS into four sections.





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Financial Resources

Chapter 5



€ Chapter 5: Financial Resources Ireland

What financial resources are available?

There is a myriad of resources available to you in your business to help you get started on your Green journey.

Citizens Information has provided a list of supports for “Businesses Going Green”.

You can also find further information below.



Name	Type	Provider	Description	Available Funds (Max.)	Link
Energy					
Energy audits for SME's	Support Scheme	SEAI	Energy	€2,000	Energy Audits for SMEs Business SEAI
Renewable Heat	Support Scheme	SEAI	Energy	30% of Eligible costs	Support Scheme for Renewable Heat Business Grants SEAI
Energy Efficiency	Grant	Local Enterprise Office	Energy	€5,000	What is the Energy Efficiency Grant? - Local Enterprise Office
Electric Vehicles	Grant	SEAI	Energy	€3,800	EV Grants & Supports Electric Vehicles For Business SEAI
Solar PV	Grant	SEAI	Energy	€162,600	Non-Domestic Microgen Scheme Business Grants and Supports SEAI
EXEED Certified Grant	Grant	SEAI	Energy	€3,000,000	EXEED Grant Scheme Business Grants SEAI
Consultancy & Training					
Climate Action Voucher	Grant	Enterprise Ireland	Advisory	€1,800	Climate Action Voucher Business Support Enterprise Ireland
GreenStart	Grant	Enterprise Ireland	Project support / Advisory	€5,000	Access Advice: Green Start Business Support Enterprise Ireland
Green Plus	Grant	Enterprise Ireland	Project support / Advisory / Training	€50,000	Green Plus Business Support Enterprise Ireland
Strategic Consultancy	Grant	Enterprise Ireland	Advisory	€35,000	Strategic Consultancy Assignment Grant Business Support Enterprise Ireland
Climate Ready Academy	Service	Skillnet Ireland	Education Training	/	Skillnet Climate Ready Academy Skillnet Ireland
SEAI Energy Academy	Service	SEAI	Education Training	/	SEAI Energy Academy SEAI
Supply Chain Sustainability School	Service	SCSS	Education Training	/	Home - Supply Chain Sustainability School Ireland
Green Skills	Service	SOLAS	Education Training	/	New Green skills programmes SOLAS Learning Works
Circular Economy	Service	Modos	Education Training	/	MODOS - Modos - Training for a circular economy
Water Conservation Stewardship	Service	Uisce Eireann	Education / Training / Support	Funded by Uisce Eireann & Sustainable Enterprise Skillnet	Water conservation for business - Conservation Uisce Eireann
UN Climate Change Learning Partnership	Service	UN CC	Education	FREE	Home One UN Climate Change Learning Partnership
Green For Business	Service	Local Enterprise Office	Education / Training	FREE	What is Green for Business - Local Enterprise Office



Chapter 5: Financial Resources UK

What financial Resources are available?

There is a myriad of resources available to you in your business to help you get started on your Green journey.

Check out the information on the resources available in the UK below.



Name	Type	Provider	Description	Available Funds (Max.)	Link
Energy					
Green Heat Network Fund	Grant	Government	Energy		Green Heat Network Fund
Electric Vehicle Chargepoint and infrastructure grants for landlords	Grant	Government	Energy	£350.00	Electric vehicle chargepoint and infrastructure grants for landlords
Electric Vehicle infrastructure grant for staff and fleets	Grant	Government	Energy	£15,000.00	Electric vehicle infrastructure grant for staff and fleets
Workplace Charging Scheme	Grant	Government	Energy	£350.00	Workplace Charging Scheme
Boiler Upgrade Scheme	Grant	Government	Energy	£7,500.00	Boiler Upgrade Scheme
Plug-in Van and Truck Grant	Grant	Government	Energy	£25,000.00	Plug-in Van and Truck Grant
Local Community Grants	Grant	Government			Latest Environmental Grants To Apply For - GrantFinder
Clean Growth Financing Initiative	Loan	Lloyds Bank	Energy / Buildings / Transport	£50,000.00	Clean Growth Financing Initiative Business
Green SME Fund	Loan	HSBC UK	Energy / Buildings / Transport	£10,000,000.00	Green loans NatWest Business Bank
Renewable Energy Funding Scheme	Loan	Cooperative Bank	Energy / Buildings / Transport	£250,000.00	Renewable energy funding scheme Business lending
Green Loans	Loan	Royal Bank of Scotland	Energy / Buildings / Transport	£10,000,000.00	Green loans Royal Bank of Scotland
Green Business Loan Scheme	Loan	Development Bank Wales	Energy / Buildings	£1,500,000.00	Green Business Loan Scheme - Dev Bank
Training					
Cambridge Institute for Sustainability Leadership	Education	University of Cambridge	N/A	Various	Cambridge Institute for Sustainability Leadership
Green Champions Training (Scotland)	Education	Business Energy Scotland	N/A	Free	Home Green Champions
Climate Fit	Education	Smart Climate Hub	N/A	Free	Climate Fit - SME Climate Hub
Sustainability Courses & Qualifications	Education	BSI	N/A	Various	Sustainability Training Courses BSI
Supply Chain Sustainability School	Service	SCSS	Education / Training	FREE	Home - Supply Chain Sustainability School
UN Climate Change Learning Partnership	Service	UN CC	Education	FREE	Home One UN Climate Change Learning Partnership



Chapter 5: Financial Resources EU

What financial Resources are available?

There is a myriad of resources available to you in your business to help you get started on your Green journey.

Check out the information on the resources available across the EU.



Name	Type	Provider	Description	Available Funds (Max.)	Link
Energy					
LIFE Programme	Grant	European Climate, Infrastructure and Environment Executive Agency	Environment	Total budget of €5.4 billion	LIFE - European Commission
Horizon Europe	Grant	European Commission	Sustainability	Total budget of €95.5 billion	Horizon Europe - European Commission
Interreg	Grant	European Union	Environment / Sustainability	Project-specific	Interreg Programmes portal: Find programmes, calls and jobs
European Environmental Initiative (EURENI)	Grant	German Federal Ministry for the Environment, Nature Conservation, Nuclear Safety and Consumer Protection (BMUV)	Environment	Project-specific	BMUV: European Environmental Initiative - EURENI
ICLEI Action Fund	Grant	Local Governments for Sustainability	Environment / Sustainability	€350,000 to €1,000,000 per project,	ICLEI Europe - Action Fund
DEAR Programme	Grant	European Commission	Environment / Sustainability	€3-10 million	DEAR: Development Education and Awareness Raising Programme - European Commission
Visegrad Grants	Grant	Visegrad Fund	Sustainability	€10,000 to €100,000 per project	Grants for Regional Cooperation International Visegrad Fund - Visegrad Fund
European City Facility (EUCF)	Grant	EUFC	Sustainability / Energy	€600,000	About EUCF
European Climate Foundation (ECF)	Grant	ECF	Sustainability / Environment	Project-specific	European Climate Foundation
International Climate Initiative (IKI) - Small Grants	Grant	German Federal Government	Sustainability / Climate Change / Biodiversity Conservation	Up To €850,000	IKI Small Grants Information about ongoing calls for proposals and funded projects
Energy efficiency, corporate environmental protection and renewable energies	Loan	KfW	Energy Efficiency / Environmental / Energy	up to €25 million	Energy efficiency, corporate environmental protection and renewable energies KfW
Green Finance	Loan	IFC	Energy	Contact directly for amount	Green Finance
Environmental Finance	Loan	European Investment Bank	Sustainability	Project-specific	Loan for SMEs, mid-caps and other priorities
Climate and Sustainability Awareness Bonds	Loan	European Investment Bank	Sustainability	For the latest figures, refer to EIB's financial releases.	Climate and Sustainability Awareness Bonds
European Climate Initiative (EUKI)	Grant	Federal Ministry for Economic Affairs and Climate Action (BMWK)	Sustainability	Project-specific	Home - EUKI



€ Chapter 5: Financial Resources Germany

What financial Resources are available?

There is a myriad of resources available to you in your business to help you get started on your Green journey.

Check out the information on the resources available in Germany below.



Name	Type	Provider	Description	Available Funds (Max.)	Link
Energy					
Environmental relief – innovation – model character	Grant	German Federal Environmental Foundation (DBU)	ESG Environmental Energy	Typically up to €125,000 per project	Project funding - DBU
Government Funding - Environmental Innovation Programme	Grant	Federal Ministry for the Environment, Nature Conservation, Nuclear Safety and Consumer Protection	Sustainability/ Energy Efficiency	Further Information Provided on Application	BMUV: Government Funding
SME Initiative for the Energy Transition and Climate Protection		Federal Ministry for Economic Affairs and Energy, the Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety, the Association of German Chambers of Commerce and Industry, and the German Confederation of Skilled Crafts	Energy Sustainability	Per project is €25 million	BMWK Newsletter Energiewende - SME Initiative for Energy Reforms and Climate Change Mitigation extended
Green Loan	Loan	UmweltBank	Sustainability	€100,000	Tagesgeldkonto der UmweltBank
Green Federal Securities	Bond	German Federal Government	Sustainability	The total available funds depend on issuance volumes and market demand.	Green Federal Securities - Deutsche Finanzagentur
Green Finance	Loan	Bundes Bank	Sustainability	Contact directly for amount	Green Finance Deutsche Bundesbank
Green Energy crowdfunding platforms	Loan	Different Platforms	Sustainability Environment	Project-specific	List of Green energy crowdfunding platforms in Germany CrowdSpace
Investments and Technology Development in Decarbonization	Grant	Federal Funding for Industry and Climate Protection (BIK)	Environment Sustainability	€2.8 billion allocated to entire fund	Funding Kompetenzzentrum Klimaschutz in energieintensiven Industrien (KEI)



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Other Resources

Chapter 6



Chapter 6: Other Resources

Emission factor sources

There is a myriad of resources available to you in your business to help you get started on calculating your emissions

You can find further information below.



Name	Description	Link
Carbon Emissions / Decarbonisation		
Greenhouse Gas Protocol	Standards Guidance Scope 1, 2, 3. Corporate Value Chain Product Standard	Standards & Guidance GHG Protocol
IPCC Global Warming Potential Values	AR4 Values AR5 Values AR6 Values Emission Factors	Global-Warming-Potential-Values
ICE Database	Inventory of Carbon & Energy Emission Factors	Embodied Carbon Footprint Database - Circular Ecology
SEAI	Emission Factors in Ireland	Conversion Factors SEAI Statistics SEAI
DEFRA	Emission Factors in UK	Greenhouse gas reporting: conversion factors 2023
What is an Emission Factor?	Emission Factor Global Warming Potential	What is an Emission Factor?



Chapter 6: Other Resources

Where can I find my emission factor?

In Ireland, your energy provider is obliged to display the emission factor associated with its provided energy. This can be found on the back of your electricity & gas bills.

PLEASE NOTE: It is very important that you ensure you are using the latest emission factors that are available to you.

Examples:

SSE Airtricity - This is Generation Green Ireland's largest provider of 100% green energy [^]		
SSE Airtricity Fuel Mix Disclosure: January 2021 to December 2021		
Electricity supplied has been sourced from the following fuels:	% total	
	Electricity Supplied by SSE Airtricity	Average for All Island Market (for comparison)
Renewable	100.0%	55.9%
Natural Gas	0%	33.6%
Coal	0%	6.8%
Peat	0%	0.0%
Other	0%	1.0%
Nuclear	0%	0.0%
Oil	0%	2.7%
EU Fossil	0%	0.0%
TOTAL	100%	100%
Environmental Impact - CO₂ Emissions	0 g/kWh	258 g/kWh

For information on your fuel mix and on the environmental impact of your electricity supply visit www.sseairtricity.com or for further details call 0818 81 21 44.

In 2021, all of the electricity we supplied to our home and business customers was from renewable energy sourced by SSE Airtricity, abating over 1.5 million tonnes^{^^} of harmful CO₂ emissions from our environment.

[^]Ireland's Largest provider of 100% green energy supplied to homes and businesses based on Electricity Market Share by total kWh, published by the Commission for Regulation of Utilities (CRU) in most recent Energy and Water Monitoring Report for 2020, published 30 November 2021.

^{^^} Quoted CO₂ emissions abated based on Average CO₂ Emissions (TWh) in 2021 in the All-Ireland Single Electricity Market, and published by the CRU in its Fuel Mix Disclosure and CO₂ Emissions for 2021, published September 2022.

Small steps to a greener world.
Thanks for being part of Generation Green.
By choosing 100% green energy with SSE Airtricity you're one of thousands of homes and businesses taking small steps for a sustainable future.

See the difference we're making together at sseairtricity.com/generationgreen

#ThisIsGenerationGreen

Flogas Fuel Mix Disclosure January 2022 to December 2022		
Electricity supplied has been sourced from the following fuels	% of total	
	Electricity Supplied by Flogas	Average for All Island Market (for comparison)
Renewable	100.0	57.6
Natural Gas	0.0	34.2
Coal	0.0	5.5
Oil	0.0	1.9
Other	0.0	0.8
Total	100.0	100.0
Environmental Impact		
CO ₂ Emissions	0 gCO ₂ /kWh	234 gCO ₂ /kWh

Electric Ireland fuel mix disclosure label For the period of January 2022 - December 2022		
Fuel type	Supplied by Electric Ireland (All Island)	Average of all island market for comparison
Coal	0.1%	5.5%
Natural Gas	22.7%	34.2%
Renewables	77.2%	57.6%
Oil	0.0%	1.9%
Other	0.0%	0.8%
Total	100%	100%
Environmental impact		
CO ₂ Emissions	104 gCO ₂ /kWh	234 gCO ₂ /kWh

In addition, energy companies in Ireland are required to provide their fuel mix disclosure to the CRU. These are reported every year, and can be found on the CRU website, or the SEM Committee Website.

Supplier	Jurisdiction	Coal	Gas	Renewable	Oil	Other	gCO ₂ /kWh
 All-Island		5.50%	34.20%	57.60%	1.90%	0.80%	234
Bord Gais Energy	IE	0.00%	69.62%	30.38%	0.00%	0.00%	315



Chapter 6: Other Resources

Sustainable Resource Management

The below is a two part worked example to calculate your scope 1 and scope 2 Emissions

Example 1:

Company A owns all of its fleet vehicles, so these are captured under Scope 1.

All of the fleet vehicles have an accompanying fuel card. The fuel card puts out a report at the end of the year, detailing each transaction of fuel.

At the end of the reporting period, the fuel card report details that Company A has bought **195,000 litres of diesel fuel**, and **45,000 litres of petrol**.

Using emission factors supplied by SEAI **Diesel 2.683 (kg CO₂e/L)** **Petrol 2.311 (kg CO₂e/L)**, we can now calculate the emissions from our company vehicles.

Equation:

	×		=	
Liters of Fuel (L)		Emissions Factor (kg CO ₂ e/L)		Amount of Carbon (kgCO ₂ e)

Calculation for Diesel:



	×		=	
195,000		2.683		523,185
Liters of Fuel (L)		Emissions Factor (kg CO ₂ e/L)		Amount of Carbon (kgCO ₂ e)

Calculation for Petrol:



	×		=	
45,000		2.311		103,995
Liters of Fuel (L)		Emissions Factor (kg CO ₂ e/L)		Amount of Carbon (kgCO ₂ e)

Total sum:

	+		=	
523,185		103,995		627,180
Amount of Carbon (Diesel) (kgCO ₂ e)		Amount of Carbon (Petrol) (kgCO ₂ e)		Total Amount of Carbon (kgCO ₂ e)



Chapter 6: Other Resources

Example 2:

Company A owns one building that uses Bord Gáis Energy as its energy supplier, and utilises 121,345 kWh of electricity in the reporting period.

Note that the emission factors below are not provided in CO₂ equivalents. So, we must convert them!

Using the latest emission factors as supplied by the [CRU](#) (Commission for Regulation of Utilities), and GWP (Global Warming Potential) values from the IPCC (Intergovernmental Panel on Climate Change), we are able to quantify our emissions:

Greenhouse Gas		GWP-100 (IPCC AR6)
Carbon Dioxide	CO ₂	1
Methane	CH ₄	29.8
Nitrous Oxide	N ₂ O	273

$$\left\{ \begin{array}{l} \text{Energy (kWh)} \\ \times \\ \text{Emissions Factor (g CO}_2\text{/kWh)} \\ \hline 1000 \end{array} \right\} = \text{Amount of Carbon (kgCO}_2\text{)}$$

$$\left\{ \begin{array}{l} 121,345 \text{ (kWh)} \\ \times \\ 315 \text{ (g CO}_2\text{/kWh)} \\ \hline 1000 \end{array} \right\} = 38,223.7 \text{ (kgCO}_2\text{)}$$

$$\left(\text{Amount of Carbon (kgCO}_2\text{)} \times \text{CH}_4 \text{ Global Warming Potential CH}_4 \right) + \left(\text{Amount of Carbon (kgCO}_2\text{)} \times \text{CO}_2 \text{ Global Warming Potential CO}_2 \right) + \left(\text{Amount of Carbon (kgCO}_2\text{)} \times \text{N}_2\text{O Global Warming Potential N}_2\text{O} \right) = \text{Amount of Carbon from electricity (kgCO}_2\text{e)}$$

$$\left(38,223.7 \text{ (kgCO}_2\text{)} \times \text{CH}_4 \text{ 29.8} \right) + \left(38,223.7 \text{ (kgCO}_2\text{)} \times \text{CO}_2 \text{ 1} \right) + \left(38,223.7 \text{ (kgCO}_2\text{)} \times \text{N}_2\text{O 273} \right) = 11,612,352 \text{ (kgCO}_2\text{e)}$$

Scope	Emissions (kgCO ₂ e)	Emissions (tCO ₂ e)
Scope 1	627,180	627.2
Scope 2	11,612,352	11,612.4



Chapter 6: Other Resources

Glossary

- **Activity data:** quantitative measures of a level of activity that results in GHG emissions.
- **Reporting period:** the time span for which a company reports its environmental performance
- **GWP:** Global Warming Potential
- **CO₂e:** Carbon Dioxide Equivalents. A measure used to compare the emissions from various greenhouse gases on the basis of their Global Warming Potential by converting amounts of other gases to the equivalent amount of carbon dioxide with the same global warming potential
- **CO₂:** Carbon Dioxide
- **CH₄:** Methane
- **N₂O:** Nitrous Oxide
- **Emission factor:** A coefficient which allows to convert activity data into GHG emissions.
- **ESG:** Environmental, Social, Governance



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