



**Iascach Intíre Éireann
Inland Fisheries Ireland**

Climate Action Roadmap 2024

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1. Introduction and Progress to date

- Rapid and far-reaching transitions across all sectors and systems are necessary to achieve deep and sustained emissions reductions and secure a liveable and sustainable future for all (AR6 Synthesis report; IPCC, 2023)
- It is essential that the international community steps up its efforts towards meeting the 2015 Paris Agreement and the UN's Sustainable Development Goals.
- Ireland is committed to achieving a 51% reduction in GHG emissions from 2021 to 2030, and to achieving net-zero emissions no later than 2050; with legally binding requirements to achieve these objectives set out in legislation (Climate Action Plan 2024, CAP 24).

Showing leadership and ambition, the public sector (including Inland Fisheries Ireland, IFI) will drive fundamental climate action through:

- Implementing the Public Sector Climate Action Mandate.
- Strengthening climate governance frameworks in public sector bodies.
- Increasing climate literacy in the public sector.
- Implementing policies to decarbonise the public sector vehicle fleet.
- Procuring only Zero Emission Vehicles from the end of 2022 onwards where available and practicable and retrofitting public sector buildings.
- Fully implementing green public procurement in the public sector.

Inland Fisheries Ireland - Background

Inland Fisheries Ireland (IFI) is the statutory agency responsible for inland fisheries in Ireland. As an agency, it operates under the aegis of the Department of the Environment, Climate and Communications (DECC) and within the framework of a Service-Level Agreement. The principal function of Inland Fisheries Ireland is set out under Section 7 (2) of the Inland Fisheries Act of 2010 as - The protection, management, and conservation of the inland fisheries resource. The general functions of IFI are to:

- promote, support, facilitate and advise the Minister on the conservation, protection, management, marketing, development and improvement of inland fisheries, including sea angling.
- develop and advise the Minister on policy and national strategies relating to inland fisheries including sea angling.
- ensure implementation and delivery of policy and strategies developed under Subsection (b) as agreed with the Minister.

Our vision

To position Ireland's inland fisheries and sea angling resources as sustainably as possible for the benefit of future generations.

Our mission

To protect, manage and conserve Ireland's inland fisheries and sea angling resources, maximising their sustainability and natural biodiversity.

Our values

We work collaboratively with professionalism

We are open, transparent and accountable

We act with respect and integrity

We stay committed to stewardship and sustainability

The role of IFI relates to all aspects of the inland aquatic environment and all factors that influence the biotic communities within these waters, which in any way relate to the propagation of fish populations. Ireland has more than 70,000 km of rivers and streams and 144,000 ha of lakes. These inland surface waters, their associated riparian corridors and Ireland's coastal waters to 12 miles offshore (Atlantic salmon protection and sea angling) all fall under IFI's existing jurisdiction. Aquatic ecosystems (freshwater and marine) provide multiple critical ecosystem services to human society. Healthy rivers, lakes, estuaries, and coastal waters are essential to our existence and have been the focus of IFI's (and predecessor organisations') statutory function and role since the 1950's. The organisation's enabling legislation is the Inland Fisheries Act of 2010 (as amended) and the organisation has a full-time staff complement of 320, with scope for up to 60 temporary posts annually.

Organisational Goals and Ambition

- **Fish** - To protect, maintain and enhance Ireland's wild fish populations.
- **Habitats** - To sustainably develop and improve fish habitats.
- **Stakeholders** - To actively engage with stakeholders in the continued stewardship of our shared resource.
- **Sustainability** - To play a leadership role in achieving our climate action and biodiversity goals.
- **Our People** - To value our people and support their development and performance.
- **Corporate Management** - To foster a culture of value for money and evaluation of performance in a measurable, transparent and accountable manner.
- **Innovation** - Harness the power of innovation to continue to deliver a modern fisheries service.

IFI is not only focused on the sustainable management of Ireland's inland fisheries resources but is also fully committed to leading by example in the sustainable delivery of Ireland's public services. IFI has been working since 2009 on the consolidation of sustainable internal environmental management systems (EMS) to minimise IFI's impact on the environment. IFI's Climate Action Framework (2019 to 2021) targeted efficient and sustainable agency operation as a primary goal with associated cost savings. IFI's Climate Action Roadmap (2024) seeks to build on IFI's achievements to date in the area of Climate Action and Sustainability in line with Government policy. IFI has shown leadership and ambition in resourcing and creating a *Sustainability and Climate Action Section* which is responsible for supporting delivery of various outputs and outcomes under IFI's Sustainability and Climate Action Programme including:

- The collective target to reduce CO₂eq. by 51% and improve energy efficiency by 50% by 2030 with a view to achieving net zero by 2050.
- Maximised adoption of measures which will yield carbon abatement at no cost where entire lifetime costs are considered (Solar PV, EV fleet, EV Charging network, Building fabric upgrades, zero emissions approach to property portfolio development).
- Reporting of greenhouse gas emissions and sustainability activities in monthly, quarterly and annual reports (progress tracking and constant accountability).
- Expansion of IFI's Green Team network to engage and support staff in positive action.
- Support green / sustainable procurement - which incorporates carbon pricing (where applicable) and climate / sustainability criteria in public tenders.
- Energy certification of IFI's public buildings.
- Pursuing and reporting on resource efficiency actions across IFI public facilities, including measures to reduce food waste, promote water conservation, waste segregation, reuse and recycling practices.
- Ongoing digitisation of paper-based processes made the default approach.
- Guidance and influence to ensure policies and practices do not lock IFI into high carbon pathways and carbon-proofing of major decisions and programmes on a systematic basis, moving over time to a near-zero carbon investment strategy.
- Fostering collaboration, partnerships, and innovation to maximize the impact of IFI's sustainability programme.

Legal Requirements for Energy and Climate Action in 2024

IFI aims to meet the requirements of the Climate Action Mandate 2024, and recognises and is acting on the relevant legal requirements listed in Appendix A.

Inland Fisheries Ireland – Building Stock and Fleet Profiles

IFI's building stock consists of 107 locations in total including 72 properties, 6 greenfield sites and incorporates 37 fish counting stations (35 in operation and 2 not currently in operation). These fish counting stations are either housed in standalone properties or are incorporated in other IFI properties. IFI properties are dispersed nationally. Eight of these properties are accessible to the public and two of these buildings are protected structures. IFI properties accommodate field staff and facilitate the storage of vehicles, boats, equipment, and the charging of electric vehicles and bicycles that are used to support IFI in the delivery of its legislative remit. In 2022 (currently awaiting final confirmation of energy data for 2023 from the Sustainable Energy Authority of Ireland) electricity in IFI properties accounted for 29.2% of total primary energy requirement, while thermal accounted for 8.4% (gas and heating oils).



Figure 1. Location of IFI properties.

In 2024, IFI's road fleet comprises 151 internal combustion engine (ICE) and 62 electric vehicles (EVs). Approximately 60% of Inland Fisheries Ireland's total energy demand relates to fleet (including road and offroad vehicles, boats and personal watercraft). IFI have taken a series of actions toward improved energy management of all vehicles including ensuring that energy efficiency criteria are a priority when replacing vehicles (to contribute to the reduction of our CO₂ emissions profile where possible). IFI also undertake vehicle life span assessments, ensuring that appropriate vehicles are matched to each task. The findings of these and other analyses inform the procurement of new vehicles. A telematics (tracking) system has been installed in all vehicles to assist in the efficient operation of IFI's fleet.

PROGRESS – Energy savings to date

The SEAI reported a 44.5% improvement in IFI energy efficiency by Dec 31st, 2022. IFI remains focused on a path to achieving net-zero emissions at latest by 2050. 2023 data will be confirmed by the SEAI in Q3 2024 – 2022 data and preliminary data for 2023 are presented below.

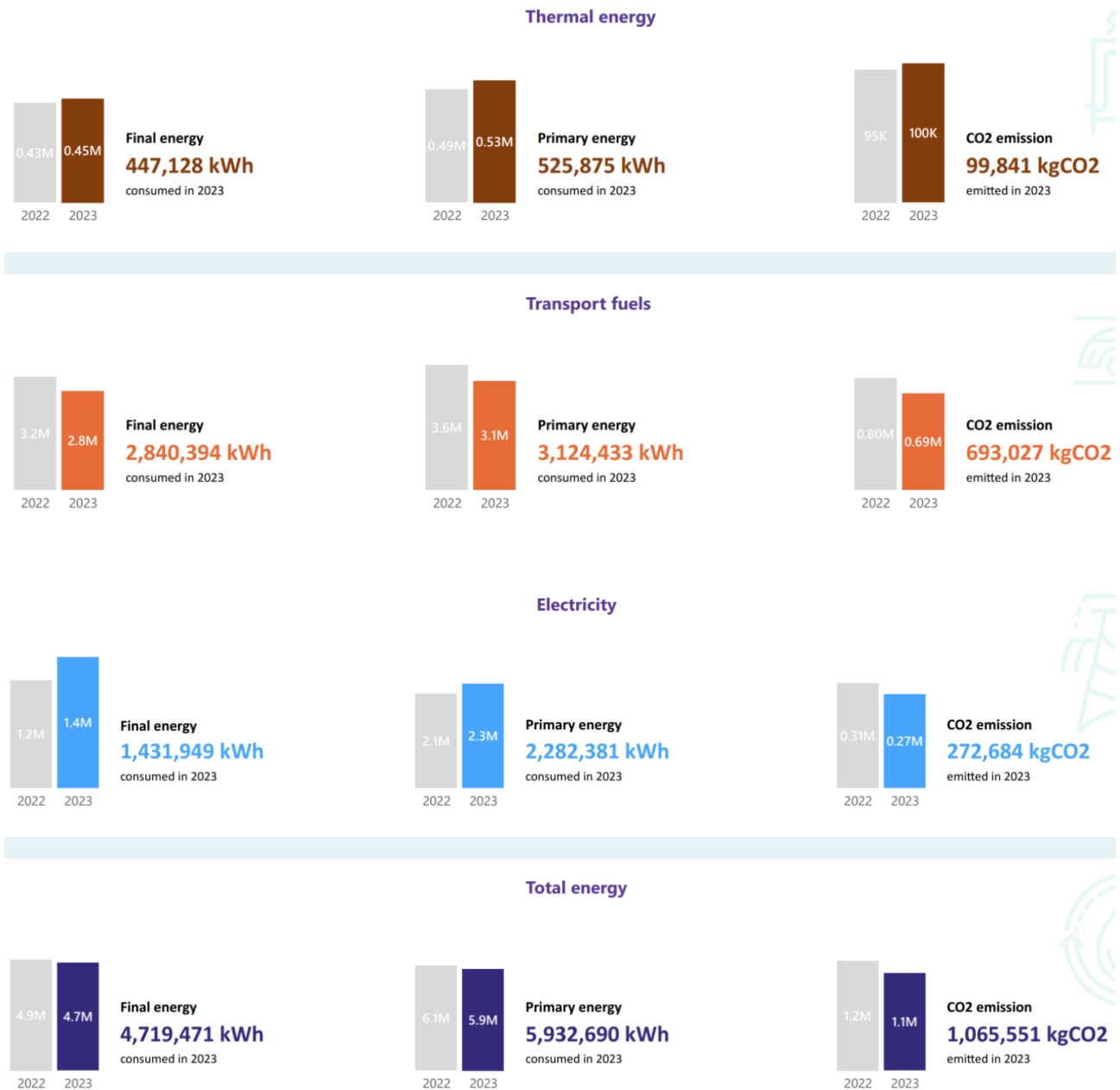


Figure 2. IFI's thermal, transport fuel, electricity and total energy 2022 and 2023 (Primary energy accounts for energy that is consumed and/or lost in transformation, transmission and distribution processes. Final energy is the energy used by public bodies and other final consuming sectors of the economy, e.g. industry, transport, etc. excluding the energy used in the energy sector, e.g. for electricity generation). Preliminary data show that the ongoing transition to EV fleet has resulted in increased electricity consumption in IFI properties in 2023.

PROGRESS - Innovation, partnerships, and collaboration

IFI aims to provide a public service in the most sustainable way possible. Many of our sustainability challenges are systemic in nature. Thus, IFI aims to work collectively and collaborate with all stakeholders in partnership.

CASE STUDY – Innovation, Collaboration and Partnerships Inland Fisheries Ireland (IFI), Atlantic Technological University (ATU) and EU GREEN European Alliance hosted the IFI Sustainable Transport World Cafe workshop on the afternoon of Thursday June 13th (2024). The agenda comprised a mix of short introductions, workshop sessions, and discussions, addressing both successful initiatives and challenges to sustainable transport in IFI. A collection of output materials was produced (participant notes, table facilitator's summary and short feedback report) supporting:

Shared Insights - Participants collectively generated insights, patterns, and themes in respect of sustainable transport in IFI.

Actionable Ideas - Ideas and concepts which may support strategies, or development of solutions to existing (possibly currently unseen) challenges that we have in this area in IFI.

Connections – Expanded professional networks and connections to enhance collaboration.



Photograph 1. IFI/ATU Sligo/EU Green Alliance joint workshop on Sustainable Transport in IFI.

PROGRESS - Decarbonisation of Fleet

The majority of IFI staff comprise a "mobile workforce" travelling daily to carry out their statutory functions. Many sites are outside urban areas where public transport options are limited. IFI is taking a series of focused steps (under IFI's 'Energy Management Action Plan') to ensure better energy management for all fleet vehicles including:

- Transport specific energy audits as part of IFI's energy management planning process.

- Vehicle life span analysis as part of our requirements to produce an annual Energy Management Plan (appropriate vehicles are matched to each task).
- Data-backed and fully informed procurement of new vehicles.
- Telematics systems covering all vehicles to support optimal fleet usage.
- "Eco-driving" training and driver management processes in place.
- IFI's EV fleet is growing and is a critical component in overall organisational energy reduction. Although the initial cost of EVs is high, the savings on future running costs are substantial. In 2024 IFI operates 62 EVs and 30 e-bikes.
- IFI has recognised the importance of a strategically distributed EV charging network - decarbonisation of fleet is supported through the installation of chargers at strategic locations nationally. To date, IFI have installed EV chargers at 36 locations across Ireland (Appendix A).
- IFI's EV STRATEGY document has been finalised and can be accessed [HERE](#).
- In 2023, cumulative saving of 39,947 litres of fuel (approximately 108,000 kg CO₂eq) were achieved when compared to 2022. This saving equates to a 11% reduction in fossil fuel use in 2023 below 2022 levels. IFI's EV fleet travelled a total of 858,047 km in 2023. For more IFI fleet data click [HERE](#)
- Fuel consumption in IFI's ICE fleet for 2024 is showing a cumulative saving of 4,871 litres of fuel for the period January to June 2024 when compared with the same period in 2023. The addition of 9 EVs in June 2024, Eco-driving refresher training planned for Q's 3&4 2024 and ongoing removal of ICE vehicles is anticipated to result in substantially increased fuel savings by the end of 2024.

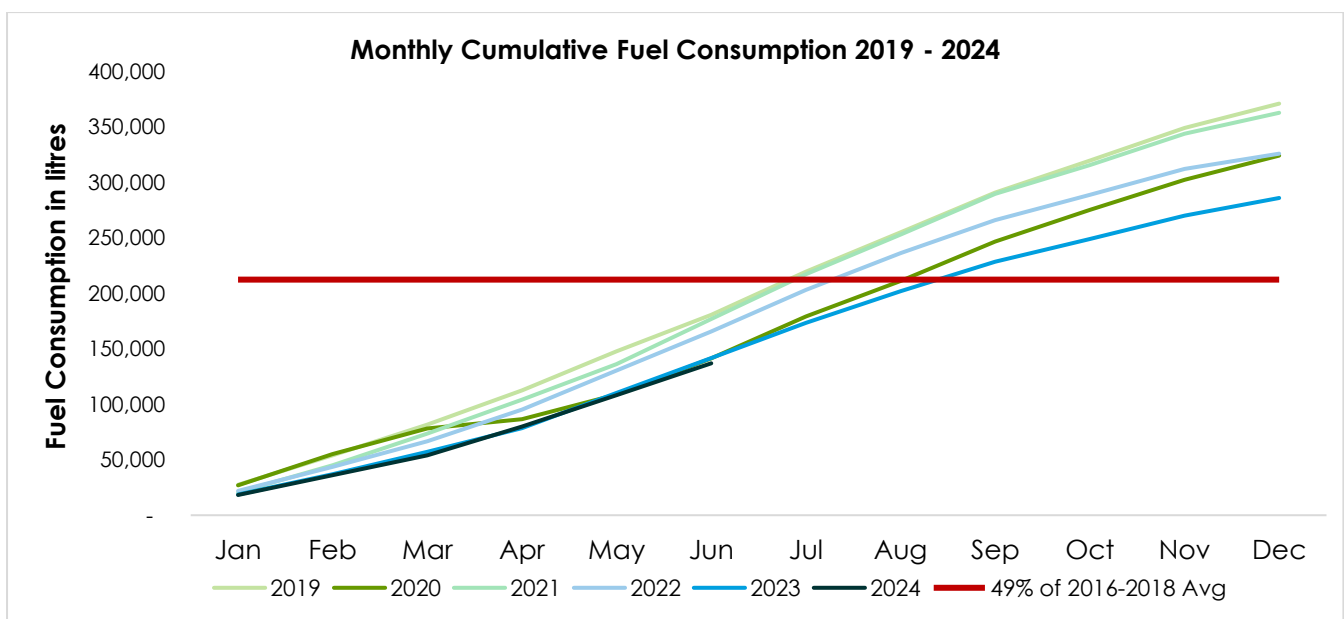


Figure 3. IFI monthly cumulative fuel consumption data 2019 to 2024.



Photograph 2. IFI's EV fleet now comprises 6 different EV models and a growing fleet of electric bicycles.

PROGRESS - Decarbonisation of Property

Primary energy sources throughout IFI are electricity and natural gas. Electricity is used for lighting, power, and air conditioning. Natural gas, LPG, and kerosene are used primarily for space heating. Monitoring and reporting of energy consumption takes place across IFI sites. The SEAI reported a 6.8% improvement in IFI electric energy performance indicator (ENPI) by Dec 31st, 2022 when compared with data for 2021. IFI's Energy Policy, Action Plan and associated energy auditing programme underpin all energy improvement projects in IFI. To see more data on IFI property decarbonisation click [HERE](#).

IFI is undertaking an ongoing data gathering exercise (primarily energy auditing) to consider the long-term (to 2050) retrofit key performance indicators with a view to upgrading all building stock to Nearly Zero Energy Buildings (NZEB) or Zero Energy Buildings (ZEB) as detailed in the recast EPBD (Energy Performance Building Directive). To date, IFI have implemented a series of prioritised energy-efficiency measures including integration of smart technologies and the upgrade of equipment / fittings (such as LED lighting, energy-efficient HVAC systems, smart thermostats, and insulation improvements) to target IFI's climate energy goals.

IFI have invested in renewable technology integration in its property portfolio. IFI have installed Solar PV systems at 20 locations (Appendix A). IFI have also delivered a national smart building energy monitoring system, delivering energy monitoring data in real time in support of efficient and timely energy action. IFI is developing a Building Stock Plan (Appendix A), aligned with the Climate Action Plan 2024. It is intended that this plan will provide IFI with a robust baseline and roadmap to deliver near zero and zero emission developments across the IFI property portfolio in time.

PROGRESS - Staff Engagement and IFI's Green Teams

Reporting to senior management and acting as integrated drivers of sustainability, Inland Fisheries Ireland's Green Team Network is a critical element in the journey towards a more sustainable organisation. The IFI Green Team network operates on a local (in each of our River Basin Districts) and national level. The National Green Team represents local contributions and meets each quarter. A total of 51 members sit on all IFI Green Teams. Our Green Teams are critical enablers of collective positive changes which will support IFI in reaching our sustainability and carbon reduction goals. For more information on IFI Green Teams click [HERE](#)

PROGRESS - Green and Sustainable Public Procurement

IFI is committed to sustainable public procurement. Being committed ensures that our goals are consistent with our climate ambition. IFI aims to lead by example and adopt a Circular Economy approach and green procurement where possible. IFI's Procurement Policy document sets out the policy for the procurement of goods (supplies), services and works by Inland Fisheries Ireland (IFI) and to ensure that procurement throughout IFI is undertaken in accordance with National and European Union Public Procurement Regulations & Directives, Legislation, Policy, and Guidelines. The document will be subject to amendment and review periodically and the most up-to-date version will be available to all staff. IFI's Procurement Policy document can be viewed in full [HERE](#).

PROGRESS – Recognition of IFI's Achievements in Sustainability and Climate Action

In November 2023, Inland Fisheries Ireland (IFI) was awarded first prize in the 'Leadership in Public Sector Decarbonization and Energy Efficiency' category at the Sustainable Energy Association of Ireland's 20th Annual Energy Awards ceremony. This achievement reflects IFI's longstanding commitment to sustainability, climate action and energy efficiency. This award demonstrated IFI's exceptional efforts in driving sustainability within the public sector. It underscores IFI's leadership among Ireland's businesses and state agencies in the crucial areas of sustainability, decarbonisation, and energy efficiency.

This award recognizes IFI's past achievements but also positions the organization as a leader in the ongoing efforts toward a more sustainable, decarbonized future. It reflects the collaborative spirit, dedication, and leadership that will propel IFI toward continued success in meeting and exceeding our sustainability and climate action goals.



IFI SEAI award 2023 - 'Leadership in Public Sector Decarbonization and Energy Efficiency'

2. Leadership and Governance for Climate Action

2.1 Governance structure for climate action roadmap - chart and responsibilities.

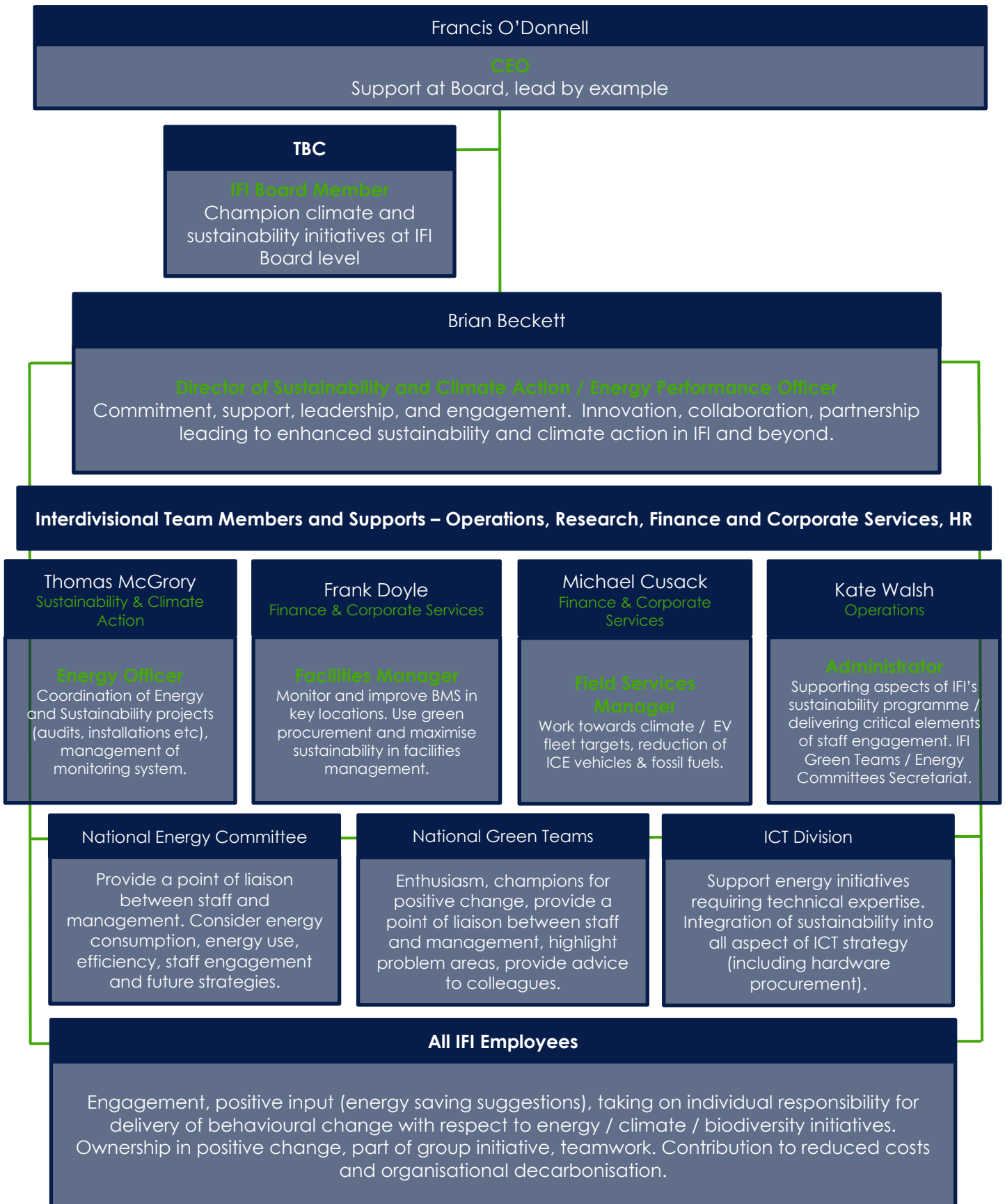


Figure 4. IFI Governance structure for climate and sustainability

2.2 IFI Sustainability and Climate Champions

IFI's dedicated Sustainability and Climate Action Champion at Board level is Francis O'Donnell (CEO and member at IFI Board level). Brian Beckett is Director of IFI's Sustainability and Climate Action Section and is Energy Performance Officer for IFI.

2.3 IFI Energy Performance Officer (EPO)

Making energy efficiency 'the norm' is ultimately dependent on changing mind-sets and behaviours. IFI aims to optimise the conditions for efficient use of energy by all teams. This support builds positive momentum where actions are seen to make a difference, and that energy efficiency makes good environmental and business sense. Inland Fisheries Ireland has appointed an energy performance officer with influence on facilities management, corporate budgets, and procurement, along with responsibility for corporate and financial reporting in this area, so that they can:

- Lead the further development of IFI's Energy Management Plan as an integral part of Business Planning processes.
- Drive the implementation of the actions and projects agreed under IFI's Energy Management Plan.
- Assign clear responsibility for implementation of IFI's Energy Management Plan and ensure staff have the necessary training and support to carry out these tasks.
- Ensure the setting of annual energy saving targets.
- Ensure the timeliness and quality of IFI's annual data reports to the SEAI.
- Ensure timely provision of our report for the Annual Memorandum to Government on the implementation of this Strategy.

2.4 IFI Green Teams

Inland Fisheries Ireland's Green Team Network is a critical element in the journey towards a more sustainable future. The network was formed in 2019 to collectively and collaboratively develop ideas and initiatives aimed at addressing the climate and biodiversity emergency and at enhancing sustainability across the organisation through local actions. Seven regional Green Teams operate locally, each represented by at least 1 member on a National Green Team. Normally, four meetings are held each year with at least 1 additional workshop focusing on sustainability / climate issues. Group members share information and resources via IFI's Climate Action SharePoint / Teams portal. Green Team members are advocates for good environmental practices: they are passionate, interested, and keen to learn about environmental issues facing us as an organisation and are always keen to share this knowledge with co-workers. These members encourage and advise colleagues on specific measures to save energy, assist with raising awareness of wider issues such as waste minimisation, water conservation, sustainable travel, biodiversity at our properties and act as

the local key contact for sustainability-related issues within a particular building, office, or field base. Members also positively promote the Green Team role and are available as a first point of contact for staff on all sustainability issues. IFI's Green Teams 'Terms of Reference' are presented in Appendix A.

Table 1. Local / National Green Team membership

IFI Local Green Teams 2024							
NWRBD	WRBD (Ballina)	WRBD (Galway)	ShRBD	SWRBD	SERBD	ERBD	CITYWEST
Michael Kelly	Aisling Donegan	James Quinn	Jane Gilleran	Karen Griffin	Cormac Goulding	Ronan Matson	Thomas McGrory
Milton Matthews	Declan Cooke	Peter McCann	Ken O'Neill	John Twomey	Susan Sayers	Kate Walsh	Tara Gallagher
Jarlaith Gallagher	Brian Flannery		Catherine Kerins	Sean Long	James Robinson	Ronan O'Brien	William Corcoran
Ailish Keane	Mary Walsh		Alan Murray	Tracey O'Leary	Lonan O'Farrell	Roisin O'Callaghan	Frank Doyle
Sean Gallanagh	Gerry Hoban		Tom Hilgers	Tim Moore	Lynda Conor	Joe Delany	Rossa O'Briain
	Gerry Stadtler		John O'Connor	Mike Hennessy		Rory Keatinge	Kevin O'Keefe
			David McInerney	Dermot Long		Alan Carter	Sara O'Connor
				Mary Traynor		Yvonne Quirke	Brian Beckett
				Nicholas Tattersall			
				David Whelan			

2.5 IFI National Energy Committee / Energy Management Core Team

Chaired by IFI's Energy Performance Officer, IFI's expanded National Energy Committee meets every 6 months. The purpose of IFI's National Energy Committee is to support IFI in achieving and exceeding our 'headline' public sector energy policy objectives (2022-2030) and to:

- Support innovation, collaboration, and partnerships, and maximise the impact of IFI's Decarbonisation Strategy.
- Collectively develop ideas and initiatives aimed at addressing energy use in IFI and thereby enhance the sustainability of IFI through local actions.

The national energy committee will support senior management leadership and commitment with respect to continual improvement of its energy performance and the effectiveness of IFI's Energy Management System (EMS) and Energy Action Plan (EAP) by:

- ensuring that the Energy Management System (EMS) scope and boundaries are established.
- ensuring that relevant energy policy, objectives and energy targets are established and

are compatible with the strategic direction of the organization.

- ensuring the integration of the EMS requirements into the organization's business processes.
- ensuring that action plans are approved and implemented.
- ensuring that the resources needed for the EMS are available.
- communicating the importance of effective energy management and of conforming to the EMS requirements.
- ensuring that the EMS achieves its intended outcome(s);
- promoting continual improvement of energy performance and the EMS.
- directing and supporting persons to contribute to the effectiveness of the EMS and to energy performance improvement.
- supporting other relevant management roles to demonstrate their leadership as it applies to their areas of responsibility.
- ensuring that chosen indicators (EnPIs) appropriately represent energy performance.
- ensuring that processes are established and implemented to identify and address changes affecting the EMS and energy performance within the scope and boundary of the EMS.

IFI National Energy Committee Members (meetings held every 6 months):

Brian Beckett (Chair, Director Sustainability and Climate Action), Thomas McGrory (Energy Officer), Kate Walsh (Administrator), Milton Matthews (Director – Ballyshannon), IFI Board Member (TBC), Michael Cusack (Field Services Manager), Frank Doyle (Facilities Manager), Tara Gallagher, (Research Officer), Paula Byrne (Head of Human Resources), Jane Gilleran (Senior Fisheries Environmental Officer), Fiona Kelly (Senior Research Officer).

IFI Energy Management Core Team members (meetings held every 2 weeks):

Brian Beckett (Chair, Director Sustainability and Climate Action), Thomas McGrory (Energy Officer), Kate Walsh (Administrator), Michael Cusack (Field Services Manager), Frank Doyle (Facilities Manager). Meetings address issues of the day and keep key interdivisional communications lines open and dynamic.

3. Engaging Our People

IFI comprises 320 permanent staff and a seasonal cohort of approximately 60 staff. IFI's 'Engaging Our People' campaigns apply to all these staff plus any contractor that may have an impact on IFI's energy usage or sustainability targets.

Facilities - IFI staff are based in 72 properties spread around the country from regional headquarters to working field bases. Facility types include the following:

- Warehouses
- Laboratories
- Field Bases
- Offices
- Canteen facilities

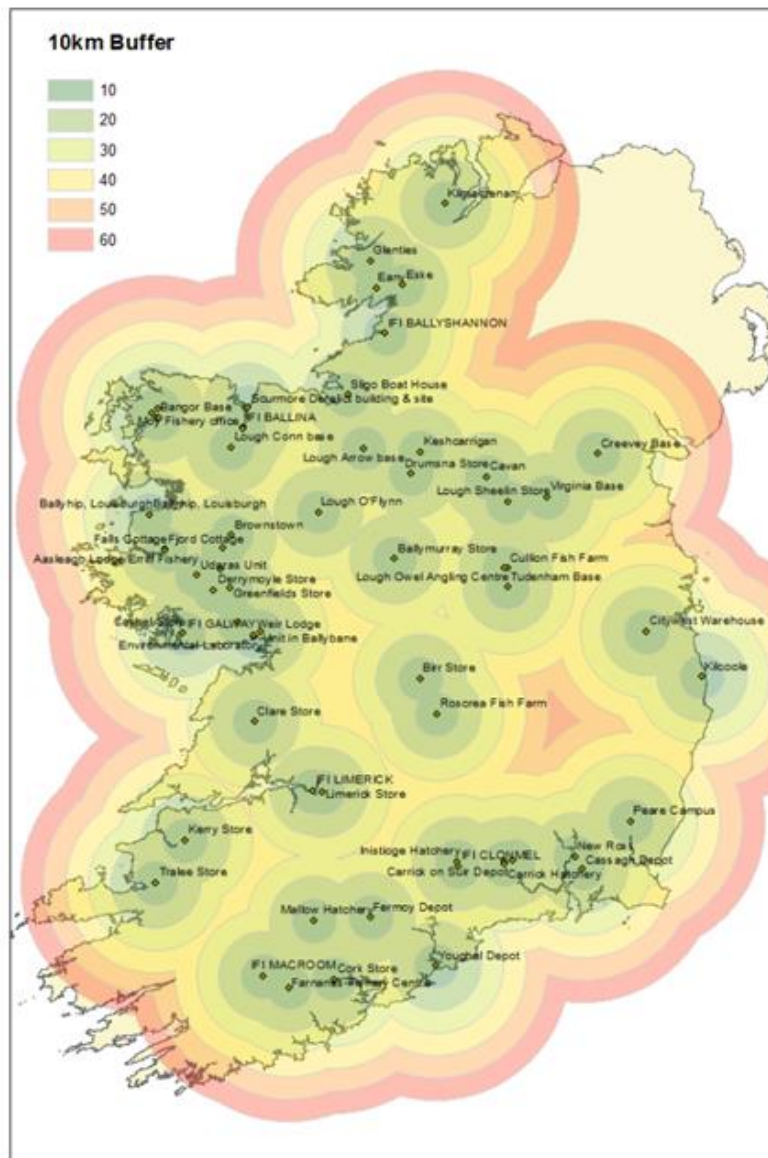


Figure 5. IFI Properties – National Distribution

IFI's 'Engaging Our People' workplace plan focuses on:

- Facilities Energy - Improved energy efficiency awareness / building auditing and subsequent action.
- Vehicle / fleet (boats etc.) energy efficiency.
- Water use reduction.
- Wastewater – reduced generation and improved management of wastes, emissions, effluents.
- Circular economy initiatives – recycling / upcycling / food waste reduction
- Climate / Biodiversity - environmental & climate action initiatives that are aligned with the legislative remit and strategic aims of IFI.
- Enhanced Green Procurement.
- Training / Education and outreach.
- Maintain IFI Green Teams Network momentum and resourcing.

3.1 IFI Engaging Our People – Plan 2024

- Continuation of quarterly Green Team meetings – newsletters / spotlight documents.
- Dedicated energy related workshop (Green Teams Q2 and Q4 2024).
- Additional EV / Fleet resources and webinars (delivered through the year).
- All staff Learning and Development Analysis and Planning (HR, Directors, HOFs):
- Budget provision for specific training.
 - Climate Action Team - Engaging People accelerator training.
 - Development of 'onboarding' module.
 - PDR analysis (HR) and associated programme.
 - All staff 'ECO Driving' refresher training
 - SEAI academy training - Engaging People / Carbon Basics
 - Targeted training in climate action leadership for SLT as per CAP '24 (CAROs).
- [St. Patricks Day 2023 flyer](#) / [Updated Eco Driving poster](#) / [long weekend and holiday](#) campaigns / environmental calendar key dates/ IFI reduce your use campaign.
- SDG material – content (short video) to be produced focusing on how IFI delivers on aspects of the SDGs
- Migration of sustainability staff resources from Climate Action Portal on SharePoint to MS Teams.
- Development of monthly and ad-hoc content for 'Yammer' internal social media platform.

4. Achieving Our GHG Targets

4.1 Non-electricity GHG emissions baseline (average of 2016-18 emissions) = 1,234,721.8 kgCO₂

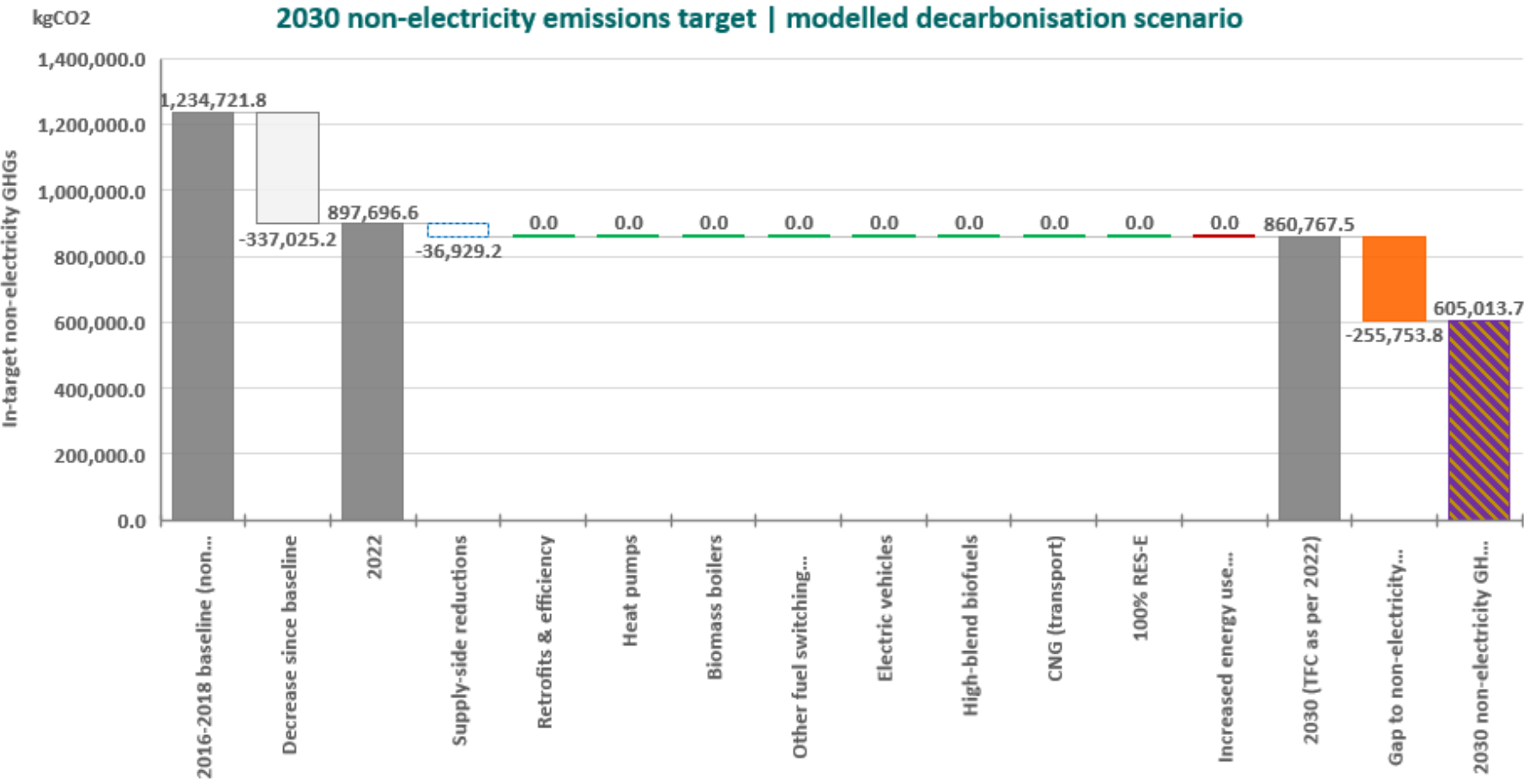


Figure 6. Non-electricity GHG emissions baseline (IFI)

4.2 Total GHG emissions baseline (average of 2016-18 emissions) = 1,756,150.4 kgCO₂

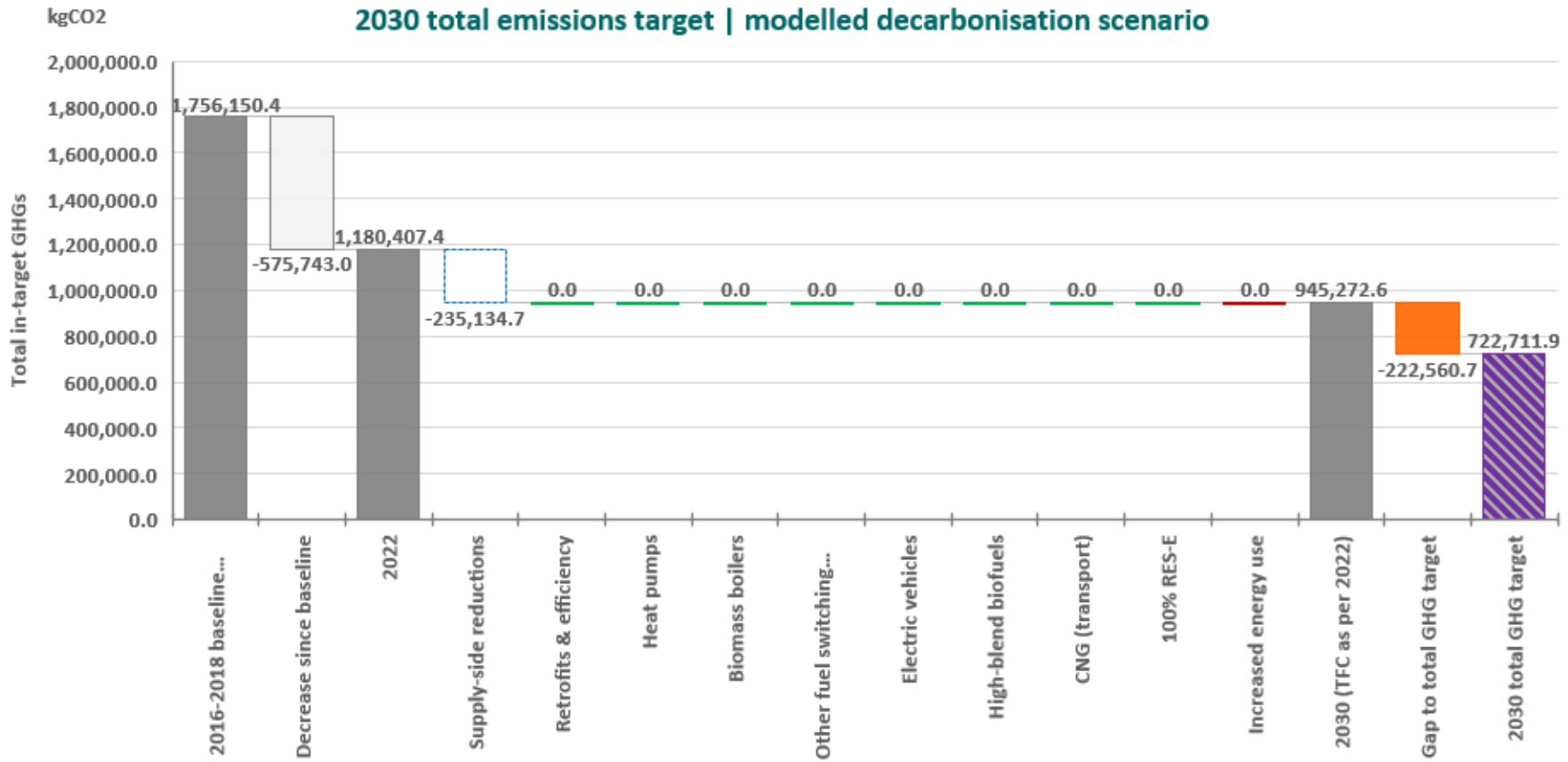


Figure 7. Total GHG emissions baseline (IFI)

4.3 Non-electricity GHG emissions model to 2030 = 598,655 kgCO₂

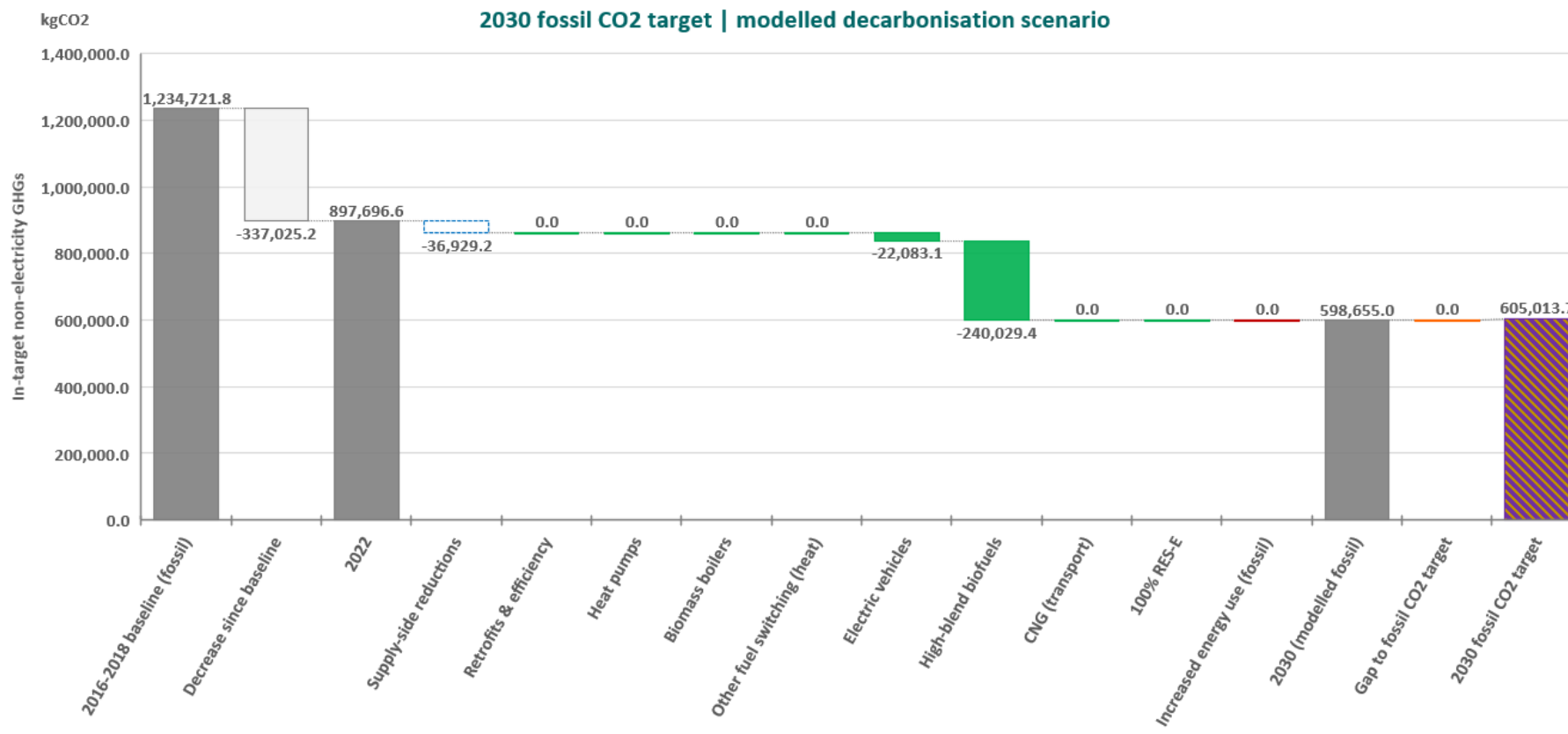


Figure 8. Non-electricity GHG modelled emissions to 2030 (IFI)

4.4 Total GHG emissions modelled to 2030 = 674,832.7 kgCO₂

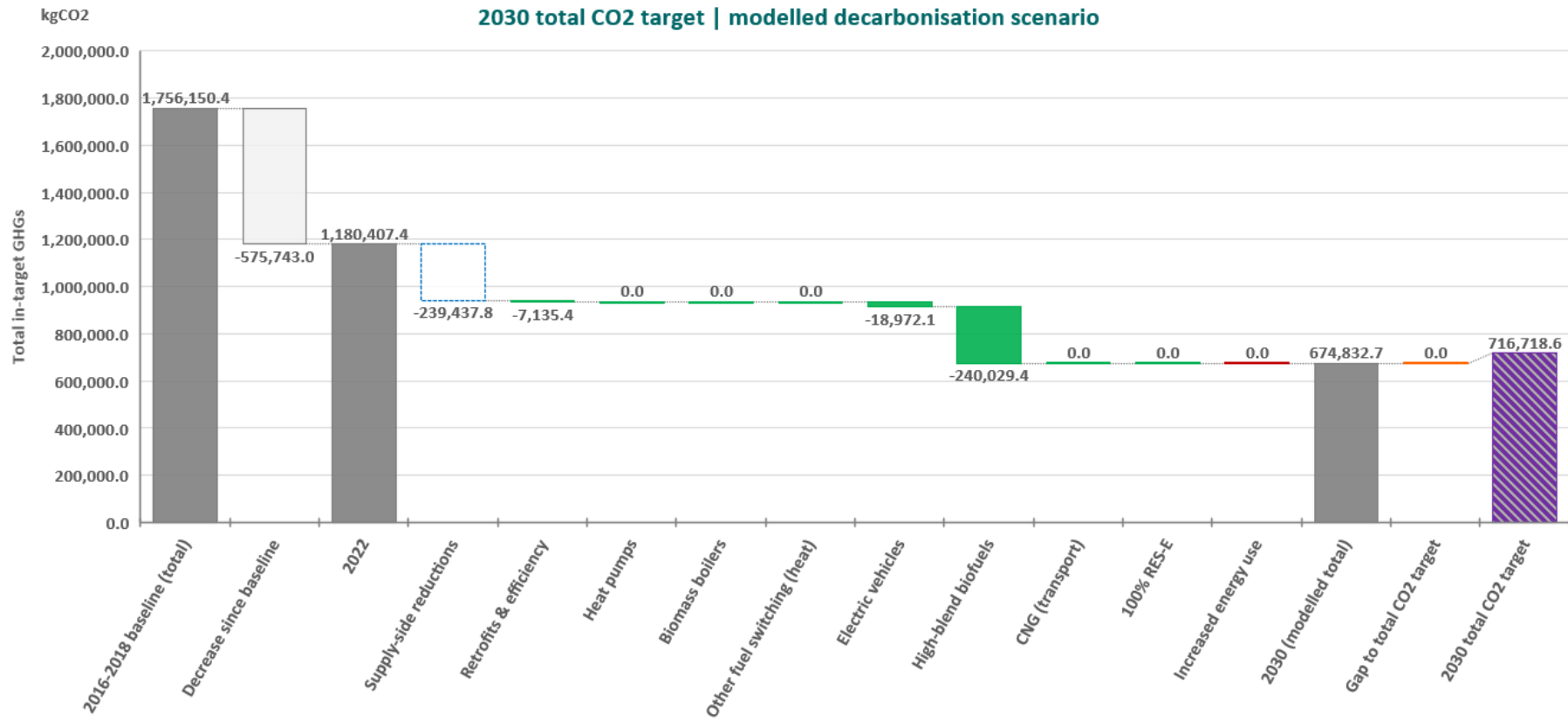


Figure 9. Total GHG modelled emissions to 2030 (IFI)

4.5 Total GHG emissions pathways and targets - Inland Fisheries Ireland (IFI)

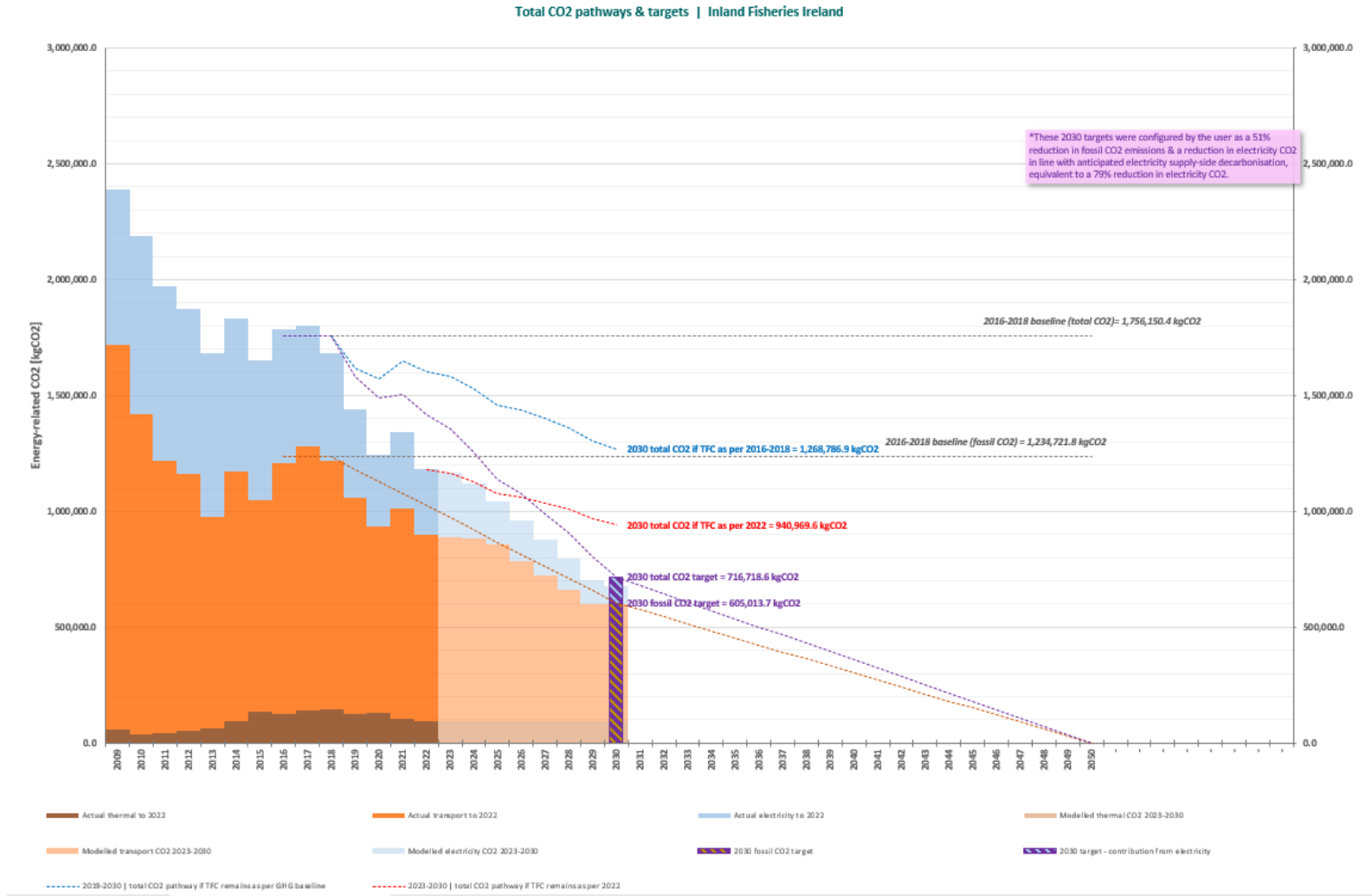


Figure 10. Total GHG emissions pathways and targets 2023 – 2030 (IFI).

(ACHIEVING OUR CARBON TARGET contd.)

Any growth in emissions between the baseline and target years based on planned increase/growth in services (if applicable):

- IFI does not foresee any significant growth in emissions between baseline and target years based on planned services at this time.

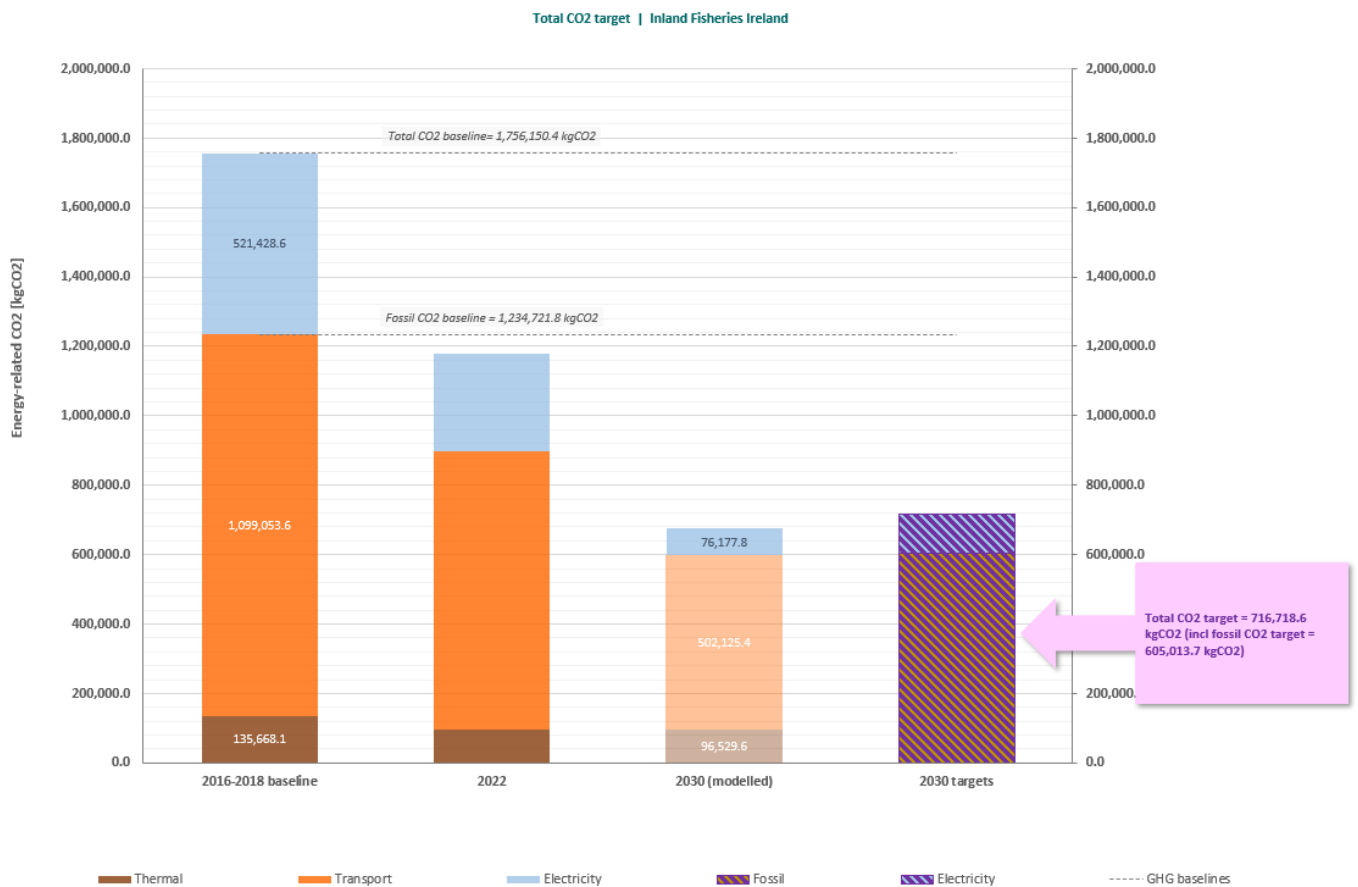


Figure 11. Total CO2 target with modelled decarbonisation scenario to 2030.

4.6 IFI 2023/2024 Carbon Target Projects Pipeline

Any planned energy related carbon reduction activities:

- IFI will continue to address all activities where carbon reduction is possible on a prioritised basis. As fleet is the most significant source of emissions in IFI, the strategy remains to decarbonise fleet as quickly as possible. IFI purchased a tranche of task-specific EVs in 2023/24 to replace a number of ICE vehicles. Property decarbonisation will also remain a key strategic focus. A number of properties are scheduled for sale in 2024, deep retrofits are planned at other properties. The following outlines the 2024/5 plan / pipeline:

Table 2. CAR Project Pipeline 2024/2025

Project Pipeline 2024 / 2025		
1	Summer Campaign Switch Off heating	2024
2	Engaging People Campaign	2024
3	City West Heating Off Monday to Friday, Expand to all RBD's where possible	2024/2025
4	Lighting replacement in City West	2024/2025
5	Deep Retrofit Weir Lodge Galway	2025
6	Additional EV Charging Points – Ardnaree Hse., Bangor, Corlesmore, Kilcoole & Fanure Fish Farm	2024
7	Galway Solar PV Project	2025
8	Youghal Base works completed	2024
9	Additional EVs on fleet	2024
10	HVO trial and implementation	2024/2025
11	REDUCE YOUR USE CAMPAIGN	2024/2025
12	Fanure Fish Farm Sustainability Programme	2024/2025
13	Energy Efficient Lighting Upgrade Phase 2	2024

IFI will lead by example and continue its pathway to achieve an overall organisational greenhouse gas emissions reduction of (average) 7% per annum for the period 2023 to 2030. This 51% reduction over the decade will be achieved through various measures including:

- Ongoing energy (carbon) monitoring (at all levels)
- Adaptive management (prioritisation of activities)
- Staff Engagement
- Fostering organisational Innovation, Collaboration and Partnerships (supporting cross-cutting decarbonisation)
- Communications Campaigns (internal and external) (IFI's Communications Office)
- Green Team Networks (meetings, workshops, publications)
- Sustainability Training – part of onboarding and CPD, PDR
- Director level meetings / engagement.
- Continued ECO-Driving training.
- SEAI training – Engaging people / Carbon Basics etc.
- Buildings / EV charging
- All Staff Workshops
- Additional Electric Vehicles ([2023 EV Strategy](#)) / switch to HVO in the case of high powered towing vehicles
- Expanding the Solar PV Network
- Continuous development of a Register Of Opportunities (ROO)

Identify any 'Gap to Target' that needs to be addressed:

There is no gap to target to be addressed at this time.

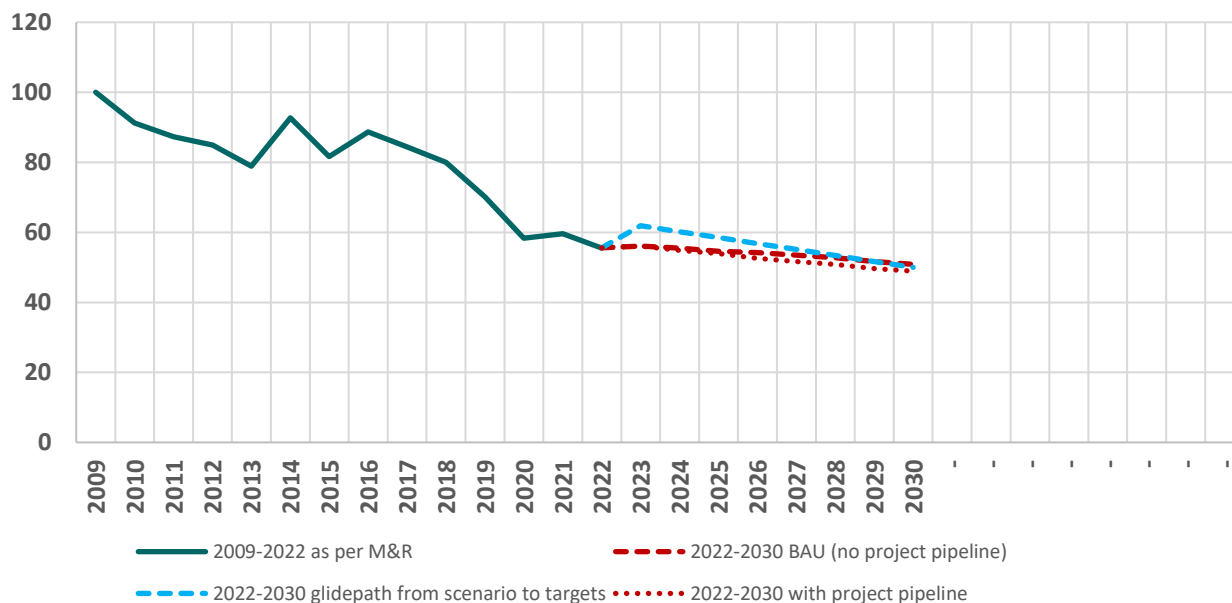
Analysis of significant carbon emitters:

Results of carbon user analysis are available in the IFI National Energy Masterfile ([LINK](#)) and in IFI's Fuel Analysis File ([LINK](#))

5. Achieving Our Energy Efficiency (EE) Target

Energy Consumption – final energy (TFC) Baseline (and BAU projection) = 7,932,022 (kWh)

Modelled TFC in target year with project pipeline = 51.5% savings



2030 target = 50% reduction

2030 (BAU) = 49.1% reduction

2030 with project pipeline = 51.5% reduction therefore no Gap to Target

Figure 12. EE Baseline (2022) and modelled EE in target year (51.5% improvement in EE)

Any growth in energy use or change in the activity metric between the baseline and target years based on planned increase/growth in services (if applicable):

- IFI does not foresee any significant growth in emissions between baseline and target years based on planned services at this time.

5.1 IFI 2024/2025 Energy Efficiency (EE) Target Projects Pipeline

Any planned energy efficiency activities:

- 2024/2025 Projects Pipeline: IFI will continue to address all activities where improvements in EE are possible on a prioritised basis. Property decarbonisation remains a key strategic focus. A number of properties are scheduled for sale in 2024, deep retrofits are planned at other properties. See Table 2 for IFI's CAR Project Pipeline 2024/2025.

Identify any 'Gap to Target' that needs to be addressed:

IFI will have no gap to 2030 target using SEAI's GTT model based on IFI's projects pipeline and EE data to the end of 2022.

Any growth in energy use or change in the activity metric between the baseline and target years based on planned increase/growth in services (if applicable):

- IFI does not foresee any significant growth in emissions between baseline and target years based on planned services at this time.

Any planned energy efficiency activities:

IFI will lead by example and continue its pathway to achieve the 2030 energy efficiency target (a collective target to improve EE by 50%) through:

- Ongoing energy (carbon) monitoring (at all levels)
- Adaptive management (prioritisation of activities)
- Staff Engagement
- Fostering organisational Innovation, Collaboration and Partnerships (supporting cross-cutting decarbonisation)
- Communications Campaigns (internal and external) (IFI's Communications Office)
- Green Team Networks (meetings, workshops, publications)
- Sustainability Training – part of onboarding and CPD, PDR
- Director level meetings / engagement.
- Continued ECO-Driving training.
- SEAI training – Engaging people / Carbon Basics etc.
- Buildings / EV charging / HVO programme
- All Staff Workshops
- Additional Electric Vehicles ([2023 EV Strategy](#))
- Expanding the Solar PV Network
- Continuous development of a Register of Opportunities (ROO)

Analysis of significant energy users:

Results of energy user analysis are available in the IFI National Energy Masterfile ([LINK](#))

6. Our Ways of Working

As required, IFI will report on the following in our Annual Report:

- Greenhouse Gas emissions.
- Implementation of the Climate Action Mandate.
- Sustainability activities.
- Compliance with Circular 1/2020: Procedures for offsetting the emissions associated with official air travel.

IFI will report annually on implementation of the Climate Action Mandate requirements using SEAI's Public Sector M&R System (when required) adopting a "comply or explain" approach.

6.1 Energy and Environmental Management Systems (EMS)

IFI intends to address the environmental impact of our activities through ongoing implementation and refinement of the current EMS to deliver:

- Improved energy efficiency through energy auditing and subsequent action.
- Reduced generation and improved management of wastes, emissions, effluents.
- Conservation of natural resources where possible.
- Efficient operation with associated cost savings.
- Environmental / climate action initiatives that are aligned with the strategic aims of IFI.

IFI's Energy Management Systems (EMS) Core Team will implement the requirements of the EMS through this roadmap and an Energy Management Plan (EMP) and will annually identify aspects of IFI's operations that impact, or have the potential to impact, the environment. The relative significance of these aspects will be recorded, and objectives will be set and mitigations will be put in place to reduce their potential impact on the environment. Based on best practice and practical experience from many programmes (e.g. ISO50001 energy management standard, the EU's Eco-Management and Audit Scheme (EMAS)) and underpinned by the Sustainable Authority of Ireland (SEAI's) Energy MAP training programme, IFI practices these 5 basic, structured energy management steps:

1. **Commit:** IFI signed up to a partnership agreement with SEAI in 2017. IFI have appointed a senior manager in IFI to provide leadership and accountability; Empower IFI staff to act: choose an appropriate path to energy management or certification.
2. **Identify:** work to identify actions and projects based on IFI energy performance data – SEAI and OPW can assist.

3. **Plan:** avail of strategic planning assistance through IFI's partnership agreement with SEAI; build energy management capacity; integrate facilities management, finance and human resource functions in IFI's energy management planning; set annual energy saving targets.
4. **Take Action:** avail of project design, development and supervision support; commit to projects.
5. **Review:** measure results through in-house systems and SEAI's energy portal monthly and continually improve energy performance.

IFI achieved its 2020 energy efficiency target with support from the SEAI and now an accelerated programme of measures is planned to manage reduced energy use with the goal of not only meeting but exceeding IFI's 2030 targets as follows:

ENERGY (Properties)

Design: when new facilities and processes are being planned and designed and when existing facilities and processes are being re-designed

Acquisition: when vehicles, equipment and facilities are being bought, upgraded or leased

Use: when IFI staff use energy in the course of their work

Building and Process Design: The greatest opportunity to reduce lifecycle energy and carbon for IFI is at the early design stages of new investments. SEAI advise that up to 95% of the lifespan cost is already committed at the end of the design process and that case studies have demonstrated that savings available can range up to 50% improvement from a baseline design. The SEAI's Annual Report 2016 on Public Sector Efficiency Performance found that electrical accounted for 51% and heating (thermal) accounted for 25% of primary energy consumption in the public sector.

In practical terms, the approach should be to exploit the short pay back works first (e.g. behaviour change, optimising existing controls, and mechanical and electrical upgrades). The next step is to consider those projects with longer payback and identify synergies between these work packages.

IFI adopts renewable energy solutions in tandem with energy efficiency action where appropriate. Use of renewable energy is rewarded in the methodology used to track public bodies energy performance (SEAI's Monitoring and Reporting system). Onsite renewable energy generation that offsets imported grid electricity continues to improve IFI's energy

performance. A holistic approach to energy saving projects and improved energy performance is planned. The strategy to improving energy sustainability is as follows:

1. Energy management: understand your existing energy use, and adopt ongoing controls
2. Energy efficiency: through onsite surveys identify energy efficiency improvements to facilities, vehicles, and equipment to reduce that usage
3. Renewable technologies: examine renewable options when considering how to meet this reduced energy use

Energy (Transport)

It makes sound energy management, and financial, sense for public bodies with large transport fleets (either operational vehicles or public transport) to make energy efficiency central to their fleet management. Efficient driving behaviour has been shown to improve transport fuel efficiency by between 5% and 10%. IFI provides 'Eco-driving' training for employees and has driver management processes in place. IFI is seeking to influence energy usage through developing Workplace Travel Plans (WTPs) with support, as required, from other agencies. A WTP is a package of measures aimed at supporting sustainable travel for work-related journeys. It comprises actions to promote walking, cycling, public transport, car-sharing, modal shift, the use of technology instead of travel, and flexible working practices. The emphasis in WTP's on physical exercise is a good example of how energy efficiency could link with Government objectives to improve public health and wellbeing such as the Healthy Ireland Initiative.

6.2 IFI Energy Action Plan Programme 2024

Decarbonisation in IFI - Energy Management Action Plan (EMAP) 2024

IFI's EMAP is broadly comprised of the following elements:

- Objectives / targets;
- Cost / budget;
- Person responsible for each objective;
- Target date for completion of each objective;
- Actual date of completion.

7. Greening Our Procurement

Annual public sector purchasing accounts for up to 12% of Ireland's GDP, forming a large part of its overall economic activity and demand. This provides our public sector with significant influence to stimulate the provision of more resource-efficient, less polluting goods, services and works within the marketplace – in line with Ireland's Climate Action Plan 2024. IFI is committed to ensuring that its procurement processes comply with all government circulars and will actively encourage and promote the use of green procurement. IFI is committed to the compliant procurement of goods, services and works, in line with best public procurement practices, to achieve value for money outcomes which are strategically aligned to the business needs of IFI. IFI is a proven leader in adopting electric vehicles (EVs) into the mainstream fleet, but we have an ambition to achieve much more through our broader procurement strategy. Driven and supported by a dedicated and specialist procurement section, incorporating green criteria into public purchasing provides an opportunity to convert environmental policy objectives on carbon reduction, air and water quality, and waste reduction into delivered actions. IFI's Procurement Policy document sets out the policy for the procurement of goods (supplies), services and works by Inland Fisheries Ireland (IFI) and to ensure that procurement throughout IFI is undertaken in accordance with National and European Union Public Procurement Regulations & Directives, Legislation, Policy, and Guidelines. The document will be subject to amendment and review periodically and the most up-to-date version will be available to all staff. IFI's Procurement Policy document can be viewed [HERE](#).

7.1 IFI Green Public Procurement Programme 2023

The following steps are being, or will be taken, by Inland Fisheries Ireland to accelerate our green procurement practice:

- Targeting priority products and services with associated "green criteria".
- Working with OGP to deliver green frameworks as they arise for renewal (IFI has already collaborated with the OGP on sourcing sustainable keep cups and water bottles).
- Engaging with suppliers, especially SMEs regarding GPP opportunities.
- Collaborating with the OGP and other agencies to support an "All of Government" approach to the successful incorporation of green criteria and other social considerations into public procurement policy and practice.
- Developing clusters and networks for GPP.
- Building monitoring and reporting into our corporate governance model.
- Supporting staff through green procurement training.

Also included in IFI's Procurement Policy Document is information and a link to the OGP online search tool. This is a very useful tool, enabling Contracting Authorities to identify relevant GPP criteria. The online search tool allows users to rapidly find, select and download Green Public Procurement (GPP) criteria relevant to a specific procurement project. It makes it easy to find standard green criteria and then add them into a procurement specification along with objective ways of verifying those criteria.

7.2 Next steps and measures in development

A system is currently being designed to gather and record data on GPP implementation.

8. Baselineing and Reducing Resource Use / Circularity

The conservation of valuable water resources and protection / enhancement of biological diversity are key aspects of IFI's role. Targeted actions in respect of water conservation, biodiversity enhancement and waste reduction are being developed throughout the country at IFI properties via IFI's Green Team network. As outlined in Ireland's Climate Action Plan (2024), our current linear economic model, based around 'Take-Make-Waste', is environmentally and economically unsustainable. Increasing extraction of natural resources and the generation of waste is a major contributor to habitat and biodiversity loss and contributes to global warming. Moving to a circular economy offers a sustainable alternative to the current model and IFI is fully committed to playing its part in this transition through adoption of a more circular and sustainable waste management model thereby supporting a healthy environment, economy, and society.

8.1 Construction - The Cement Task Force submitted a public procurement policy to Government in Q2 2024 ([HERE](#)) to facilitate public bodies to incorporate the principle of low carbon construction methods and materials and whole life-cycle analysis approaches in all publicly procured or supported projects. IFI specify low carbon construction methods and low carbon cement material as far as practicable for directly procured or supported construction projects.

8.2 Food Waste - IFI is committed to a 'Stop Food Waste Campaign' which is ongoing at all sites (resource sharing with staff). Management and Green Team initiatives remain focused on improvements in waste handling (e.g., discarded nets recycling initiative, workwear circular economy initiative) and on the reduction in waste volume generated are gaining momentum throughout IFI.

8.3 Paper - Digitalisation forms a key cornerstone of IFI's ICT strategy. IFI's ICT Division are progressively removing the need on-premises file server infrastructure with an ongoing and accelerating programme of migration to the cloud. IFI moved to a 'paperless approach' at all office locations in 2014 however, paper remains a component of business communications systems and thus it has been impossible to remove it entirely from local processes. IFI remain absolutely committed to the minimisation of paper use wherever possible and are continually engaged in process review with a view to removing paper where possible. A project targeting further digitisation of IFI paper processes will be launched in 2024. A number of geospatial field applications developed in 2022 and 2023 have removed the use of paper in the field.

8.4 Next steps and measures/initiatives in development

Construction

- IFI will specify low carbon construction methods and low carbon cement material as far as practicable for directly procured or supported construction projects from 2024.
- IFI will adhere to the best practice guidelines for the preparation of Resource and Waste Management Plans for construction and demolition projects for directly procured or supported construction projects from 2024.

Food Waste

- IFI is currently expanding a system to measure and monitor the food waste generated on our premises, using a standardised approach to food waste measurement set out in the EPA Protocol/Pathway.
- All new contract arrangements related to canteen or food services, including events and conferences, will include measures that are targeted at addressing food waste, with a specific focus on food waste prevention and food waste segregation.
- IFI will calculate our food waste benchmark and will set a target to reduce food waste and identify actions to meet that target. IFI will report on progress annually.
- IFI will support National Stop Food Waste Day in March each year.

Paper

- IFI is reviewing paper-based processes and evaluating the possibilities for digitisation, so it becomes the default approach.
- IFI will eliminate paper-based processes as far as is practicable. Where paper must be procured, IFI will ensure that recycled paper is the default (OGP framework now in place).
- A system is being set up to measure and monitor paper consumption.
- Once a baseline for paper consumption is known, a target to reduce paper use will be set and actions to meet that target will be identified and taken. This will be reported on in IFI's annual report.
- Paper waste generation (quantity and/or expenditure), e.g. wastepaper collected for shredding will be quantified.
- Once a baseline for wastepaper generation is known, a target will be set to reduce the amount of paper waste generated.

Water

- IFI will provide suitable drinking water refill points for all staff and in any premises accessed by the public and measure and monitor usage of the refill points.

- IFI will measure and monitor water consumption.
- IFI will implement a plan to reduce water consumption.
- IFI is rolling out rainwater harvesting to 10 key locations nationally.

Single Use

IFI has ceased using disposable cups, plates and cutlery in any public sector canteen or closed facility, excluding clinical (i.e., non-canteen healthcare) environments, and in publicly funded advertising or broadcasting, where feasible.

IFI has progressively eliminated all single use items within the organisation and from events organised, funded, or sponsored.

Waste (other materials)

- IFI will support Ireland's Producer Responsibility Initiatives in the collection and recycling of products.
- IFI will use waste collection services that are segregated into a minimum of 3 streams - residual/general waste, recycling waste and organic/biowaste.
- IFI will track waste generation (general waste, dry recyclables, organic waste, other wastes e.g. waste electrical and electronic equipment).
- IFI has set out plans to prevent waste (general waste, dry recyclables, organic waste, other wastes), to progressively reduce waste generation in an updated IFI Waste Management Policy.

General Green Team Initiatives

- IFI lands available for tree planting currently under consideration by RBD team.
- IFI National 'Green Day' event in preparation.
- Pilot project on rainwater harvesting developed and 'how to' guidance complete.
- Pilot project on IFI beehive completed and report produced (available).
- Water conservation / waste management measures at each IFI site to include:
 - Green bins paper recycling system for all IFI offices
 - Rainwater harvesting for key IFI sites.
 - Greywater re-use systems roll-out.
 - Wastewater systems upgrades / maintenance contracts review and renewal.
 - Information campaigns and collaboration with SEAI / OPW 'Reduce your Use' campaign in preparation.

9. Improving Our Buildings and Vehicles

IFI Building Stock Plan (Appendix A)

The Energy Efficiency Directive SI 599 of 2019 outlines that organizations with 250 or more employees, a useful floor area of more than 500m² and energy spend greater than € 35,000 annually must complete an energy audit and do further audits every 4 years. The Government has established the Energy Auditing Compliance Scheme, this is operated by SEAI to ensure compliance in the Republic of Ireland. IFI is in the ongoing process of carrying out rolling building audits. IFI have achieved a 'B' rating or higher at 4 properties (Ardnaree House (A3), Ashbourne Business Park (B1), Clonmel (B3) and Ballyshannon (B2). IFI continues to have all DEC (Display Energy Certificates) updated and displayed annually.

Future upgrades and property purchases will be required to meet the NZEB (Nearly Zero Energy Building) standard. Further audits in 2024/5 will identify which buildings are suitable for retrofit to this standard. The climate action plan advises that public sector bodies with a large estate should commence a deep retrofit of at least one building in 2024 in pursuit of the 2030 51% target and deliver a building stock plan to undertake data gathering and to consider long term (to 2050) retrofit key performance indicators to upgrade all the building stock to NZEB (Nearly Zero Energy Building). As required, IFI has committed not to install heating systems that use fossil fuels, unless at least one of the listed exceptions (CAP 2024) applies.

Inland Fisheries Ireland is progressing with plans for 2 deep retrofits at owned properties in 2024/2025. Inland Fisheries Ireland have developed a national building energy management system (2022/2023) which identifies trends in energy usage and provides management with real time data supporting informed decision making in respect of energy management in IFI properties.

IFI Vehicles

Although IFI energy savings of 44.5% have been made since baselines were drafted, approximately 60% of IFI's total energy demand comes from fleet. The majority of IFI staff travel daily to deliver IFI's statutory functions. Given the overwhelming influence of fleet on IFI's energy profile, ambitious and meaningful action in this area has the potential to deliver statutory reductions in organizational greenhouse gas emissions and improvements in energy efficiency. Under IFI's Climate action mandate only zero-emission vehicles where available and operationally feasible will be purchased from the end of 2022. IFI will go beyond the requirements of the Clean Vehicle Directive where possible and has already been recognised as a public sector leader in the transition to decarbonised fleet and operations.

In the context of carbon emission & fleet management Inland Fisheries Ireland's vision is to replace our fleet of internal combustion engines (ICE) with renewable energy powered vehicles and to eliminate carbon emissions by 2050. This is in keeping with our wider organisational vision to position Ireland's inland fisheries and sea angling resources as sustainably as possible for the benefit of future generations.

9.1 IFI Fleet Strategy / Plan 2023 – 2030

- Leading by example with ambition as required in the Climate Action Plan.
- Annual capital expenditure commitment of €550,000 to secure over 80% of fleet operating electrically by 2030.
- Introduction of advanced eco driving training for staff.
- Rationalisation of the fleet, reduce single occupancy journeys.
- Workplace travel planning and behavioural change, utilising the office hybrid working model.
- Empowerment of IFI staff and enabling responsive management through real-time data including live dashboards, telematics, and monthly summary reporting.
- Continual review of EV charging points and technologies ensuring optimal facilities for IFI staff vehicles.
- Collaborate to explore opportunities to share facilities with other state bodies, supporting cross-cutting decarbonisation.
- Promote the use of bicycles (including push bikes, electric bikes, and cargo bikes), bicycle parking and shared mobility options as an alternative to car use among employees and visitors.
- Phase out the use of parking in buildings that have access to a range of public transport services and active/shared mobility options for the majority of staff/visitors while providing that sufficient accessible parking is maintained for those with physical mobility issues.
- Strategy to be reviewed and updated annually to achieve 2050 targets to reflect up to date policy and technical progress.
- Continued alignment with the SEAI and the OPW campaign, Reduce Your Use. This campaign is focusing on driving behavioural change and implementing a range of measures to lower energy consumption and costs in the public sector.
- Complete the EV Charging Strategy for IFI staff.
- Reducing single passenger/low number journeys

10. Our Wider Climate Action Plans

The conservation of valuable water resources and protection / enhancement of biological diversity are core components of IFI's legislative remit. It is significant that provision has been made in the programme for government (2020) where alignment exists with IFI high level goals and objectives as follows: 'Promote planting of 'protection forests' along rivers and lakes to protect water quality and assist in managing flood risks.'

10.1 IFI and River Habitat Restoration

Ireland's native fish fauna, particularly salmonids, are considered cold-water adapted species, typically thriving in water temperatures below 20°C (Elliot et al., 1995). They flourish in river catchments where clean sediments and pure water provide ideal spawning and nursery habitat to complete their life-cycle. Applied research by Inland Fisheries Ireland is currently investigating the potential for climate change to impact on river ecosystems, particularly in terms of rising temperatures. Initial results have indicated that channels with well vegetated riparian zones are significantly more amenable to salmonid survival with mean temperature differentials of up to 8°C between these and more open river sites (O'Briain et al 2017). Human activity and land use practices in many of our river catchments are impacting on their natural hydrological processes as well as habitat and water quality. As our climate changes, drought conditions, higher temperature extremes and acute flood events are expected to become more frequent and the disruption of catchment processes, brought about by our actions, have left river ecosystems more vulnerable to the effects of this change. This decline in ecosystem resilience is likely to accelerate biodiversity loss, further devaluing the natural capital provided by our water resources.

IFI is engaged in a number of projects aimed at restoring habitat quality in Ireland's river catchments. Strategies have been developed to improve fish habitat which use natural materials and methodologies to reinstate hydrological processes, both in-stream and in the riparian zone to build climate resilience in our aquatic ecosystems. All of our habitat restoration projects entail the establishment of aquatic buffer zones along riverbanks. These zones are critical in the protection of watercourses and the establishment of robust, biodiverse river corridors. Trees provide multiple ecosystem benefits to our landscapes. They are of particular importance to our river catchments, mediating temperatures, consolidating soils, controlling erosion, intercepting the flow of nutrients and sediments, providing instream and riparian habitat for aquatic species. They are an essential part of the hydrological cycle and can provide significant control to the rate at which water moves through catchments (Stratford et al 2017).

Last year, IFI carried out restoration and maintenance work on 27km of river habitat, comprising the development and protection of riparian zones with a particular emphasis on tree planting. The primary objective of these projects is to improve fish habitat and contribute to the establishment of climate resilience in our river catchments.



Photographs 3 and 4. Tree planting is an essential part of IFI's river habitat restoration programme. The benefits of trees in riparian habitats, particularly in terms of temperature mitigation, is now recognised as a priority in habitat restoration.

10.2 IFI Climate Action and Water - Research

IFI Climate Change Mitigation Research Programme | CCMRP

IFI established the [Climate Change Mitigation Research Programme](#) (CCMRP) in 2019 to build an evidence-based research programme to assess the impact of climate change on Ireland's fish species and their habitats, with the aim to inform policy and build capacity for fisheries conservation and protection measures. In 2020, the Office of Public Works and Inland Fisheries Ireland increased the scope of this project through a collaborative research project (Climate Change Resilience Research in OPW Drained channels (OPWCRP)) examining the impact of climate change on Irish fish in modified and drained catchments. The main objective of the research programme is to establish and manage a long-term environmental, fish and habitat monitoring programme and use the most advanced mapping tools and modelling available to analyse the data. We will then be able to identify waterbodies most at risk from climate change throughout Ireland and find ways of reducing its impact. By examining climate change effects and its impact on Irish fisheries and their habitats, we can make predictions for the future and develop methods to "mitigate" or reduce its potential impact. A short summary of some relevant IFI Research projects are included in Appendix A.

References

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APPENDIX A

- [Legal Requirements for Energy and Climate Action](#)
- [Inland Fisheries Ireland – Electric Vehicle Fleet Integration Strategy](#)
- [Inland Fisheries Ireland | Energy - Fleet](#)
- [Inland Fisheries Ireland | Energy - Properties](#)
- [Inland Fisheries Ireland – Green Teams](#)
- [Staff Engagement - St. Patricks Day 2023 Flyer](#)
- [Staff Engagement – Eco Driving Poster](#)
- [Staff Engagement – Switch Off](#)
- [Inland Fisheries Ireland – PV Network Map](#)
- [Inland Fisheries Ireland – EV Network Map](#)
- [Staff Engagement – Spotlight Document](#)
- [IFI GREEN TEAMS - TERMS OF REFERENCE](#)
- [Pathways to Decarbonisation](#)
- [IFI Energy Management Action Plan 2024](#)
- [IFI Building Stock Plan 2024](#)
- [IFI Research Division Climate Projects Summary](#)

Setting the Scene - EU Emissions Targets

Ireland's greenhouse gas (GHG) emissions, and those of other EU Member States, can be split into two categories: those that are in the EU emissions trading scheme (ETS) and those that are not (non-ETS):

- The ETS sector includes over 11,000 power stations and industrial facilities throughout the EU, as well as airlines that operate within the EU. ETS emissions are dealt with at EU level, with a target to reduce by 43% by 2030, relative to 2005 levels.
- Almost all direct emissions from the public sector, as well as those from agriculture, transport, households and small industry are in the non-ETS sector. All non-ETS emissions are dealt with by Member States through legally binding targets. IFI is subject to these legally binding targets.

Ireland has an EU-agreed target to achieve a 30% reduction in non-ETS sector emissions by 2030, relative to 2005 levels, with annual binding emissions limits set for each individual year to 2030, in accordance with the EU Effort Sharing Regulation (ESR).

Under the EU Green Deal, the targets for the ETS and non-ETS sectors will be revised upwards "in order to achieve the commitment, at EU level, to reach an economy-wide 2030 reduction in emissions of at least 55%, compared to 1990 levels.

Climate Action and Low Carbon Development (Amendment) Act 2021

The Climate Action and Low Carbon Development (Amendment) Act 2021 commits Ireland to reach a legally binding target of net-zero emissions no later than 2050, and a cut of 51% by 2030 (compared to 2018 levels). This target encompasses the ETS and non-ETS sectors.

These targets are aligned with Ireland's obligations under the Paris Agreement, and with the EU Green Deal objective to achieve an economy wide reduction in GHGs of at least 55% by 2030 and to achieve climate neutrality in the European Union by 2050.

Carbon Budget Programme

The 2021 Act also establishes a system of five-year economy-wide carbon budgets. Each carbon budget will be proposed by the Climate Change Advisory Council (CCAC). Once each budget is approved, the Government will divide the overall carbon budgets into sectoral emissions ceilings.

The first carbon budget programme was approved by Government in February 2022. It provides for a 51% reduction in emissions by 2030 (4.8% per annum 2021-2025 and 8.3% per annum 2026-2030) and for 3.5% per annum reduction in the subsequent 5-year period (2031- 2035) – these various targets will all impact fundamentally in IFI's operations.

The Government subsequently agreed sectoral emissions ceilings, which establish the maximum cumulative emissions that are permitted in a given sector of the economy over each 5-year carbon budget period and 'associated percentage changes in emissions, relative to 2018 levels'. The sectors most relevant to the public sector are 'built environment', which has a budget reduction of 45% between 2018 and 2030, 'transport' (50% reduction) and electricity (75% reduction).

Context Legislative Obligations

Climate Action and Low Carbon Development (Amendment) Act 2021

The Climate Action and Low Carbon Development (Amendment) Act 2021 requires all public bodies to perform their functions in a manner consistent with Ireland's climate ambition. The Act requires each local

authority to prepare a Local Authority Climate Action Plan, specifying the adaptation and mitigation measures to be adopted by the local authority – by March 2024.

Energy Efficiency Directive

The Energy Efficiency Directive (2012/27/EU) was transposed into Irish legislation via SI 426 of 2014 and has been updated via several amendments. These regulations “set out a range of obligations on public bodies relating to the efficient use of energy so that the public sector will demonstrate an exemplar role, including in the areas of energy audits, energy efficient public procurement and purchase or lease of energy efficient buildings”.

Regulation 4 defines what is meant by a public body and the scope of the public sector.

Regulation 5(3) requires public bodies to report energy-related data to SEAI in accordance with procedures and methodologies specified by the SEAI. These data in turn form part of Ireland’s reporting return to the EU under responsibilities described in Section 1.

Regulation 5(5) requires public bodies to publish an annual statement in accordance with a format specified by SEAI.

Regulation 8 obliges public bodies to only purchase or lease buildings with BERs of A3 or higher.

Amending regulations SI 646 of 2016 oblige all public bodies to only purchase equipment and vehicles that are either listed on SEAI’s Triple E register⁶ or satisfy energy efficiency criteria published by SEAI.

Amending regulations SI 646 of 2016 and SI 599 of 2019 oblige public bodies that have individual buildings >500m² or have an annual energy spend >€35,000 to undertake energy audits on 4-year cycles in accordance with minimum criteria specified by SEAI.

Energy Performance of Buildings Directive

Elements of the recast Energy Performance of Buildings Directive (2010/31/EU) were transposed into Irish legislation via SI 243 of 2012.

Regulation 14 requires that public bodies secure and prominently display valid display energy certificates (DECs) in all buildings >250 m² that are occupied by public bodies and frequently visited by the public.

Regulation 14(6) obliges public bodies to implement BER advisory report recommendations for cost-optimal or cost-effective improvements in buildings that they occupy, within the period of BER certificates’ validity.

Regulation 8 requires organisations commissioning new buildings to consider the feasibility of installing high efficiency alternative energy systems and must take this into account in the design of such buildings.

Directive 2010/31/EU requires that all new buildings occupied or owned by public bodies be nearly zero-energy buildings (NZEB). Part L of the 2017 Building Regulations, which came into effect in January 2019, defines NZEB requirements in Ireland.

The Building Regulations also require the energy performance of buildings that undergo major renovations to be improved to “cost optimal level in so far as this is technically, functionally and economically possible”. Major renovations are defined as renovations involving more than 25% of the surface area of the building envelope.

Clean Vehicles Directive

The Clean Vehicles Directive (2019/1161 [13]) was transposed into Irish legislation via SI 381 of 2021. It defines ‘clean vehicles’ and establishes national targets for their public procurement.

Regulation 8 requires contracting authorities and contracting entities (as defined for the purposes of public procurement) to report procurements of vehicles through SEAI's monitoring & reporting (M&R) system.

Public Sector Targets

The 2023 Climate Action Plan (CAP 2023) reaffirmed out two high-level targets for public bodies that had been originally introduced in previous iterations of the plan

- The public sector must improve its energy efficiency by 50% by 2030. This target builds on the previous 33%-by-2020 efficiency target and is based on public bodies' existing baselines, most of which are 2009 (or earlier).
- The public sector must reduce its GHG emissions by 51% by 2030. Every public body will be assigned a public-body-level emissions reduction target "based on an absolute tonnage of GHG emissions. The total tonnage target will be a 51% reduction of direct energy-related emissions (thermal and transport consumption), plus projected supply side reductions in indirect energy-related emissions from electricity. The baseline for the methodology is the period 2016 to 2018..."

Climate Action Mandate

- A Climate Action Mandate applies to IFI and all public bodies, except local authorities, commercial semi-state bodies and schools. The current mandate, which will be reviewed annually, includes the targets set out below:
- Public bodies must embed climate action into their organisations, by establishing green teams and board-level climate & sustainability champions, and by providing training and staff workshops on climate issues. All senior management were required to complete a training course on climate action leadership in 2023.
- IFI and all public bodies must report on the following in their annual reports:
 - Implementation of the mandate
 - GHG emissions
 - Sustainability activities
 - Compliance with circular 01/2020 on offsetting emissions from air travel.
- IFI and all public bodies must evaluate the feasibility of digitising paper-based processes.
- Public bodies with energy spends >€2m must achieve ISO 50001 certification by the end of 2024. IFI and all other public bodies must implement energy management programmes in accordance with SEAI guidance and report on same to SEAI.
- IFI and all public bodies must implement green public procurement (GPP) in accordance with EPA guidance, must cease using disposable cups (etc.) and must specify low-carbon construction methods and cement materials "as far as practicable for directly procured or supported construction projects from 2023".
- IFI and all public bodies must promote the use of bicycles and shared mobility options "by creating and maintaining facilities...that support such options, including secure and accessible bicycle parking, shared mobility parking, and charging stations, as appropriate, with a view to achieving the Smarter Travel Mark."
- From January 2023, IFI and all public bodies may only procure zero-emission vehicles unless the vehicle is exempt under via SI 381 of 2021.
- IFI and all public bodies must phase out the use of parking in buildings that have access to more sustainable alternatives.
- IFI and all public bodies may not install fossil-based heating systems after 2023 in new buildings or buildings undergoing major renovation.
- By the end of 2023, IFI and all public bodies were required to develop building stock plans, starting to develop the plan to decarbonise the portfolio through a combination of new buildings construction, retrofit of existing buildings, and the management of leased properties. As part of

these plans, public bodies are required to "consider the long-term (to 2050) retrofit key performance indicators to upgrade all their building stock".

- Public bodies that consume over 50 GWh per annum and sectoral groups defined within CAP 2023 as large public bodies "should commence a deep retrofit of at least one building in 2023."
- SEAI will work with IFI as a part of a 'sectoral group' to develop renovation targets in 2024.

Climate Action Roadmap

IFI and every public body to which the mandate applies must prepare a Climate Action Roadmap in accordance with guidance developed by SEAI and the EPA.

An initial and an updated version of IFI's roadmap were published in 2023 according to Government requirements. Public bodies are obliged to update their roadmaps each year, in line with annual updates to the mandate (following on from annual updates to the Climate Action Plan).

Electric Vehicle Fleet Integration Strategy



**Iascach Intíre Éireann
Inland Fisheries Ireland**

Electric Vehicle Fleet Integration Strategy

August 2022

Introduction and IFI's Vision and Values

Introduction

The SEAI's Annual Report 2021 on Public Sector Efficiency Performance found that transport accounted for 21% of primary energy consumption in the public sector in 2020. Although IFI energy savings of 43.6% have been made since baselines were created, approximately 70% of IFI's total energy demand comes from fleet. The majority of IFI staff comprise IFI's 'mobile workforce' travelling daily to deliver IFI's statutory functions. Given the overwhelming influence of fleet on IFI's energy profile, ambitious and meaningful action in this area has the potential to deliver statutory reductions in organizational greenhouse gas emissions and improvements in energy efficiency. The Climate Action Plan 2021 sets a national target of one million electric vehicles by 2030 and the phasing out of fossil fuel vehicles in public fleets. The action plan further states that all public sector fossil fuel vehicles will be replaced with electric vehicles by 2035.

Under IFI's Climate action mandate only zero-emission vehicles where available and operationally feasible will be purchased from end of 2022, enabling Ireland to go beyond the requirements of the Clean Vehicle Directive and act as an international leader in this area.

Vision Statement

In the context of carbon emission & fleet management Inland Fisheries Ireland's vision is to replace our fleet of internal combustion engines (ICE) with renewable energy powered vehicles and to eliminate carbon emissions by 2050. This is in keeping with our wider organisational vision to position Ireland's inland fisheries and sea angling resources as sustainably as possible for the benefit of future generations.

Mission Statement.

To protect, manage and conserve Ireland's inland and sea fisheries resources, maximising their sustainability and natural biodiversity.

Core Values

We work collaboratively with professionalism.

We are open, transparent, and accountable.

We act with respect and integrity.

We stay committed to stewardship and sustainability.

SWOT Analysis

Strengths	Weaknesses
<p>Significant contribution to reduced carbon targets (legally binding)</p> <p>Cheaper to maintain</p> <p>Less time off road for servicing</p> <p>Reduced full life costs - lower costs of ownership</p> <p>PR - we-care for the environment - positive public image</p> <p>Reduced BIK</p> <p>Lower Motor Tax</p> <p>Lower VRT rates</p> <p>Energy savings from regenerative braking</p> <p>Government grant (excl commercial)</p> <p>Rising fossil fuel costs</p> <p>Increasing carbon tax</p> <p>Zero emissions - no air or noise pollution</p> <p>Policy on purchase of EV's from Jan 2023</p> <p>Less moving parts than ICE (reduced part replacement costs & no requirement for lubricating synthetic oils or fluids)</p> <p>Typical 8 year battery warranty</p> <p>Technology is quickly extending driving range and vehicle viability</p> <p>DC charge point availability is relatively fast and becoming more widespread. Government Strategy introduced</p> <p>Smarter Travel Mark</p>	<p>Long charging times at AC public charging points and at home.</p> <p>DC infrastructure development limited by work site power supply and costs.</p> <p>Charging Infrastructure – plans in place but not currently developed</p> <p>E vehicles not developed for off road or towing yet</p> <p>High initial costs</p> <p>Battery change is expensive</p> <p>Ranges for some vans - restrictive</p> <p>Uncertainty around future BIK liabilities (may impact buy-in by employees)</p> <p>Limited offering on OGP</p>
Opportunities	Threats
<p>Staff utilise time at public chargers for paperwork and planning</p> <p>Align to PV installations- additional savings</p> <p>Targeted distribution based on telematics to maximise carbon and monetary savings</p> <p>Electricity grid moving to 70% renewables by 2030 - less carbon</p> <p>Reinforces IFI environmental culture</p> <p>Synergies with other agencies - sharing chargers</p> <p>More efficient use of transport being based at home</p> <p>Evolving battery technology - improved ranges and reduced cost of replacement</p> <p>Strategic location of EV charging points may influence property strategy</p> <p>More models coming to the market</p> <p>Training for EV driving (IFI Webinars – significant positive feedback to date)</p> <p>Planned improved fast charging network</p> <p>Branding – improving IFI image and promotion of Green philosophy.</p> <p>Reduced KMs travelled</p>	<p>Range Anxiety</p> <p>Change in driving for staff - automatic and charging while driving</p> <p>Mismatch between charging capacities of cars and chargers installed - AC v DC charging</p> <p>Baking in inefficiencies</p> <p>Staff not wanting to have home charger installed at their homes</p> <p>Lead times and availability</p> <p>Raw material constraints including ESG concerns</p> <p>Emissions from original production</p> <p>Ranges may diminish in wintertime</p> <p>Early adopter – wrong technology</p> <p>Stranded assets (obsolescence)</p> <p>Economic uncertainty supply chain issues</p> <p>Impacts on car manufacturing due to materials and supply chain disruptions</p> <p>Government policy and associated uncertainty</p>

Long Term Goals: IFI's 2030 & 2050 Target

IFI's Climate Action Mandate indicators include the collective target to reduce CO₂eq. (Carbon Dioxide equivalent) by 51% and improve organizational energy efficiency by 50% by 2030 (with a view to achieving carbon neutrality by 2050).

IFI fuel transport baseline figure is 1,099,053.6kgCO₂.

To achieve the 2030 target, it must be reduced to 538,536.3 kgCO₂.

Achieving these targets will also lessen IFI's overall environmental impact in keeping with the IFI Environmental Policy & Charter.

Yearly Objectives, Actions Completed & Planned

2019

- Feasibility assessment completed into the viability of EV procurement and development of an internal charging infrastructure at IFI bases and at employee homes.
- Purchase of first six electric vehicles (cars) completed.
- Six domestic electric charge points installed.
- Seven commercial dual charging electric charge points installed.

2020

- Purchase of first five electric vans completed.

2021

- Order placed for twenty electric SUV vehicles & twelve electric commercial vans.
- One dual charger and one single charger installed.

2022

- IFI added 26 EV charging points to our network in 2022 bringing us to a total of 33 locations nationally. Our network includes Dual 22kw, Single 22kw, and Single 7kw charger types.
- 184% is the percentage increase of Electric Vehicle mileage from 2021 to 2022 and represents an increase of 232,632 Electric kilometres in 2022.
- Forty electric vehicles integrated into fleet representing 22% of total working fleet by year end.
- 13 locations with PV integration for car charging points.
- Driver feedback element to telematics systems introduced. Allowing individual drivers to review their driving style and change behaviour to become a greener driver.
- 2 staff webinars completed promoting EV driving and addressing concerns. Existing EV drivers shared their experiences good and bad with all staff, an engaging Q&A session followed.

- In 2022, accumulative saving of 36,860 litres of fuel has been achieved. This saving equates to a 10% reduction in fossil fuel use in 2022 below 2021 levels and approximately 20% reduction from IFI's 2016/18 baseline.
- IFI reviewed alternative vehicles than on offer on the OGP

2023 – 2030

- Leading by example with ambition as required in the Climate Action Plan.
- Annual capital expenditure commitment of €550,000 to secure over 80% of fleet operating electrically by 2030.
- Introduction of advanced eco driving training for staff.
- Rationalisation of the fleet, reduce single occupancy journeys.
- Workplace travel planning and behavioural change, utilising the office hybrid working model.
- Empowerment of IFI staff and enabling responsive management through real-time data including live dashboards, telematics, and monthly summary reporting.
- Continual review of EV charging points and technologies ensuring optimal facilities for IFI staff vehicles.
- Collaborate to explore opportunities to share facilities with other state bodies, supporting cross-cutting decarbonisation.
- Promote the use of bicycles (including push bikes, electric bikes, and cargo bikes) and shared mobility options as an alternative to car use among employees and visitors.
- Phase out the use of parking in buildings that have access to a range of public transport services and active/shared mobility options for the majority of staff/visitors while providing that sufficient accessible parking is maintained for those with physical mobility issues.
- Strategy to be reviewed and updated annually to achieve 2050 targets to reflect up to date policy and technical progress.
- Continued alignment with the SEAI and the OPW campaign, Reduce Your Use. This campaign is focussing on driving behavioural change and implementing a range of measures to lower energy consumption and costs in the public sector.
- Complete the EV Charging Strategy for IFI staff.
- Reducing single passenger/low number journeys

ENERGY FLEET

33

IFI added **26 EV charging points** to our network in 2022 bringing us to a total of **33 locations** nationally. Our network includes Dual 22kw, Single 22kw, and Single 7kw charger types.

This is the percentage increase of Electric Vehicle mileage from 2021 to 2022 and represents an increase of **126,197 Electric kilometers** in 2022.

184%

32

IFI purchased **32 Electric vehicles** to our fleet in 2022. This consists of 20 Kia E-Niro's and 12 Peugeot E-Expert's.

IFI held two internal **EV focused webinars in 2022**. These lunch-and-learn style webinars discussed topics such as EV charging etiquette, range anxiety, the expanding fleet, public and internal charging points, fuel card usage, and allowed the IFI team ask our EV drivers any questions they may have.

IFI added **Driver Score** as an element of our telematics system. Staff are empowered to check their scores in a trend graphic to help improve driving behaviour and reduce carbon footprint

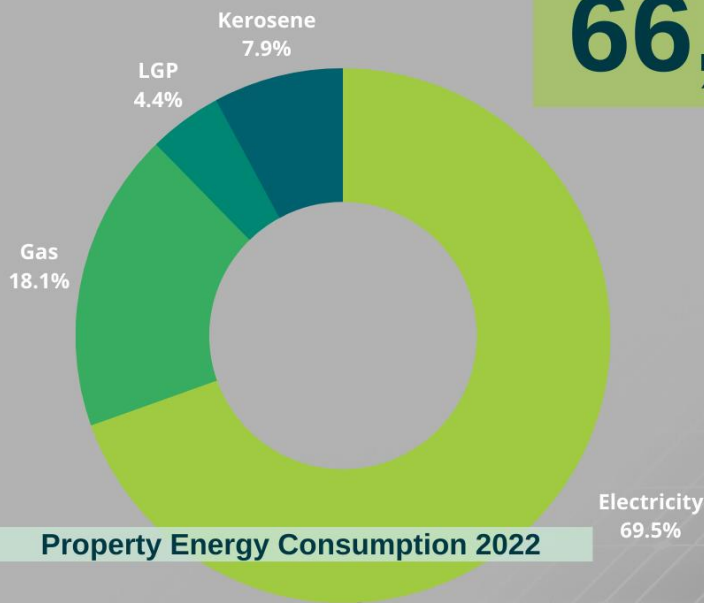
336,872 km

336,872km is the total mileage travelled by the electric vehicles in the IFI fleet in 2022.

In **2022**, accumulative saving of **36,860 litres** of fuel has been achieved. This saving equates to a **10% reduction** in fossil fuel use in 2022 below 2021 levels and approximately **20% reduction** from IFI's 2016/18 baseline.

Importantly, fuel consumption was recorded **below 2021 levels** from March onwards in 2022. This is as result of the continuing positive impact of additional electric vehicles in the IFI fleet and ongoing training.

ENERGY PROPERTIES



66,746 kgCO₂

IFI made a total savings of **66,746kgCO₂ in 2022**. This equates to a saving of **€11,731**.

The introduction of EV chargers at IFI bases accounted for **28,568kWh** of IFI's electricity usage in 2022. IFI experienced a **59% increase** in the **cost of electricity in 2022**, the 2021 increase was 1% on 2020.

IFI completed **9 Energy Focused projects in 2022**. 7 of these projects were **PV system installs** the remaining 2 projects were **building improvements**. We are also upgrading our BMS in Citywest and Castle House.

9

IFI partnered with **Energy Elephant** to onboard an intelligent energy management system. This platform allowed us to clearly see where the energy blackspots were, sites with old boilers, single-glazed windows and poor insulation, for example. These data have supported several energy upgrade projects contributed to our 2022 savings.

We are constantly reviewing our buildings energy consumption. An example of our agile approach was during Christmas 2022 when we focused on a hibernation of the Citywest office.

Display Energy Certificate
All properties to be **B3** or higher by 2030

IFI Citywest	D1
Clonmel Base	B3
Limerick Base	B1
Macroom Base	C2
Galway Base	C2
Ballina Base	A3
Ballyshannon Base	B2

GREEN TEAM IFI

OUR SUSTAINABILITY | GREEN INITIATIVES

The IFI Green Team network operates on a local and national level. We have a Green Team in each of our River Basin Districts. In addition to this we have a National Green Team that meet each quarter. We have a total of 45 members within our Green Team both locally and nationally. Our Green Teams are key to IFI making the necessary collective positive changes to reach our sustainability and energy reduction goals.

IFI took part in the **Sustainable Development Goals Week** in 2022. We created a social media campaign and shared an internal newsletter to publicise some of our sustainability work



The **Reduce Your Use** energy efficiency campaign was launched in IFI in November 2022. Our resource of Energy Elephant greatly assisted with this campaign



IFI is collaborating with BIM and other partners on a innovative net recycling pilot programme. The next step in this circular economy project is the provision of stripped net for recycling.



We created short spotlight documents to enhance staff engagement and highlight some of the great sustainability work happening across IFI



We distributed our eco-driving poster outlining simple tips and tricks on how to drive in a safer, more economical way.



Tips for Eco-Driving

- Accelerate gently and smoothly
- Hold the road wheel at 9 o'clock where possible
- Avoid idling
- Keep tyres at correct pressure
- Don't coast in traffic or avoid queues
- Drive easy and lightly
- Use most efficient gear
- Only use A/C when needed
- Remove unnecessary weight from vehicle
- Plan production: Make efficient driving for less idling

AND REMEMBER – Slowing down saves lives. Carbon & Co. reducing your speed from 120km/hr to 100km/hr can reduce fuel consumption by ~20% on average!

Inisreach Inisheem Inland Fisheries Ireland Brought to you by the **Green Team**

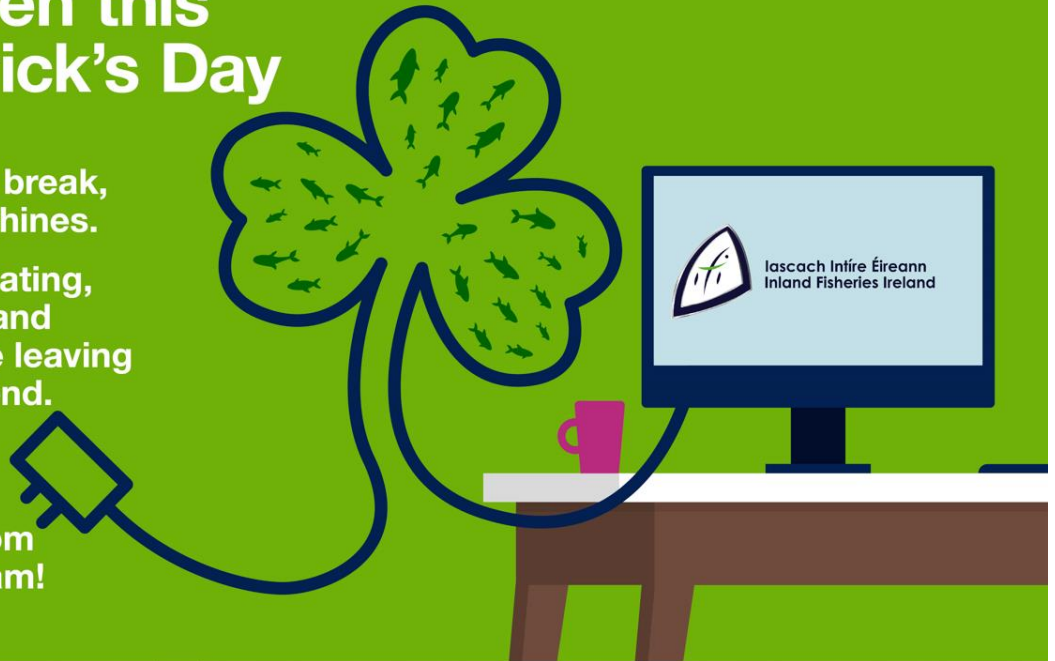
St. Patricks Day 2023 Flyer

Go Green this St. Patrick's Day

We all need a break,
even our machines.

So turn off heating,
power down and
unplug before leaving
for the weekend.

Thank You from
the Green Team!



Tips for Eco-Driving



AND REMEMBER – slowing down saves lives, carbon & €s
(reducing your speed from 120km/hr to 100km/hr can reduce fuel consumption by ~25% on average!)



Iascach Iníre Éireann
Inland Fisheries Ireland

Brought to you by the
Green Team

Long weekend and holiday reminder to switch off.

Easter Break- Achievement & Switch Off (Properties)



Thomas McGrory

To All IFI Staff

Hi All,

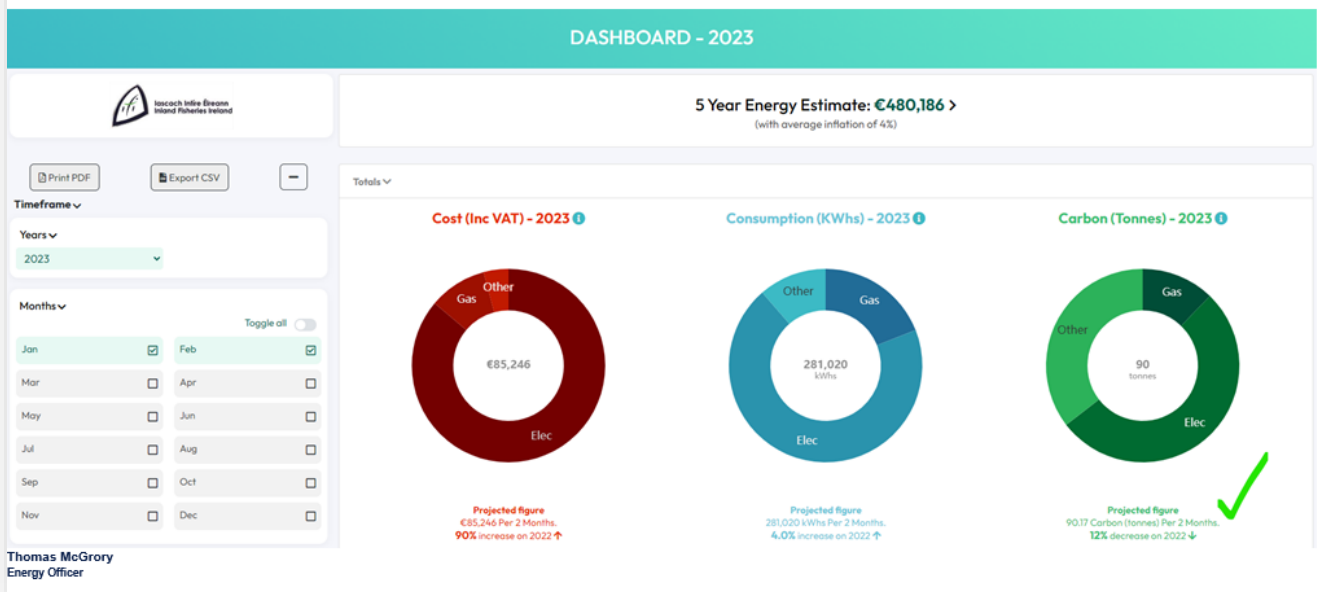
A quick update on how you did on carbon savings in properties for January & February 2023 in comparison to the same dates last year..

The below data is based on LPG, Kerosene & Electricity usage (including onsite ev charging), you achieved a 12% decrease in Carbon 👍👍

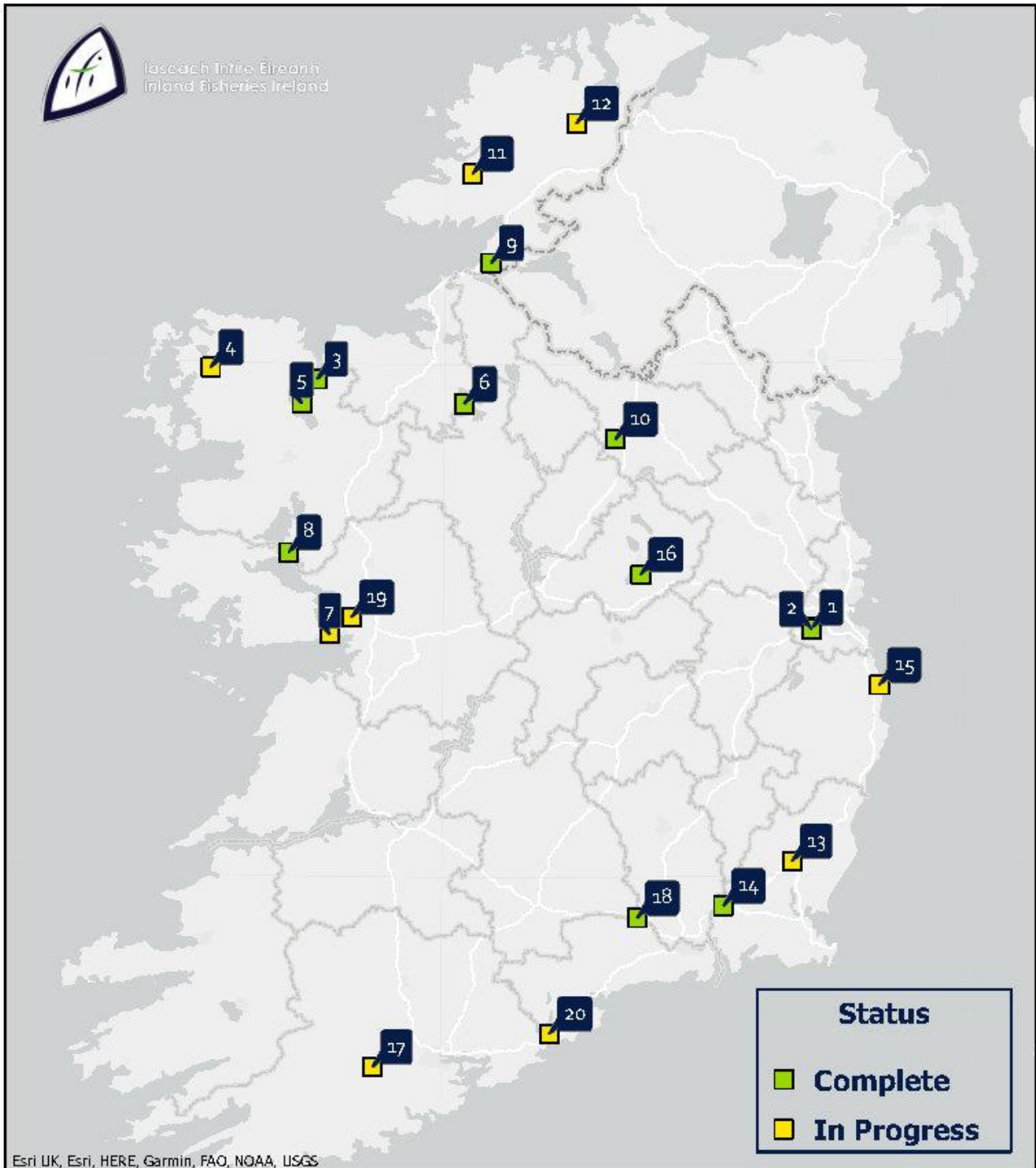
With the long weekend upon us, can I ask you to power down, switch off heating or reduce the thermostat settings before leaving the office....

Once again! Thank you for the national efforts that are being made to help reduce our carbon footprint.

Have a lovely well deserved Easter Break 🍷



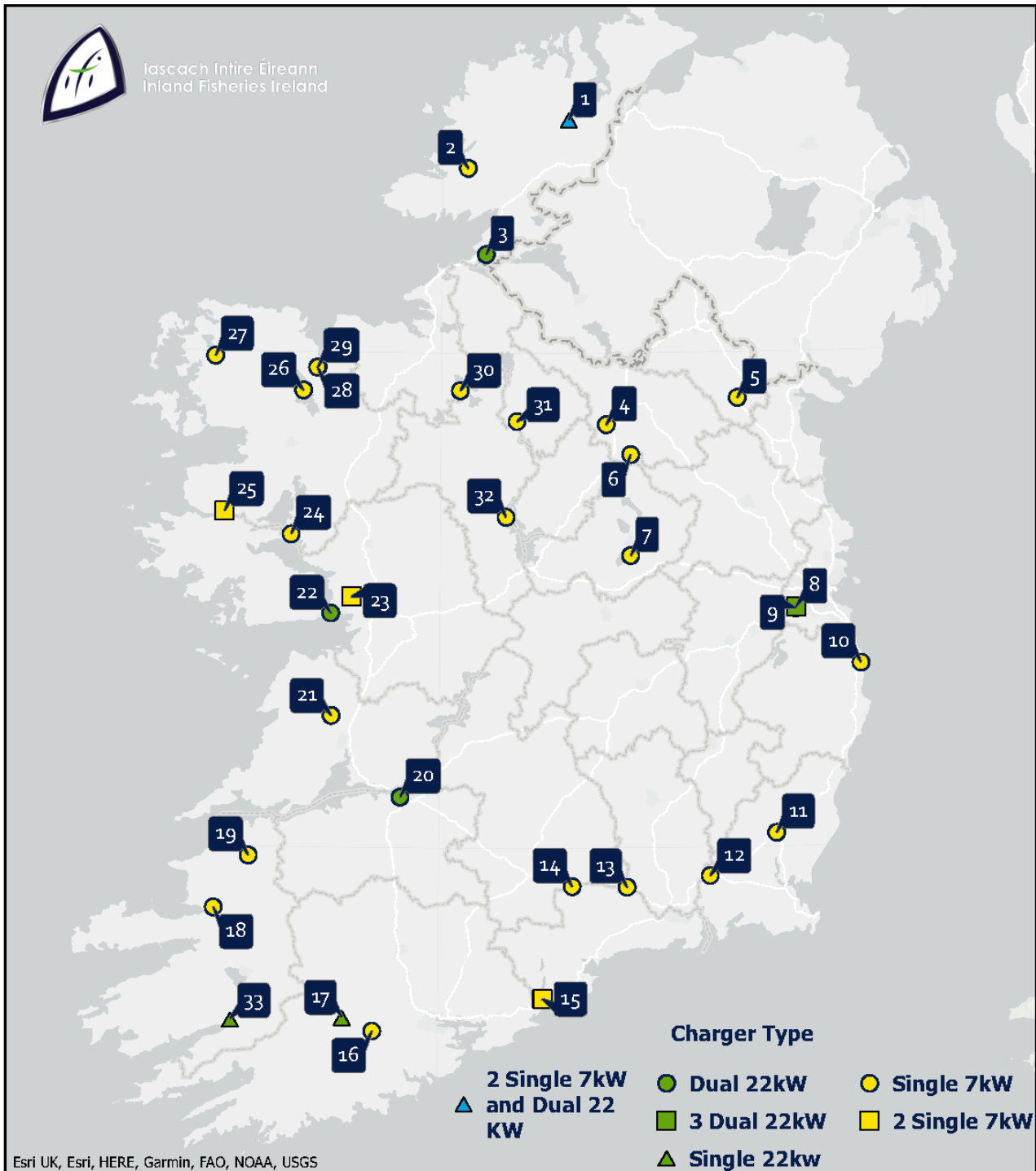
IFI Solar PV Network



IFI PV Installs

- | | | | |
|--|--------------------------|--------------------|------------------------------|
| 1 HQ CITYWEST | 6 Lough Arrow Base | 11 Glenties | 17 Farnanes Fishery Centre |
| 2 National Logistics & Research Centre | 7 IFI GALWAY | 12 Letterkenny | 18 Carrick On Suir |
| 3 IFI BALLINA | 8 Cong Salmon Hatchery | 13 Enniscoorthy | 19 Claregalway Base |
| 4 Bangor Base | 9 IFI BALLYSHANNON | 14 New Ross | 20 Millennium Park |
| 5 Lough Conn Base | 10 Cavan | 15 Kilcoole | |
| | | 16 Tudenham Base | |

IFI EV Charging Network



IFI EV Charge Points

- | | | | | |
|---------------------------|--|--------------------------------|-----------------------------|---------------------------|
| ▲ 1 Letterkenny | ■ 8 HQ CITYWEST | ■ 15 Millennium Park | ● 22 IFI GALWAY | ● 28 Moy Fishery Office |
| ● 2 Glenties | ● 9 National Logistics & Research Centre | ● 16 Farnanes Fishery Centre | ■ 23 Claregalway Base | ● 29 IFI BALLINA |
| ● 3 IFI BALLYSHANNON | ● 10 Killoole | ▲ 17 IFI MACROOM | ● 24 Cong Salmon Hatchery | ● 30 Lough Arrow Base |
| ● 4 Cavan | ● 11 Enniscorthy | ● 18 Tralee Store | ■ 25 Aasleagh Lodge | ● 31 Drumsna Store |
| ● 5 Creevy Base | ● 12 New Ross | ● 19 Listowel Store | ● 26 Lough Conn Base | ● 32 Ballymurray Store |
| ● 6 Lough Sheelin Store | ● 13 Carrick On Suir | ● 20 IFI LIMERICK | ● 27 Bangor Base | ▲ 33 Kenmare |
| ● 7 Tudenham Base | ● 14 IFI CLONMEL | ● 21 Clare Store | | |

Inland Fisheries Ireland's NET ZERO ROADMAP

Baseline data and the journey to 2030 and 2050

Problem solving starts with problem identification. In 2009, IFI emitted 2.4 million kg of greenhouse gas (CO₂e). Evidence-based monitoring and reporting is in place through SEAI's M&R system for each year since then.

'Business as usual' is not an option as we face the climate and biodiversity emergency.

IFI has developed a suite of measures and data collection and analysis systems with a primary focus on the sustainable delivery of our legislative remit (sustainable management of the national fisheries resource).

EMISSIONS DATA

2019 - 1.5 M kg CO₂e

2030 - 0.87 M kg CO₂e

2050 - 0 M kg CO₂e

Delivering 'Deeper' Energy Savings

IFI has been working since 2017 on consolidation of its Environmental Management Systems (EMS) to help minimise the impact on the environment resulting from IFI activities and facilities. IFI has ambition to align with international standard ISO14001 (Environmental Management System) and International Standards Organisation (ISO) 50001 energy management standard over the period of its current climate action framework and mandate. IFI's Climate Action Mandate (2021 onwards) will set out IFI's approach to reducing the environmental impact of its activities through ongoing development of IFI's Environmental Management System (EMS) activities in order to deliver:



- Improved energy efficiency through energy auditing and subsequent action.
- Reduced generation and improved management of wastes, emissions, effluents.
- Conservation of natural resources.
- Efficient sustainable agency operation with associated cost savings.
- Environmental / climate action initiatives that are aligned with the legislative remit and strategic aims of IFI.

IFI practices the following 5 basic structured energy management steps:

Commit: IFI signed up to a partnership agreement with SEAI in 2017. IFI have appointed a key senior manager in IFI (Pat Doherty – Head of Finance and Energy Performance Officer) to provide leadership and accountability in the area of energy management IFI has allocated significant resourcing (empowered IFI staff to act via programme management restructuring and the formation of a national Green Teams network in addition to appointment of local energy champions) and has chosen appropriate pathways to energy transition management / certification.

Identify: work to identify actions and projects based on IFI energy performance data

Plan: IFI has availed of strategic planning assistance through IFI's partnership agreement with SEAI and is building energy management capacity through integration of facilities management, finance and human resource functions in IFI's energy management planning. IFI sets annual energy saving goals.

Take Action: IFI has shown significant ambition and intent through positive action and project implementation. IFI has availed of project design, development and supervision support and has committed significant time and resources to a suite of energy related projects from design through to implementation and monitoring.

Review: IFI is thoroughly committed to an evidence-based energy management programme. IFI is measuring energy improvement results using in-house digital systems in addition to the SEAI's energy portal monthly returns. Regular review is undertaken with a view to continually improving IFI's energy performance.

Achieving our Goals

KEY MILESTONES

- Fleet Decarbonisation.
- Property Energy Upgrade Delivery
- Progressive Water / Wastewater / Waste Reduction
- Progressive stakeholder engagement levels (measured by staff surveys, project activity etc.)
- Development of full Circular Economy Programme

By 2050 IFI will be
**CARBON
NEUTRAL**

2009

2020

2030

2050

February 2022

greenteam@fisheriesireland.ie

IFI GREEN TEAMS

SPOTLIGHT ON GREEN TEAM INITIATIVES IN THE NWRBD



WHAT'S INSIDE:

Charging into 2022

**Ballyshannon Base
Extension**

**Biodiversity and
Climate Action**

Going Green

CHARGING INTO 2022 ENERGY SAVING INITIATIVES IN IFI

The offices at IFI-Ballyshannon achieved a BER rating of B2 in July following a series of energy saving initiatives undertaken over recent years (insulation, external cladding and windows replacement). – This is **the first IFI base nationally to achieve a B rating** which is the target for all public offices. A massive achievement for all in NWRBD after years of hard work, much of it overseen by **Gerry McCafferty** (Inspector).

Some of these energy saving initiatives include:

- Installation of **rainwater harvesting** facilities for washing of RIB's
- Installation of a **new master fuse board** and three phase electricity connection to enable onsite charging for electric vehicles.
- Replacement of old electric storage heaters with **new energy efficient units**. (2x 1000watt and 1x 1500watt)
- Installation of an **energy efficient dehumidifier unit**. (Additional units also installed at IFI Thorn Road and Corlismore bases).
- **Two new e-car charging points** have been installed and commissioned.

IFI Ballyshannon is also set to be the next site for a **32 photovoltaic solar panel system**. The roof of the newly fitted boathouse will be the site in question, with planning permission already submitted we look forward to this addition in 2022.

The team in IFI Ballyshannon are not stopping there, with sights firmly set on 2022 the team have provisions made for **six additional e-vehicle charging points**, future proofing the base for anticipated additional e-car use in the coming years.



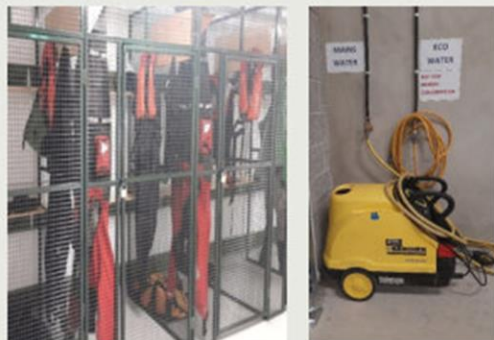
New IFI Corporate sign and planning application notice for PV installation

BALLYSHANNON BASE EXTENSION

STORAGE, WATER HARVESTING, AND ENERGY SAVING



The new **DELTA RIB Boat storage extension** at IFI- Ballyshannon is now complete. This new development has provided the basis for a number of associated energy saving initiatives which are now in place or nearing completion including a rainwater harvesting and mains water outlets for power washing of RIBs and a new designated cage units for storage of drysuits, lifejackets and other PPE.



ENERGY AUDITS

ENERGY SAVING INITIATIVES IN IFI

Energy audits were carried out by **Tom McGrory** at both the **IFI- Glenties and Letterkenny** (Thorn Road) bases and full reports completed.

Major works must be undertaken at the Thorn Road base to **reduce heat loss** and **reduce our carbon footprint**. Works include retrofitting of the office block with 50mm insulation, installation of PVC double glazed internal windows, a new insulated roller door, a new pedestrian door at entrance to building and installation of new Grant Vortex condensing boiler with new double radiators. We have received one quote for works to date and are awaiting on more contractors to price the works

Many thanks to **Tom McGrory and the team** in Letterkenny for their support to date.



IFI CORLISMORE

The last of the **Insulated roller doors** was installed to the outside stores building to **improve security, weather proofing and energy rating of the building**.



ESKE & EANY ANGLING CENTRES

Alan Mahon and the team in **Ballyshannon** have completed the installation of additional roof insulation to both Eske & Eany Angling Centres as well as the outside offices at IFI Ballyshannon.



BIODIVERSITY AND CLIMATE ACTION

AT GLENTIES ANGLING CENTRE



Biodiversity area at Glenties Angling Centre

A new designated **Biodiversity Area** is being developed on the grounds of Glenties Angling Centre on the banks of the Owenea River to highlight and promote the **benefits of sustainable and biodiverse riparian habitats**.

Local development staff, **Raymond Brennan, Paul Burke, and Cornelius McMullan** commenced clearance and creation of a **short looped walk** around the area through existing mixed broad leaf (birch and willow scrub) and coniferous woods.

Wooden seating has been installed and plans to **level and extend paths** will be implemented over time.

Glenties Angling centre is now home to a **bee habitat** frame. This habitat was installed in the biodiversity area.



Bee Habitat at Glenties Angling Centre



Felling of **22 dangerous non-native trees** was completed on the 18th October at Glenties Angling Center. These trees will be replaced with planting of young **native broad leaf specimens** (e.g. oak and birch) which will be set back from the angling center along the Owenea River.

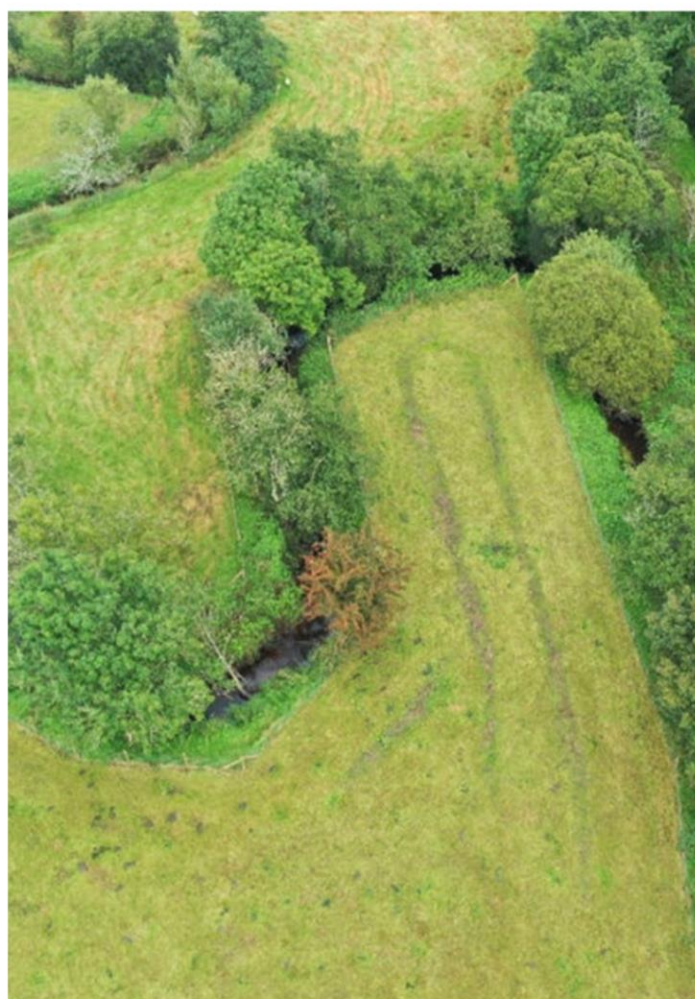
The contractor appointed for the removal of trees at the Glenties Angling Centre came on site on the 18th of October and had works completed by 22nd. The contractor returned in early November to **create biodiversity piles from leftover branches and ivy**.



Restoring native plant habitat is **vital to preserving biodiversity**. By creating a native plant garden, each patch of habitat becomes part of a collective effort to nurture and sustain the living landscape for birds and other animals. **Planting new native forests offer many benefits to our waterways**. These forests will minimise soil erosion, reducing the run off of sediment such as silt into our waterways. They absorb and store polluting chemicals. As these trees grow they shade and cool the river itself. They capture the rainwater in the trees canopy and reduce and slow down flood flow into rivers.

GOING GREEN

WORKS UNDERTAKEN THROUGH THE CATCHMENT CARE PROGRAMME LISA DOYLE (CATCHMENT OFFICER- ARNEY R.)



Roa Blacklion Co Cavan post-works (drone image)



Arney R - pre and post (installed riparian fencing) works



Buffer zone and fencing installed along the R. Arney Co. Fermanagh



Rainwater harvesting installed at Blacklion Co Cavan

WIN €100 ONE4ALL

IFI Green Team initiatives are designed with all of IFI in mind, readily adapted to local sites and most importantly, complimentary to the work we do everyday. We are always looking for new members and of course, new ideas. We would love to hear from you and your ideas for our green initiatives. Take our survey and be entered into a draw to win a €100 one4all voucher

[CLICK HERE TO TAKE OUR SURVEY AND BE IN WITH A CHANCE TO WIN](#)



IFI NATIONAL GREEN TEAM

GREEN TEAM TERMS OF REFERENCE

Group Established 22/08/2019

Name of Group: IFI National Green Team

Document Title: IFI National Green Team - Terms of Reference (22/08/2019)

Purpose/role of group:

To collectively develop ideas and initiatives aimed at addressing the climate and biodiversity emergency and at enhancing sustainability in IFI through local actions

Group established on 22/05/2019 by IFI staff

What are the aims / responsibilities of the group:

Membership:

Membership of the group open to IFI local green team member

No restrictions on numbers

It is possible for representatives from other organisations to be included where appropriate.

Period of membership is open ended

Accountability:

Collective responsibility of the group. Ad hoc reporting may be required on occasion where individual group members will be responsible for reporting back on activities of the group – TBC depending on issue.

Review:

How often will the group review the relevance and value of it works in the terms of reference?

ANNUALLY

Working methods:

Normal collective IFI committee working methods

Sub groups can be convened where necessary.

GREEN TEAMS TOR

Meetings:

Normally 4 meetings will be held each year - to be held centrally or remote via conference call when practical

Energy Performance Officer to organise and chair the meetings

Agenda topics to be generated in an open and collective manner

Meeting papers to be circulated via email and Sharepoint following each meeting/

Meeting format - generally small group discussions

Non-members can be invited to meeting when necessary and appropriate

IFI National Green Team member to be nominated as secretariat for the group

Sharing of information and resources: (including confidential material)

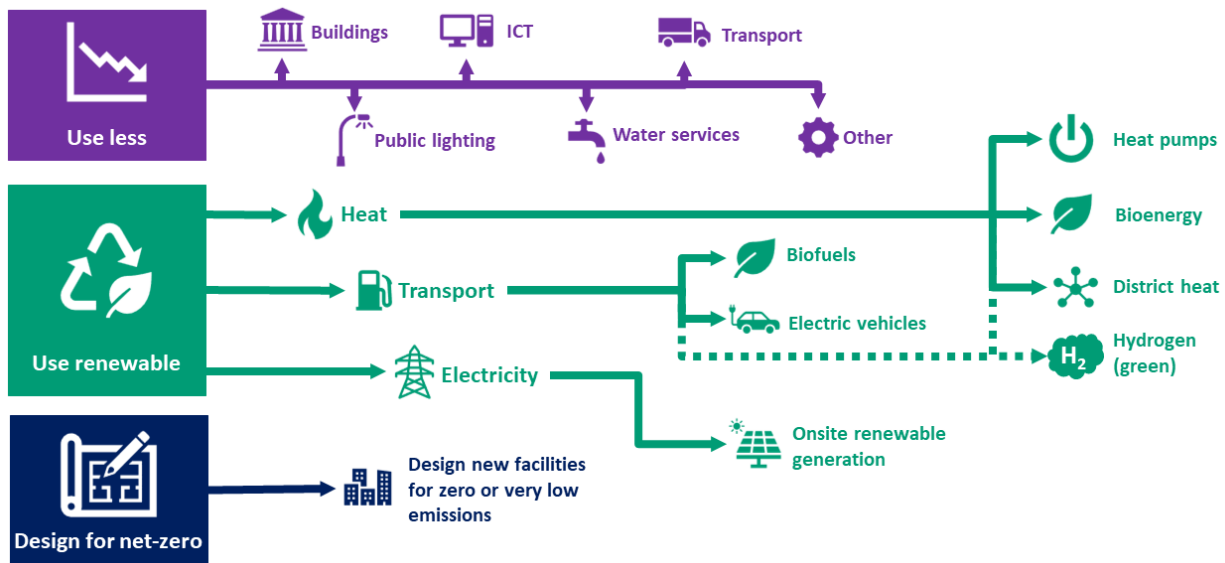
Group members share information and resources via IFI Climate Action Sharepoint portal

Confidential materials and copyright issues to be identified and dealt with according to normal IFI procedures.

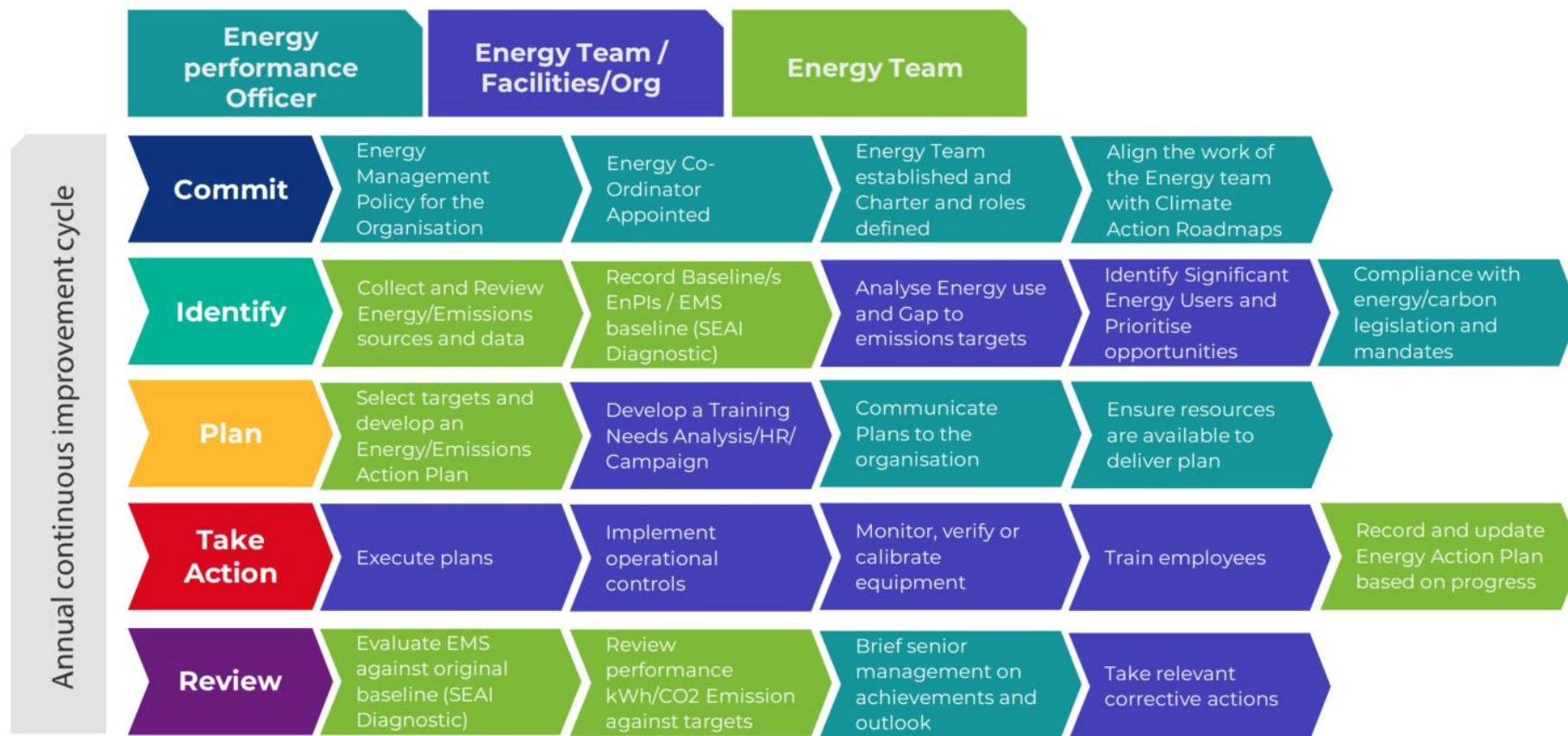
Definition of terms

TBC

Pathways to Decarbonisation



IFI Energy Management Action Plan Summary 2024



ENDS