



Decarbonisation Roadmap

Foreword

For anyone in the travel industry, a conversation about climate change is never going to be an easy one.



As a small Island, Jersey is highly dependent on transporting freight and passengers through the Harbour and Airport. The connectivity is essential for the way that we live our lives, but the economic and social benefits of our connectivity cannot be at the expense of our environmental responsibilities. Climate change, along with biodiversity loss and social inequality, are the most important battles of our time, and every airport and harbour has a hugely important role to play. We take our role very seriously and it is a challenge that we are meeting head-on.

In 2022, we launched Ports' Planet and People Plan, setting out our priorities for sustainability, aligning to the UN Sustainable Development Goals and Jersey's Carbon Neutral Roadmap. Our plan focused around four key areas:

- climate change
- biodiversity
- waste and circularity
- people and community.

Two years on, our commitment and drive to develop a sustainable future for our Island is still just as strong. I am delighted that Jersey Airport has been awarded Level 3 ACI Airport Carbon Accreditation. This recognises our clear plan to reduce operational carbon emissions to net zero by 2030, through a host of improvements and innovations, as well as our plan to support our business partners decarbonise their operations.

This is the first in a series of roadmaps to outline our action plan to reach our goals in each of the

four areas. It will take us to 2030 and beyond, to support us in becoming one of the first net zero airports in Europe, outlining our plans to reduce the emissions under our direct control, and to support our stakeholders, passengers and business partners to decarbonise our indirect emissions.

Our commitments are ambitious, and rightly so. We understand the key to our success will be the partnerships we build and the innovative collaboration we can inspire. Together with our community, Government, business, industry, our employees and our partners, we can make the greatest difference.

I could not be more excited by the challenges and opportunities for sustainable innovation that lie ahead. Although we have a long way to go on our journey, I know that we will deliver on our net zero ambitions and make our Island proud.

Matt Thomas

Chief Executive Officer, Ports of Jersey
May 2024

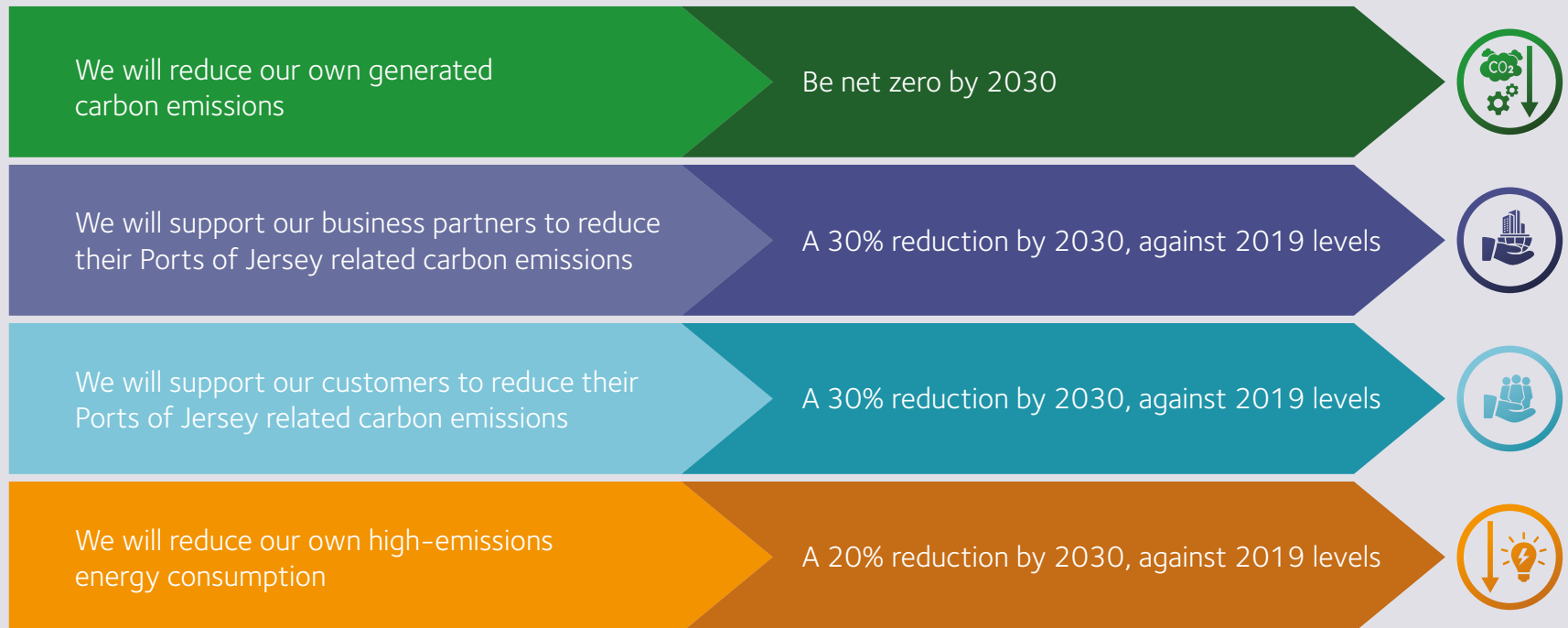
Net zero goals and targets

In our Ports Planet and People Plan, published in 2022, we set out targets across the four pillars: climate, biodiversity, waste and circularity and people.

We set out four key targets for decarbonisation:

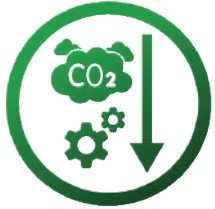
Climate

We will transition to net zero



Since 2022, our strategy has grown and developed, alongside our expertise and understanding as an organisation.

In order to reach our 2030 targets, we have set the following KPIs to keep us on track and ensure delivery:



Reducing our operational emissions:

- 90% of Ports of Jersey owned oil boilers will be converted to electric or Hydrotreated Vegetable Oil (HVO) fuel by the end of 2025
- 100% new Ports of Jersey vehicles will either be electric, hybrid or run off HVO from 2025
- 50% of all Ports of Jersey diesel vehicles will be running on HVO by the end of 2025



Supporting our business partners:

- By the end of 2025, we will have installed sufficient infrastructure across our estate to support our business partners to decarbonise ground operations



Supporting our customers:

- 60% of our passengers will travel to our terminals via sustainable transport modes by 2030
- Electric vehicle charging available at both of our terminals by 2027
- Three new bike racks installed across our estate for employees and passengers to use by the end of 2024



Reducing our energy consumption:

- 100% of terminal lighting will be LED by the end of 2025
- 100% of electricity metering converted to SMART meters by the end of 2026
- 100% of runway lighting converted to LED by 2035

Our decarbonisation journey so far

2021

- work underway to create our sustainability strategy
- commence balancing annual Scope 1 and 2 emissions with Durrell Rewild Carbon
- launch of Ports CarbonPass app to allow passengers to balance their off-Island travel emissions with Durrell Rewild Carbon
- Ports of Jersey became a member of Jersey's Eco Active Business Network
- Ports of Jersey joined 200 airports across Europe in signing the Toulouse Declaration to support European aviation's goal to reach net zero by 2050

2022

- Jersey's Carbon Neutral Roadmap approved by the States Assembly, committing Ports of Jersey to work with Government to reduce aviation and marine transport emissions in line with the JetZero targets and MARPOL treaty
- launch of Ports' Planet and People Plan and 2019 baseline of emissions
- beginning of project to replace moorings in St Catherine's bay with seagrass-friendly alternatives
- Jersey Airport awarded ACI Level 1 Airport Carbon Accreditation to Jersey Airport
- Ports of Jersey Circular Design Practice policy implemented
- Ports of Jersey becomes the local project partner in the Agile Integrated Airspace System programme (ALIAS) to trail decarbonised, autonomous aircraft in Jersey
- letter of intent signed with Universal Hydrogen and Blue Islands to support the trial the use of green hydrogen as an alternative, fully decarbonised aviation fuel in Jersey

2023

- Ports of Jersey supported the Government of Jersey in publishing a Policy Framework of the Ports sector, with sustainability as one of the eight key priorities
- sustainability incentives included as part of small commercial vessel passenger dues at the harbour
- electric coastguard vehicle and four new operational electric vehicle added to Ports of Jersey's fleet

2024

- Jersey Airport awarded ACI Level 3 Airport Carbon Accreditation
- Auxiliary Power Unit usage regulations included in Aerodrome Aeronautical Information Publication



Our alignment to net zero by 2030

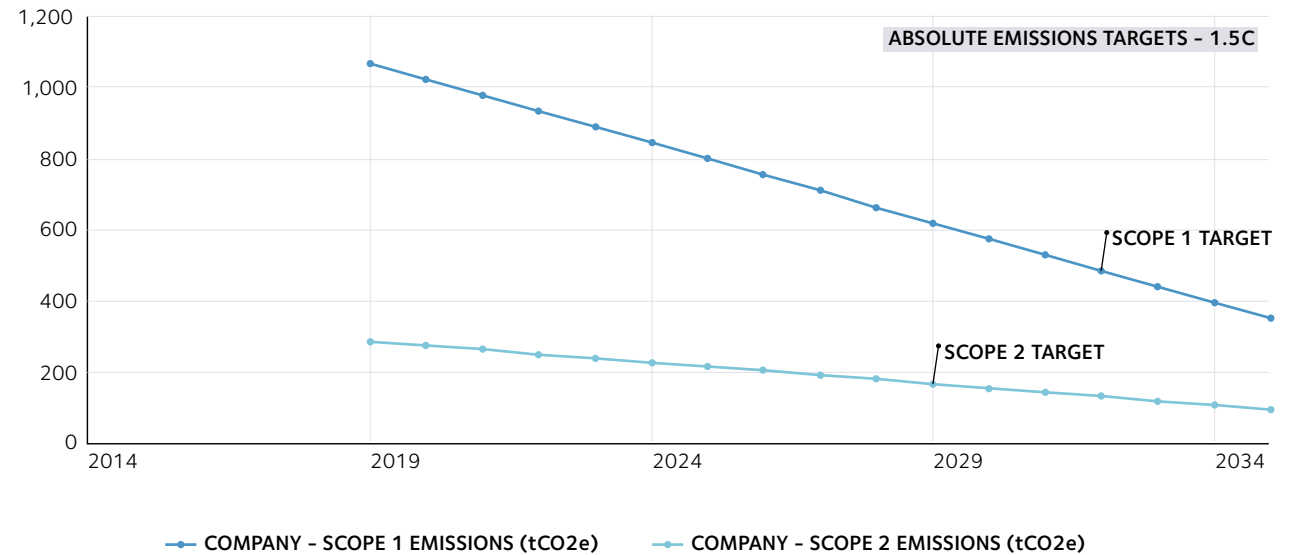
(in line with the Science Based Targets initiative)

As of the end of 2023, we must reduce our operational emissions by 42% to be net zero by 2030. This will be achieved through decarbonising our heating and vehicle fuel, as Jersey already uses imported low-carbon electricity from France.



1.5 DEGREE SCENARIO

	BASE YEAR (2019)	MOST RECENT YEAR (2023)	TARGET YEAR (2029)	% REDUCTION TO DATE	% FLA ADJUSTMENT	% SBT REDUCTION
SCOPE 1 EMISSIONS (tCO2e)	1,067	1,073	619	---	N/A	42.0
SCOPE 2 EMISSIONS (tCO2e)	285	231	165	19.0	N/A	42.0
SCOPE 1+2 EMISSIONS (tCO2e)	1,352	1,304	784	3.6	0.0	42.0



Ports of Jersey uses the Greenhouse Gas Protocol and Defra guidelines to calculate GHG emissions.

Our footprints are verified biennially by GEP Environmental, to ISO 14063-3:2019 standard.

Although we have a net zero target, our long-term target is absolute zero for our scope 1 and 2 emissions, which we will meet through our redevelopment masterplans, before 2050.

Decarbonising Airport operations – Scope 1 and 2



Desk Information

Page 1

Flight

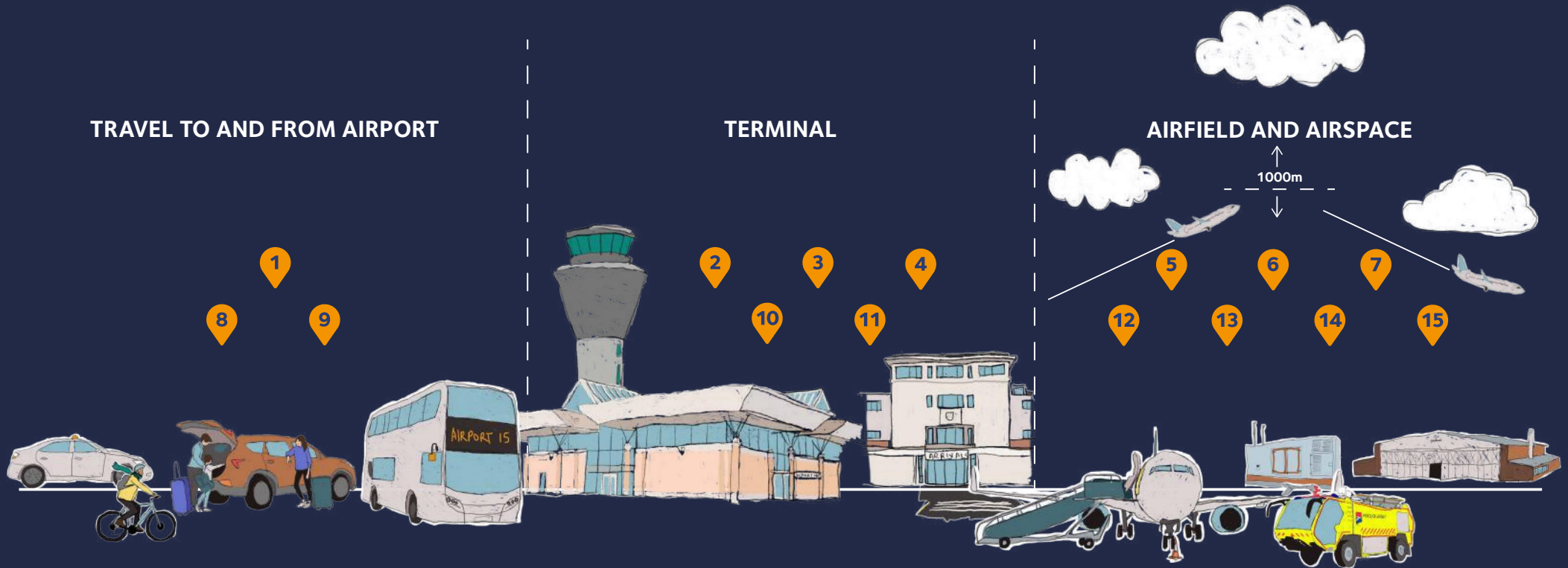
Destination

STD status

SI4419	Guernsey	13:05	Go to Security
LM2370	Birmingham	13:40	Desk open at 12:10
BA1345	Southampton	13:40	Desk open at 12:10
EZY892	London Heathrow	13:50	Desk open at 12:10
EZY7024	London Gatwick		
EZY2312	Liverpool		

We value your feedback
welcome your suggestions
how we can improve
experiences

Jersey Airport Emissions



JERSEY AIRPORT EMISSIONS

TRAVELLING TO & FROM THE AIRPORT

- 1 Colleague business travel

TERMINAL

- 2 Electricity usage
- 3 Heating fuel
- 4 Refrigerant losses

AIRFIELD

- 2 Electricity usage
- 5 Vehicle fuel
- 6 Firefighting activities
- 7 Fuel for power

OUR PARTNER & PASSENGER EMISSIONS

TRAVELLING TO & FROM THE AIRPORT

- 8 Passenger travel
- 9 Colleague commute

TERMINAL

- 2 Electricity use by tenants
- 10 Water management
- 11 Waste management

AIRFIELD

- 12 Aircraft landing & take off
- 13 Ground support
- 14 De-icing
- 15 Partner hangars

Roadmap



This is our action plan to reach net zero in our Airport operation emissions



Decarbonising Harbour operations – Scope 1 and 2





Jersey Harbour Emissions



TRAVEL TO AND FROM HARBOUR

TERMINAL

HARBOURS AND AT SEA

JERSEY HARBOUR EMISSIONS

TRAVELLING TO & FROM THE HARBOUR

- 1 Colleague business travel

TERMINAL

- 2 Electricity usage
- 3 Heating fuel
- 4 Refrigerant losses

MARITIME ACTIVITY

- 2 Electricity usage
- 5 Vehicle fuel
- 6 PoJ vessel fuel
- 7 Fuel for power

OUR PARTNER & PASSENGER EMISSIONS

TRAVELLING TO & FROM THE HARBOUR

- 8 Passenger travel
- 9 Colleague commute

TERMINAL

- 2 Electricity use by tenants
- 10 Water management
- 11 Waste management

MARITIME ACTIVITY

- 12 Ferry, freight and leisure
- 13 Ground operations
- 14 Bunkering

Roadmap



This is our action plan to reach net zero in our Harbour operation emissions



Supporting our stakeholders to decarbonise – Scope 3





FERRY SPEED

STEVEDORES

KALMAR

P30

2



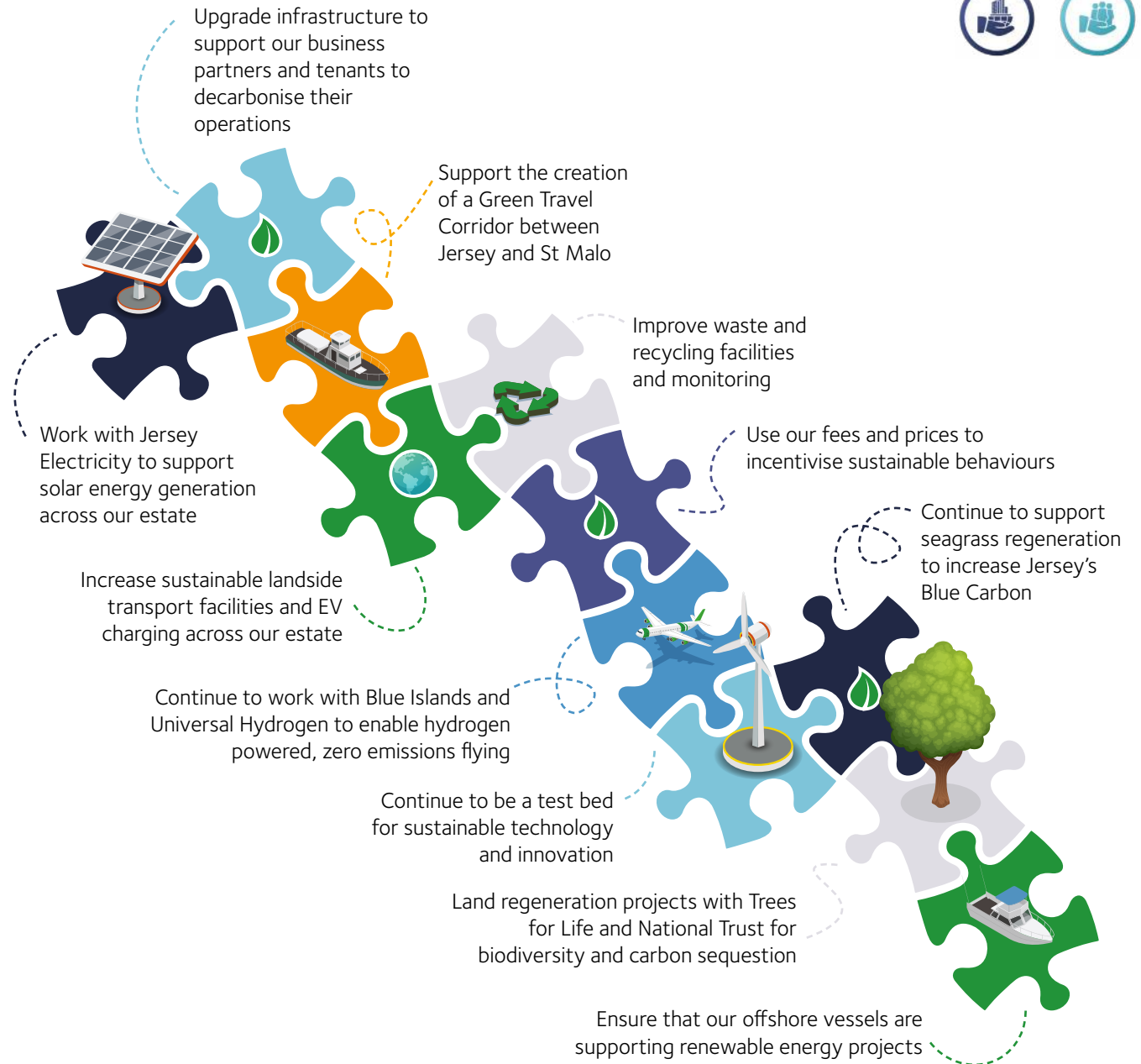
5-11
STORAGE
EXHAUST

7-11
STORAGE
EXHAUST



We understand that we can't achieve our goals alone, and that the key to our success will be the partnerships we build and the collaboration we can inspire.

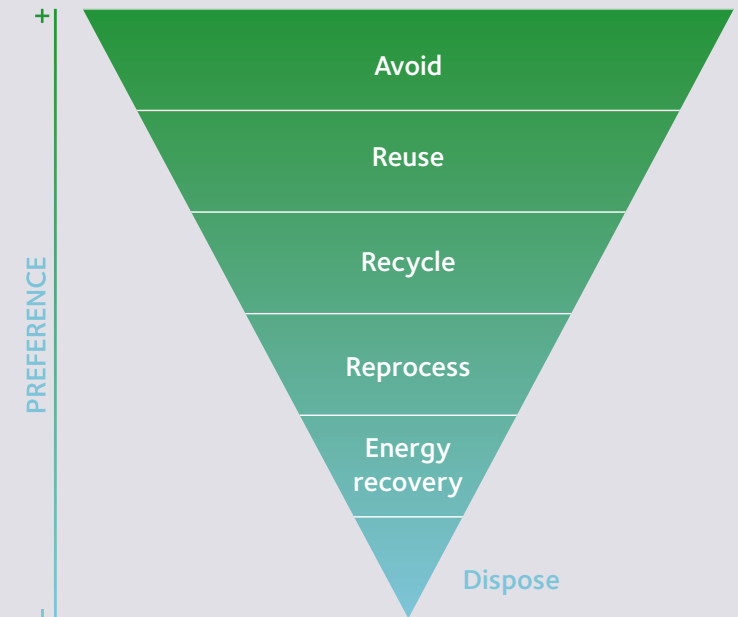
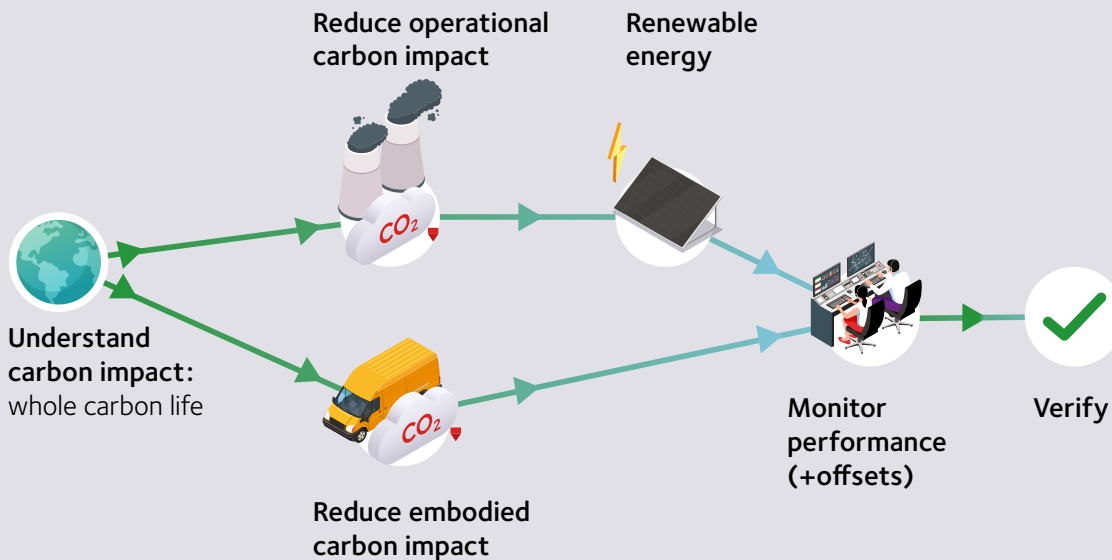
Together with our community, Government, business, industry, and our partners, we can make the greatest difference.



Our redevelopment masterplans



As part of our masterplans to redesign our Airport and Harbour, we will ensure that the construction and design of our buildings are as low-carbon as possible, in line with the following steps:



Our Harbour Masterplan includes provisions to facilitate Onshore Power Supply for future electric vessels and the electrification of future port infrastructure such as cranes.

Both of our masterplan designs will include:

- making our terminals as efficient as possible for energy consumption
- maximising space for renewable energy generation across our estate
- digital solutions such as air quality and pollution monitoring.

Governance and reporting





Policies and Processes

We have implemented the following sustainability policies across Ports of Jersey:

Environmental Policy – an external statement to show our commitment to leading and supporting a long-term sustainable future.

Circular Design Practice Policy – to ensure that our capital and infrastructure projects adhere to circular practices, reducing embodied carbon emissions and resource use.

Auxiliary Power Unit policy – this limits the maximum use of aircraft APU to 30 minutes before departure.

Capital Project prioritisation process – environmental and social sustainability are a key factor in deciding how we prioritise and deliver our capital projects.



ACI Airport Carbon Accreditation Level 3

Jersey Airport has been awarded Level 3 'Optimisation' certification for the Airport Carbon Accreditation.

This award recognises Ports of Jersey's clear plan to reduce operational carbon emissions to net zero by 2030. We achieved Level 1 accreditation, 'Mapping', in 2022. To achieve Level 3, 'Optimisation', Ports of Jersey has built robust carbon management and stakeholder engagement plan, which continue to be successfully implemented.



Eco Ports

We have embarked on becoming an accredited EcoPort. We submitted a self-diagnosis model on 5 April 2022 and have now been benchmarked against other ports to help us progress to the accredited (PERS) stage.

We hope to be fully accredited by the end of 2024.

Roles and responsibilities

In 2023, we undertook a review of our sustainability team to ensure we have the talent, capability and resource to drive delivery.

The following roles support the delivery of our strategy:



Accountability across Ports of Jersey

Our dedicated sustainability team empowers our teams across Ports of Jersey so that sustainability is at the heart of everything we do.

Our people and teams are accountable for the delivery of sustainability projects and decarbonisation in their departments:

- Our leadership and management groups are accountable for tracking and ensuring delivery of all sustainability projects across the organisation.
- Our executive team are each assigned annual sustainability objectives.
- We have a Sustainability and Community Champions Group, to drive behaviour change, feedback on current initiatives and produce innovative ideas for new sustainability projects.

Board level accountability

Our Board are fully engaged and integral to the development of Ports Planet and People Plan. Monthly KPIs are shared to ensure focus and progress with a detail update quarterly. Sustainability is also fully embedded into the Board Committee structure, ensuring a holistic consideration of sustainability across all decision-making forums.

Two of our Board members are experienced and professionally qualified. Our Chief Financial Officer was the previous Director of Sustainability and has a degree in environmental sciences. Also, one of our Non-Executive Directors is a trustee of the John Muir Trust, a conservation charity dedicated to protecting and enhancing wild places across the UK.

Into the future...

Policies and processes

In 2024, we will be creating and actioning the following strategies, plans and governance to drive sustainable practices and decision making across the organisation:

- Biodiversity roadmap
- Waste and circularity roadmap
- Marine Environmental Management System
- Sustainable Procurement Policy
- Supplier Code of Conduct
- A responsible decision-making matrix for our organisation, supporting employees to make strategic business decisions based on their decarbonisation impact.

Reporting

In 2024, we will be improving our sustainability reporting in the following ways:

- Begin the process of aligning our sustainability reporting and disclosures to an international framework
- Improve our climate change risk and adaptation reporting
- Procure a sustainability reporting software to improve our carbon footprint calculation and reporting processes, particularly for Scope 3.

Responsibility and accountability

- By the end of 2024, employee personal development plans will have one objective that will relate to sustainability in their area
- This year, we will be rolling out Carbon Literacy Training. By the end of 2024 each department will have at least one team member that has undertaken Carbon Literacy Training.



Glossary

Net zero

As defined by SBTi, is a reduction of emissions in line with that the science requires for the world to keep global warming to 1.5 degrees Celsius. This level of emission reductions is sometimes called “residual emissions”. Under the Net Zero Standard, most companies are required to reduce emissions by at least 90% to reach net-zero. A company can reach net-zero when it has achieved its long-term science-based target. A company cannot balance/offset its emissions with removals ahead of that and claim to be net-zero.

Absolute zero

Absolute zero goes further than net zero. Under this scenario, no emissions are created by an organisation at all and, as a result, there is no need to balance or remove remaining emissions. This applies to the entire value chain of a company or country; i.e. it must take into account any emissions produced by suppliers or consumers as well.

GHG

Greenhouse Gas Emissions – any of various gaseous compounds (such as carbon dioxide or methane) that absorb infrared radiation, trap heat in the atmosphere, and contribute to the greenhouse effect.



Airport Carbon Accreditation

A global carbon management programme for airports that independently assesses and recognises airports’ efforts to manage and reduce their CO2 emissions.

SBTi

the Science Based Targets initiative (SBTi) is a corporate climate action organisation that develops standards, tools and targets to allow companies to set greenhouse gas (GHG) emissions reductions targets in line with what is needed to keep global heating below catastrophic levels and reach net-zero by 2050 at latest.

HVO

Hydrogenated vegetable oil – also referred to as Second Generation Renewable Diesel. It’s a synthetic diesel that has been made from a feedstock of renewable vegetable oil, animal oil or fat. It is classed as a drop-in alternative to fossil diesel and heating oil, reducing combustion emissions by up to 90%.

Scope 1, 2 and 3 emissions

A way of categorising the different kinds of carbon emissions a company creates in its own operations, and in its wider value chain.

Scope 1 emissions

Covers the emissions that we make directly from our operations — for example, while running our boilers and vehicles.

Scope 2 emissions

These are our electricity emissions, which are being produced on our behalf.

Scope 3 emissions

In this category go all the emissions associated not with Ports of Jersey, but all the emissions that we are indirectly responsible for, up and down our value chain. For example, from buying products from our suppliers, to the emissions of our business partners, airlines and ferry and freight companies operating in Jersey’s waters and airspace. This is our biggest emissions category.



Published: May 2024

