



ENVIRONMENTAL MANAGEMENT PLAN

NAME	DATE	SIGNED
Plan Prepared by		
Operations Manager	8 March 2026	Jarrad Anthony
Plan Reviewed by	Annual Update / Review	
Operations Manager	20 April 2026	Jarrad Anthony

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ENVIRONMENTAL MANAGEMENT PLAN & IMPACT ASSESSMENT

THE COMPANY'S ENVIRONMENTAL AIMS AND OBJECTIVES

As early pioneers in non-invasive whale research, we are recognized today for our decades of marine research, including studies of coral reefs, wild dolphins, toothed whales, and humpback whales. On our cruises, passengers get the latest facts and findings about marine life.

Pacific Whale Foundation's vision is to be the people's environmental organization for research, advocacy, and protection of the world's whales, dolphins and other marine wildlife, as well as their ocean habitat. We believe that it is essential to involve the public in our mission.

Pacific Whale Foundation's environmental policy includes the following objectives:

- To be committed to global diversification, training, and communication on responsible whale watching and research
- To use environmentally sound practices when conducting business
- To model environmentally values-based choices in a resourceful business
- Reduce contributions to greenhouse gas emissions and improve resilience and adaptation to climate change.
- Educate tourists on how to reduce their impact by developing their appreciation and understanding.

ENVIRONMENTAL AND CULTURAL CHARACTERISTICS

Hervey Bay represents a well-known mid-migration gathering area for humpback whales. The Oceania population of humpback whales is currently listed as endangered on the IUCN Red List. Humpback whales have a very large range due to their annual migration between high-latitude feeding areas and low-latitude breeding areas. Mid-migration gathering areas likely serve an important function in management of energetic reserves during this migration. Increased education through eco-tourism programs will encourage stewardship of these areas to ensure continued habitat use by this species.

The area used by humpback whales within Hervey Bay overlaps with Marine National Park Zones included within the Great Sandy Marine Park, which is a part of the Great Sandy Biosphere Reserve. Apart from open-water habitat, the park features several habitat types such as mangroves, mudflats, and seagrass beds, reef and estuaries. These habitats are additionally used by other ecologically important species such as sea turtles, dugongs, and various species of shorebirds. This area is also of particular significance to migratory shorebirds with several Ramsar listed wetlands.

ENVIRONMENTAL RISK MANAGEMENT – THE ENVIRONMENTAL RISKS ASSOCIATED WITH OPERATIONS

Activity / Area	Associated Risk/s	Level of Risk	Strategy to Minimise Risk	Staff Role Responsible	Monitoring Process
Whale watching	Wildlife disturbance; Boat strikes; Water pollution	<i>Low</i>	Abide by minimum approach distances: do not approach whales within 100 m. If a whale surfaces unexpectedly within 100 m, stop immediately and allow it to pass. Maintain a no-wake speed of 6 knots or less within 300 m of a whale. Limit viewing time with whale groups containing calves to 30 minutes. Avoid approaching from directly in front of or behind whales; use a wide angle. Do not touch or feed whales. Crew positioned as lookouts. Vessel maintained to prevent pollution.	Captain; Guides	Customer reviews; reports from other operators; photo/video monitoring. Captain logs strikes/close encounters in incident report and ship's log; reports to Operations Manager. Engines serviced every 100 hours.
Vessel transport to viewing sites	Fuel leaks; engine emissions; noise disturbance to wildlife	<i>Medium</i>	Routine vessel inspections and preventative maintenance. Use environmentally responsible fuels where possible. Reduce noise and wake; follow caution-zone rules and slow down when whales are within 300 m.	Captain; Maintenance crew	Maintenance logs; engine inspections; fuel usage records.

Activity / Area	Associated Risk/s	Level of Risk	Strategy to Minimise Risk	Staff Role Responsible	Monitoring Process
Dolphin or marine wildlife encounters	Stress to animals; altered natural behaviour due to human interaction	<i>Medium</i>	Strict wildlife interaction guidelines. Maintain minimum approach distances and limit interaction time. Keep clear of the whale path—do not intercept; maintain parallel course at slow speed if animals’ approach. No feeding or touching wildlife.	All crew	Observation logs; wildlife behaviour monitoring; compliance with wildlife tourism regulations
Waste management onboard	Plastic pollution; food waste entering the ocean	<i>Medium</i>	Provide recycling and waste bins on board. No waste disposal into the ocean. All waste returned to shore and disposed at approved facilities. Reduce single-use plastics.	All crew	Waste audits; onboard inspections; customer education and signage.
Refuelling vessels	Fuel spills or contamination of water	<i>Medium</i>	Refuelling conducted at designated facilities. Spill kits available onboard. Staff trained in spill response procedures.	Captain; Maintenance crew	Spill incident reports; inspection of fuel lines and storage tanks.
Equipment cleaning and maintenance	Chemical contamination of marine	<i>Low</i>	Use environmentally friendly cleaning	<i>All Crew</i>	Inspection of cleaning procedures and product use.

Activity / Area	Associated Risk/s	Level of Risk	Strategy to Minimise Risk	Staff Role Responsible	Monitoring Process
Visitor behaviour	Littering; wildlife disturbance; environmental damage	<i>Medium</i>	Provide environmental awareness briefings before tours (Be Whale Aware: maintain distance, no touching/feeding, stay seated). Clear signage regarding responsible tourism behaviour. Guides monitor visitor actions.	<i>All Crew</i>	Staff observation; visitor feedback; incident reporting.
Extreme weather operations	Potential damage to marine	<i>Medium to high</i>	Monitor weather forecasts closely. Cancel or postpone tours in unsafe conditions. Secure vessels during storms.	Captain; Operations Manager	Weather monitoring systems; safety checks before trips; incident reports if required.

ENERGY AND GHG EMISSIONS: MEASUREMENT, MINIMISATION AND MANAGEMENT STRATE

Emissions Calculator/Methodology used	Staff Role Responsible	Timeline/Budget	Monitoring Process
Dashboard: Calculator Ecobiz Calculator	Operations Manager	Annual Emissions 2025	Annual calculations and review

	Topic/Area	Emissions Reduction Actions	Staff Role Responsible	Timeline/Budget	Monitoring Process
Energy Efficiency	Buildings				
	Equipment	- Appliances are switched off at the wall when not in use	Operations Manager	No changes required at this stage as we only have minimal equipment	- Not Applicable
	Lighting	- Lights turned off when not in use -Install energy efficient lights	Operations Manager	Complete by Jan 2027 Budget \$1000	-Monitored through power bill
	Heating, cooling and ventilation	- Maximise natural ventilation (reduce need for air conditioning) -Install more ceiling fans to eliminate the need to use the air conditioning	Operations Manager	Complete by Jan 2027 Budget \$1000	Annual review of Environmental Management Plan
	Water heating	- Not applicable	(Name)		
Energy Supply	Renewable energy	- Not Applicable -Lok into future solar panels	Operations Manager	?????	- This will need to be negotiated with the landlord as we do not own the building

	Topic/Area	Emissions Reduction Actions	Staff Role Responsible	Timeline/Budget	Monitoring Process
	Green power	- Not Applicable	(Name)		Choose an item. <i>[DELETE THE TEXT IN GREY] If you use another monitoring process, you can write it here.</i>
Travel / Transport	Vehicles / transportation	- Bikes are used for transport when possible -Car pooling is encouraged where possible -Combine trips to minimize fuel usage	Operations Manager		- Logbook to monitor fuel use, mileage and maintenance of vehicles -Vehicles are always serviced on time.
	Employee travel to work initiatives	- Staff are encouraged to cycle or walk to work	Operations Manager		N/A
	Client / customer travel initiatives	- Not Applicable	(Name)		- Not Applicable

	Topic/Area	Emissions Reduction Actions	Staff Role Responsible	Timeline/Budget	Monitoring Process
Operational Areas	Partnership with climate friendly businesses and suppliers	- We Identify and collaborate with climate change conscious businesses/suppliers -We use a “Green Matrix” to purchase all retail items	Operations	Already implemented	- New partnerships are investigated regularly
	Suppliers				
	Green purchasing policy and initiatives	- Choosing suppliers that have their own sustainable practices or policies -Choose recycled materials	Operations Manager	Already Implemented	- New environmentally friendly products and initiatives are investigated regularly
	Sourcing local products	- Purchasing local products to reduce transport emissions	Operations Manager	Already Implemented	- New local sources are investigated regularly
	Efficient product packaging (recyclable, minimal cooling etc.)	- Single-use plastics and polystyrene are avoided	Operations Manager	Already Implemented	This is always a high consideration when purchasing

	Topic/Area	Emissions Reduction Actions	Staff Role Responsible	Timeline/Budget	Monitoring Process
	In-house				
	Office / admin initiatives	- All paper is recycled -No single use cutlery etc. -battery recycling -ink cartridge recycling	All Staff		- Included in Operations Manual
	Marketing and promotional	- Increase e-marketing and online feedback submissions -Print all brochures on recycled paper	Operations Manager	Complete by Jan 2027	- Marketing Strategy annual review
Emission Monitoring	Emissions assessment	- Emission sources are to be identified and assessed	Operations Manager	Completed by June 2026	- Annual emission review will be implemented
	Carbon footprint calculations	- Carbon footprint will be calculated and reported	Operations Manager	Complete by June 2026	- Annual review will be implemented

	Topic/Area	Emissions Reduction Actions	Staff Role Responsible	Timeline/Budget	Monitoring Process
Carbon Offsetting	Buy carbon offsets	This will be investigated	Operations Manager	Complete by Jan 2027	- Annual review
	Guests can purchase offsets for their stay	This will be investigated	Operations Manager	Complete by Jan 2027	Annual Review

WATER: MEASUREMENT, MINIMISATION AND MANAGEMENT STRATEGIES

1. IDENTIFY AND MEASURE

SOURCES

Direct:

- Fuel
- Office/Retail, computers and lighting
- Retail fridge and freezer

Indirect:

- Transport/delivery of products

2. STRATEGIES TO MEASURE AND REPORT

	Topic/Area	Water Reduction Actions	Staff Role Responsible	Timeline/Budget	Monitoring Process
Water efficiency	Bathroom/toilets	- Not applicable	(Name)		Landlord responsibility

	Topic/Area	Water Reduction Actions	Staff Role Responsible	Timeline/Budget	Monitoring Process
	Appliances	- Regular maintenance program to replace leaking taps, valves and pipes	Operations Manager		- Equipment functionality is assessed monthly

WASTE: MEASUREMENT, MINIMISATION AND MANAGEMENT STRATEGIES

	What type of waste is it? Where does it come from?	Management, Re-using, Recycling and Disposal	Reduction Strategies	Role & Staff Member Responsible	Monitoring
General waste	-Office waste, paper -Soft drink cans -Stock packaging	Responsible disposal of all waste	Applying 'reduce, reuse, recycle' principles as much as possible Green supplier policy/preference Staff training and guest education	All Staff	Operational procedures and supervision
Organic/Food Waste	N/A				

	What type of waste is it? Where does it come from?	Management, Re-using, Recycling and Disposal	Reduction Strategies	Role & Staff Member Responsible	Monitoring
Paper & Cardboard	- Used brochures -cardboard	Reused when possible or recycled.	All paper is reused (e.g. as scrap paper) before getting recycled 'No print' policy Guests are actively encouraged to give back publications for reuse. Electronic format available.	Operations Manager	
Plastic	-Soft plastic packaging/wrappers from purchased goods	-Collected and recycled through when possible -Packaging without plastic is preferred	Policy to preference suppliers with reduced packaging refer "Green Matrix"	Operations Manager	Operational procedures and supervision
	Packaging from guests	Recycling bins provided in the marina facility	Signage and educational information are provided to encourage waste reduction and recycling. Refillable water bottle and reusable bags sold/provided.	Operations Manager	
Glass	No Glass used				
Chemicals	Batteries Chemicals general	Disposed responsibly through correct disposal programs. Any chemical waste is disposed of	Batteries are required however we purchase long lasting batteries to ensure less wastage	Operations Manager	Yearly review

	What type of waste is it? Where does it come from?	Management, Re-using, Recycling and Disposal	Reduction Strategies	Role & Staff Member Responsible	Monitoring
		responsibly and carefully, following formal procedures and regulations.			
Metals	Cans	Recycling bins provided, collected and recycled through Containers 4 Change	We have reduced the can size from 375ml to 250ml	Operations Manager	Annual review
Other					

CLIMATE CHANGE RISK ASSESSMENT

Area of Risk	Business Vulnerability		Level of Risk	Adaptation Strategy	Responsibilities and Partnerships	Timeline/ Budget	Monitoring and Review
	Existing risks (past and current) and future risks and opportunities						
Building Management	N/A		Choose an item.		Management are responsible for making decisions regarding buildings.		Ongoing monitoring of buildings' vulnerability to threats.
Extreme Weather	Heatwaves, storms, flooding, health/safety concerns.		Moderate	-Maintain conservative go/no-go thresholds; daily meteorological briefings; lightning protocol. -All crew current in First Aid & CPR; heat stress and dehydration procedures; extra shade/water/sunscreen on deck. -Offline boarding and manifest fallback; paper charts and redundancy for critical nav/comm equipment.	Manager; Skippers; Marine insurer; BOM marine services; IT support	Immediate & ongoing; annual emergency drill. Budget: Training \$500–\$1k/yr; redundancy equipment as needed	Annual review of the procedures manual; post-event debriefs; incident trend analysis.

Area of Risk	Business Vulnerability		Level of Risk	Adaptation Strategy	Responsibilities and Partnerships	Timeline/ Budget	Monitoring and Review
	Existing risks (past and current) and future risks and opportunities						
				Proactive passenger comms about conditions and rescheduling options.			
Marine Heatwaves & Water Quality	Elevated sea temperatures; algal blooms; post-flood turbidity		Moderate	-Maintain alternate routes within the Bay to avoid affected zones; dynamic itinerary planning. -Simple onboard water-quality checks (Secchi depth, temp log) to inform daily decisions. -Pre-season scenario mapping for heatwave/bloom years (marketing, pricing flexibility, added value inclusions).	Skippers & Guides; Local researchers; Fraser Coast Council environment team	Pre-season planning each year	Seasonal summary of conditions vs. sightings/cancellations; adjust routing playbook annually

Area of Risk	Business Vulnerability		Level of Risk	Adaptation Strategy	Responsibilities and Partnerships	Timeline/ Budget	Monitoring and Review
	Existing risks (past and current) and future risks and opportunities						
Wildlife Health	Harmful algal blooms; novel pathogens; distressed wildlife interaction risk		Moderate	-Vessel biofouling plan - On-water wildlife health reporting procedure; no-contact rules reinforced. -Pre-approved comms templates for sensitive events (strandings/sickness).	Skippers & Guides; Parks & Wildlife; Marine Strandings Network	Immediate SOP update; annual refresher	Event log and outcomes; joint debriefs with agencies after incidents
Insurance, Compliance & Finance	Rising premiums/excess; evolving safety/environmental regulations.		Moderate	-Maintain audited Safety Management System; document climate risk controls to negotiate insurance. -Pursue eco-certifications; maintain eligibility for public funding streams.	Manager & Accountant; Insurer/Broker	Insurance negotiation cycle annually; reserve policy phased in	Annual board/owner review of premiums vs. controls; certification surveillance audits

Area of Risk	Business Vulnerability		Level of Risk	Adaptation Strategy	Responsibilities and Partnerships	Timeline/ Budget	Monitoring and Review
	Existing risks (past and current) and future risks and opportunities						
				-Build reserve policy targeting ≥2 months fixed costs.		over 12–24 months	

ENVIRONMENTAL BEST PRACTICE INITIATIVES

Initiative Category	Environmental Initiative	Purpose	Role & Staff Member Responsible	Monitoring
Conservation Initiatives	- Carbon offsetting for vessel fuel emissions - Direct support for marine conservation groups (financial, in-kind, or data provision) - Participation in humpback population monitoring (photo-ID, behaviour logs) - Participation in industry climate-adaptation forums (Fraser Coast tourism networks, research partners) - Contribution to regional biodiversity restoration programs (e.g., seagrass, mangroves)	- Support climate mitigation and adaptation outcomes - Strengthen ecological resilience in Hervey Bay / Great Sandy Marine Park - Enhance reputation as a responsible operator - Contribute meaningful science data to partner organisation	- Manager partnerships, contributions, and reporting - Crew & Guides collect field data and share interpretation	- Annual meeting with partners to review outcomes - Track contributions and conservation activities with quarterly reporting
Energy Consumption	- Maintain all onboard equipment in energy-efficient condition - Minimise unnecessary engine idling - Use renewable energy onshore (office/booking systems)	- Reduce overall carbon footprint - Lower operational costs	Manager partnerships, contributions, and reporting	Annual energy-performance audit

	• Upgrade to LED, low-draw electronics	• Reduce fuel burn and emissions during wildlife approaches	• Crew & Guides collect field data and share interpretation	
Marine Wildlife Protection	• Slow-speed zones in whale aggregation areas • Acoustic minimisation practices (engine loading techniques, reduced revs near pods) • No-touch, no-feed, no-interference policies • Support for marine stranding and health reporting networks	• Prevent disturbance or harm to humpbacks, dolphins, turtles, and seabirds • Maintain compliance with QLD Marine Mammal Regulations • Enhance wildlife welfare and guest trust	• Skippers & Guides	• Log wildlife interactions • Incident review after each season
Vehicle use (including cleaning and fuels)	• Use of fuel-efficient company vehicles • Regular servicing to reduce emissions • Route planning to minimise travel distance • Carpooling for staff where feasible • Transition to hybrid/electric vehicles when economically viable	• Reduce emissions associated with land-based logistics • Lower fuel consumption and environmental footprint • Improve overall sustainability profile	• All staff	• Monthly fuel-use tracking • Maintenance logs • Annual vehicle emissions review

		alongside marine operations		
Noise and light pollution	• Minimise vessel engine noise around whale pods (low-RPM approaches) • Maintain compliant decibel output for vessel engines and generators • Use shielded, low-intensity lighting onboard at night • No unnecessary spotlights or floodlights when navigating • Avoid bright lighting near beaches to prevent wildlife disturbance (turtles/birds) • Educate passengers on keeping noise levels low during whale interactions	• Protect humpback whales, dolphins and other wildlife sensitive to sound • Reduce light spill that can disrupt seabirds, turtles, and nocturnal marine species • Maintain tranquil eco-tour experience for guests • Reduce cumulative sensory disturbance in Hervey Bay's sensitive marine areas	• Skippers & Crew	• Incident logs documenting noise/light-related wildlife behaviour • Periodic checks of lighting and acoustic output • Annual review of vessel noise footprint and lighting policies

ENVIRONMENTAL IMPROVEMENTS

Continuous Improvement

Over the next 12 months, our business will implement targeted improvement measures to reduce environmental impacts and strengthen operational sustainability. These initiatives will be supported by structured monitoring to ensure measurable progress.

Fuel Efficiency Optimisation

We have identified the optimal vessel operating speed for fuel efficiency and successfully reduced total fuel consumption **from 2024 to 2025**, despite an increase in tour numbers. This demonstrates a significant reduction in both operating costs and emissions per passenger.

Over the coming year, we will continue to refine vessel-speed protocols, monitor fuel-burn data per tour, and evaluate opportunities to further reduce waste and improve operational efficiency. Performance will be reviewed monthly through fuel-use logs and seasonal efficiency comparisons.

Energy-Efficient Technology Upgrades

Following damage to key operational technology and our Point-of-Sale (POS) system during a recent weather event, we will undertake a full replacement and upgrade of affected equipment. All new technology purchases will prioritise **energy-efficient, low-consumption devices** to reduce electricity demand and support long-term emissions reduction.

Monitoring will occur through updated asset registers, annual energy-use reviews, and routine equipment performance checks to ensure systems are operating efficiently and sustainably.

REPORTING PROGRAMS

Passengers are strongly encouraged to use our whale and dolphin reporting app, PWF Whale & Dolphin Tracker, to contribute their sighting photos to the South Pacific Humpback Whale Catalogue, maintained by the Research Department of Pacific Whale Foundation in Maui, Hawai'i, USA. These passenger-submitted images support long-term humpback whale identification and migration studies.

Every confirmed sighting—whether logged by Guides or uploaded by passengers—is also shared with Happy Whale, an internationally recognised open database that uses automated image-recognition technology to match whale fluke photos worldwide. Contributions to Happy Whale help strengthen the global understanding of humpback migration routes, longevity, and individual re-sightings between regions such as Antarctica, the South Pacific islands, eastern Australia, and even as far as Alaska.

Through this collaborative approach, our guests become an active part of a global research network. Their photos, sightings, and observations help researchers monitor the health of humpback whale populations, identify emerging conservation concerns, and protect the species for future generations. By encouraging participation in citizen science, we not only enhance the educational value of our tours but also provide meaningful, long-term contributions to international marine conservation.

STAFF TRAINING AND DEVELOPMENT

All Guides are required to complete training through our in-house **ECO U** program as part of their induction. This program provides a comprehensive foundation in environmental awareness and responsible tour operations, and includes the following key components:

- Environmental issues and solutions relevant to our operating area
- Potential environmental impacts associated with our activities and the practical measures used to minimise these impacts
- Biological knowledge and conservation status of key species within the region, with a strong emphasis on humpback whales
- Principles and requirements of the Be Whale Aware code of conduct, ensuring guides understand and uphold best-practice whale-watching standards

In addition to the induction program, all staff receive supplemental and refresher training at the start of each whale season. This ensures Guides have access to the most current information on marine species, ecosystem processes, and environmental conditions within the Hervey Bay habitat. This ongoing training supports consistent, high-quality interpretation and reinforces our commitment to responsible and environmentally conscious operations.

CUSTOMER AWARENESS

Education and Interpretation

Education is a core component of Pacific Whale Foundation's mission to protect the ocean through science and advocacy. Our onboard interpretive approach is designed to empower guests with meaningful, science-based knowledge that deepens their connection to the marine environment and inspires long-term stewardship.

Information presented during tours focuses on:

- The biology, behaviour, and life history of humpback whales, explained within the broader context of their marine ecosystem
- The conservation status of marine species and the importance of safeguarding healthy ocean habitats

- Key threats to cetaceans, including the Five Major Threats communicated in our conservation messaging

Guests are encouraged to continue their learning beyond the tour. They are provided access to additional educational resources through the Pacific Whale Foundation website and invited to participate in citizen-science initiatives by contributing humpback whale identification photos. These images support long-term photo-ID and research programs and help strengthen global conservation efforts. Guests are also welcome to join volunteer clean-up events coordinated through the Foundation, giving them direct opportunities to contribute to ocean stewardship.

Our educational outreach extends to digital engagement as well. We maintain active social media channels that share accessible, engaging content about sustainability, marine conservation, and the protection of local ocean ecosystems. This ongoing communication strengthens public awareness and reinforces key conservation messages introduced during the tour.

To ensure accessibility and inclusivity, educational and interpretive materials are delivered in multiple formats, supporting guests who speak different languages or who have diverse learning styles. This may include spoken interpretation, printed materials, visual aids, infographics, and digital resources.

We also collaborate with local schools, community partners, and conservation organisations to deliver specialised educational excursions. These programs introduce younger audiences and community groups to marine conservation themes, with a particular focus on the threats facing cetaceans and the actions individuals and communities can take to protect marine wildlife.

CLIMATE CHANGE AWARENESS AND EDUCATION (required for CA Certification, optional for ECO)

Topic / Area	Action(s)	Responsibility	Timeline / Budget	Monitoring and Review
Emissions assessment, carbon footprint, offset information	- Publish information on vessel and vehicle emissions on the business website and in tour marketing materials - Provide guests with access to carbon-offset options and footprint calculators - Communicate the business's fuel-efficiency measures and achievements, including reduction milestones - Include annual environmental impact summaries within guest communications	Operations Manager & Marketing Manager	- Ongoing - Incorporated into annual marketing/website update budgets	- Annual review of emissions data and published information - Updated each season based on operational fuel-use logs and carbon-offset participation
Owner/manager and employee climate change awareness training	- Attend climate-change and marine conservation forums, industry presentations, and professional conferences - Identify and record all climate-related training completed by staff - Provide staff with key facts and updated research on Hervey Bay climate impacts,	Operations Manager	- Ongoing - Annual training budget allocated; staff refresher training delivered pre-season	Annual review of staff competencies and training logs

Topic / Area	Action(s)	Responsibility	Timeline / Budget	Monitoring and Review
	whale migration changes, and the Great Sandy Marine Park - Distribute training resources and scientific updates to new employees during induction - Integrate climate messaging into ECO U training and seasonal refreshers			Updated with new climate-science findings and regulatory changes
Client/customer climate change awareness initiatives	- Encourage guests to support local and regional climate-action initiatives - Offer optional contributions/donations during booking to support climate and conservation programs - Provide links on the company website to carbon-offset platforms and footprint calculators - Use onboard interpretation to explain how climate change affects humpback whale behaviour, migration, and marine ecosystems - Promote responsible travel choices and low-impact visitor behaviour	All Staff (Guides, Skippers, Operations Team)	- Ongoing - Implemented as part of seasonal interpretation and guest-engagement planning	Annual review of donation participation, guest feedback, and climate-awareness engagement

Topic / Area	Action(s)	Responsibility	Timeline / Budget	Monitoring and Review
Continuous improvement	• Work toward Climate Action Certification • Implement steps toward becoming a carbon-neutral operation • Continue improving vessel fuel-efficiency practices and reducing emissions • Upgrade to energy-efficient systems and technology (including weather-damaged equipment replacement) • Strengthen climate-education content in guest interpretation and staff training	• Operations Manager	• 12-month focus on certification and carbon-neutral pathway • Ongoing investment in technology upgrades and operational improvements	• Annual review of progress toward Climate Action certification • Monitoring of emissions reductions, energy-efficiency gains, and training outcomes

APPENDIX: EMISSIONS CALCULATIONS

WATER

Building	Consumption/production per year	Consumption/production per guest	Sources	Monitoring Process
Great Sandy Straits Marina Terminal	_____ L	Number of guests: _____ per _____ (e.g. room, vessel) _____ L	☐ Piped (mains supply) ☐ Water tank ☐ Recycled ☐ River/creek/stream ☐ Groundwater Other: _____	Water is included in rent and there is not way to monitor use

ENERGY

	Consumption per year	Consumption per guest	Sources	Monitoring Process
Energy	4248k	Number of guests: 5248 per season 0.809 kWh/ per person	☒ Grid (from provider) ☐ Solar ☐ Wind ☐ Water Other: _____	-Reviewed Monthly as bill becomes available

	_____ kWh			
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FUEL

Area	Consumption/production Per year	Consumption/production Per guest	Sources	Monitoring Process
Fuel Vessel	42,685 L	Number of guests: 5,248 per season 8.13 L/ per person	☐ Diesel ☒ Petrol ☐ Biodiesel ☐ Biofuel ☐ LPG ☐ E10 ☐ Ethanol	- Staff monitor fuel usage through log books -Fuel is reported on in annual and season reports
Fuel Vehicle	1020 L	Work Vehicle	☒ Diesel ☐ Petrol ☐ Biodiesel ☐ Biofuel ☐ LPG ☐ E10 ☐ Ethanol	-Fuel is reported on in annual and season reports

WASTE

Area	Generation/production Per year	Generation/production Per guest	Sources	Monitoring Process
Waste	50 L per week	0.11 L/ Per person	☒ General ☐ Paper ☐ Glass ☐ Plastic ☒ Metal ☐ Organic Other: _____	- Staff monitor waste disposal by tracking each disposal bin emptied and recording the measurements on the vessel garbage disposal log

Note: Some calculators use waste weight (tonnes [t]) or waste volume (cubic metres [m³] or litres [L]).

Conversion: 1 m³ = 1,000 L 1 t = 907.185 L

TOTAL GREENHOUSE GAS (GHG) EMISSIONS

	Total GHG/year	Total GHG/number of guests	Total GHG/number of rooms (for accommodations)	Monitoring Process
Total GHG Emissions	129.99 t/Co2-e	Number of guests: 5248 per season 0.024 kg/Co2-e	N/A kg/Co2-e	<i>Emissions are reviewed annually</i>

WASTE AUDIT RESULTS (required for Advanced Ecotourism & Climate Action applicants)

Type Of Material	Approx. Volume Of Waste (Litres Per Week)	Location Of Bin
General waste/ landfill	20 L	Vessel/Retail
Paper	5L	-
Cardboard	20L	RETAIL
Glass	0	-
Hard Plastics	0	-
Soft Plastics	5L	RETAIL
Metal	25L	VESSEL

