

ENVIRONMENTAL MANAGEMENT PLAN



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ENVIRONMENTAL MANAGEMENT PLAN & IMPACT ASSESSMENT

THE COMPANY'S ENVIRONMENTAL AIMS AND OBJECTIVES

Sea Darwin-Sea Tiwi aims to manage our business in an environmentally responsible manner in all that we do.

We recognise our legal and moral duty to use resources wisely, and we comply with all legislative requirements and seek eco certification across local, state and national platforms. We care about our environment and ask our customers and staff to do the same.

To ensure our behaviour is demonstrably responsible we aim to:

- Maintain an environmental management plan to help systematically reduce our impacts on the environment. This plan is to be inclusive of measuring our environmental impact and detailing the introduction and implementation of operational improvements, aimed specifically at reducing our carbon footprint.
- Maximise energy efficiency while minimising emissions.
- Use carefully selected bio-degradable, eco cleaning products and office supplies.
- Maintain ETA "Advanced Eco Tourism" accreditation.
- Comply with all relevant government environmental legislation.
- Support government initiatives in relation to recycling programs.
- Maintain active involvement in marine debris and habitat clean-up activities.
- Communicate these policies to our employees and the wider community
- Educate our employees and contractors on their environmental responsibilities and ensure this is integrated into their work practices, training and decision making.
- Continuously strive to improve the environmental performance of the company
- Ensure our products maintain focus on education of guests and appreciation of diverse natural environment and the way local culture has evolved to support that environment.
- Foster positive relationships with Traditional Landowners and ensure that staff and guests are respectful of heritage and culture.
- Employment of local staff and use of local suppliers and produce where possible.
- Maintain active involvement in Top End Indigenous tourism networks.

The environmental aims of this Environmental Management Plan include:

- Ensure compliance with all environmental legislation and requirements.
- Identify and minimise all possible environmental risks associated with the operation of Sea Darwin-Sea Tiwi.
- Contribute to the conservation objectives of the marine environments of Darwin Harbour, Bynoe Harbour and Bare Sand Island.
- Ensure there is no long term environmental or cultural impact from the operation of Sea Darwin-Sea Tiwi.
- Reduce contributions to greenhouse gas.

ENVIRONMENTAL AND CULTURAL CHARACTERISTICS

The environmental aspects and cultural sites that are relevant to Sea Darwin-Sea Tiwi include:

- Sea Turtles, specifically the flatback, the olive ridley, and hawksbill
- Marine mammals in Darwin Harbour, including the dugong and dolphins (humpback, bottlenose, snubfin)
- Mangrove estuaries of Darwin Harbour
- Bare Sand Island
- Talc Head
- Fannie Bay Sandbar
- The entirety of Bathurst and Melville (The Tiwi) Islands, the ocean area between Darwin and the Tiwi islands, the intertidal and ocean areas surrounding the Tiwi islands and the Apsley Strait between the islands.

Legal Obligations and Requirements

Sea Darwin-Sea Tiwi is committed to complying with obligations under the following Acts or Regulations:

- Marine Act 2012
- The International Convention for the Prevention of Pollution from Ships (MARPOL)
- Marine Safety Regulations – NT Department of Transport
- NT Food Act 2012
- NT Work Health and Safety (NATIONAL UNIFORM LEGISLATION) Act 2011
- NT Liquor Act 2019
- Permit to Take or Interfere with Wildlife (Department of Natural Resources, Environment, The Arts and Sport)
- Australian Securities and Investment Commission
- NT Business Registration

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
Turtle Watching Tours	Turtle disturbance / Behavioural change	Low to medium	Follow national protocols for turtle watching. Ensure turtle guides are fully trained. Impart information about the protocols to all guests.	Guides tour Management Provide interpretative information on board vessels	Self-monitoring through: <ul style="list-style-type: none"> • Personal observation by staff • Review and respond to feedback from customers.
Marine Mammal Observation	Mammal disturbance / behavioural change	Low to medium	Follow national guidelines for marine mammal watching	Guides on tour Management Provide interpretative material on board vessels	Self-monitoring through: <ul style="list-style-type: none"> • Personal observation by staff • Review and respond to feedback from customers.
Beach Visits and Traditional Activities	Pollution: <ul style="list-style-type: none"> • Light • Sound • Visual • Environmental 	Low	Ensure guests briefed adequately prior to disembarkation. Staff trained to mitigate / clean up	Guides on tour Management Provide interpretative / briefing materials on board vessels	Self-monitoring through: <ul style="list-style-type: none"> • Personal observation by staff • Review and respond to feedback from customers

Activity / Area	Associated Risk/s	Level of Risk	Strategy to Minimise Risk	Staff Role Responsible	Monitoring Process
Tiwi Island-based touring activities	<ul style="list-style-type: none"> • Turtle disturbance • Marine and freshwater animal disturbance • Terrestrial flora and fauna disturbance 	Low to medium	<p>Follow national guidelines for marine and terrestrial wildlife viewing.</p> <p>Ensure adequate and appropriate interpretative guidelines provided for guides and customers</p>	Guides on tour Management	<p>Self-monitoring through:</p> <ul style="list-style-type: none"> • Personal observation by staff • Review and respond to feedback from customers. • Seek regular dialogue / feedback from Traditional Owners
Land-based vehicle touring activities	Exhaust	Low	Only travel on bitumen roads	Guides on tour	Regular route checks and logbook entries.
Boating	<ul style="list-style-type: none"> • Wildlife disturbance • Boat strikes • Water pollution 	Low	<ul style="list-style-type: none"> • The vessel will only travel at 5 knots when in shallow waters and approaching our destinations to limit disruption. • A spotter is used to avoid any potential boat strikes. • The vessel is maintained regularly to prevent any chemical and fuel leaks. 	Guides on tour Management	<ul style="list-style-type: none"> • Using GPS information, the Captain will know exactly when approaching shallow waters and make the engine adjustments. • The spotter also records any turtle, whale or dugong sighting and this information is plotted by GPS.
Island visit	<ul style="list-style-type: none"> • Littering • Wildlife disturbance 	Low	<ul style="list-style-type: none"> • Bins are taken ashore for rubbish collection. • Guests are asked to only take essential items ashore 	All staff	<ul style="list-style-type: none"> • A staff member will patrol and collect all rubbish left behind on the cays. • Staff member will monitor the

Activity / Area	Associated Risk/s	Level of Risk	Strategy to Minimise Risk	Staff Role Responsible	Monitoring Process
			<p>and to ensure they do not leave anything behind.</p> <ul style="list-style-type: none"> • Guests are informed about the turtle populations and on the rules about interaction and are always supervised. 		<p>boundary line on Michaelmas at all times to prevent disturbance.</p>
Food consumption and preparation	<ul style="list-style-type: none"> • Fish feeding • Littering 	Low	<p>Guests are educated about throwing food waste overboard and encouraged to refrain from feeding the fish.</p>	All staff	<ul style="list-style-type: none"> • Staff members monitor guests to prevent fish feeding. Any cases that are observed are addressed immediately to prevent future incidents occurring. • After lunch staff will ask for all scraps to be disposed into the bins or brought back to the kitchen for disposal.
Anchoring	Coral and ecosystem damage	Low	<ul style="list-style-type: none"> • Our vessel is always moored when at our destinations. • Anchoring on the sand cays is only done using a sand anchor and does not impact the island or any ecosystems. • Anchor over a wreck • We have a mooring at the turtle beach 	Captain First Mate	N/A

Activity / Area	Associated Risk/s	Level of Risk	Strategy to Minimise Risk	Staff Role Responsible	Monitoring Process
Waste discharge	Water pollution	N/A	The vessel does not discharge of any sewage waste into the water. It is all removed back at the docks.	N/A	N/A
Water discharge	Waste water discharge	Low	<ul style="list-style-type: none"> • Water saving devices have been installed on tap fitting to ensure limited water is used and discharged. • Taps can only operate when button is pushed • All detergents and hand soaps on-board are biodegradable. 	Management	N/A

ENERGY AND GHG EMISSIONS: MEASUREMENT, MINIMISATION AND MANAGEMENT STRATEGIES

1. Measure* → 2. Reduce* → 3. Offset → 4. Report → 5. Audit

1. IDENTIFY AND MEASURE

SOURCES

This section outlines the sources of energy consumption and greenhouse gas (GHG) emissions for Sea Darwin Sea Tiwi. It identifies both direct and indirect emissions associated with our operations, encompassing all aspects from transportation to office activities.

Sources of Emissions

To comprehensively address our environmental impact, we have identified the following sources of energy consumption and GHG emissions across various operational elements:

1. Purchasing and Supplies

- **Imported Products vs. Locally Made:** The choice between imported and locally made products can significantly impact emissions due to transportation distances and associated fuel consumption.
- **New Materials vs. Recycled Materials:** Utilising recycled materials reduces the energy required for production compared to new materials.
- **Energy Rating of Equipment:** The use of high energy-efficiency rated equipment helps minimise energy consumption.

2. Product/Service Consumption

- **Waste Generation:** The consumption of products and services generates waste that contributes to GHG emissions. Proper waste management and recycling can mitigate this impact.

3. Buildings and Infrastructure

- **Electricity Consumption:** The electricity used in our office and operational buildings, particularly if sourced from non-renewable energy, contributes to our carbon footprint.
- **Construction Materials:** The use of materials such as imported rainforest timbers can lead to higher emissions due to transportation and unsustainable harvesting practices.

4. Machinery and Vehicles

- **Engine Capacity and Fuel Type:** Large engine capacities and the use of dirtier fuels in machinery and vehicles result in higher emissions.
- **Employee Vehicles:** Policies regarding the provision of cars as part of employment packages can influence the overall emissions, particularly if vehicles are not fuel-efficient.

5. Travel and Transport

- **Distance Travelled:** The long distances travelled for operations, particularly by motorised transport, are a significant source of emissions.
- **Meeting Policies:** The location of national meetings and the preference for face-to-face meetings over video conferencing can increase travel-related emissions.

6. Marketing and Promotion

- **Print Media:** The use of non-recycled print media contributes to emissions through the production process.
- **Electronic Media:** While electronic media can reduce emissions compared to print media, it still requires energy consumption, particularly if sourced from non-renewable energy.
- **Promotional Gifts:** The production and distribution of promotional gifts can add to our overall emissions, especially if not sustainably sourced.

Emission Categories

Direct Emissions

Direct emissions are those produced from sources within the boundary of Sea Darwin Sea Tiwi and as a direct result of our activities. These include:

- **Energy Generation:** Emissions from the generation of electricity, heat, and steam used in our operations.
- **Operational Processes:** Emissions from any manufacturing or maintenance processes carried out by Sea Darwin Sea Tiwi.
- **Transportation:** Emissions from the transportation of materials, products, waste, and people associated directly with our operations.

Indirect Emissions

Indirect emissions result from our activities but are produced by the activities of another organisation. These include:

- **Purchased Goods and Services:** Emissions generated during the production and transportation of goods and services we procure.
- **Energy Consumption:** Emissions from the generation of the electricity we consume, if produced by external power plants.

- **Business Travel:** Emissions from transportation modes used by employees for business travel, such as flights or hired vehicles.

MEASURE CONSUMPTION

The following table outlines the methodologies and tools used for calculating emissions at Sea Darwin Sea Tiwi, detailing the roles responsible for data collection and analysis, the timeline for recording and measuring emissions, and the monitoring processes employed to ensure accurate and ongoing environmental impact assessment.

Emissions Calculator/Methodology used	Staff Role Responsible	Timeline/Budget	Monitoring Process
Carbon Neutral or Low Carbon Living	General Manager	Quarterly data collection, annual emissions calculations	Annual calculation and year-on-year comparison of figures
National Greenhouse and Energy Reporting (NGER)	General Manager	Monthly data recording, annual report submission	Monthly monitoring and reporting, compliance with NGER standards
Greenhouse Gas Protocol	General Manager	Bi-annual data collection, annual review	Bi-annual analysis and adjustments based on emission trends
Carbon Trust Footprint Calculator	General Manager	Quarterly reviews, budget allocation for emissions reduction initiatives	Quarterly analysis of energy consumption and emissions, implementation of reduction strategies
ICLEI Carbon Calculator	General Manager	Monthly energy audits, annual emissions inventory	Continuous tracking of energy use, periodic evaluation and improvement of efficiency measures

2. STRATEGIES TO REDUCE AND REPORT

The following measures and actions have been or will be put in place to reduce energy use and carbon emissions associated with the operations and practices of Sea Darwin Sea Tiwi.

	Topic/Area	Emissions Reduction Actions	Staff Role Responsible	Timeline/Budget	Monitoring Process
Energy Efficiency	Buildings				
	Equipment	<ul style="list-style-type: none"> - All equipment is in working order and regularly serviced - Maintenance of air con and refrigeration systems completed by a licensed technician 	General Manager	Ongoing	- Equipment functionality is assessed monthly
	Lighting	<ul style="list-style-type: none"> - Energy efficient lighting installed - Lights turned off when not in use - Renewable energy sources used to power some lighting 	General Manager	Ongoing	- Lighting wattage is assessed quarterly
	Heating, cooling and ventilation	<ul style="list-style-type: none"> - Maximise natural ventilation (reduce need for air conditioning) 	General Manager	Ongoing	N/A
Energy Supply	Renewable energy	<ul style="list-style-type: none"> - Solar panels installed 	General Manager	Ongoing	- Monitored monthly and data recorded
Travel / Transport	Vehicles / transportation	<ul style="list-style-type: none"> - Routes and schedules are planned to minimise the distances travelled 	General Manager	Ongoing	<ul style="list-style-type: none"> - Vehicles are always serviced on time - Logbook to monitor fuel use, mileage and maintenance of vehicles

	Topic/Area	Emissions Reduction Actions	Staff Role Responsible	Timeline/Budget	Monitoring Process
	Employee travel to work initiatives	- Not Applicable	General Manager	Ongoing	N/A
	Client / customer travel initiatives	- Not Applicable	General Manager	Ongoing	- Annual review
Operational Areas	Partnership with climate friendly businesses and suppliers	- Partnership with other ECO Certified businesses	General Manager	Ongoing	- New partnerships are investigated regularly
	Suppliers				
	Green purchasing policy and initiatives	- Preference goods and services that have lower energy, waste and emissions associated with its operations, good and services	General Manager	Ongoing	- New environmentally friendly products and initiatives are investigated regularly
	Sourcing local products	- Purchasing local products to reduce transport emissions	General Manager	Ongoing	- New local sources are investigated regularly
	Efficient product packaging (recyclable, minimal cooling etc.)	- Single-use plastics and polystyrene are avoided	General Manager	Ongoing	- New local sources are investigated regularly

	Topic/Area	Emissions Reduction Actions	Staff Role Responsible	Timeline/Budget	Monitoring Process
	In-house				
	Office / admin initiatives	- All paper is recycled	General Manager	Ongoing	- Included in Operations Manual
	Marketing and promotional	- Promotional brochures printed on recycled paper	General Manager	Ongoing	- Not Applicable
	Emission Monitoring	Emissions assessment	- Emission sources are identified and assessed	General Manager	Ongoing
	Customers can purchase offsets for their tour	- Customers are offered the option at time of booking	General Manager	Ongoing	- Offset amounts are recorded

WATER: MEASUREMENT, MINIMISATION AND MANAGEMENT STRATEGIES

1. IDENTIFY AND MEASURE

SOURCES

Water usage for Sea Darwin Sea Tiwi is sourced from the mains supply, ensuring a consistent and reliable piped water source for all operational needs.

2. STRATEGIES TO MEASURE AND REPORT

	Topic/Area	Water Reduction Actions	Staff Role Responsible	Timeline/Budget	Monitoring Process
Water efficiency	Bathroom/toilets	- Water efficient systems are installed - Certified and maintained grey water treatment systems	General Manager	Ongoing	Ongoing maintenance and monitoring of water usage
	Appliances	- Regular maintenance program to replace leaking taps, valves and pipes	General Manager	Ongoing	Equipment functionality is assessed monthly
	Landscaping	- Use of local native plant with low water requirement	General Manager	Ongoing	Ongoing monitoring of water usage

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	Styrofoam contains, disposable cups, tissues, paper towels etc	Responsible disposal of all waste	Applying ‘reduce, reuse, recycle’ principles as much as possible Prohibit Styrofoam use Green supplier policy/preference Staff training and guest education	General Manager Crew Members Ground staff	Waste management policy
Organic/Food Waste	Food scraps. Kitchen/cooking waste.	Disposed of daily as compost to be used on garden.	Increased care to cook quantity of food appropriate to guest numbers.	General Manager Crew Members Ground staff	Waste management policy
	Unused food		Check food in storage before purchasing additional		
Paper & Cardboard	Used brochures, newspapers, cardboard (except waxed or glossy)	Reused when possible or recycled.	Guests are actively encouraged to give back publications for reuse. Electronic format available.	General Manager	Waste management policy
		Use only recycled materials for brochures	Encourage use of QR code to access information.	General Manager	Waste management policy
Plastic	Soft plastic packaging/wrappers from purchased goods	Collected and recycled through NTRS	Policy to preference suppliers with reduced packaging. Bottled water provided to customers is in compostable/ recyclable bottles.	General Manager	Waste management policy
	Packaging from guests	Recycling bins provided	Signage and educational information are provided to encourage waste reduction and recycling.	General Manager	Waste management policy

	What type of waste is it? Where does it come from?	Management, Re-using, Recycling and Disposal	Reduction Strategies	Role & Staff Member Responsible	Monitoring
Glass	Bottles, Jars	Collected and recycled	Signage and educational information are provided to encourage waste reduction and recycling. Guests are verbally advised onboard.	General Manager Crew Members Ground staff	Waste management policy
Chemicals	Batteries, fluorescent lightbulbs and electronics	Disposed responsibly through correct disposal programs	Continue to ensure there is minimal reliance on these items.	General Manager	Waste management policy
Metals	Cans	Recycling bins provided, collected and recycled through Containers 4 Change	Guests are verbally advised onboard.	General Manager Crew Members Ground staff	Waste management policy

Refer to [Planet Ark has a council directory](#) for help finding local recycling information to reduce the amount of waste going to landfill.

CLIMATE CHANGE RISK ASSESSMENT

Identified threats to Sea Darwin Sea Tiwi operations stemming from climate change and strategies or treatment implemented to lower our vulnerability to these risks.

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	Increased Frequency of Extreme Weather Events	Low	Implementing resilient building designs and materials to withstand extreme weather conditions.	General Manager responsible for implementing resilient building designs and materials. Collaborate with architects, engineers, and construction contractors.	Ongoing	Conduct regular inspections to ensure building resilience. Review building codes and standards for updates related to extreme weather resilience
Natural and Cultural Attractions	Degradation of Natural and Cultural Sites due to Climate Change	Low	Implementing measures to protect and preserve natural and cultural attractions, such as habitat restoration and cultural heritage conservation programs.	Partner with local Indigenous communities, conservation organisations, and government agencies.	Ongoing	Regular monitoring of natural and cultural sites for signs of degradation
Rising Sea Levels	Nesting beach for turtles disappears	Medium Risk Long term	Develop educational element of tours to inform audience	Partnership with Austurtle and Marine Adaption Network	Ongoing	Annual

ENVIRONMENTAL BEST PRACTICE INITIATIVES

Sea Darwin Sea Tiwi best practice initiatives currently being undertaken to avoid, mitigate and improve our environmental impacts.

Initiative Category	Environmental Initiative	Purpose	Role & Staff Member Responsible	Monitoring
Location	Waste Reduction and Recycling	To minimise waste generation and promote recycling practices to reduce environmental impact.	General Manager	Regular informal waste audits to measure the volume of waste generated and the proportion that is recycled.
Construction	Preferencing Local Businesses and Suppliers	To minimise environmental impact associated with transportation and promote local economic development.	General Manager	Tracking procurement of building materials to ensure compliance with the procurement policy emphasising support for local and Indigenous businesses, and compliance with sustainable building standards.
	Sustainable Building Materials	To reduce the environmental footprint of construction activities by using eco-friendly materials and practices.	General Manager	
Landscaping & gardening	Incorporating Local Experiences	To promote environmental sustainability and cultural preservation through immersive and educational tours.	General Manager	Guest feedback and participation levels in cultural experiences to assess the effectiveness of initiatives.
	Native Plant Landscaping	To enhance biodiversity and ecosystem resilience by planting native vegetation in landscaping projects.	General Manager	Assessing biodiversity and ecosystem health through surveys and observations of plant and animal species.

	Habitat Restoration and Conservation	To protect and restore habitats for native flora and fauna species, contributing to biodiversity conservation.	General Manager	Monitoring the success of habitat restoration projects through wildlife sightings, and ecological assessments.
Vehicle use (including cleaning and fuels)	Fuel Efficiency Improvements	To reduce greenhouse gas emissions and fuel consumption by implementing fuel-efficient driving practices and vehicle maintenance.	General Manager	Tracking fuel consumption and emissions data to measure improvements in fuel efficiency and environmental performance.
Noise, light & air pollution	Light Pollution Reduction	To minimise light pollution and preserve the natural night sky for turtle watching activities.	General Manager	Periodic assessments of light usage during specific activities, ensuring compliance with light minimisation protocols, and gathering feedback from visitors and conservation experts.
	Minimise Noise Emissions Minimise Vessel Emissions	To minimise noise and air pollution generated by our operations to protect the natural environment and ensure a peaceful experience for wildlife and local communities.	General Manager	Noise Policy Periodic noise level and data assessments, staff training on noise reduction practices, and collecting feedback from staff and visitors.
General	Environmental Education and Awareness	To promote environmental stewardship and sustainability practices among employees, customers, and the local community.	General Manager	Surveys and feedback mechanisms to assess the effectiveness of environmental education programs and initiatives.

ENVIRONMENTAL IMPROVEMENTS

To mitigate the environmental impacts associated with our operations, Sea Darwin Sea Tiwi will undertake a series of best practice initiatives over the next 12-24 months. These initiatives focus on reducing energy consumption, minimising GHG emissions, and promoting sustainability across all aspects of our sea and land tour operations. We will also establish monitoring mechanisms to assess the effectiveness of these initiatives. Additionally, we will use feedback from staff and customers to continuously improve our environmental management plans.

Proposed Initiatives

1. Transition to Renewable Energy

- **Initiative:** Investigate the feasibility and cost/benefit of installing solar panels at our office and operational facilities to generate renewable energy.
- **Monitoring:** Evaluate the potential amount of renewable energy that could be produced and compare it to our overall energy consumption to determine possible savings and environmental impact.

2. Upgrade to Energy-Efficient Equipment

- **Initiative:** Replace outdated machinery, appliances, and office equipment with energy-efficient models.
- **Monitoring:** Conduct regular energy audits to measure reductions in energy consumption and related emissions.

3. Implement Sustainable Purchasing Policies

- **Initiative:** Prioritise the procurement of locally made recycled, and sustainably sourced products.
- **Monitoring:** Maintain records of purchases to ensure compliance with sustainable procurement guidelines.

4. Enhance Waste Management Practices

- **Initiative:** Introduce comprehensive recycling programs and further reduce single-use plastics across all operations.
- **Monitoring:** Measure the volume of waste generated and the proportion that is recycled or composted.

5. Optimise Vehicle and Vessel Operations

- **Initiative:** Investigate more fuel-efficient practices for tour buses and vessels and ensure regular maintenance and eco-driving training for staff.
- **Monitoring:** Track fuel consumption and emissions from vehicles and vessels, aiming for a reduction in overall fuel usage.

6. Promote Eco-Friendly Travel Options

- **Initiative:** Encourage the use of public transport, cycling, or walking for employees' commuting and during tours when feasible.
- **Monitoring:** Survey employees and customers to gather data on their travel modes and evaluate changes over time.

7. Offset Carbon Emissions

- **Initiative:** Invest in carbon offset programs to compensate for unavoidable emissions, such as reforestation projects or renewable energy credits.
- **Monitoring:** Document the amount of emissions offset and verify the credibility of offset programs.

8. Reduce Paper Usage and Switch to Digital Media

- **Initiative:** Transition marketing and promotional materials to digital formats, minimising the use of printed materials.
- **Monitoring:** Track the volume of print media produced versus digital media utilised, aiming for a significant reduction in print media.

9. Conduct Environmental Awareness Training

- **Initiative:** Provide regular training sessions for employees on environmental best practices and sustainability goals.
- **Monitoring:** Assess employee participation and understanding through surveys and feedback forms.

10. Establish a Green Team

- **Initiative:** Form a dedicated team responsible for implementing and monitoring environmental initiatives.
- **Monitoring:** Hold regular meetings to review progress, set new goals, and report on outcomes to management.

Monitoring and Evaluation

To ensure the effectiveness of these initiatives, Sea Darwin Sea Tiwi will establish a comprehensive monitoring and evaluation framework:

Regular Reporting: Compile quarterly reports on energy consumption, waste management, and other key metrics.

Performance Indicators: Set specific, measurable targets for each initiative and track progress against these benchmarks.

Employee and Customer Feedback: Engage employees and customers in monitoring efforts through feedback mechanisms and involvement in the Green Team.

External Audits: Consider periodic third-party audits to validate our environmental performance and identify areas for improvement.

REPORTING PROGRAMS

By participating in environmental monitoring initiatives and adhering to reporting guidelines, Sea Darwin-Sea Tiwi can significantly contribute to the conservation and protection of marine and coastal environments around the Tiwi Islands. This not only enhances their commitment to sustainability but also supports broader environmental monitoring and protection efforts in the region.

For Sea Darwin-Sea Tiwi, several relevant environmental reporting initiatives and guidelines apply. These initiatives help monitor and protect marine and coastal environments, contribute to citizen science, and ensure compliance with environmental regulations.

The following are applicable programs and agencies Sea Darwin Sea Tiwi reports to for suspected infringements, incidents, and pollution:

1. **Atlas of Living Australia (ALA):**

- Sea Darwin-Sea Tiwi operators can contribute to the ALA by recording sightings of marine and coastal wildlife, helping to enhance biodiversity data.

2. **Citizen Science Programs:**

- **iNaturalist Australia:** Operators can document and share observations of marine species, contributing to biodiversity records.
- **Reef Check Australia:** Participation in reef health monitoring by reporting coral and marine life conditions during tours.

3. **Australian Marine Debris Initiative (AMD):**

- Reporting and documenting marine debris found during tours and participating in clean-up activities.

4. **The Great Barrier Reef Marine Park Authority's (GBRMPA) Eye on the Reef:**

- While primarily focused on the Great Barrier Reef, similar principles can be applied to marine environments around the Tiwi Islands. Operators can report sightings of marine life, reef health, and any unusual occurrences.

5. **BirdLife Australia's Birdata:**

- Recording sightings of seabirds and coastal bird species observed during tours, contributing to bird conservation efforts.

6. Reporting to Relevant Protected Area Managers or Agencies:

- **Northern Territory Parks and Wildlife Commission:** For reporting any incidents, pollution, or suspected infringements in protected marine and coastal areas around the Tiwi Islands.
- **Australian Maritime Safety Authority (AMSA):** For reporting marine pollution incidents, such as oil spills or hazardous substance releases.
- **Department of Environment, Parks and Water Security (DEPWS), Northern Territory:** For reporting environmental incidents and suspected infringements in marine parks and protected areas.
- **Australian Fisheries Management Authority (AFMA):** For reporting illegal fishing activities or infringements in protected marine areas.
- **Environmental Defenders Office (EDO):** For legal advice and reporting environmental infringements.

CUSTOMER AWARENESS

To ensure that our guests are aware of the potential impacts of climate change and the steps they can take to reduce carbon emissions and promote environmentally responsible lifestyles, Sea Darwin Sea Tiwi will implement a range of educational and engagement strategies. These initiatives will not only enhance guests' experiences but also foster a culture of environmental stewardship.

Educational and Engagement Strategies

1. Provide Educational Materials

- **Initiative:** Develop and distribute educational materials that inform guests about the importance of conserving water, energy, and managing waste.
- **Implementation:** Include these materials in welcome packets, display them in guest areas, and make them available digitally through our website and mobile apps.
- **Communication:** Use engaging and easy-to-understand language, supported by visuals and practical tips.

2. Highlight Sustainable Practices

- **Initiative:** Educate guests about our commitment to using environmentally conscious construction materials and sustainable practices in our operations.
- **Implementation:** Include information on our website, in tour brochures, and during guided tours.
- **Communication:** Showcase specific examples, such as the use of recycled materials in construction or solar energy installations and explain their environmental benefits.

4. Discourage Wildlife Feeding

- **Initiative:** Actively discourage guests from feeding sea life and wildlife to prevent negative ecological impacts.
- **Implementation:** Provide clear signage, verbal reminders from guides, and educational materials explaining why feeding wildlife is harmful.
- **Communication:** Highlight the importance of maintaining natural behaviours and ecosystems for wildlife.

5. Encourage Responsible Behaviour

- **Initiative:** Instruct guests on the importance of sticking to designated trails to minimise environmental disturbance.
- **Implementation:** Conduct briefings before tours, provide written guidelines, and use signage along trails and at key points.
- **Communication:** Emphasise how these actions help protect fragile ecosystems and wildlife habitats.

6. Facilitate Q&A Opportunities

- **Initiative:** Ensure guests have ample opportunity to ask questions about environmental impacts and our sustainability practices.
- **Implementation:** Schedule Q&A sessions with guides during tours, offer online chat support, and encourage questions via social media platforms.
- **Communication:** Promote a welcoming and informative atmosphere where guests feel comfortable seeking information.

7. Organise Interactive Workshops

- **Initiative:** Host workshops, such as the annual beach clean-up, and other activities that engage guests in hands-on learning about environmental conservation and sustainable living.
- **Implementation:** Offer activities such as beach clean-ups, tree planting, and workshops on reducing personal carbon footprints.
- **Communication:** Advertise these events through our website, social media, and during tours.

8. Use Digital Platforms for Engagement

- **Initiative:** Leverage digital platforms to educate and engage guests before, during, and after their visits.
- **Implementation:** Create a dedicated section on our website with resources on climate change, sustainable tourism practices, and our environmental initiatives.
- **Communication:** Use social media, email newsletters, and mobile apps to share tips, updates, and success stories.

Monitoring and Evaluation

To ensure the effectiveness of these strategies, Sea Darwin Sea Tiwi will implement a monitoring and evaluation framework:

- **Feedback Surveys:** Collect guest feedback through surveys to assess the impact of educational materials and engagement activities.
- **Participation Metrics:** Track participation rates in workshops, Q&A sessions, and carbon offset programs.
- **Website Analytics:** Monitor website traffic and engagement with online educational content.
- **Guide Reports:** Obtain regular reports from tour guides on guest interactions and common questions to identify areas for improvement.

CLIMATE CHANGE AWARENESS AND EDUCATION

[DELETE THE TEXT IN GREY] This section is only required for Climate Action Certification applicants. It should present a summary of measures and initiatives being taken to improve climate change awareness and education. This should include responsible marketing and promotional information, training and education, engagement with other operators, federal and state government and commitment to continuous improvement.

Topic / Area	Action(s)	Responsibility	Timeline / Budget	Monitoring and Review
Emissions assessment, carbon footprint, offset information	<ul style="list-style-type: none"> Information included on website and in marketing / promotional material Monitoring and update of information 	General Manager	Ongoing	Annual
Owner/manager and employee climate change awareness training	<ul style="list-style-type: none"> NT Representative on National Climate Change and Research Facility Keep abreast of key facts and statistics about local area and impacts of climate change 	General Manager	Ongoing	Annual
Client/customer climate change awareness initiatives	<ul style="list-style-type: none"> Encourage customers awareness and support of local climate change initiatives Voluntary contributions to local eco initiatives through tour ticket Carbon footprint calculation tools Link to carbon offset included on website 	General Manager	Ongoing	Annual
Business to business (B2B) initiatives	<ul style="list-style-type: none"> Linkages with ECO Certified or Climate Action accredited companies Member of Marine Adaption Network 	General Manager	Ongoing	Annual

Topic / Area	Action(s)	Responsibility	Timeline / Budget	Monitoring and Review
Government, state, national park or non-government organisation initiatives	<ul style="list-style-type: none"> Awareness and involvement with Government monitoring programs Compliance with National Park Climate Action Plans 	General Manager	Ongoing	Annual
Continuous improvement	<ul style="list-style-type: none"> Annual planning, assessment and review related to initiatives within Environmental Management Plan 	General Manager	Ongoing	Annual

APPENDIX: EMISSIONS CALCULATIONS

Monthly consumption of Fuel, Energy, Water and Waste is plotted on a graph to establish a Base Year of data. Estimates have been listed in the table below.

**See Sea Darwin Sea Tiwi Monthly Consumption Tracker*

WATER

Offices are co-shared with other tenants and water and energy consumption is not individually metered.

Building	Consumption/production per year	Consumption/production per guest	Sources	Monitoring Process
Dock 2 (Estimate of water used to clean vessels)	14 560 L	.29L per guest	<input checked="" type="checkbox"/> Piped (mains supply) <input type="checkbox"/> Water tank <input type="checkbox"/> Recycled <input type="checkbox"/> River/creek/stream <input type="checkbox"/> Groundwater Other: _____	Water usage is estimated at approx 35L per vessel wash.

ENERGY

	Consumption per year	Consumption per guest	Sources	Monitoring Process
Energy	10,104 kWh		<input checked="" type="checkbox"/> Grid (from provider) <input type="checkbox"/> Solar <input type="checkbox"/> Wind <input type="checkbox"/> Water Other: _____	Estimated energy usage.

FUEL

Area	Consumption/production Per year	Consumption/production Per guest	Sources	Monitoring Process
Fuel	51 800 L		<input checked="" type="checkbox"/> Diesel <input checked="" type="checkbox"/> Petrol <input type="checkbox"/> Biodiesel <input type="checkbox"/> Biofuel <input type="checkbox"/> LPG <input type="checkbox"/> E10 <input type="checkbox"/> Ethanol	- Staff monitor fuel usage through log books

WASTE

Area	Generation/production Per year	Generation/production Per guest	Sources	Monitoring Process
Waste	4160 L		<input checked="" type="checkbox"/> General <input type="checkbox"/> Paper <input type="checkbox"/> Glass <input type="checkbox"/> Plastic <input type="checkbox"/> Metal <input type="checkbox"/> Organic Other: _____	- Staff monitor waste disposal by tracking each disposal bin emptied and recording the measurements

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	t/Co2-e			- Emissions are plotted on a graph monthly for easy comparison *See Sea Darwin Sea Tiwi Monthly Consumption Tracker

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		
Food Waste		
Paper		
Cardboard		
Glass		
Hard Plastics		
Soft Plastics		
Metal		