

Emissions Reduction Plan

Nautical by Nature Mackay Pty Ltd

Business Overview

Nautical by Nature operates two core marine tourism experiences from Mackay: *Endless Days*, a 60-foot luxury catamaran for private and small-group charters, and *Purple Thunder*, a high-adrenaline jet boat ride. Our experiences span the Mackay Marina, Pioneer River, and surrounding islands. We are a locally owned and operated business with a strong commitment to sustainable tourism and environmental responsibility.

1. Current Emissions Sources

Our primary emissions sources include:

- **Fuel combustion** from vessel engines (diesel)
 - **Vehicle use** (Nissan Navara for logistics and towing)
 - **Generator use** (when solar is insufficient)
 - **Refrigeration and air conditioning** (onboard systems)
 - **Guest travel to/from departure locations**
 - **Waste generation** (packaging, catering, single-use items)
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2. Current Emissions Reduction Measures

We have already implemented several initiatives to reduce our carbon footprint:

- **Solar Power Integration**
Endless Days is equipped with solar panels and a high-efficiency alternator to reduce reliance on diesel generators while at anchor.
- **Efficient Trip Planning**
Our charters are carefully scheduled to minimise unnecessary fuel use. We also consolidate transfers and provisioning trips.
- **Eco-Friendly Products**
Cleaning supplies, food grade sanitisers, and catering packaging are eco-certified and biodegradable wherever possible.

- **Locally Sourced Produce**
Reduces emissions associated with transportation and supports the local economy.
 - **Paperless Operations**
All waivers, booking confirmations, passenger manifests and communication are conducted digitally whenever possible.
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3. Planned Emissions Reduction Initiatives

To further reduce emissions, we are committed to the following:

a) Vessel Upgrades and Maintenance

- Maintain engine efficiency with regular servicing
- Explore hybrid propulsion systems for future vessels

b) Shore Power Utilisation

- Where available, connect to marina shore power instead of using onboard generators while docked

c) Future Vessel Design

- Any proposed future vessel will be assessed for:
 - Low-emission hybrid propulsion
 - Lightweight materials for improved fuel efficiency
 - Fuel efficiency

d) Waste Minimisation

- Eliminate single-use plastics across all cruises
- Prioritise reusable or compostable options
- Onboard waste separation and recycling

e) Staff & Guest Engagement

- Provide training to staff on fuel-efficient navigation
 - Include sustainability briefings for guests during check-in or pre-cruise communication
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4. Offsetting & Monitoring

- Track fuel usage using engine logs and provisioning data
 - Regularly review sustainability policies and progress
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5. Long-Term Vision

Our long-term sustainability vision includes:

- Launching a glass bottom eco-tourism vessel designed with a low-emissions footprint
- Offering island-based nature tours with zero-emission options (e.g., kayaking, walking tours)
- Obtaining eco-tourism certification
- Advocating for marine conservation in the Mackay region and contributing to regional placemaking strategies that prioritise sustainable growth