2023 WINNER
PRESIDENT'S
BUSINESS EXCELLENCE
AWARD

Fiji
BUSINESS
EXCELLENCE
AWARDS

MANAGEMENT SYSTEM CERTIFICATION
DNV
ISO 9001 · ISO 14001
ISO 45001

BLUEPRINT FOR ECO-RESILIENCE

The Sustainability Journey at Fiji Ports

FIJI PORTS

FIJI PORTS CORPORATION PTE LTD

The Smart, Green Gateway for Trade in the Pacific region

CORPORATE PROFILE

IMPLEMENTING SUSTAINABILITY POLICIES

ENABLING OUR COMMITMENT TO SUSTAINABILITY

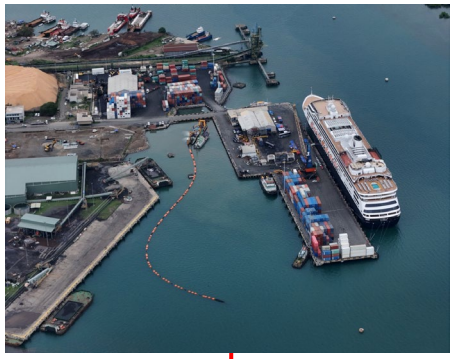
SUSTAINABLE DEVELOPMENT & OPERATIONS

FOSTERING A CULTURE OF SUSTAINABILITY

CHALLENGES & OUR RESPONSE

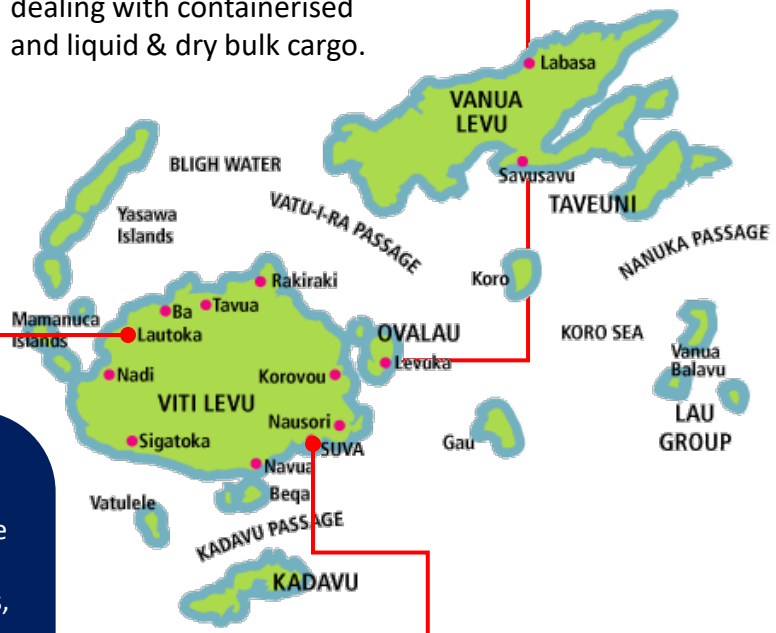
CORPORATE PROFILE

ABOUT FIJI SEA PORTS



PORT OF LAUTOKA

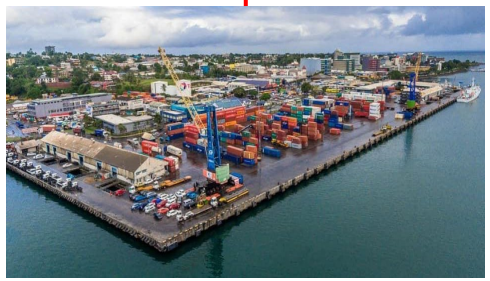
Has an 11m deep berth, handles 40% of Fiji's total export and import, primarily dealing with containerised and liquid & dry bulk cargo.



PORT OF LEVUKA

A fishing port with a 12m deep berth, it handles a minor 0.22% of the total cargo, primarily dealing with frozen fish for a government-owned tuna canner and some liquid bulk.

The Fiji Ports Corporation Limited (FPCL), originally established as the Ports Authority Fiji (PAF) in 1975, underwent two significant reforms, first in 1998 dividing it into the Maritime and Ports Authority of Fiji and Ports Terminal Limited, and then in 2005, resulting in its current form as FPCL, with the goal of streamlining and improving efficiency in Fiji's port operations.



PORT OF SUVA

This port has a 12m deep berth, and is Fiji's primary port, handling 60% of all cargo, with a majority being containerised, followed by liquid & dry bulk, and a minor part non-containerised.

As a Port Management Company, Fiji Ports also oversees the operations and International Ship and Port Facility Security (ISPS) requirements for Fiji's secondary ports

Wairiki

Vuda

Malau

IMPLEMENTING SUSTAINABILITY POLICIES

FIJI PORTS

5 YEAR STRATEGIC PLAN

FPCL's 5-Year Strategic Plan (2019-2023) includes a focused **Environmental and Sustainability Strategic Perspective**, one of six key areas shaping our roadmap for the future.

SP 1
GOVERNANCE

SP 2
INFRASTRUCTURE

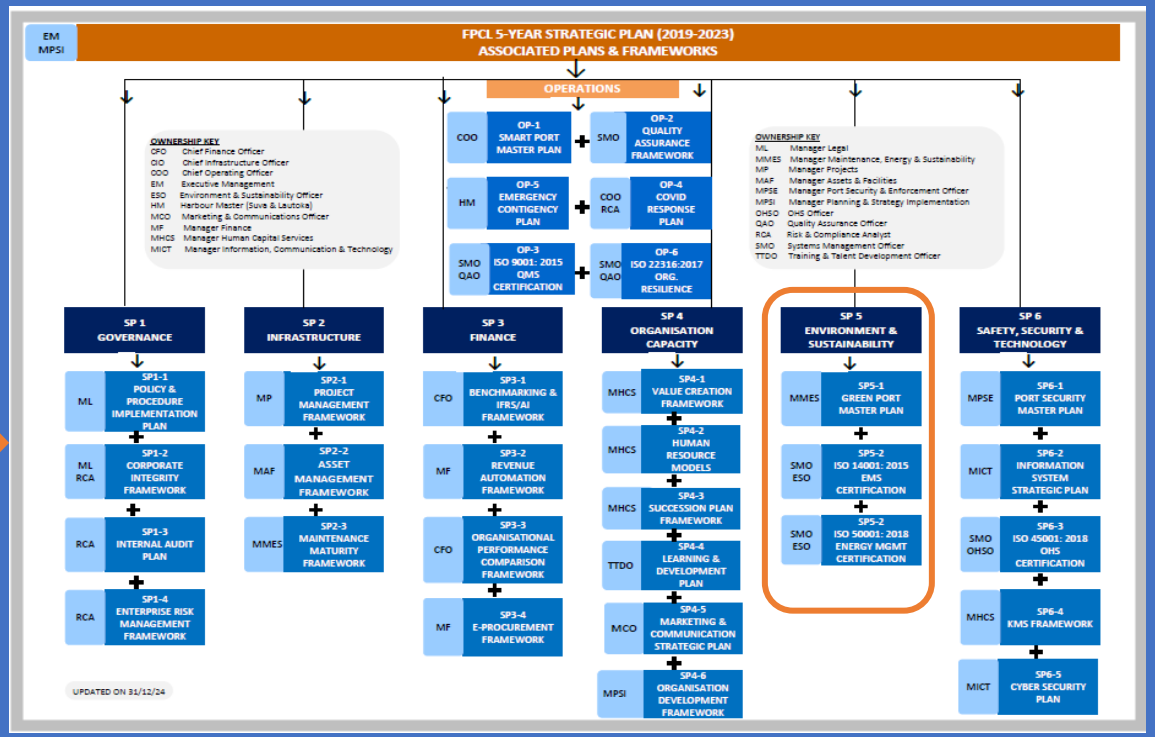
SP 4
ORGANISATION CAPACITY

SP 3
FINANCE

SP 5
ENVIRONMENT & SUSTAINABILITY

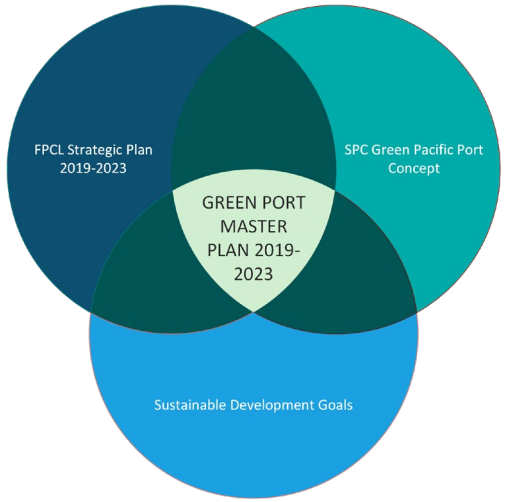
SP 6
SAFETY, SECURITY & TECHNOLOGY

Our 31 associated Plans and frameworks are informed by our Environmental and Sustainability Strategic Perspective, providing the mechanisms to implement best practices in these crucial areas.



FPCL GREEN PORT MASTER PLAN

- The Green Port Master Plan 2019 is FPCL's dedicated roadmap for reducing environmental impact from 2019 to 2023.
- While independent, this master plan strategically aligns with FPCL's 2019-2023 Strategic Plan.
- The plan is pivotal in FPCL's commitment to achieving multiple Sustainable Development Goals (SDGs).



FIJI PORTS CORPORATION LIMITED

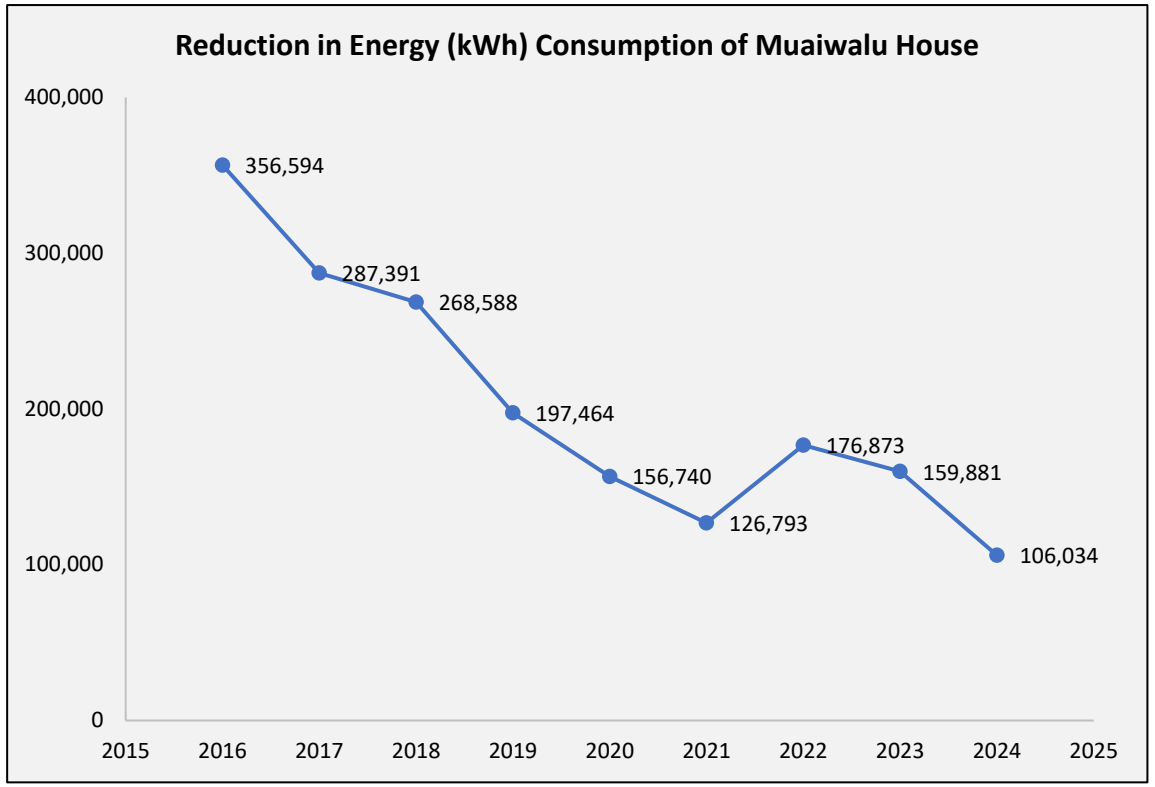
GREEN PORT MASTER PLAN

TRANSFORMING STRATERGY INTO ACTION

Dashboards have been implemented to track our strategic sustainability objectives, providing real-time insights and analytics on the progress and impact of each strategic initiative outlined in the plan.

FPCL GREEN PORT DASHBOARD - FEBRUARY 2025

4,546 Mwh FPCL's Average Energy Consumption per Annum	"An aspiring Smart-Green Gateway in the Pacific"	**1,512 t CO_2-e** FPCL's Average Carbon Footprint
10% Average Reduction of Energy Consumption over the last 9 years	**$12.3M** Total Invested	**10%** Average Carbon Footprint Reduction over the last 5 years
29 Projects In-Progress	**45** Key Projects Initiated	**16** Projects Completed



PORT PROCUREMENT SUSTAINABILITY GUIDELINES

VENDOR REQUIREMENTS

- Vendors must submit sustainability information about their products and services, which will factor into the assessment of quotes and supplier selection.

INTERNAL PROCEDURES

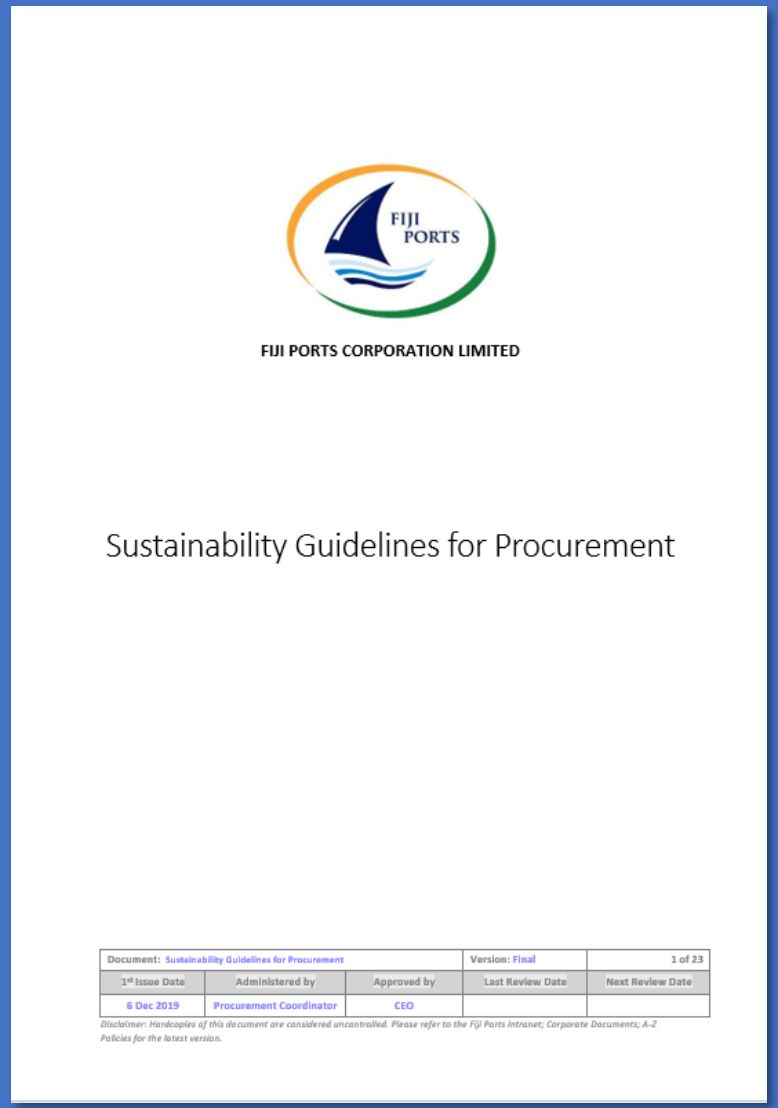
- Staff members initiating logistics requisitions (LRs) are mandated to complete an accompanying sustainability checklist.

TENDER PROCESS

- In tender-based purchases, bidders must detail the environmental impact of their proposals as part of the evaluation criteria.

SPECIFIC GUIDELINES FOR PROCUREMENT CATEGORIES

- Civil Works
- Office Supplies and Stationery
- IT Equipment
- Vehicles
- Maintenance Supplies


FIJI PORTS CORPORATION LIMITED

Sustainability Guidelines for Procurement

Document: Sustainability Guidelines for Procurement			Version: Final	1 of 23
1st Issue Date	Administered by	Approved by	Last Review Date	Next Review Date
6 Dec 2019	Procurement Coordinator	CEO		

Disclaimer: Hardcopies of this document are considered uncontrolled. Please refer to the Fiji Ports Intranet; Corporate Documents; A-Z Policies for the latest version.

INTERGRATED MANAGEMENT SYSTEM CERTIFICATIONS

Management Systems for **5 Key Areas** are fully Integrated and International Recognition has been Achieved through **Certification.**

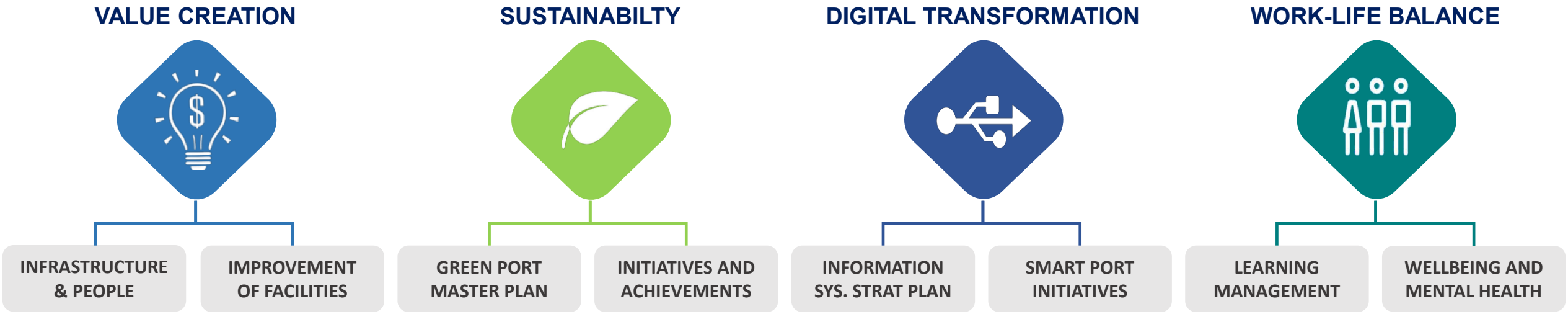
=

ISO 22316 Organizational Resilience Management System

ENABLING OUR COMMITMENT TO SUSTAINABILITY

KEY FOCUS AREAS

FPCL'S focus on 4 Key Areas for Charting a Smart, Green Pathway – introduced in 2022 and continuing onwards.



A. Resilient

B. Clean

C. Green

SUSTAINABLE DEVELOPMENT & OPERATIONS

ENERGY AUDIT 2016

Fiji Ports is **first Pacific Port** to conduct **Level 1 Energy Audit** in **2016**, carried out by 8020 Green Consultant, and commissioned by the Secretariat of the Pacific Community (SPC).

Identification

6 cost saving projects was identified and quantified:

1. Directly power tenants from main source and not sub-metering.
2. Install power factor correction to the reefer energy supply.
3. Upgrade internal lighting to LED.
4. Upgrade Port Yard/Security lighting with LED (follow a lighting design).
5. Install solar system on roofs with minimum shading.
6. Replace office air conditioning system.

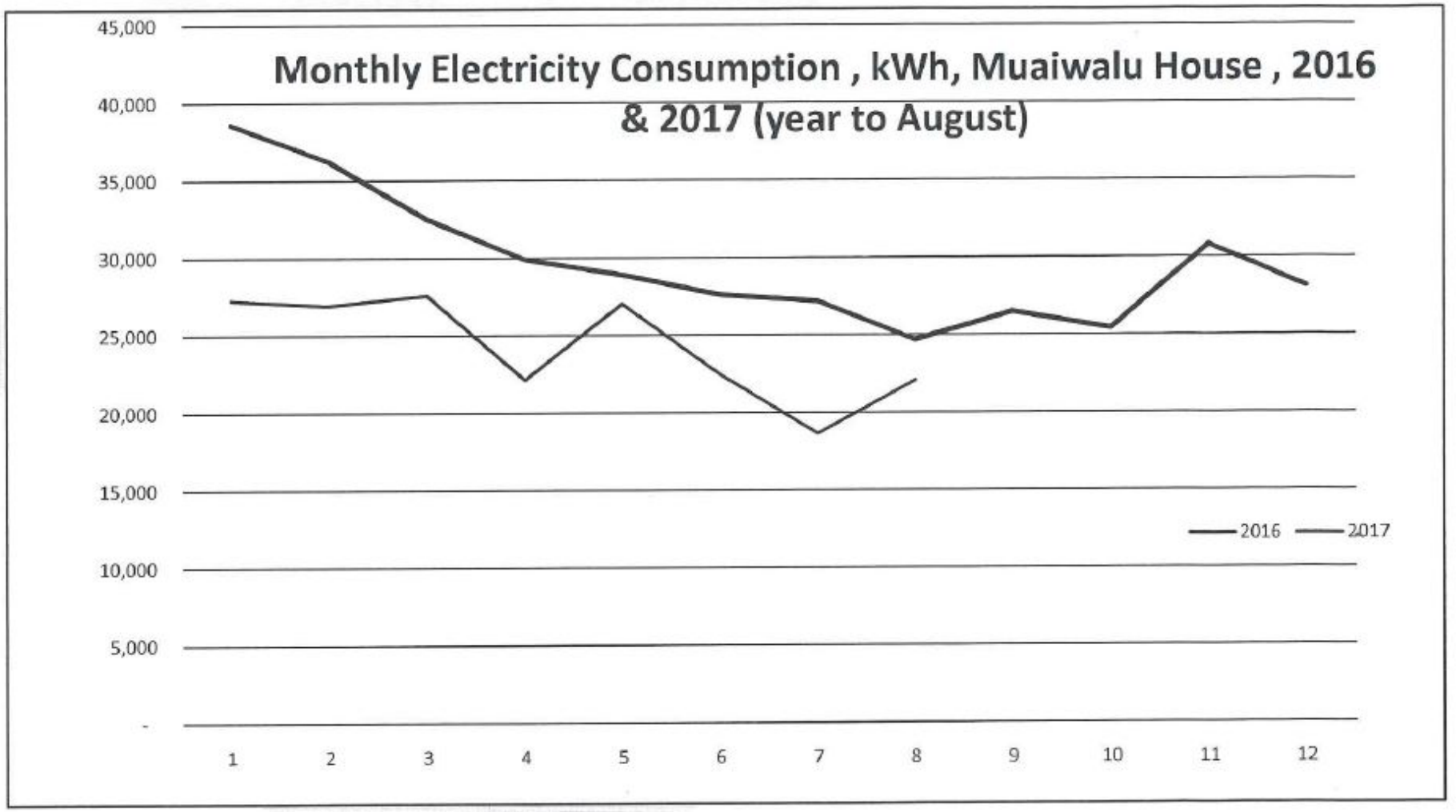
Action Items

1. Upgrade internal lighting to LED.
2. Meet with EFL to discuss possibility of installing solar PV systems.
3. Power factor correction is being discussed with EFL to have it rectified.
4. Upgrade of Yard lighting is in design process, with trial to begin in December 2017.

Implementation

1. In 2017 electricity consumption dropped at Muaiwalu House by 21% compared with 2016.
2. Lighting was upgraded to LED over the period December 2016 – March 2017.
3. Forecast of savings: $31k & 32 tons of GHG emissions.
4. Actual cost of Light Upgrades: under $23k
5. LED lights have already paid for themselves.
6. Lights have a 3-year warranty.

POSITIVE OUTCOME



QUICK WINS & LONG-TERM STRATEGIES

To ***reduce*** energy consumption, along with any associated greenhouse gas emission reductions.

Energy Policy

- To realize economic and environment benefits by optimising and continually improving the performance over which FPCL has direct control and that of the Terminal Operator(s) and other working on behalf of FPCL.
- Improvement Target: reduce energy usage by 30% by 2022 compared with 2016.

Energy Management Plan

- FPCL uses energy in the form of electricity, diesel and petrol energy plays an important role in powering and enabling our operations.
- Enhance organisational performance through improved energy management, leading to business improvement:
  - Profitable operations
  - Care for local environment
  - Greenhouse gas abatement
- Target for 2018: reduce overall energy usage by at least 5%.
- FPTL to achieve a savings of at least 5%.

Data Management

- Monthly Report showing consumption, cost, GHG.
- A customized spreadsheet to be used.
- Include fuel usage for pilot boat, incinerator, generator and office vehicle fuel cards.

DEVELOPMENT OF GREEN PORT MASTER PLAN 2019

- This plan has been prepared to describe the approach FPCL will implement from 2019 to 2025 to reduce its environmental impact.
- This masterplan is independent of but aligns with FPCL's Strategic Plan 2019 to 2025 and will assist FPCL in contributing to achieving several Sustainable Development Goals (SDGs).

Development of the Green Port Master Plan (2019-2023) & Procurement Sustainability Guidelines

GREEN PORT – INITIATIVES

Green Port initiatives were implemented to operate more **Efficiently** and with greater **Sustainability** in line with global trends to **Optimise** business outcomes.

INITIATIVES

2016

First Pacific Port to conduct Energy Audit & Tracker

2017

Upgrading of facilities with energy-efficient LED lighting (ongoing)

2018

Development & Implementation of: Energy Policy, Energy Mgmt Plan & Data Management

2019

Development & Implementation of Green Port Master Plan

2020

Establishment of Green & Recreational Space Endeavors

Installation of an Electric Incinerator to meet international requirements

GREEN PORT – INITIATIVES…cont'd

Green Port initiatives were implemented to operate more **Efficiently** and with greater **Sustainability** in line with global trends to **Optimise** business outcomes.

INITIATIVES

2021

Establishment Carbon Neutral Facility

Addition of a new modern & environment-friendly Pilot Boat

Solar PV Systems

2022

Aligning to the Pacific Ports Recognition Framework & Indicators (2030 – 2050)

2023

Environmentally Friendly Diesel Incinerator

Addition of a new modern & environment-friendly Pilot Boat at Port of Lautoka

GREEN PORT – INITIATIVES…cont'd

Green Port initiatives were implemented to operate more **Efficiently** and with greater **Sustainability** in line with global trends to **Optimise** business outcomes.

INITIATIVES

2023

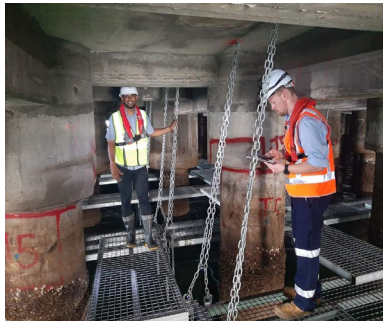
Wharf Rehabilitation Project - GTS installation Queens Wharf

2024

Port of Lautoka Yard 3 and Yard 4 Projects - Lighting Upgrades

Addition of a new Pollution Boat for environmental monitoring

2025 & Onwards



Wharf Rehabilitation Project - GTS installation Kings Wharf

Inter-Island Passenger Terminal Facility (will be 100% solar powered building with rainwater harvesting)

Wharf Rehabilitation Project - GTS installation Local Wharf

GREEN PORT – ACHIEVEMENTS

Green Port initiatives were implemented to operate more **Efficiently** and with greater **Sustainability** in line with global trends to **Optimise** business outcomes.

ACHIEVEMENTS

Achievement of ISO Certifications

ISO 9001: 2015 QMS

ISO 45001: 2018 OHS

ISO 14001: 2015 EMS

ISO 22316: 2017 Org. Resilience

ISO 50001: 2018 Energy Mgmt System

Recipient of Akiyama Award for Climate & Energy under Green Port Initiatives

(2022 & 2023)

AKIYAMA AWARD
CLIMATE & ENERGY
Fiji Ports
Green Port Initiative

Recipient of Green Award for Protection of the Environment presented by Green Scouts Movement Fiji Islands (2016)

SCOUTS
Creating a Better World

Recipient of President's Fiji Business Excellence Award for Green Sustainability (2023)

RENEWABLE ENERGY AND CARBON FOOTPRINT REDUCTION

SOLAR PV SYSTEMS

Commissioned Projects:

- Muaiwalu 2 Jetty: 22kW, 15.4 tCO_2e saved annually.
- Muaiwalu 2 Car Park: 6kW, 3.9 tCO_2e saved annually.

In-progress Projects:

- Muaiwalu House: 28kW, estimated 19.6 tCO_2e to be saved annually.
- Muaiwalu 2 Waiting Shed: 22kW, estimated 19.2 tCO_2e, and $11,100 to be saved annually.

SOLAR LIGHTING

Completed: 20 units across FPCL facilities.

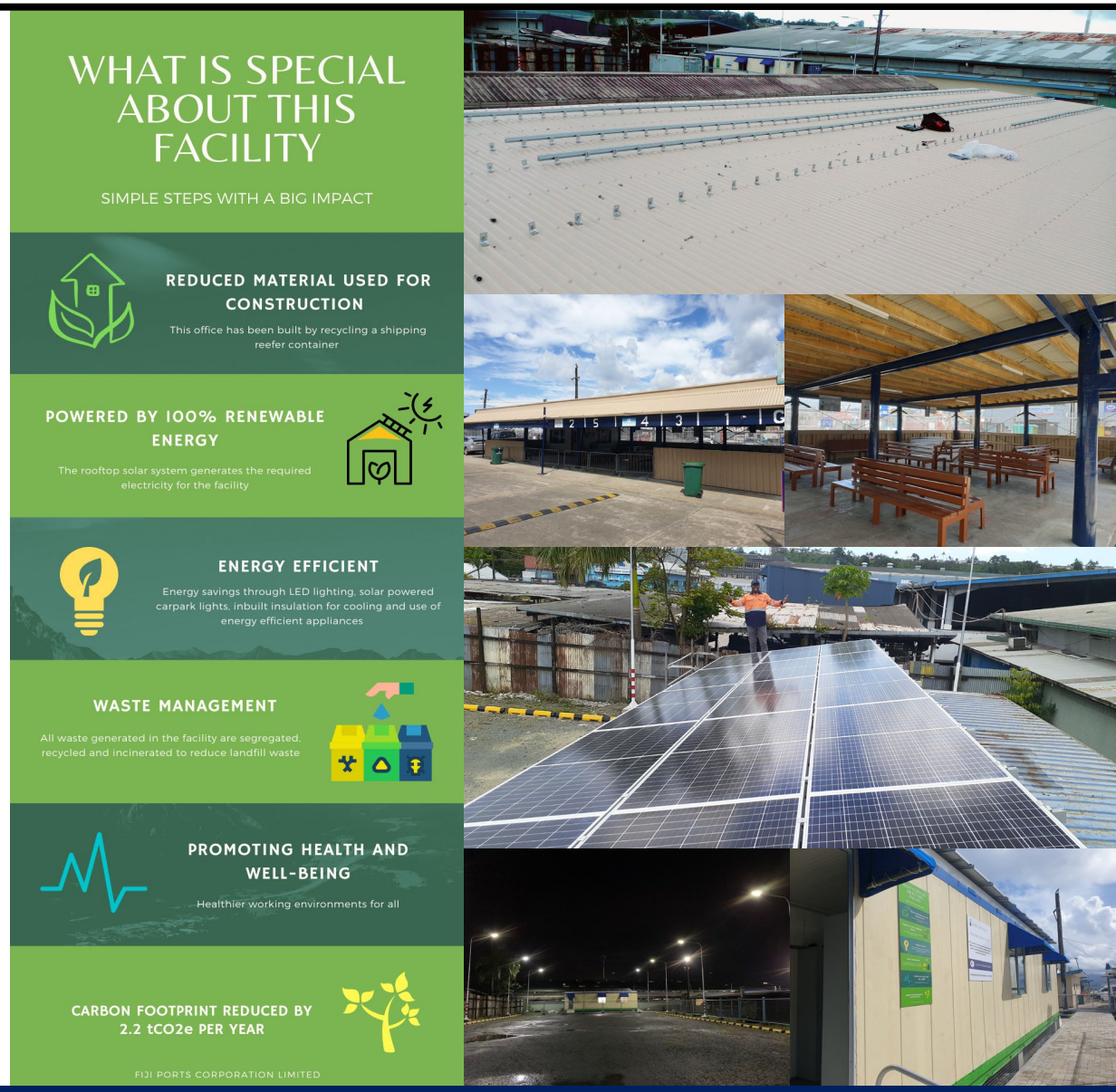
In progress: Additional 22 units.

NET ZERO AND ENERGY-EFFICIENT FACILITIES

Muaiwalu 2 Renewable Energy Carpark: 100% renewable, $1,600 and 2.2 tCO_2e saved annually.

Total Annual Carbon Footprint Reduction

60.3 tCO_2e



OTHER ENVIRONMENTAL AND SUSTAINABILITY INITIATIVES

RENEWABLE ENERGY & EFFICIENCY MEASURES

- **Electric Incinerator at Suva Port**: Transition from diesel to electric incinerator to reduce carbon emissions.
- **Use of Inverter Type Air Conditioning**: Anticipated 30-45% energy savings.
- **Energy Star-rated Appliances**: Furthering energy efficiency.

WASTE MANAGEMENT

- **Ship Waste Management**: Compliant with MSAF regulations for marine environment protection.

GREEN SPACES AND GUIDELINES

- **Green Space at Muaiwalu 2 Carpark**: Part of FPCL's Green Port Initiative.
- **Incorporation of NSW Green Port Guidelines**: For upcoming major projects like Lautoka Yard 4 and Muaiwalu 2 Interisland Terminal.

CONSTRUCTION AND INFRASTRUCTURE PROJECTS

- **Lautoka Port Container Yard 3**: Completed with environmental benefits and operational efficiency.
- **Lautoka Port Container Yard 4**: Planned construction with sustainable practices incorporated in the design.
- **Draunibota Clinker Discharge Facility**: Relocation from Kings Wharf for operational improvements.

FACILITY UPGRADES

- **Computerised Maintenance Management System (CMMS)**: For efficient operational management.
- **Facility Energy-Efficiency Upgrades**: Including sensor lighting and power factor correction.

OLD DIESEL INCINERATOR

ELECTRIC INCINERATOR AT SUVA PORT

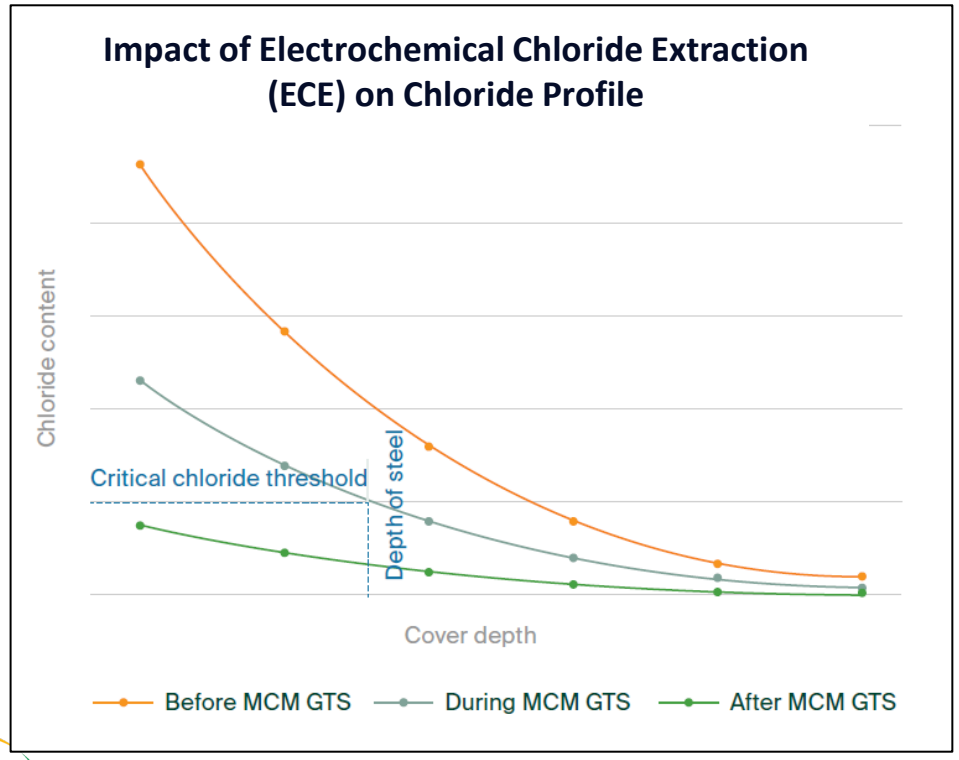
GREEN SPACE AT MUAIWALU 2 CARPARK

BEFORE

AFTER

SUSTAINABLE INFRATUCTURE REHABILITATION - Green Shield

Environmental Benefits: Fiji Ports Corporation Limited is committed to implementing sustainable practices during the project. This includes adopting eco-friendly construction materials, implementing erosion control measures, and minimizing environmental impact. By integrating sustainable approaches, the project contributes to environmental conservation, protecting the marine ecosystem, and ensuring the long-term sustainability of the surrounding environment.



- MCM GreenTech Shield (GTS) reduces a project's carbon footprint in excess of 50% when compared to the generated CO_2 emissions of traditional Impressed Current Cathodic Protection
- MCM GTS eliminates approximately 72.5kg of CO_2 emissions for every tonne of concrete removal avoided
- An additional 3.75kg of CO_2 emissions is eliminated from the project's lifecycle for every man hour of labour saved

BUILDING SUSTAINABILITY INITIATIVES IN PROJECTS

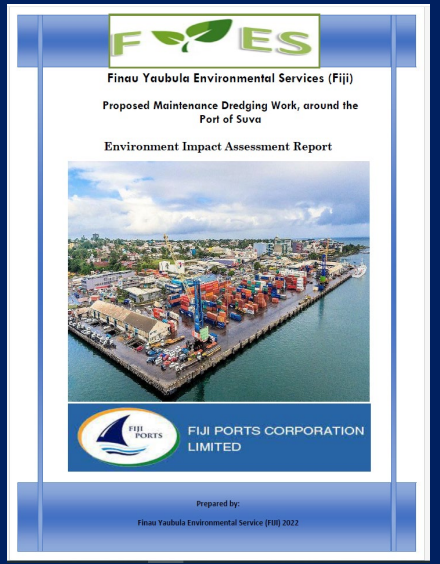
PROPOSED MUAIWALU 2 INTER-ISLAND PASSENGER TERMINAL (*currently in Detail Design Phase*)

This project aims to achieve:

- Ease the current traffic congestion at Tofua Street in Walu Bay by providing a drive through carpark and dedicated loading and offloading area.
- Modernize and promote local interisland shipping via an airconditioned waiting lounge with cafeteria, toilet facility, ATM's and shops.
- Extend the life of the wharf asset by diverting the traffic load to the drive through carpark.
- Contribute to FPCL's corporate social responsibility by providing more than 200 comfortable seats in an air-conditioned waiting area for the travelling public.
- **Reinforce the Green Port Initiative launched by FPCL in 2019 by implementing the terminal building as a 100% solar powered building with rainwater harvesting.**

MAINTENANCE DREDGING PROJECT (*Port of Suva*)

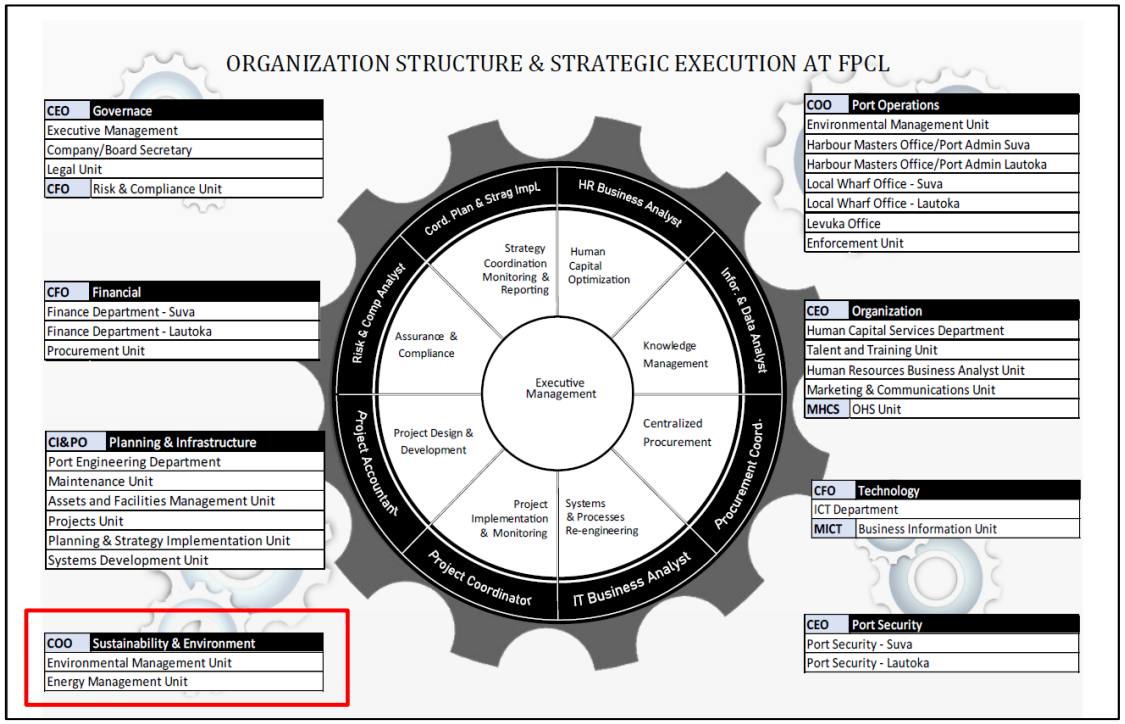
FPCL has introduced **Environment Impact Assessments** (EIAs) and dredging activity monitoring to maintenance projects, ***promoting a safe environment and sustainable development aspects to minimize the environmental impact likely to be caused by harbour dredging.***



FOSTERING A CULTURE OF SUSTAINABILITY

A SUSTAINABLE CULTURE STARTS AT THE TOP

A **Sustainability & Environment** component is explicitly incorporated within the Chief Operating Officer's purview, reinforcing the importance of these elements across all departments and units.

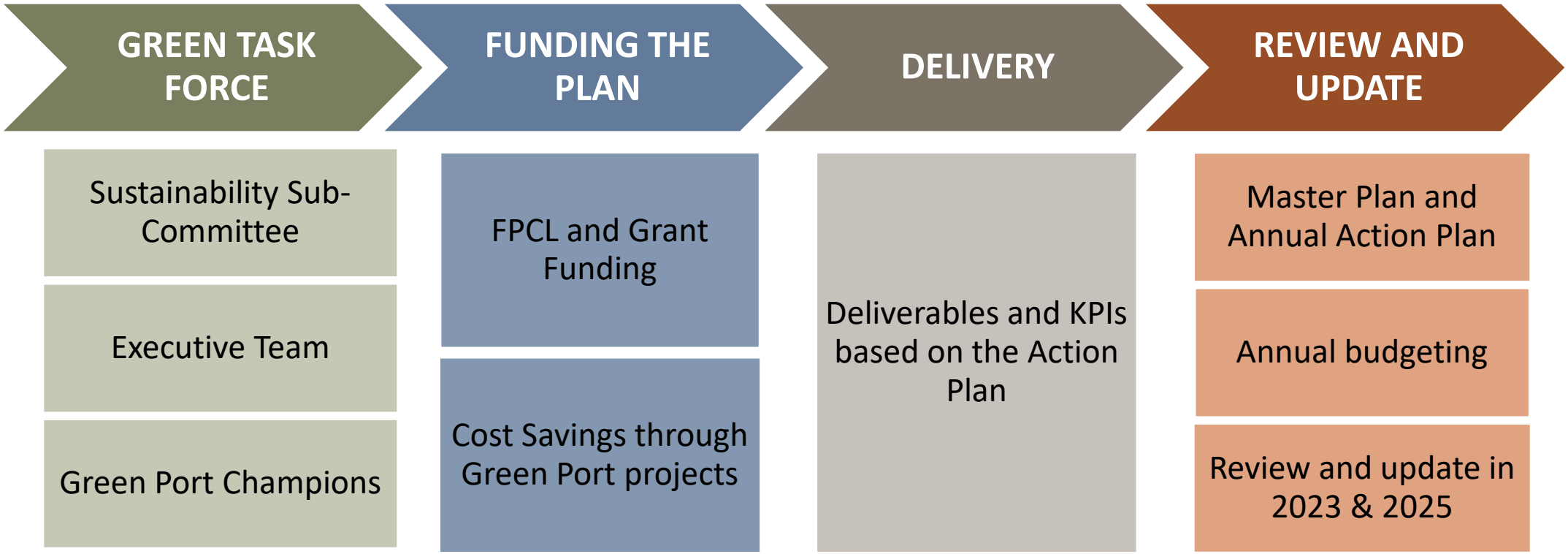


ACHIEVEMENTS

Recipient of Akiyama Award for Climate & Energy under Green Port Initiatives (2022 & 2023)

Recipient of Green Award for Protection of the Environment presented by Green Scouts Movement Fiji Islands (2016)

GREEN PORT MASTER PLAN - Implementation Methodology



FPCL'S COMMUNITY-LEVEL SUSTAINABILITY INITIATIVES

CLEANUP CAMPAIGNS

- Engaged in maintenance and clean-up efforts at CWM (Colonial War Memorial Hospital).
- Led environmental clean-up activities in Lautoka.
- Participated in World Ocean Day clean-up campaigns in 2019, 2021, 2022, 2023 & 2024.

ENVIRONMENTAL CONSERVATION

- Conducted mangrove planting events to help protect and restore marine ecosystems.
- Implemented a forestry re-plantation program to contribute to sustainable land management.

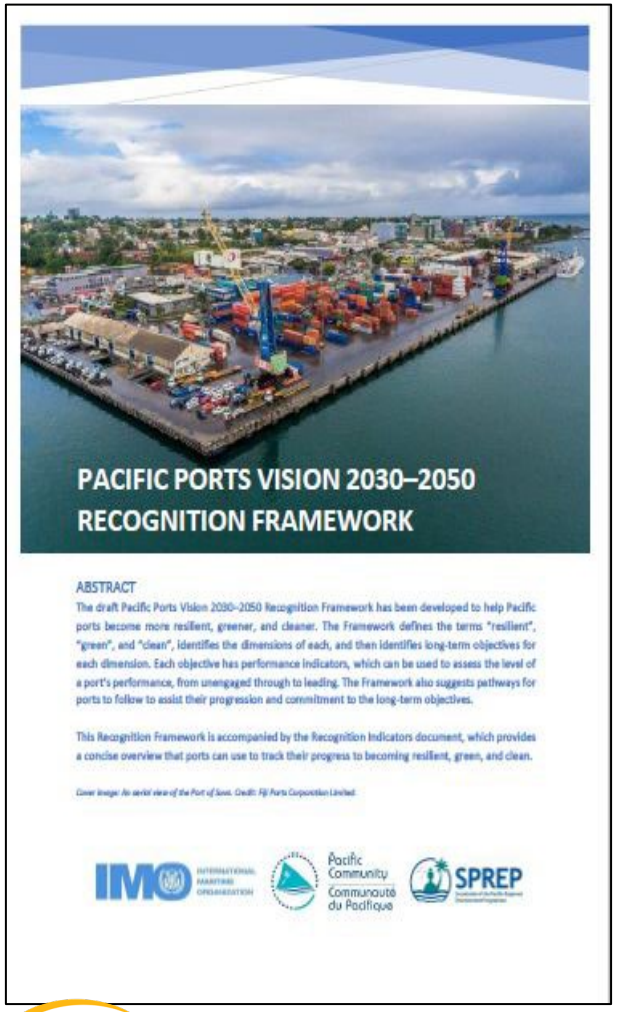
CHALLENGES & OUR RESPONSE

CHALLENGES FACED BY SMALL PORTS

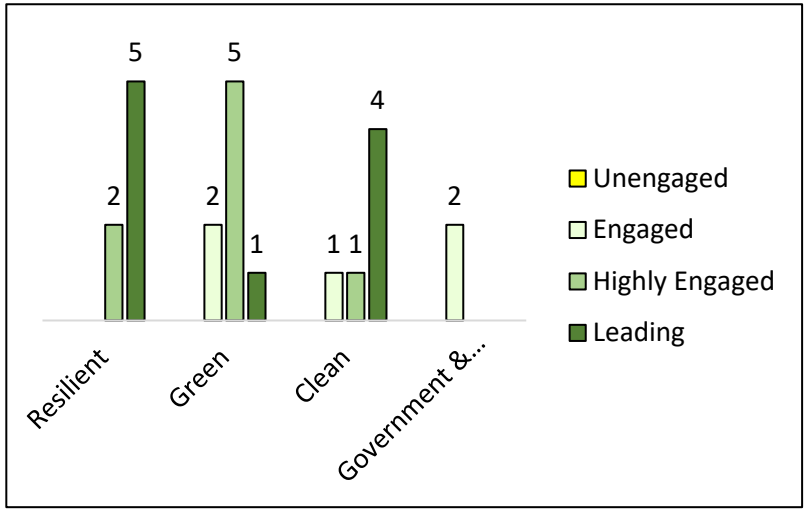
Economic Constraints	• Small ports often face financial limitations that significantly hinder their capacity to develop, maintain, and modernise infrastructure, thereby limiting the investment into Environmental and Sustainable Initiatives.
Need for Sustainable Development	• Balancing sustainable growth requirements (i.e., environmental conservation, social responsibility, innovation, and climate change mitigation) with economic development presents a multifaceted challenge for small ports.
Resource & Technological Alignment	• Small ports grapple with aligning progress with available resources, balancing the need to adopt advanced technologies and effectively use existing infrastructure.
Competitive Pressure from Larger Ports	• Small ports face stiff competition from larger ports which benefit from economies of scale, superior connectivity, and well-established relationships, making it difficult to attract and retain clients.
Bureaucratic Challenges & Regulatory Compliance	• Navigating complex regulatory frameworks, bureaucratic procedures and ensuring compliance with safety, security, and environmental regulations pose considerable administrative and financial challenges for small ports.
Human Resource Limitations	• Constraints in human resources, including limited staffing and lack of skilled labour, can impede the effectiveness of small ports moving towards sustainability.

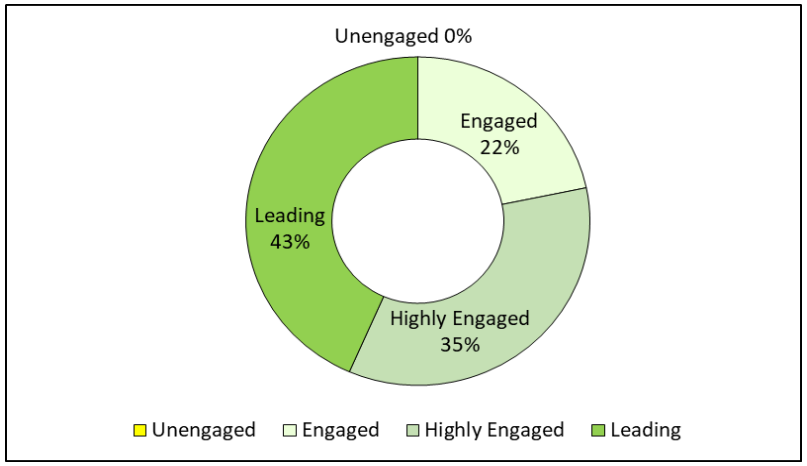
PACIFIC PORTS VISION 2030-2050 RECOGNITION FRAMEWORK

FPCL has benchmarked its sustainability efforts against the recently launched Pacific Ports Vision 2030-2050 Recognition Framework, **reinforcing our commitment to environmental stewardship as a solution to contemporary challenges**.



	PACIFIC PORTS VISION 2030-2050 RECOGNITION INDICATORS	
	Indicator	**FPCL's Status**
	RESILIENT	
1	Climate change adaptation	Leading
2	Disasters and emergency response	Leading
3	Cybersecurity	Highly Engaged
4	Support for economic development and operational efficiency	Leading
5	Compliance with international standards: Security	Leading
6	Compliance with international standards: Safety	Leading
7	Compliance with international standards: Data exchange	Highly Engaged
	GREEN	
	Climate Change Action	
8	Carbon neutrality	Engaged
9	Leadership	Highly Engaged
10	Measurement and monitoring	Highly Engaged
11	Execution	Leading
	Energy Efficiency	
12	Awareness	Highly Engaged
13	Execution	Highly Engaged
	Incentivizing and enabling green shipping	
14	Engagement	Engaged
15	Implementation	Highly Engaged
	CLEAN	
16	Water quality	Engaged
17	Marine spills	Leading
18	Waste management	Leading
19	Community and neighbourhood relations	Leading
20	Dredging and coastal hydrology	Highly Engaged
21	Environmental engagement and compliance	Leading
	GOVERNMENT & STAKEHOLDERS	
22	Government	Engaged
23	Stakeholders	Engaged





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