

PORT OF GALEOTA ENVIRONMENTAL REPORT 2024



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Introduction

The Port of Galeota, located at the southeastern tip of Trinidad, plays a vital role in supporting the energy and maritime sectors through its offshore supply, cargo handling, and port-related services. As a gateway for marine logistics operations in the southern Caribbean, the port interfaces with ecologically sensitive coastal and marine environments, including mangrove wetlands and nearshore fisheries. In light of this, sustainable port development is a critical priority, particularly as climate change, biodiversity loss, and regulatory expectations continue to evolve.

This Environmental Report has been prepared to document the Port of Galeota's environmental performance, compliance measures, and sustainability efforts, aligned with the requirements of the EcoPorts Port Environmental Review System (PERS) and the ISO 14001 Environmental Management System (EMS) framework. The purpose of this report is to provide a transparent account of the port's environmental objectives, actions, and continuous improvement strategies while ensuring alignment with national regulations and the UN Sustainable Development Goals (SDGs). It also serves to support the port's journey toward Green Port certification by demonstrating environmental accountability and responsible operational practices.

Key Elements of the Environmental Report

This report is structured around the following key components:

- **Port Profile and Environmental Context:** A summary of the port's location, activities, and environmental setting, including nearby sensitive ecosystems.
- **Environmental Governance and Compliance:** Overview of applicable environmental legislation.
- **Environmental Objectives and Targets:** A table of key environmental objectives aligned with ISO 14001 and PERS criteria, linked to actions and SDG goals.
- **Initiatives and Projects:** Descriptions of ongoing and completed projects to improve environmental performance, such as LED lighting upgrades, climate change vulnerability , and waste management enhancements.
- **Stakeholder Engagement and Awareness:** Summary of communication and outreach with internal staff, regulatory agencies, and community stakeholders.

1.0 Port Profile

1.0.1 Port Description

This section provides a comprehensive summary of the key characteristics of the Port of Galeota (PoG), offering essential background information on its operational scope, geographic location, and governance structure.

The Port of Galeota is an International Ship and Port Facility Security (ISPS) Code-certified multi-user sufferance wharf situated at the southeastern tip of Trinidad, near the village of Guayaguayare. Strategically positioned to serve the offshore energy sector, PoG plays a vital role in supporting exploration and production activities.

As a critical logistics hub for the energy industry, the port facilitates the mobilization of resources, personnel, and equipment for upstream oil and gas projects in the region. Its infrastructure and services are tailored to meet the specialized needs of exploration and production companies, ensuring efficient and secure maritime operations.



Figure 1: Aerial View of Port of Galeota

The Port, which is managed by National Energy, comprises:

- Five berths - Berths 1, 2, 3 with lengths overall of 104m, 147m and 104m respectively and Berths 4 and 5 which comprise of LOA 75m and 65m respectively.
- 200m diameter turning basin
- Warehousing
- Water Supply
- Bunkering
- Laydown Area
- Office Space

1.0.2 Port Information

Table 1: Port of Galeota Characteristics

Port Location	Latitude 10°15'N - Longitude 61°38'W
Time Zone	Atlantic Standard Time (GMT-4)
Anchorage Position	Latitude 10°02'N - Longitude 61°6.1' W
Length of Channel	960 m
Width of Channel	80 m
Diameter of Turning Basin	200 m
Number of Berths	5
Maximum Vessel Draft	5.5 m
Maximum Deadweight Tonnage	3,300 GRT

Figure 2: General (Berth) Layout of Port of Galeota



1.1 Environmental Sustainability Policy Statement

The Port of Galeota (PoG) is committed to integrating sustainability into its operations, ensuring that port activities support both economic growth and environmental stewardship. As a vital offshore logistics hub for Trinidad and Tobago's energy sector, PoG prioritizes the safe, efficient, and responsible management of its port area while actively working to minimize its environmental impacts. Guided by the principles of climate resilience, resource efficiency, and ecosystem protection, the port is advancing initiatives in renewable energy, circular economy practices, and marine conservation. Additionally, PoG supports the national energy transition, facilitating responsible industrial activity while promoting lower-carbon and sustainable port operations. Through strategic partnerships and continuous improvement, PoG aims to create a resilient, future-ready port that balances economic progress with environmental and social responsibility, ensuring long-term benefits for its stakeholders and the surrounding communities.

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ENVIRONMENTAL SUSTAINABILITY POLICY STATEMENT

National Energy is fully committed to the sustainable development of the environment in which it operates through the integration of sustainability principles into all aspects of its operations. This policy statement is guided by the Company's Core Values, National Energy's Environmental Standards and Practices, and shall address the following objectives:

- Comply with local and international environmental legislation and environmental best practices to protect the environment in which we operate.
- Employ management systems and procedures specifically designed to improve efficiency of operations, address customer needs, and prevent activities and conditions that pose a threat to human health, safety, and the environment through communication, education, proactive leadership, and compliance.
- Engage in environmental stewardship focusing on sustainable development, conservation of our natural resources, pollution prevention and waste minimization associated with environmental aspects and drive continuous improvement.
- Mitigate climate change by reducing greenhouse gas emissions from our operations through investments in low emissions technology, decarbonization, energy efficiency, renewable energy, and carbon capture initiatives.
- Incorporate Sustainable Development Goals, established by the UN's 2030 Agenda, together with Environment, Social and Governance (ESG) considerations into our strategic planning, especially those identified as material to National Energy's operations, showing related indicators and targets.
- Integrate environmental sustainability considerations into all aspects of National Energy's planning, development, operations and emergency response.
- Communicate to all our stakeholders on our environmental performance and participate in the advancement and promotion of environmental solutions wherever possible, in partnership with government and other organizations.
- Engage employees to raise awareness of environmental sustainability issues

National Energy is committed to the implementation of an environmental sustainability framework to deliver on the commitments made within this Policy, as our goal is to be recognised as an industry leader in sustainable energy development.

Date

4/4/2022

Signature

DocuSigned by:

ADDRESS@NATIONAL ENERGY
President

Figure 3: Signed Environmental Policy of National Energy Corporation of Trinidad and Tobago

1.2 Environmental Aspects and Legal Requirements

The Port of Galeota is governed by multiple local regulations and international conventions. Legal and other requirements are taken into account when assessing and managing risks. To ensure compliance with legislative mandates, a series of monitoring programs have been established. The tables below outline key national environmental laws and international conventions relevant to the port's activities

Table 2: National Environmental Laws and Regulations

National Law/Regulation	Objective	Governing Body
Environmental Management Act Chapter 35:05 (2000)	Ensures the protection, conservation, enhancement and wise use of the environment of Trinidad and Tobago.	Environmental Management Authority (EMA)
Certificates of Environmental Clearance (CEC) Rules (2001)	Assesses potential impacts to the receiving environment, which may arise out of proposed new or significantly modified activities	Environmental Management Authority (EMA)
Water Pollution Rules (2019)	Controls discharges into water bodies to safeguard water quality and marine resources.	Environmental Management Authority (EMA)
Air Pollution Rules (2014)	Aims to improve overall air quality by managing the emission levels of specific pollutants known to cause harm	Environmental Management Authority (EMA)
Noise Pollution Rules (2001)	Aims to regulate noise levels from various sources, ensuring that they do not exceed permissible limits.	Environmental Management Authority (EMA)
Waste Management Rules (2021)	Provides guidelines for the safe handling, storage, and disposal of hazardous and non-hazardous waste	Environmental Management Authority (EMA)

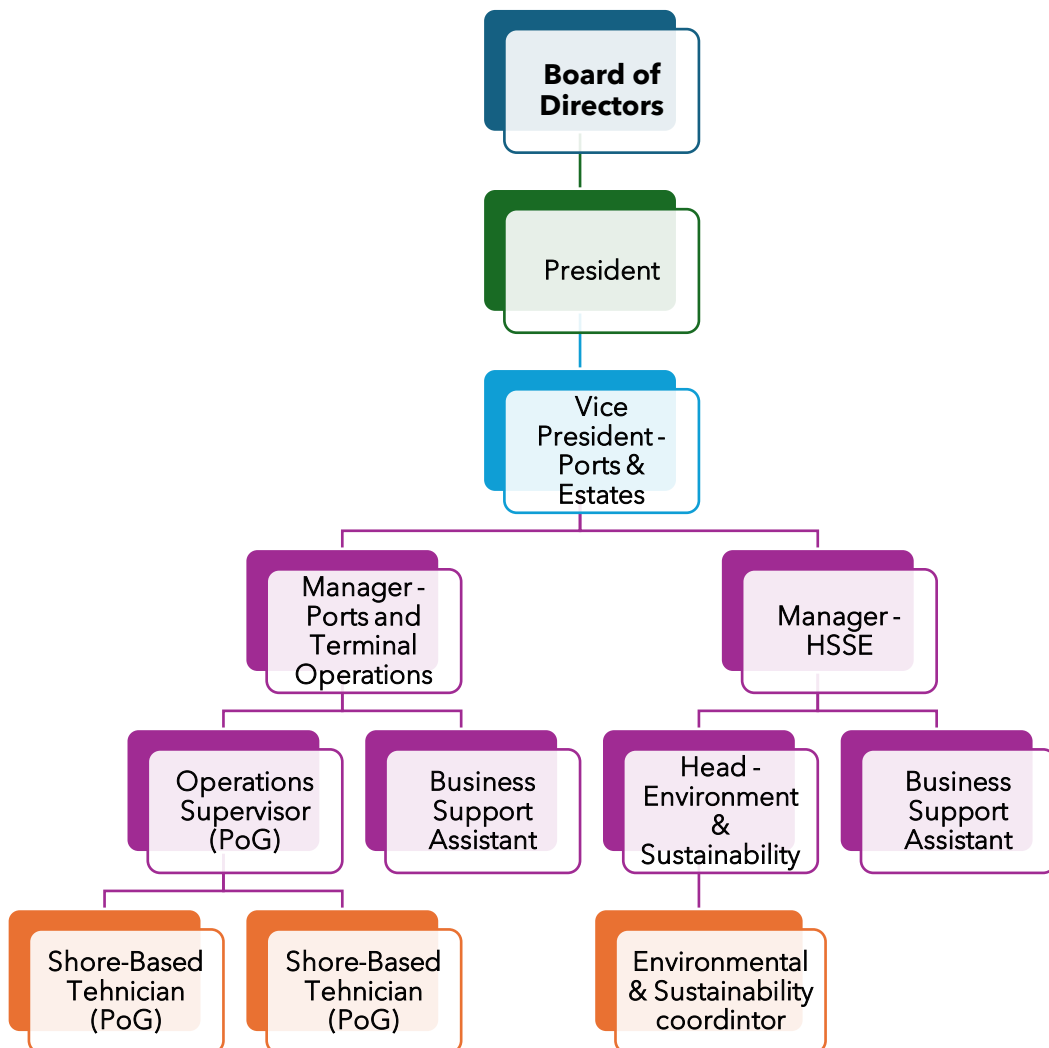
Table 3: Key International Conventions

International Convention	Objective
MARPOL (International Convention for the Prevention of Pollution from Ships) (1973)	Aims to prevent both accidental and operational pollution from ships
United Nations Convention on the Law of the Sea (UNCLOS) (1982)	Establishes a comprehensive legal framework for the use and conservation of the world's oceans and their resources.
UN Convention on Biological Diversity (1992)	To conserve biological diversity promote the sustainable use of its components, and ensure fair and equitable sharing of benefits arising from genetic resources.
International Convention for the Control and Management of Ships' Ballast Water and Sediments (2004)	To prevent, minimize, and ultimately eliminate the transfer of harmful aquatic organisms and pathogens through the control and management of ships' ballast water and sediments.
UN Framework Convention on Climate Change (UNFCCC) (1992)	To strengthen the global response to the threat of climate change by keeping the global temperature rise this century well below 2 degrees Celsius above pre-industrial levels
United Nations Sustainable Development Goals (SDGs)	To create a better and more sustainable future for all by addressing seventeen (17) global challenges such as climate change and environmental degradation

1.3 Responsibilities and Resources

The Port of Galeota (PoG) is committed to environmental stewardship by integrating sustainability into its operations through a structured environmental management framework. From executive leadership to operations personnel, each role contributes to effective environmental governance, ensuring that PoG aligns with industry best practices and global sustainability goals while supporting offshore energy activities.

PORT OF GALEOTA ENVIRONMENTAL MANAGEMENT ORGANIZATIONAL CHART



1.4 Conformity Review

The conformity assessment process at the Port of Galeota ensures alignment with internal environmental commitments and relevant regulations. Conducted annually, it identifies compliance gaps and areas for improvement. The review tracks progress toward environmental goals using Key Performance Indicators (KPIs) to measure how effectively the port minimises environmental impacts and supports continuous improvement in operations.

Table 4: Environmental Policy Conformity Review

ASPECT	OBJECTIVE	PERFORMANCE INDICATOR	RESULTS	CONCLUSION
Water Pollution	Ensure and maintain water quality by reducing effluent discharge	Compliance with Water Pollution Rules	Water quality parameters within regulatory limits	Continue monitoring practices
Air Quality	Ensure and maintain levels of particulate matter and other air pollutants	Compliance with Air Quality Standards	Emission levels within regulatory limits	Continue monitoring practices
Decarbonization	Reduce Carbon Emissions	Tied to Trinidad and Tobago's Nationally Determined Contributions to the Paris Agreement (2015)	Creation of multiple projects to decrease port emissions and incorporation of decarbonization into company strategy	Continue executing decarbonization, low emissions and renewable energy projects
Energy Efficiency	Reducing consumption of non-renewable energy and reducing overall energy usage	Energy consumption per year	Change out of lighting to energy efficient technologies	Introduce additional energy saving initiatives to meet target
Port Waste	Reduce waste consumption at	Tonnes of waste recycled per month	Segregated waste	Operationalize installed Solar

ASPECT	OBJECTIVE	PERFORMANCE INDICATOR	RESULTS	CONCLUSION
	port and improve recycling habits			Powered Recycling Hub
Stakeholder Engagement	Building of relationships with both internal and external stakeholders through various methods of engagement	Engagement Sessions	Engagement Sessions monthly, quarterly and on an as needed basis	Continue holding engagement sessions with stakeholders and improve on feedback mechanisms and community engagement exercises
Environmental Sustainability	Consider and implement Sustainable Development Goals (SDGs) material to National Energy's operations	Inclusion of SDGs in all planning, development and operational goals	Alignment of company operations with SDGs	Continue to align all operational and strategic goals with material SDGs
Employee Engagement	Raise Awareness of Environmental Issues	Number of Engagement Sessions	Engagement Sessions held per quarter on environmental and sustainability and Health & Safety topics material to the organization	Continue to hold engagement sessions

1.4.1 Review of Legal Compliance

National Energy ensures compliance with the following key national regulations:

- **Certificate of Environmental Clearance (CEC) Rules (2001):** All projects and significant activities at the port have been screened and certified as per the CEC requirements. No major violations or non-compliance have been recorded.
- **Water Pollution Rules (2019):** The port's wastewater discharge complies with the Water Pollution Rules, and regular monitoring ensures that no harmful pollutants exceed permissible limits.
- **Air Pollution Rules (2014):** The port's emissions are monitored in accordance with the Air Pollution Rules.
- **Waste Management Rules (2021):** National Energy complies with the Waste Management Rules, maintaining proper documentation and disposal of both hazardous and non-hazardous waste. Improvements in waste segregation have been identified as a priority as we advance.

1.5. Stakeholder Engagement

At National Energy, stakeholder engagement is a critical process that underpins the sustainability of our port operations, including those at the Port of Galeota. By fostering and maintaining constructive relationships with both internal and external stakeholders, we ensure that needs are addressed, and that pertinent environmental and social information is transparently disclosed. This engagement is essential for aligning our operations with community expectations, enhancing our environmental stewardship, and ensuring ongoing regulatory compliance.

The Port of Galeota’s **Sustainability Council** and **User Operations Committees** serve as key platforms for structured engagement, dialogue, and decision-making. These forums facilitate continuous communication among stakeholders, enabling National Energy to incorporate stakeholder insights into operational planning and strategic sustainability initiatives. They also provide opportunities to proactively identify and mitigate potential environmental and operational risks, ensuring a collaborative approach to sustainable development and operational excellence.

Table 5 defines the key stakeholder groups at the Port of Galeota, identifies their needs and expectations, and details how the Port currently engages with each group.

Table 5 : Needs/Expectations of Stakeholders and Current Engagement Methods




STAKEHOLDER	NEEDS/EXPECTATIONS	ENGAGEMENT METHODS
Regulators/Statutory Bodies	Compliant, well-managed, sustainable and safe operations Protection and enhancement of biodiversity and mitigation of negative environmental impacts	Meetings, Permit Applications, Reporting when required
Local Community	Safe and sustainable operations Compliant and well-managed environmental impacts including noise, air quality, light pollution and water quality Employment Opportunities Transparency and Educational Awareness	Meetings, Engagement Sessions, Phone Calls, Emails, Public Website
Employees	Safe Working Environment	Emails, HSSE Awareness Sessions, Staff Meetings, Phone Calls, Internal Newsletter






STAKEHOLDER	NEEDS/EXPECTATIONS	ENGAGEMENT METHODS
Port Tenants	Safe and secure working environment Efficient infrastructure and access	Emails, Regular Meetings, Phone Calls, Sustainability Council Group, Operations Committee, Public Website
Vessel Operators	Safe navigable access to the port. Suitable wharf side infrastructure Waste reception facilities Potable water supply	Port Operational Guidelines, Emails, Phone Calls, Public Website
Contractors	Safe Working Environment	Emails, Meetings, Phone Calls, Contractor Guidelines


1.6 Environmental Objectives, Actions and Projects

This section outlines the environmental objectives established for the Port of Galeota in alignment with National Energy’s sustainability commitments and relevant environmental regulations. These objectives serve as strategic targets to guide the port’s efforts in reducing its environmental footprint and promoting responsible operations. Each objective is supported by specific actions designed to drive measurable progress, ensure regulatory compliance, and foster continual improvement. The actions reflect input from key stakeholders and are reviewed periodically to remain responsive to emerging environmental challenges and operational realities.

Table 6 :Environmental Objectives, Actions, and Projects for Port of Galeota

UN SUSTAINABLE DEVELOPMENT GOALS	Environmental Objective	Actions	Projects/Initiatives
  	<p>Reduce greenhouse gas (GHG) emissions and improve air quality</p> <p>Improve air quality</p>	<ul style="list-style-type: none"> Conduct emissions inventory for Scope 1 and 2 sources. Implement energy efficiency measures in port operations. Explore alternative energy sources. 	<ul style="list-style-type: none"> Carbon Footprint Assessment: Annual GHG emissions reporting. Renewable Energy Integration: Feasibility study for solar/wind power Energy Efficiency Upgrades: Retrofitting lighting, HVAC systems, and equipment with energy-efficient alternatives. Implementation of LED Lighting Upgrades to enhance energy efficiency of Port Facilities. Acquisition and use of trikes as a low carbon mode of transport.

UN SUSTAINABLE DEVELOPMENT GOALS	Environmental Objective	Actions	Projects/Initiatives
		<ul style="list-style-type: none"> Monitor and control emissions from port equipment and vessels. Establish emission reduction protocols for ships at berth. 	<ul style="list-style-type: none"> Shore to Power Project: Conduct Feasibility study on Shore to Power at Port of Galeota Air Quality Monitoring Program: Installation of real-time air quality sensors.
	Enhance water quality and marine protection	<ul style="list-style-type: none"> Strengthen spill response and wastewater management. Monitor coastal and marine biodiversity. 	<ul style="list-style-type: none"> Emergency & Oil Spill Response Plan: Training and drills for spill mitigation.
	Optimize waste management and circular economy initiatives	<ul style="list-style-type: none"> Implement waste segregation and recycling Reduce single-use plastics within port operations. Promote responsible waste disposal for vessels. 	<ul style="list-style-type: none"> Waste Management Program: Implementation of Solar Powered Recycling Hub and waste tracking system for recyclable waste streams at Port of Galeota. Develop circularity initiatives for recycled material
	Improve biodiversity conservation and natural habitat protection	<ul style="list-style-type: none"> Restore and conserve adjacent mangrove ecosystems. Conduct biodiversity impact assessments. 	<ul style="list-style-type: none"> Mangrove Restoration Project: Collaboration with Institute of Marine Affairs for Integrated Coastal Ecosystem geared towards restoration and conservation.
	Enhance climate resilience and adaptation	<ul style="list-style-type: none"> Assess vulnerability to climate risks (e.g., sea-level rise, extreme weather). - Implement adaptation measures for infrastructure and operations. 	<ul style="list-style-type: none"> Conduct a Climate Vulnerability Study: Identify risks and propose mitigation strategies. Flood Mitigation Infrastructure: Installation of drainage improvements and barriers.
	Improve environmental awareness and stakeholder engagement	<ul style="list-style-type: none"> Conduct training and awareness sessions for staff and port users. Engage with Port Users and stakeholders on through the 	<ul style="list-style-type: none"> Launch of a Green Port Awareness Campaign: Workshops, signage, and employee engagement programs. Sustainability Council Engagement

UN SUSTAINABLE DEVELOPMENT GOALS	Environmental Objective	Actions	Projects/Initiatives
	Improve regulatory compliance	<p>Port of Galeota Sustainability Council on sustainability initiatives.</p> <ul style="list-style-type: none"> Develop and formalize an Environmental Management System (EMS) 	<ul style="list-style-type: none"> Implement Integrated ISO 14001 /45001 Environmental Management System

Conclusion

This report underscores National Energy's ongoing commitment to responsible port development and our role in advancing Trinidad and Tobago's sustainability goals. We remain focused on operational excellence, environmental integrity, and stakeholder collaboration as we pursue a more resilient and sustainable maritime future.

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