



PNG CARBON COMPLIANCE INFORMATION HUB

Strategic Alignment with GCF Priorities

Papua New Guinea's Carbon Compliance Information Hub signifies an innovative digital infrastructure designed to directly support the nation's climate objectives and to align with the Green Climate Fund's strategic priorities for 2024-2027. This integrated system of platforms and databases exemplifies PNG's dedication to a paradigm shift toward low-emission, climate-resilient development pathways, whilst ensuring transparent and accountable forest governance that complies with international standards for REDD+ implementation and results-based payments.

Strategic Alignment with GCF 2024-2027 Framework

Country Ownership and NDC Implementation

The Hub directly facilitates Papua New Guinea's implementation of Nationally Determined Contributions (NDCs), National Adaptation Plans (NAPs), and Long-term Climate Strategies (LTS) through comprehensive monitoring and reporting functionalities. This system exemplifies the GCF's fundamental principle of country ownership by designating PNG government agencies, notably the Climate Change and Development Authority (CCDA), as the primary coordinators, while simultaneously strengthening national institutional capacity for climate action.

Forest and Land Use Strategic Programming Direction

The Hub aligns with the Green Climate Fund's (GCF) priorities concerning forests and land use by endorsing sustainable forest management initiatives, enhancing capabilities for REDD+ results-based payments, and fostering climate innovation through pioneering business models and impactful technologies. The system's real-time deforestation monitoring and comprehensive carbon registry directly support GCF's goal of unlocking the potential of the Warsaw Framework for REDD+.



Primary Objectives Supporting GCF Investment Priorities

1. REDD+ Readiness and Results-Based Payments Infrastructure

The Hub's National Carbon Registry System and Safeguards Information Management System establish the fundamental infrastructure necessary for REDD+ Phase 1, which involves developing national strategies and building capacity, as well as Phase 3, which encompasses results-based payments contingent upon the verification of emission reductions. The comprehensive tracking of Papua New Guinea's emissions, removals, and REDD+ activities across national, jurisdictional, and project levels facilitates credible participation in the global carbon markets while preventing double counting.

GCF Relevance: The Green Climate Fund's (GCF) updated REDD+ results-based payments policy offers USD 8 per tonne, a 60% increase compared to previous payments. Papua New Guinea's robust monitoring and verification systems position the country to access substantial climate finance.

2. Climate Innovation and Technology Transfer

The PNG Earth Map Analysis System, powered by Google Earth Engine, exemplifies the innovative technology and business model that GCF aims to support for enhanced land management. The integration of satellite-based monitoring with ground-truth verification illustrates scalable solutions that can be replicated across developing countries.

3. Enhanced Access and Direct Implementation Capacity

The Hub endorses the Green Climate Fund's (GCF) commitment to substantially enhancing accessibility for developing nations and doubling the number of Direct Access Entities designated with approved GCF funding. By fortifying national institutional capacity for transparent forest monitoring and carbon accounting, the system facilitates Papua New Guinea's satisfaction of GCF's fiduciary standards and environmental safeguards necessary for direct access funding.

4. Social and Environmental Safeguards Compliance

The Safeguards Information Management System (SIS) and Public Information Portal explicitly address the environmental and social safeguards, Gender Policy, and Indigenous Peoples' Policy requirements of the Green Climate Fund (GCF). Through the systematic collection, management, and public reporting of measures taken to address and respect REDD+ safeguards, Papua New Guinea affirms its commitment to substantive engagement with local communities, including Indigenous Peoples, regarded as the custodians of the world's forests.

Transformative Impact and Results Framework Alignment

Climate Mitigation Results

The Hub enables PNG to demonstrate measurable emission reductions through:

- Real-time deforestation monitoring to prevent forest loss across Papua New Guinea's 36 million hectares of forest cover.
- Enhancement of carbon stocks through sustainable forest management and restoration activities.
- Establishment of baseline data for credible measurement, reporting, and verification (MRV) systems.

Adaptation Co-benefits

The system supports climate resilience through:

- Early warning capabilities for fire and deforestation events.
- Ecosystem-based adaptation through forest conservation and restoration.
- Community resilience is achieved by supporting sustainable livelihood alternatives.

Catalytic Finance Mobilization

The Hub's transparent, verifiable monitoring systems create conditions for:

- Private sector engagement in sustainable forest investments.
- Blended finance opportunities combining GCF resources with private capital.
- Results-based payment flows from international carbon markets.



Implementation Framework and Partnership Approach

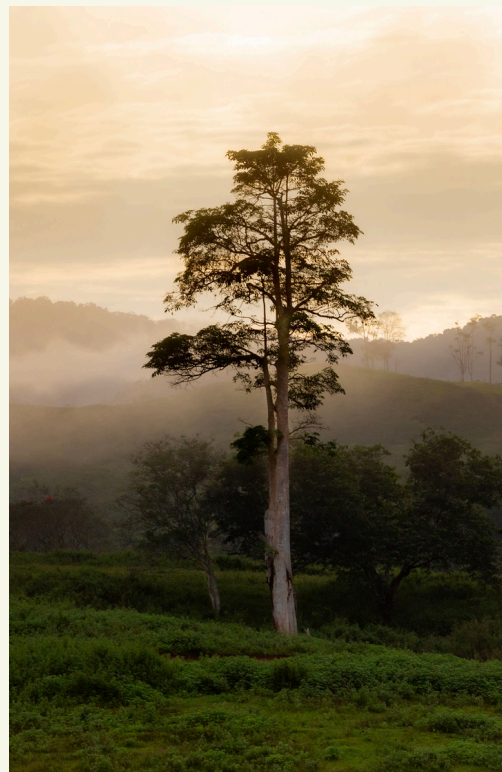
Multi-stakeholder Collaboration

The Hub operates through GCF's preferred partnership model, involving:

- Government leadership through CCDA coordination.
- Technical partnerships with FAO, EU-FCCB, and NASA.
- Financial diversification across UN-REDD, GEF, GCF-Readiness, and bilateral sources.
- Private sector engagement through innovative financing mechanisms.

Institutional Strengthening

The system constructs the institutional capacity framework that is supported by the GCF Readiness Programme for National Designated Authorities and Direct Access Entities, thereby augmenting Papua New Guinea's capacity to develop, implement, and monitor climate investments effectively.



Strategic Value Proposition for GCF Investment

1. Proven Results Foundation

PNG's current advances in forest monitoring and REDD+ readiness establish a robust foundation for expanded GCF investment, minimising implementation risks and enhancing the potential for climate impact.

2. Regional Leadership Model

The Hub positions Papua New Guinea (PNG) as a regional leader in transparent forest governance, thereby fostering opportunities for South-South learning and technology transfer within networks of Pacific Island countries and developing countries.

3. Multiple Co-benefits Delivery

The integrated approach facilitates concurrent mitigation, adaptation, and sustainable development outcomes, thereby optimizing the developmental impact of GCF investments.

4. Scalable Innovation Platform

The system's modular design and open-source components facilitate replication and expansion in other developing nations, thereby enhancing GCF's catalytic influence beyond the borders of PNG.

PNG's Carbon Compliance Information Hub exemplifies the kind of transformative, country-led climate investment that the GCF's 2024-2027 Strategic Plan emphasizes. By integrating transparent forest governance, innovative technological applications, effective safeguards implementation, and results-based financing mechanisms, the Hub establishes a comprehensive platform for scaling climate initiatives while safeguarding social and environmental integrity. Its alignment with the GCF's priorities in forest and land use programming, alongside its proven capacity for institutional strengthening and engaging the private sector, positions PNG as an exemplary partner for meeting the Fund's ambitious climate objectives during this decisive decade for global climate action.



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