



**MINISTRY OF SUSTAINABLE DEVELOPMENT,
CLIMATE CHANGE & SOLID WASTE MANAGEMENT**



Accelerating Climate Action in Belize: NDE Perspectives on Technology, Finance & Innovation

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CONTENTS



- Climate Finance – What Belize Has Accessed
- WEF Nexus – Water, Energy, Food in Belize
- Climate Technology We Are Deploying
- Climate Solutions Being Tested/Deployed
- Enhancing Long-Term Sustainability

From our NDC 2.0 Achievements:

GCF Project Preparation Facility – BZ\$624,198 for BNPAS technical studies

Italy bilateral grant – BZ\$3 million for deforestation-free value chains

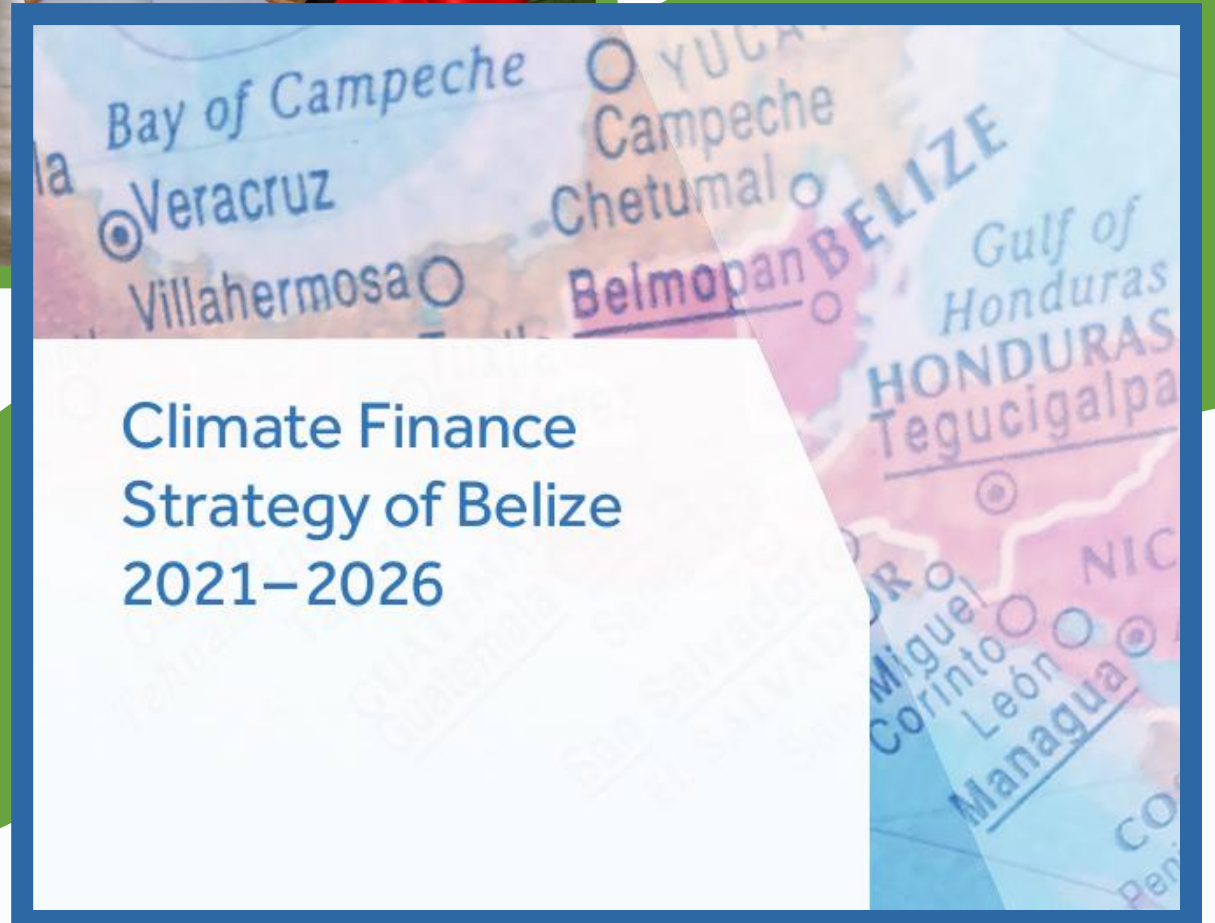
Taiwan partnership – US\$1.8 million for Multi-Hazard Risk Management (2026-2029)

GCF CREWS project – BZ\$22 million for hydromet early warning systems

KOICA + WFP – US\$60,000 in ICT equipment for the National Meteorological Service

Climate Finance Strategy – currently being updated (2026)

Lesson: Start small (PPF) → build credibility → access larger funds (CREWS).





WATER

Automated DB600 water-quality monitoring stations on the Sittee River and Monkey River – continuous, high-resolution data

ENERGY

Solar-powered irrigation and precision agriculture systems (CRESAP project – World Bank financed)

FOOD

Climate-resilient agriculture – biological agents to reduce sugarcane losses, Good Agricultural Practices training with FAO

INTERGRATION

Water Sector Adaptation Plan – Cabinet endorsed with a roadmap for priority actions

- SEAM PROJECT (ADAPTATION FUND) – BZ\$10 MILLION, IMPLEMENTING 2026: SOLAR-POWERED HYBRID WATER SYSTEMS IN FOUR RURAL COMMUNITIES (BOOM CREEK, DOLORES, OTOXHA, COPPER BANK) REACHING ~1,800 PEOPLE



GREENING BELIZE APP

digital monitoring for 1 million trees and 4,500 hectares restored

ELECTRIC BUS PILOT

Full Implementation of 5 electric buses within the public transport system. The installation and use of telemetry technology for data collection, monitoring, and analysis of pilot performance.

SEAM PROJECT (ADAPTATION FUND)

BZ\$10 million, implementing 2026: solar-powered hybrid water systems in four rural communities (Boom Creek, Dolores, Otoxha, Copper Bank) reaching ~1,800 people

WORLD BANK – BATTERY ENERGY STORAGE SYSTEM PROJECT

The project is aimed at strengthening the national power transmission infrastructure in Belize by improving its reliability and resilience against extreme climates and other emergencies

- GIS equipment delivered to municipalities – integrating climate data into urban planning
- Drones and UTVs for climate-smart monitoring and storm-impact assessment (agriculture sector)



ADAPTATION FUND

Ecosystem-based adaptation

- Mangrove restoration with WWF and Pew Charitable Trusts – land-tenure analysis, field restoration
- Shoreline reinforcement in Monkey River Village – nature-based solutions to reduce wave energy
- IDB CLIMA – US\$500,000 for Caye Caulker wastewater infrastructure to protect the barrier reef

Forest protection

- Greening Belize Initiative – 1 million trees, 4,500 hectares restored
- 5-year moratorium on new short-term forest licenses
- Belize River Watershed Micro-Grants Programme – community-led restoration

Low-emission transport

- Electric bus pilot – 3 buses on the Western Highway
- Import duties on electric vehicles reduced to 10%

Early warning systems

- GCF CREWS – BZ22million for hydromet services
- KOICA + WFP – US\$60,000 ICT equipment for the National Met Service

These are not concepts. These are working solutions. Now we need to scale.



**GREEN
CLIMATE
FUND**

ENHANCING LONG-TERM SUSTAINABILITY

What Belize is doing:

MAINSTREAMING CLIMATE INTO NATIONAL SYSTEMS

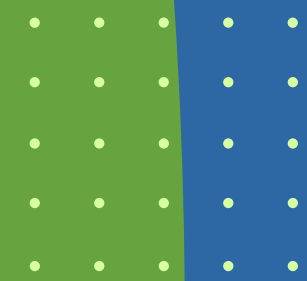
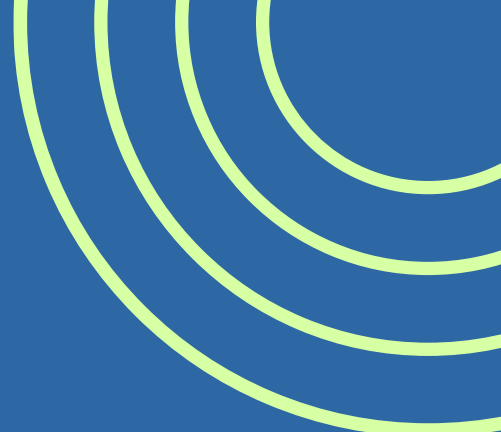
- Multisectoral NAP – consolidated and Cabinet approved
- Land Use Policy – being implemented
- Climate risks integrated into Building Code and Disaster Plan

DIVERSIFYING FINANCE INSTRUMENTS

- Grants (GCF, Adaptation Fund, IDB, Italy, Taiwan)
- Emergency liquidity (World Bank Cat-DDO – US\$20 million)
- Carbon markets (Climate Change and Carbon Market Initiative Bill 2025)

LEVERAGING NEW PARTNERSHIPS

- Germany (IKI) – technical support for NDC 3.0
- Guyana MoU – South-South cooperation on forests and carbon markets



FOR YOUR ATTENTION
