



Fiji Climate Change Division

Preparation and
Implementation of Mitigation
Actions

Background



- National Mitigation Actions are guided by the following policies and frameworks
 - National Climate Change Policy
 - National Energy Policy
 - Green Growth Framework
 - REDD+
 - CDM Policy Guideline



- Fiji's greenhouse gas inventory shows the country is not a significant contributor to climate change.
- 'Mitigation' to make a difference to atmospheric concentrations of GHGs is not the primary motivation. For Fiji, it is 'sustainable development' and to enhanced energy security and access.

Sustainable Development with Clean Energy



- Assess and utilize appropriate renewable energy sources such as solar, wind, hydro, geothermal, biofuel and biomass
- Develop and implement national, industrial, commercial and household efficiency programmes
- Control and reduce emissions from existing private and public vehicles

Institutional Arrangements



- Implementation of NCCP mitigation strategies: Mitigation subcommittee – has to be restructured and operationalized.
- Workable institutional frameworks for NAMA, as well as for CDM, National Communications (including biennial update reporting); and preparation of Intended Nationally Determined Contributions (INDCs) is a **PRIORITY** .

Projects



- There are more than 120 'Mitigation' focused projects in Fiji that include: solar, energy efficiency, hydro, biomass/biofuel, wind;
- Implementing agencies include: FEA, Dept of Energy, IUCN, WWF etc.

Clean Development Mechanism



- To create an enabling environment for CDM, Fiji developed its CDM Policy Guideline in 2010 and a CDM Investors Handbook in 2012.
- To date Fiji has a total of 12 CDM projects
- Of the 12 projects, only 3 have been successfully registered. The rest are at PIN and PDD stages.
- Projects include; Hydro Dams, Biomass (methane capture), Energy efficiency etc.
- Fiji is currently the alternate chair for the CDM DNA Forum for the Regional Asia, Pacific and Eastern Europe regions.

Lead Organisation	Project Title	Status	Sector	Annual Emission Reductions
Water Supply and sewage department, Ministry of Works, Transport and Public Utilities	Water and Sewage Department (WSD) – Kinoya sewage treatment Plant GHG Emission Reduction Project	Registered	Biogas	22,000 tCO ₂ e
FEA	FEA Nadarivatu Hydropower Project	Registered	Hydro	47,361 tCO ₂ e
FEA	FEA Vaturu & Wainikasou small scale Hydropower Project	Registered	Hydro	24,928 tCO ₂ e
FEA	Qaliwana Hydropower Project	PIN Stage	Hydro	19,717 tCO ₂ e
Department of Environment	Methane Capture and flaring at Naboro Landfill	PIN Statge	Biomass (methane capture)	approximately 15,000 tCO ₂ e
IUCN	Fiji Tourism Energy Efficiency Investment Project	PIN Stage	Energy Efficiency	approximately 4,847 tCO ₂ e
Water Authority of Fiji	Sewage Treatment National Biogas Programme of Activities in Fiji	PoAs at PIN stage	Biogas(Reduction of Methane Emission)	16,625 tCO ₂ e from the first CPA
FEA	National Grid-connected Hydropower	PoAs at PIN stage	Hydro	57,564 tCO ₂ e from the first CPA
Tropik Wood	Tropik Biomass Power Generation	PoAs at PIN Stage	Biomass	30,000 tCO ₂ e

Proposal



- The 6 CDM projects that are still in the PoA stage can be used as NAMA projects. The reason to this is:
- Potential PoAs can be tailored to satisfy NAMA requirements
- Makes sense to streamline PoA development along lines of NAMAs (or vice versa) in order to maximize mitigation potential

NAMAS



- Fiji NAMA Readiness Project - TOR for a readiness study that will involve stakeholder consultations, setting up MRV framework, identifying sectors for NAMA work based on information on mitigation potentials as identified in S N C, NEP, SE4ALL .
- The specific tasks that are proposed in the context of this consultancy assignment shall help the Government of Fiji identify NAMAs and implement priority NAMAs in the energy generation and/or energy end use sectors to enable the country achieve sustainable energy development and utilization that will not only support sustainable development but also contribute to the realization of the country's greenhouse gas mitigation targets.



Stated Activities

- Review of the existing Fiji CCM action plan
- Identification and analysis of CCM actions that are planned/programmed and being implemented in each sector (energy generation and energy end-use);
- Comprehensive analysis of existing issues/barriers/constraints to CCM action implementation;
- Identification and analysis of potential feasible NAMAs in the target sector(s) and prioritization of NAMAs;
- •Preparation of factsheets of potential NAMAs in the target sector(s) particularly the prioritized NAMAs;



Formulation of the following NAMA-support systems:

- Recommended national strategy for the implementation of NAMAs in the target sector(s)
- Measurement, reporting and verification (MRV) system, including the institutional framework for MRV
- Recommended institutional arrangements and coordination mechanisms between and among stakeholders, and in particular, on public/private partnerships for the implementation of the NAMAs in the target sector(s)

- Design and conduct of a NAMA capacity development program that will produce capable and qualified private and public sector entities on the following:
- Promotion of, and enhancement of the awareness and knowledge of the general public, on NAMA
- Identification, design, financing, implementation and operation of NAMA and CCM projects/programs
- Application of the approved MRV processes for NAMA projects, as well as design of MRV systems
- Workable institutional frameworks for NAMA, as well as for CDM, National Communications (including biennial update reporting); and preparation of Intended Nationally Determined Contributions (INDCs)

Possible PoAs

No.	Lead Organisation	Project Title	Status	Sector
1	FSC	Biogas Cogenerator	PoAs at PIN stage	Biomass (Reduction of Methane Emission)
2	Water Authority of Fiji	Sewage Treatment National Biogas Programme of Activities in Fiji	PoAs at PIN stage	Biomass (Reduction of Methane Emission)
3		National Grid-connected Hydropower	PoAs at PIN stage	Hydro
4		Tropix Bimass Power Generation	PoAs at PIN Stage	Biomass
5		Plant Oil Power Generation for maritime communities	PoAs at PIN stage	Biofuel
6	WWF South Pacific	Lightning Energy Efficiency	PoAs at PIN stage	Energy Efficiency



Support Needed

- Development of an action plan towards development of NAMA feasibility studies/proposals based on the NAMA concept paper
- Capacity building of DNA and stakeholders on identifying potential NAMAs, development, implementation and MRV.
- Technical & financial support to carry out NAMA feasibility studies for the potential sectors/areas identified under the action plan
- Financial support to recruit an officer dedicated to work on CC mitigation activities under the DNA

Preparation For INDC'S



Goals/Targets

- SD targets
- RE and EE Targets
- Energy intensity

Projects

- •CDM
- •RE, EE



Targets

- Energy Efficiency Targets [2015,2020,2030]
- Energy intensity (fuel consumption per unit of GDP in L/FJD) 0.08 (2011) [0.079 0.079 0.077]
- Energy intensity (power consumption per unit of GDP in kWh/FJD) 0.23 (2011) [0.219 0.215 0.209]
- Renewable Energy Targets [2015,2020,2030]
- Renewable energy share in electricity generation 56% (2011) [67% 81% 100%]
- Renewable energy share in total energy consumption 13% (2011) [15% 18% 23%]
- Fiji has ambitious targets for 100% RE for electricity generation; in energy efficiency and for reducing energy intensity but needs assistance with technology, funding and the appropriate policies to encourage IPPs to realize these.

National Experiences



- Inadequate institutional arrangements

Access to Data:

No central data repository;

No common classification

Reluctance to share data

Weak 'tracing', imports and exports data

National Experiences Cont'd



- Lack of ownership and awareness at different spheres .
- Lack of institutional and legislative arrangements that would facilitate coordination and access to data
- Lack of Capacity [human, technological, financial]

Challenges



- Understanding of iNDCs, relation to NCs, BURs, NAMAs
- Methodology: quantifying goals, targets, policies & projects
- Protocols for data sharing, collection, classification and quality control
- Adaptation actions and policies
- Support: finance, technology, capacity building

Thank You.

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"A Progressive and sustainable Fiji through strengthened partnerships and collaborations with all stakeholders at national, regional and international community levels"

