



Climate Change Division (CCD), Office of the Prime Minister



Fiji's NDC targets, sectoral mitigation opportunities and potential carbon market projects



Content

- Mitigation ambition
 - Fiji's NDC targets till 2030
 - Net-zero by 2050
- Actions to achieve targets
 - NDC Implementation Roadmap/ Investment Plan and LEDS actions (VHA scenario) by sector
 - Carbon budgets
 - National Energy Policy
- Roles of carbon markets
 - Opportunities for investment and business development
 - Technology transfer
 - NDC target achievement and implications (corresponding adjustments)
- Successful CDM



Fiji's mitigation ambition commitment

2023
Present day

2030
Updated NDC

2050
NET-ZERO



Nationally Determined Contribution (NDC)

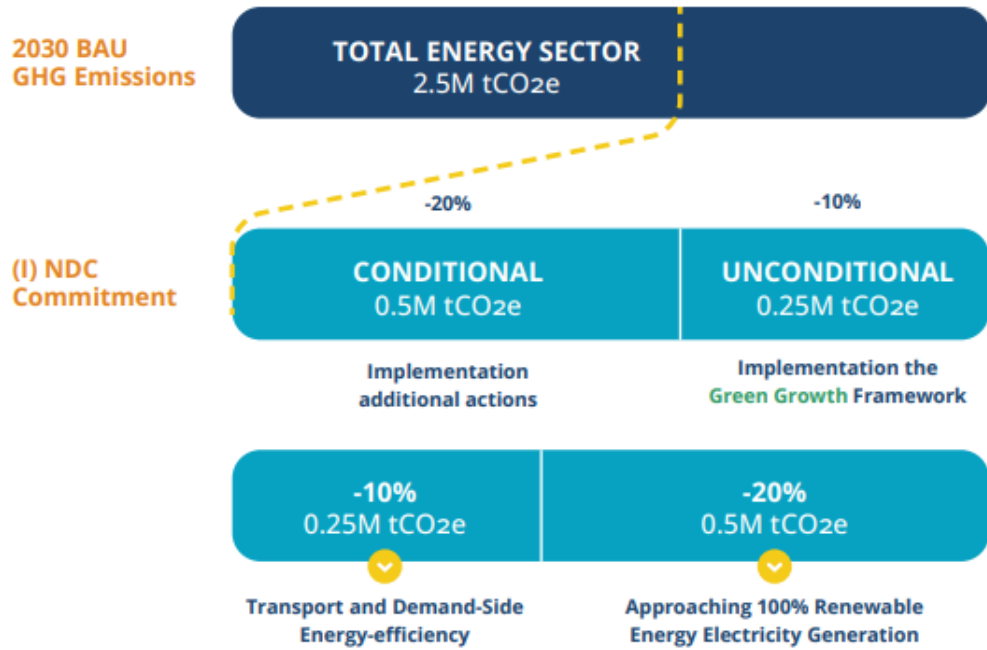


Figure 1: Fiji's energy sector BAU baseline and (Intended) NDC commitment for 2030

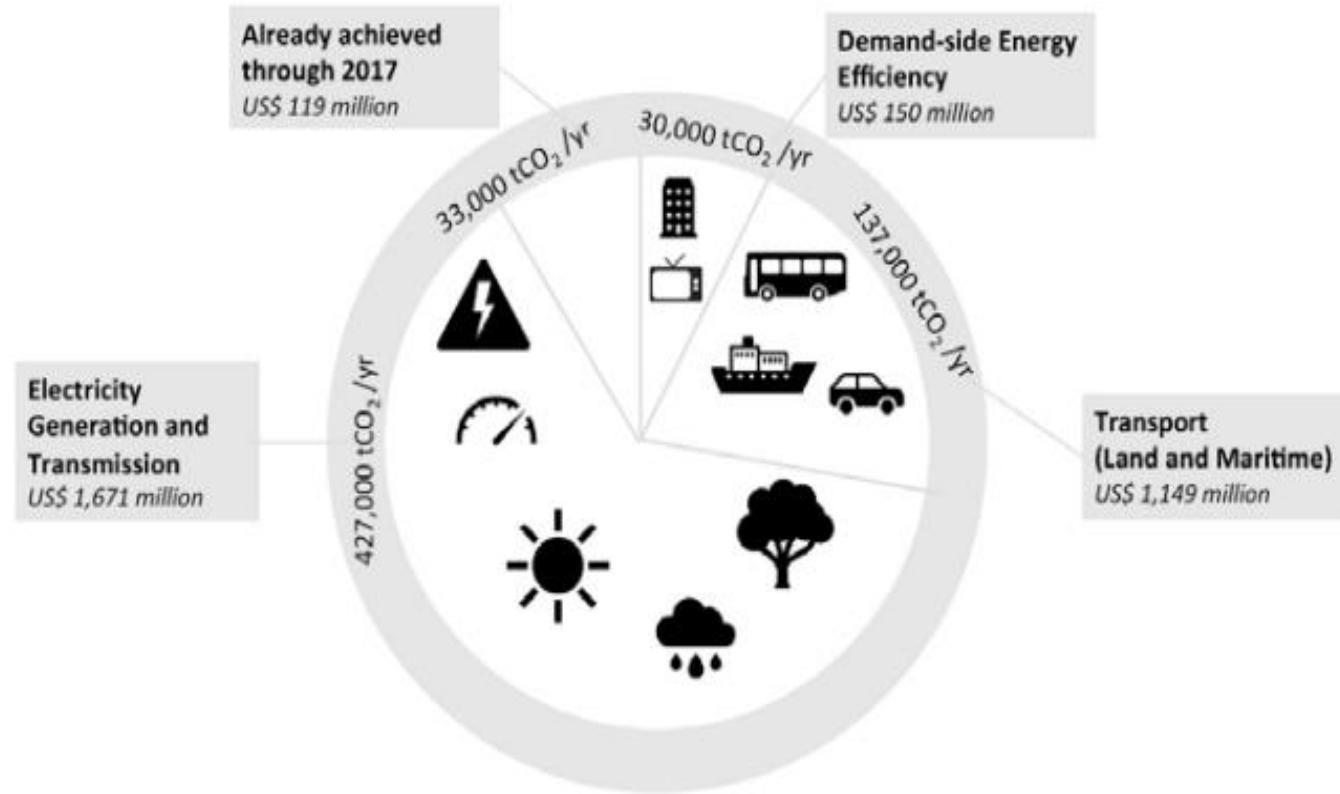


Figure 4: Annual expected energy sector GHG mitigation in 2030 and estimated total investment required

US\$ 2.97 billion

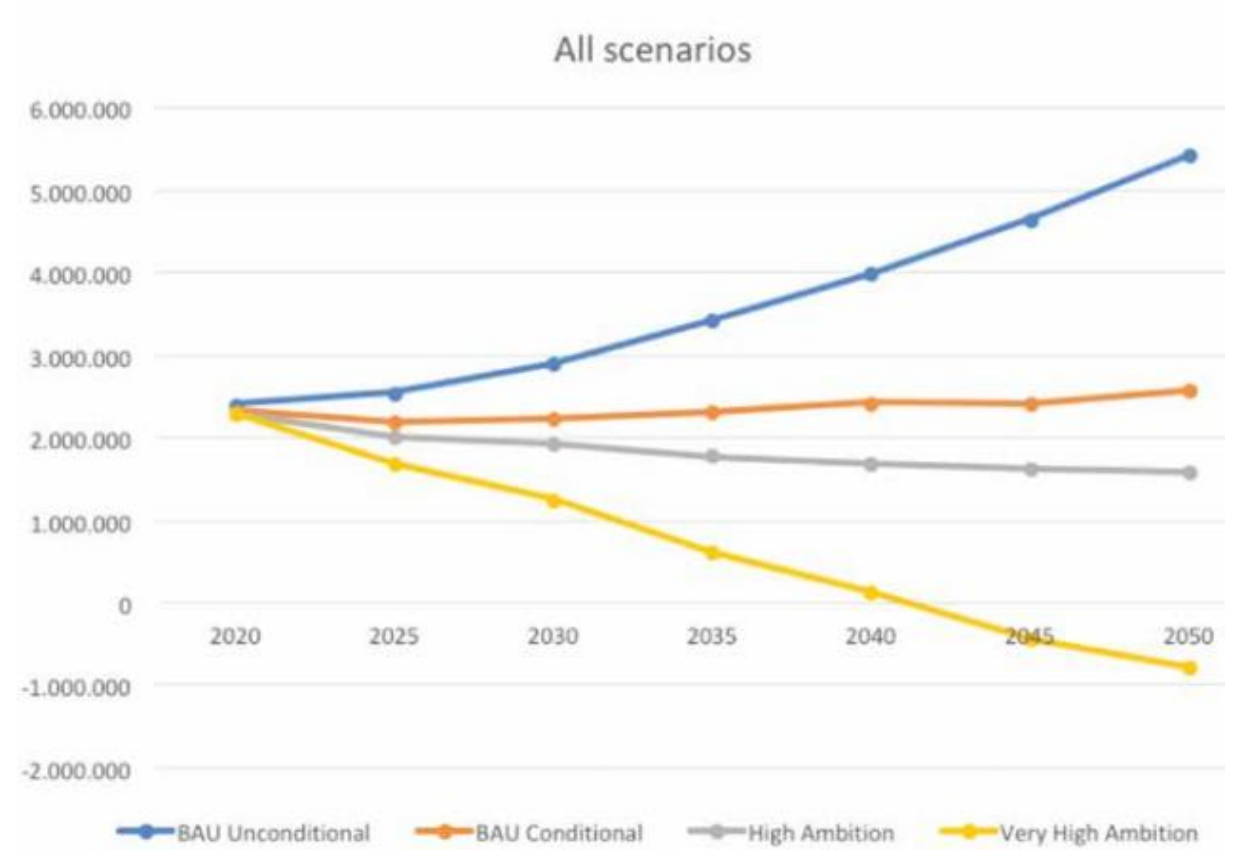


Net-zero by 2050

Economy wide

- Electricity and other energy use
- Land transport
- Maritime transport
- Domestic aviation
- Waste
- Agriculture, Forestry and Other Land Use

Figure 1. Total Net Emissions for Fiji under the four LEDS scenarios [all values in metric tonnes CO₂e].



Climate Change Act 2021

- Enable Fiji to meet its international obligations under the Convention and the Paris Agreement and to implement Fiji's NDC;
- The long term emissions reduction target for Fiji is net zero greenhouse gas emissions by 2050;
- Achieve mitigation targets by providing for the development of emissions reduction projects, programmes and activities and facilitate access to international carbon markets
- Development of 5-year carbon budgets for the purposes of planning whole of economy emissions reductions as part of a cumulative effort to achieve net zero greenhouse gas emissions by 2050 against the 2013 baselines emissions.
- Voluntary facility-level reporting on emissions and emissions reduction data



Actions to achieve targets: NDC by 2030

Table 3: Aggregated information for mitigation opportunities in Land Transport

OPPORTUNITIES ¹² (NUMBER IS PRIORITY WITHIN THE TRANSPORT SECTOR)	INDICATIVE DEVELOPMENT, CB AND TA 2020- 2030 (US\$M)*	INDICATIVE INVESTMENT NEEDS TO 2020- 2030 (US\$M)	COST OF MITIGATION US\$/tCO2	ANNUAL MITIGATION 2030 (tCO2/YR)	TOTAL MITIGATION 2020-2030 (tCO2/YR)
T2 Alternative Fuels in Land and Maritime Transport	1.1	36.0	200	42,000	211,000
T4 Vehicle Replacement Program for Cars and Taxis**	1.0	524.9	1,200	59,000	448,000
T5 Lautoka Zero Carbon Transport Challenge/ Strategy	1.0	0	NA	NA	NA
T7 Vehicle Replacement Program for Lorries and Buses**	0.8	134.4	600	36,000	250,000
T9 End-of-Life Vehicle Programme	0.5	5.0	500	2,000	11,000
T11 Bicycle/E-Bike Financing Initiative**	2.8	4.2	100	8,000	65,000
T13 Traffic Congestion Reduction Measures***	20	25.8	800	7,000	59,000
T15 Bus Network Information Transport System (ITS)***	8.9	104.6	900	18,000	137,000
T16 Electric Vehicle Network Development **	11.8	592.2	3,500	30,000	173,000
T18 Land Transport Infrastructure Upgrade for Non-motorised Transport***	899.7	3,736.50	210,000	6,000	22,000
TOTAL MITIGATION POTENTIAL OF ALL¹³	947.6	5,163.60		208,000	1,376,000

Table 6: Aggregated information for mitigation opportunities in Maritime Transport

OPPORTUNITIES	INDICATIVE DEVELOPMENT, CB & TA 2020- 2030 (US\$M)*	INDICATIVE INVESTMENT NEEDS TO 2020- 2030 (US\$M)	COST OF MITIGATION US\$/tCO2	ANNUAL MITIGATION 2030 (tCO2/YR)	TOTAL MITIGATION 2020-2030 (tCO2/YR)
T1 National Action Plan for Decarbonising Maritime Transport	0.6	NA	NA	NA	NA
T3 Outboard Motor Transition**	0.4	114.6	1,100	16,000	105,000
T8 Sail-powered Cargo/ Passenger Ferry***	1.4	35.0	900	8,000	40,000
T10 Zero Carbon Passenger Ferry Trials***	0.1	9.2	1,800	1,000	5,000
TOTAL MITIGATION POTENTIAL OF ALL	2.5	158.8		25,000	150,000

*Financial Needs for Project/Programme Development, Capacity Building (CB), and Technical Assistance (TA).

**Includes the total investment in vehicles.

***Includes the total investment in roads (vehicle & bike lanes and barriers) and other traffic management activities.



Actions to achieve targets: NDC by 2030



Actions to achieve long term targets: 2050

Energy Sector

Action	Mitigation Potential	High level costs USD (in millions)
New biomass installation (22 MW to 256 MW)		88-1000
New solar installation and storage (223 MW to 522 MW)		1330- 2300
New hydro installation (0.7 MW to 435 MW)		2.1-5200
Clean Cookstoves (Open fire cooking is completely replaced with LPG, kerosene, and electric stoves)		VARIABLE
Energy efficiency in the business community and public sector		VARIABLE
New W2E installation 10 MW		35
Vehicle-to-grid (V2G) Adoption		VARIABLE