



Fiji's NDC Implementation Roadmap (2017-2030)

Entrepreneurship in Renewable Energy and Energy Efficiency Workshop

GREENpreneurs Week

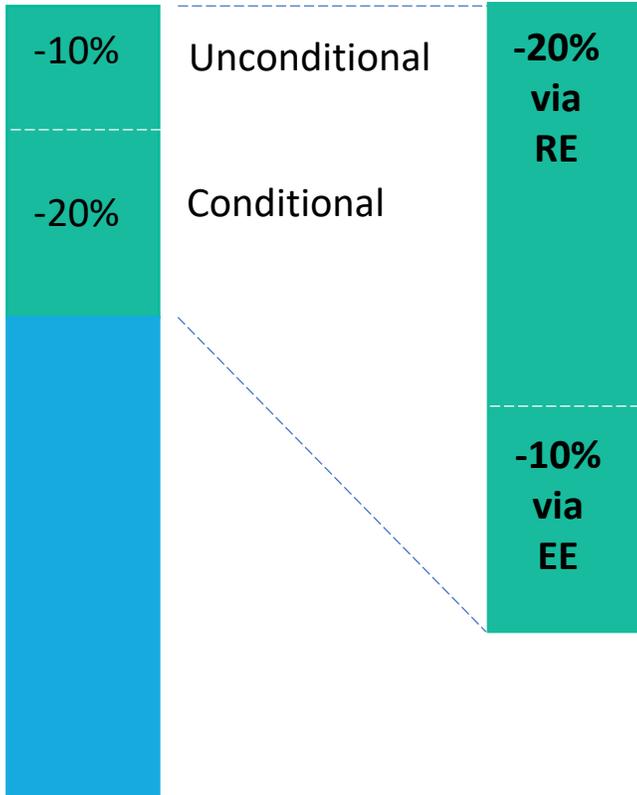
Presenter: Mr. Vineil Narayan (Climate Finance Specialist – Ministry of Economy)

Fiji's NDC Targets

2030 BAU
GHG
Emissions



INDC



Target 1:

To reduce 30% of BAU CO₂ emissions from the energy sector by 2030.

Target 2:

As a contribution to Target 1, to reach close to 100% renewable energy power generation (grid-connected) by 2030, thus reducing an expected 20% of energy sector CO₂ emissions under a BAU scenario.

Target 3:

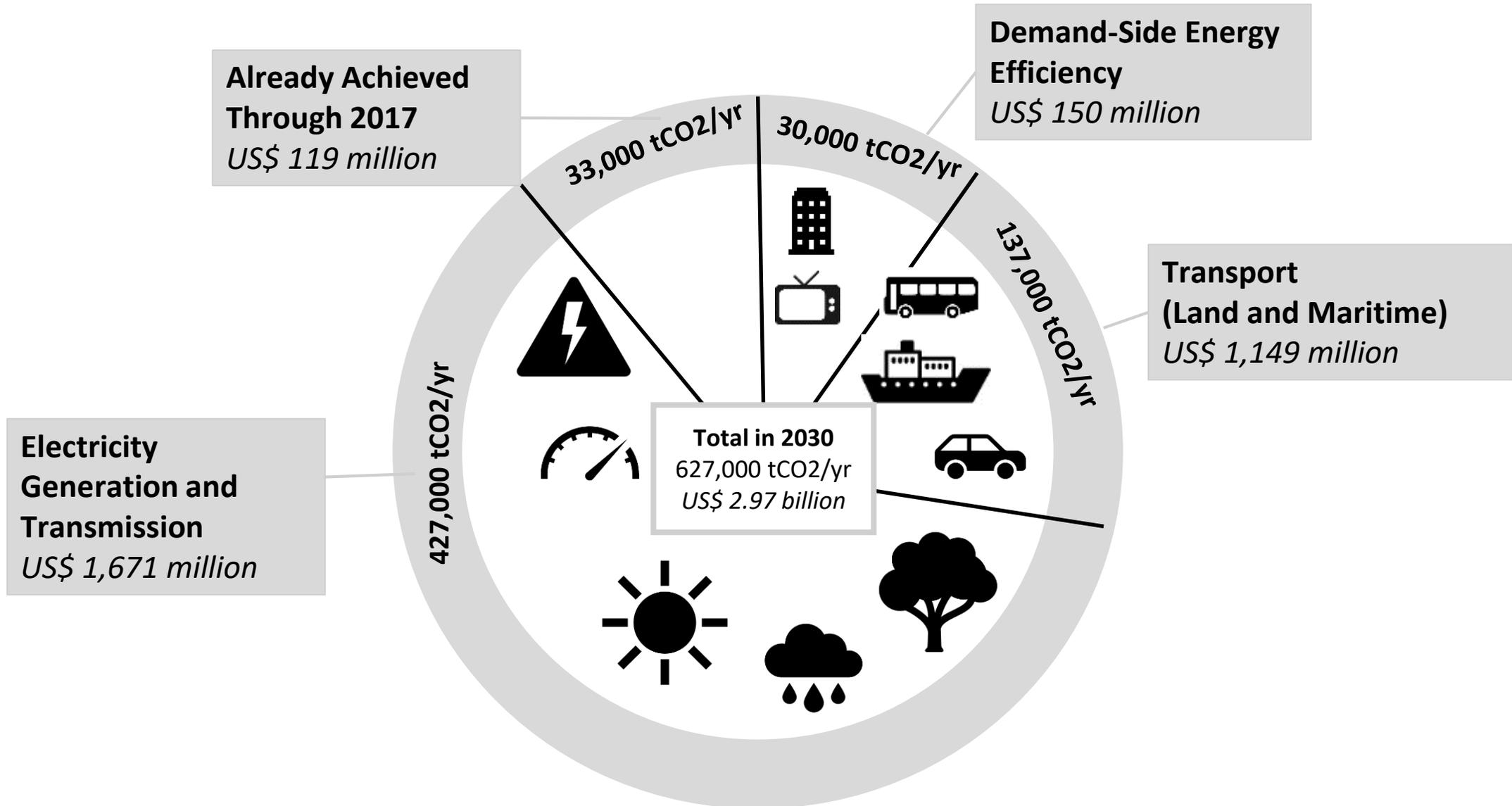
As a contribution to Target 1, to reduce energy sector CO₂ emissions by 10% through energy efficiency improvements economy wide, implicitly in the transport, industry, and electricity demand-side sub-sectors.

Fiji NDC Implementation Roadmap

- Technology and Infrastructure needs
- Investment and Finance needs
- Strengthened Enabling Environment (e.g., policies, regulations, institutional arrangements)
- Capacity Building and Technical Assistance needs, including awareness raising
- Framework for Monitoring, Reporting, and Verification system

National Policies / Strategies / Plans	Electricity generation, transmission, and distribution	Electricity demand-side energy efficiency	Transportation (land and maritime transport)
Republic of Fiji National Climate Change Policy	✓		✓
Fiji's Intended Nationally Determined Contribution	✓	✓	✓
Green Growth Framework for Fiji	✓	✓	✓
Draft National Energy Policy 2013-2020 and Strategic Action Plan	✓	✓	✓
20-Year and 5-Year National Development Plan	✓	✓	✓
Electricity Act of 2017	✓		
Fiji Electricity Authority Power Development Plan	✓		
Maritime and Land Transport Policy			✓
Greater Suva Transportation Strategy 2015–2030			✓

Expected Mitigation Results & Investment Needs of the Full Roadmap



Expected Mitigation Results of Electricity Generation & Transmission



E1, E4, E7:
Grid Extension & Improvement
(2,400 km)

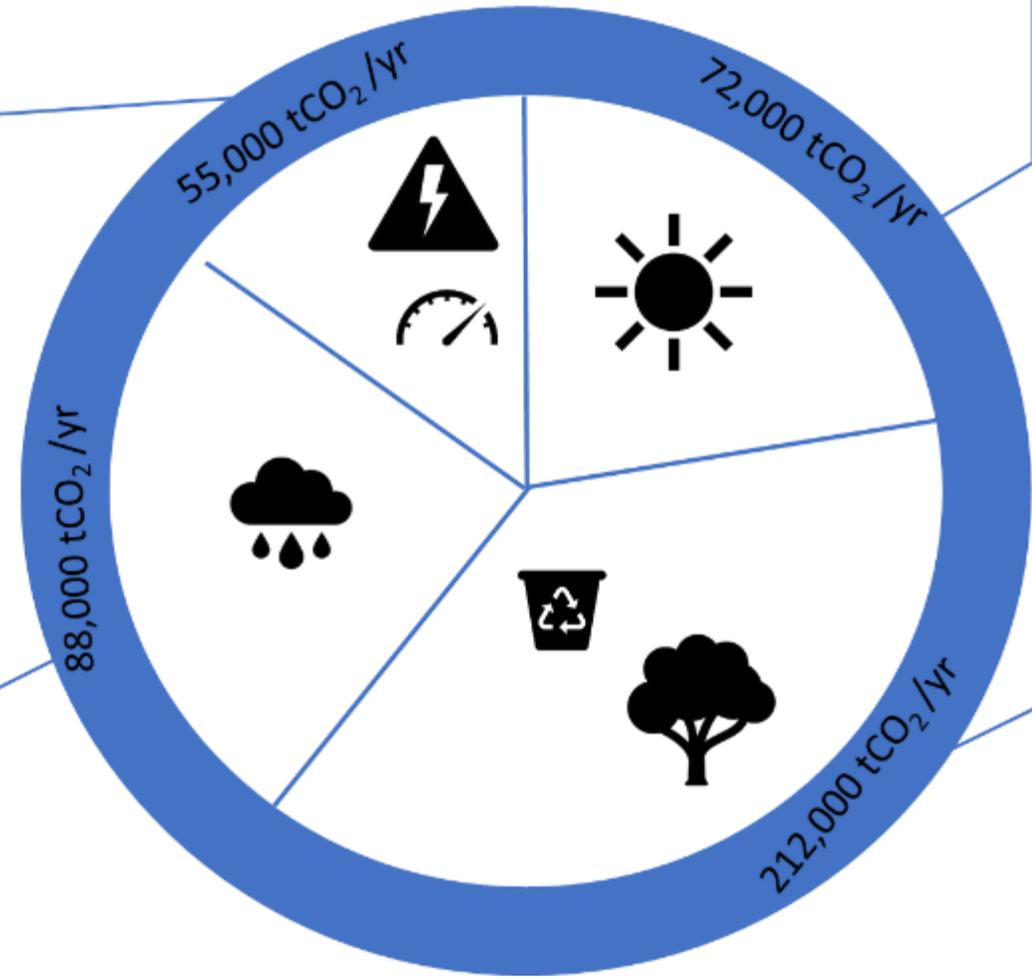
Grid Storage
(162 MWh)



E2, E5, E8:
Solar PV
(127 MWp)



E2, E5, E8:
Hydro
(84 MW)



E2, E5, E8:
Biomass & WTE
(65 MW)

E3, E6, E9:
Sustainable Biomass
(33,000 ha)

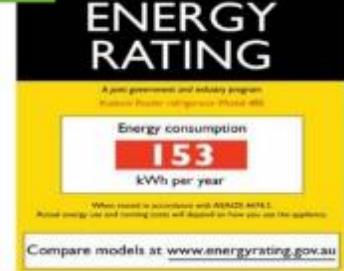
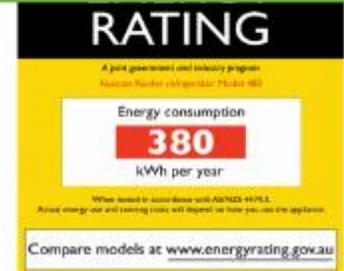


Expected Mitigation Results of Electricity Demand-Side Energy Efficiency

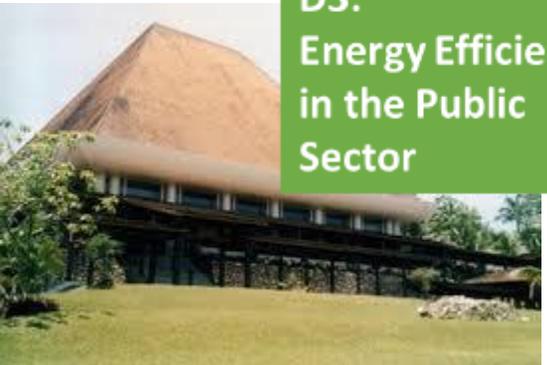
D4:
Updated Codes
and Standards for
Buildings



D1:
Energy Labelling and
Minimum Energy
Performance Standards
(including Public Education
and Awareness)



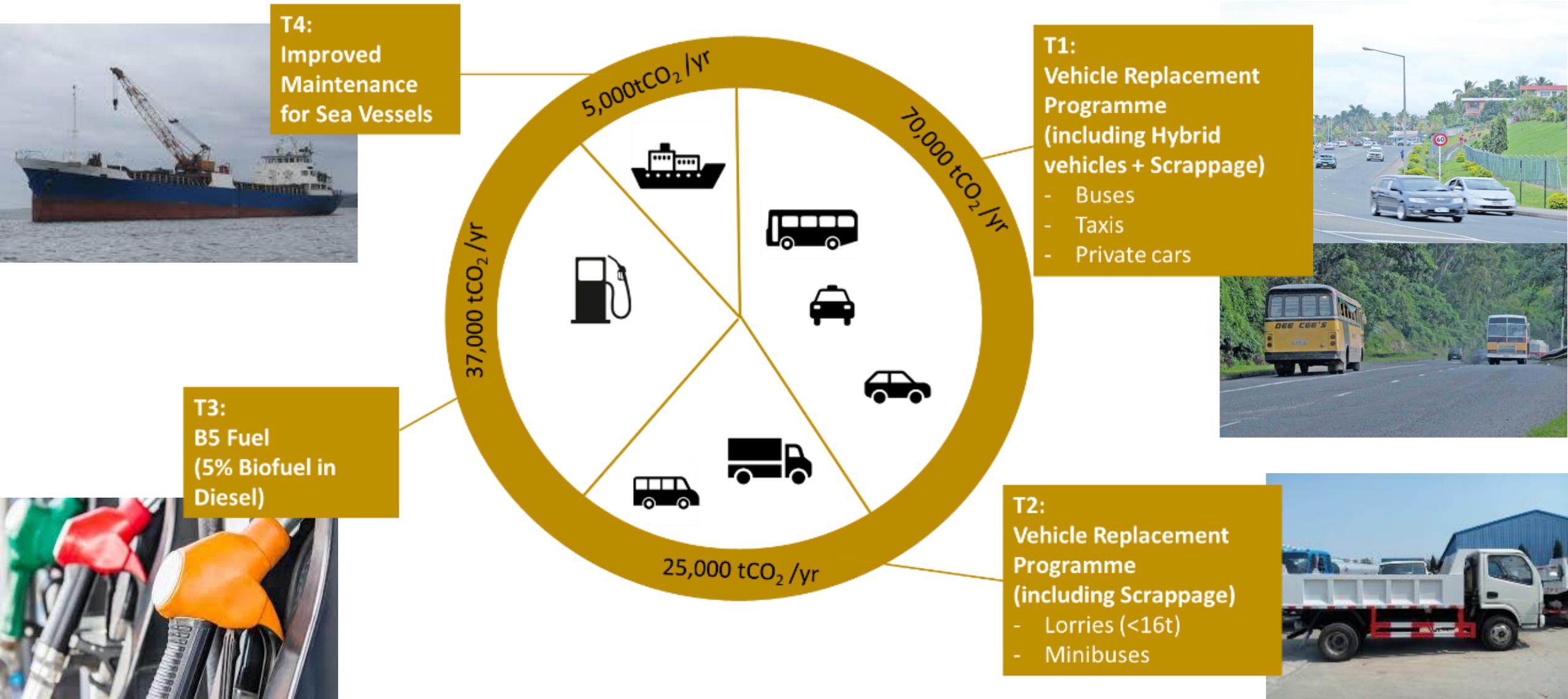
D3:
Energy Efficiency
in the Public
Sector



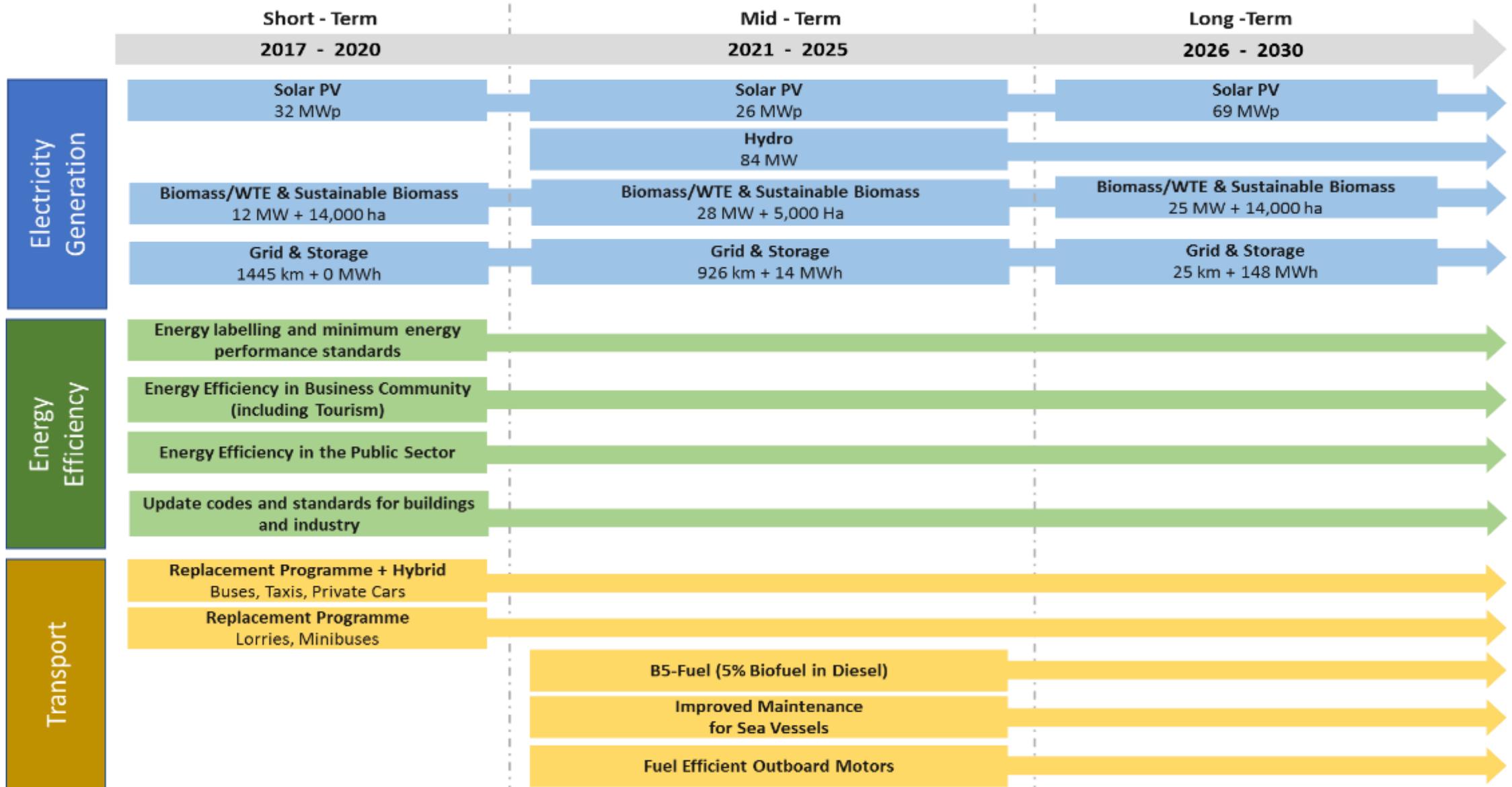
D2:
Energy Efficiency in the
Business Community
(including Tourism)



Expected Mitigation Results of Land and Maritime Transport



Roadmap Timeline



Financing the Roadmap

What is Needed:

Investment Needs (US\$ billion)	Total	2020	2025	2030
Electricity Generation and Transmission	1,671	462	861	348
Electricity Demand-side Energy Efficiency	150	34	58	58
Transport (Land and Maritime)	1,149	269	440	440
Term Investment Needs (US\$)		765	1,359	846
Total Investment Needs (US\$)				2,970

In Progress:

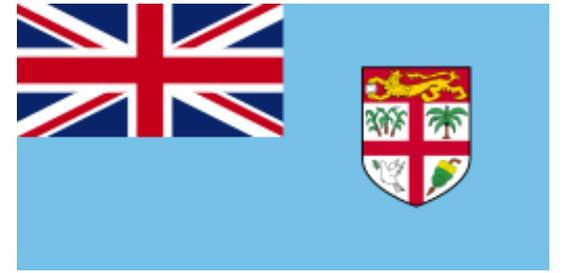
- Fiji has a history of tax incentives to support renewable energy investments in electricity generation, demand-side energy efficiency, and transport
- Fiji has invested at least US\$ 119m in mitigation in the energy sector (2014 – 2017)
- Direct access to the Green Climate Fund secured via the Fiji Development Bank
- Ministry of Economy, Reserve Bank of Fiji, and the IFC have launched a US\$ 100m Green Bond
- Implementation of the Environment and Climate Adaptation Levy generating more than FJ \$100m per annum

Potential Ideas for GREENpreneurs

- Bold climate action could drive at minimum \$26 trillion in economic benefits through 2030 (Global Commission on the Economy and Climate)
- Opportunity to take advantage of national fiscal incentives for renewable energy – push for innovative investments in renewables
- Energy efficiency consultancy and solutions for buildings – strive to show cost savings
- Introduction of innovative green transportation – electric vehicles, solar powered Rickshaws, fuel efficient scooters and more

Web Link to Fiji NDC Implementation Roadmap

https://cop23.com.fj/wp-content/uploads/2018/03/FIJI-NDC-IMPLEMENTATION-ROADMAP_LOWRES.pdf



Thank You

Contact Information

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