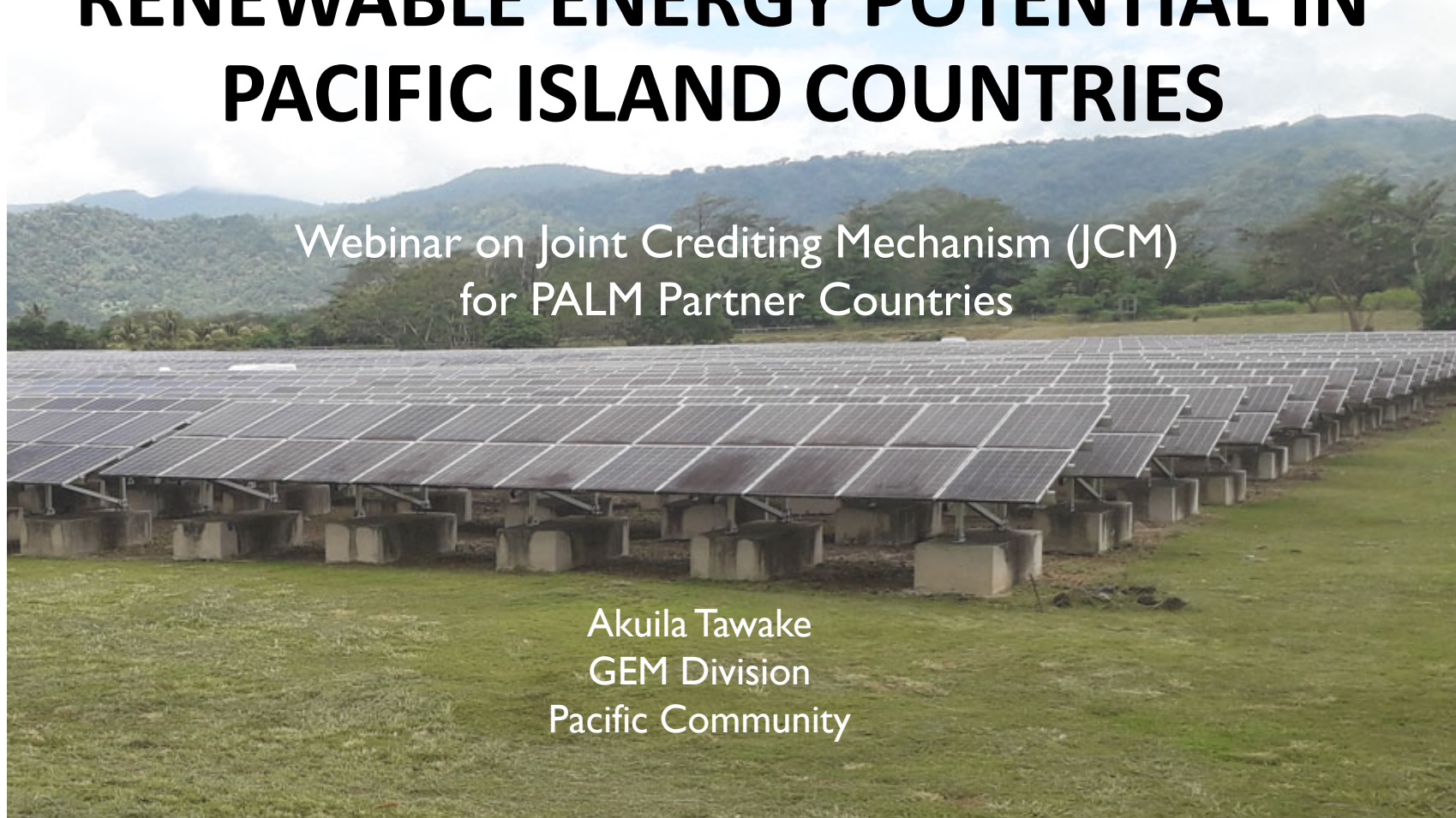


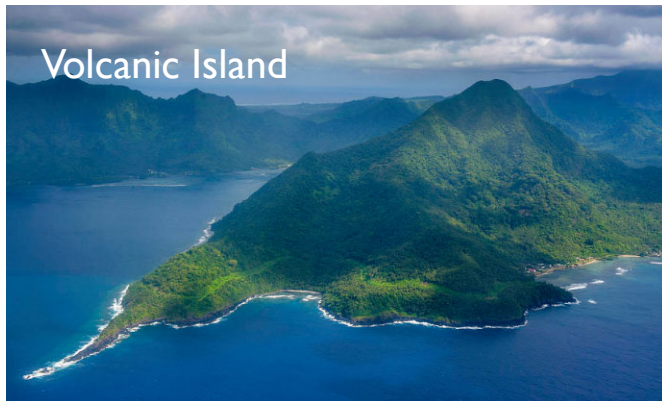
RENEWABLE ENERGY POTENTIAL IN PACIFIC ISLAND COUNTRIES

Webinar on Joint Crediting Mechanism (JCM)
for PALM Partner Countries

Akuila Tawake
GEM Division
Pacific Community



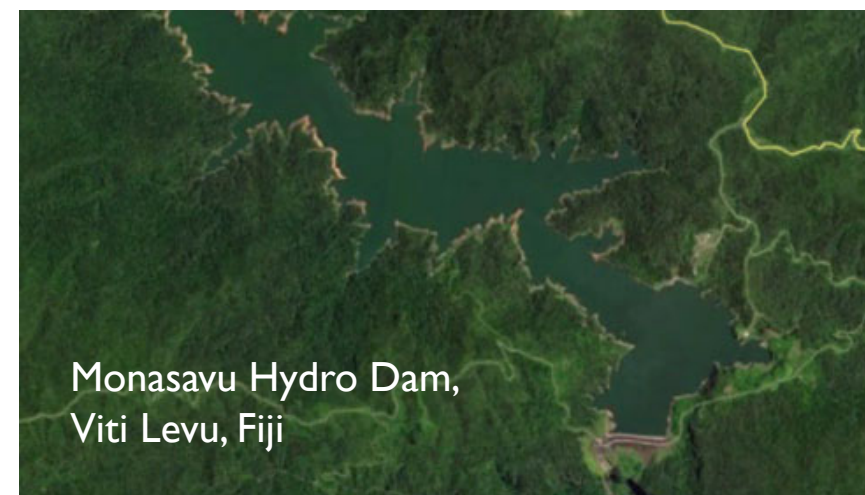
Types of Islands in the Pacific



	Volcanic Islands	Raised Limestone Islands	Atoll Islands
Elevation	High mountainous	Moderate height (2 - 20m asl)	Low lying (up to 5m asl)
Land size	Small - Large	Small - Medium	Small
Lagoon size	Small - Large	Small - Medium	Small - Large
Examples	PNG, SI, Vanuatu, Fiji, Samoa, FSM, CI, Palau,	Nauru, Tonga, Kiribati, Niue, Palau, CI	Kiribati, RMI, Tuvalu, Tokelau, CI

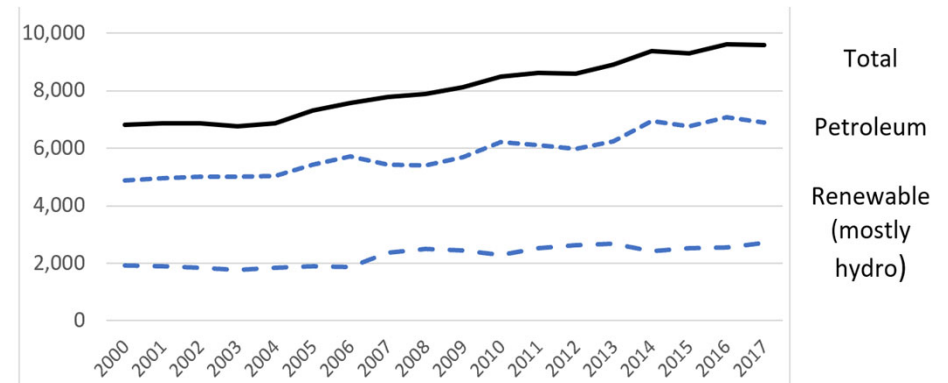
2019 PICs Energy Data (ADB, 2019)

Country	Electricity Access (%)	RE Target by Year
Cook Islands	99	100% by 2020
FSM	65	84% by 2037
Fiji	87	100% by 2030
Kiribati	65	40% by 2025
Nauru	100	50% by 2020
Niue	99	80% by 2025
Palau	98	45% by 2025
PNG	12	78% by 2030
RMI	87	50% by 2025
Samoa	100	100% by 2025
Solomon Islands	23	79% by 2030
Tonga	89	100% by 2035
Tuvalu	98	100% by 2025
Vanuatu	33	100% by 2030

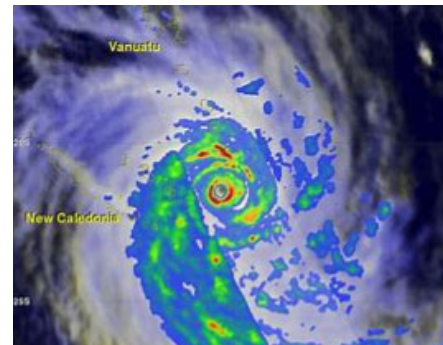


Challenges in Meeting Targets

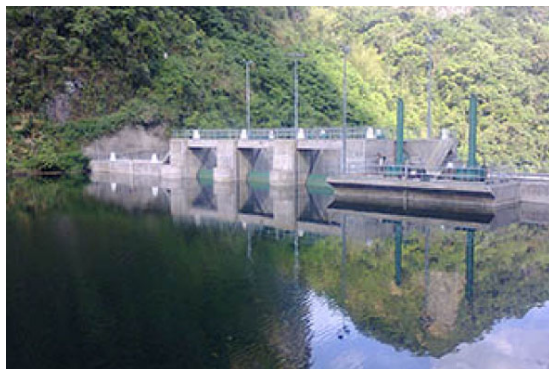
- Geographical location and isolation;
- About 80% of PICT energy uses petroleum;
- Highly vulnerable to the impacts of CC;
- Frequent natural disasters (e.g. cyclone, typhoons);
- Energy Efficiency initiatives not enough;
- Ongoing fossil fuel subsidy;
- Coordination and collaboration need strengthening.



PICT Electricity Generation 2000-2017 (GWh)



RE Infrastructures and Potential Resources



	Volcanic Islands	Raised Limestone Islands	Atoll Islands
Existing RE Technologies	Hydro (PNG, Solomon Islands, Fiji, Samoa, FSM, Vanuatu, New Caledonia); Solar PV (All islands); Wind (PNG, Vanuatu, Fiji, Tonga, New Caledonia); Biomass (Fiji, Samoa, PNG)	Solar PV (All islands); Wind (Tongatapu)	Solar PV (All islands)
Potential RE resources	Geothermal, Biogas, PHES, Ocean energies (OTEC, tide, wave)	Ocean energies (OTEC, tide, wave)	Ocean energies (OTEC, tide, wave)



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Thank You