

Pacific NDC Dialogue

Enhancing and Implementing the Pacific SIDS Commitments to the Paris Agreement through Energy Transformation

TUESDAY, 23 FEBRUARY 2021 07:00 – 09:00 AM GST





Session 1:

Welcoming and Opening Remarks

Amjad Abdulla

Head of Partnerships, International Renewable Energy Agency (IRENA)







Francesco La Camera

Director General, IRENA







Ken O'Flaherty COP26 Ambassador for Asia and the Pacific







H.E Charles Obichang

Minister of Infrastructure, Palau





Time	Sessions and Speakers	Time	Sessions and Speakers
	Session 2: Achieving the NDC targets through energy sector transformation		Session 3: Role of NDCs and Long-term Low Emissions Development Strategies in promoting Green Recovery in PSIDS
	Facilitator: Mr Tutii Chilton, Executive Director, Palau Energy Administration		Scene Setting & Facilitator: Mr Nilesh Prakash, Senior Advisor – Political and Private Sector Engagement, Regional Pacific NDC Hub, GIZ
07:15 — 08:05	 Scene Setting Presentation: Mr Gurbuz Gonul, Director, Country Engagement and Partnerships, IRENA Mr Alfred Rungol, General Manager, Climate Change and Development Authority, Papua New Guinea Ms Emma Sale, Programme Analyst, United Nations Development Programme 	08:05 – 08:50	 Ms Angeline Heine, Director of Energy, Republic of the Marshall Islands Mr Daniel Munoz-Smith, Country Representative in Fiji, Kiribati, Tonga and Vanuatu, GGGI Ms Jeanette Mani, Mitigation Specialist, Climate Change Division, Ministry of Economy, Fiji Mr Akuila Tawake, Deputy Director, Georesources and Energy Programme, Pacific Community
	 Mr Tevita Tukunga, Director of Energy, Ministry of Meteorology, Energy, Environment, Information, Climate Change, Disaster Management, Environment and Communication, Tonga Mr Deo Gabinete, Regional Manager, Eastern Europe, Asia and the Pacific, NDC Partnership 	08:50: 09:00	 Session 4: Way Forward and Concluding Remarks Mr Christian Görg, Project Manager, Regional Pacific NDC Hub Mr Gurbuz Gonul, Director, Country Engagement and Partnerships, IRENA





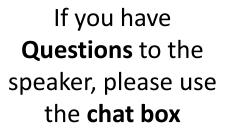


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If you encounter any technical issues, please write your issue in the **chat box**



Session 2:

Achieving the NDC targets through energy sector transformation

Tutii Chilton

Executive Director, Palau Energy Administration







Gurbuz Gonul

Director, Country Engagement and Partnerships, IRENA

Pacific NDC Dialogue: Achieving NDC Targets in SIDS through Energy Sector Transformation



International Renewable Energy Agency

Renewable Energy in 1st NDCs

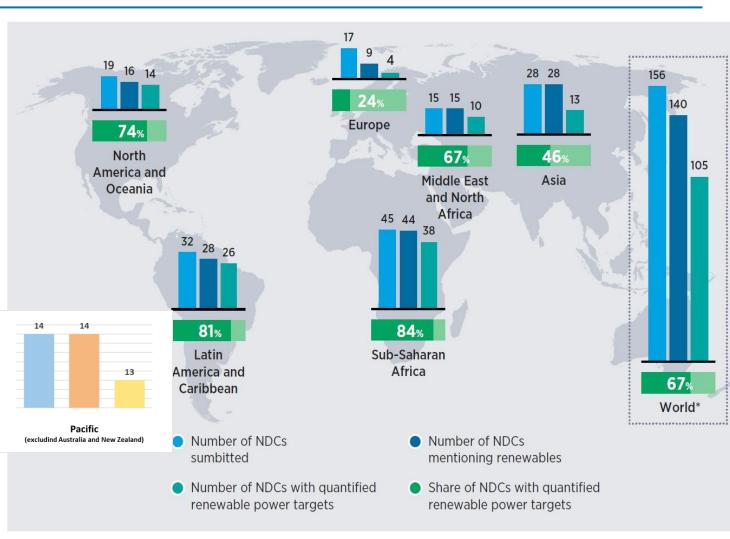
IRENA

First NDC power targets overlook 59% of the potential for renewable electricity deployment in line with the Paris Agreement by 2030, according to IRENA estimates

135 countries have renewable electricity targets in their **national and sub-national** energy plans

140 NDCs mention renewables in the power sector, but only **105 NDCs** of the 140 include **quantified targets for renewable electricity**

To drive the changes needed for a climate-safe future, NDCs must become more ambitious in 2020





SOURCES OF REQUESTS

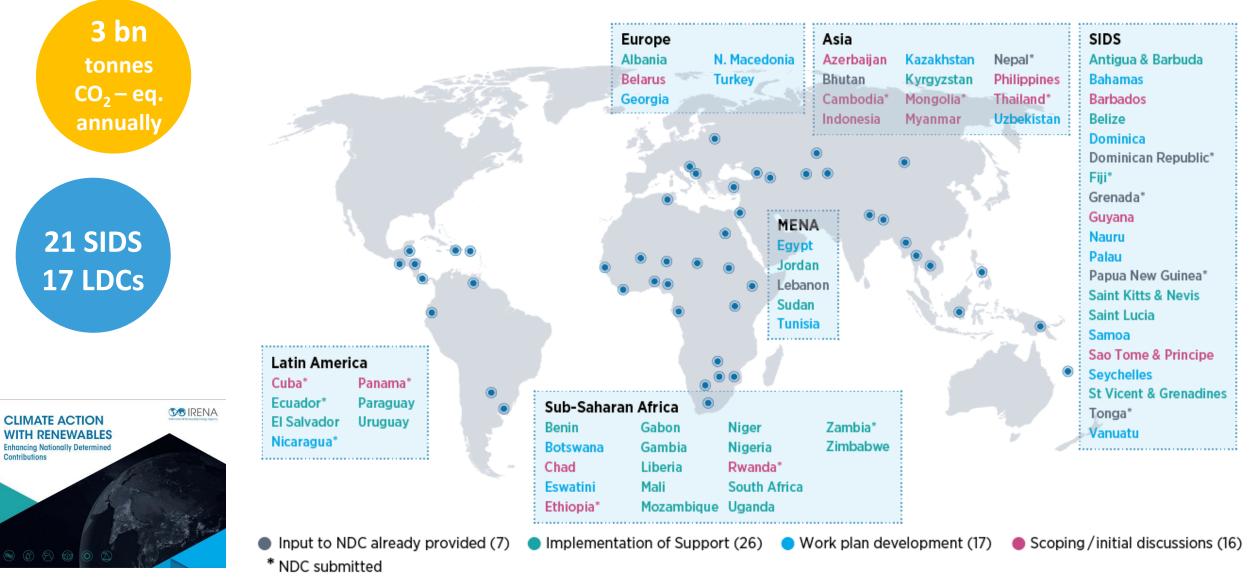
- IRENA Receiving Direct Country Requests
- IRENA Partnership with UNDP on
 Climate Promise
- IRENA Partnership with NDC
 Partnership on Climate Action
 Enhancement Package (CAEP)

NDC Enhancement Support

- Data and Statistics
- Resource Assessment
- Long Term Energy Planning (LTEP)
- Power System Flexibility (FlexTool)
- Renewable Energy Roadmaps (REmap)
- Renewable Readiness Assessment (RRA)
- RE Policy Capacity Building
- RE Technology Capacity Building

IRENA's NDC-Energy Support





Disclaimer: Boundaries and names shown on this map do not imply any official endorsement or acceptance by IRENA.



Technical Assistance for Stronger Enabling Frameworks

• NDC implementation plans, investment frameworks, capacity building

Project Pipeline Development

• Identification of a pipeline of public and private projects backed by governments

Climate Investment Platform (CIP) and IRENA Project Facility 2.0

- Project pre-screening
- Project preparation support for improved bankability
- Facilitation of access to finance

Investment Forums

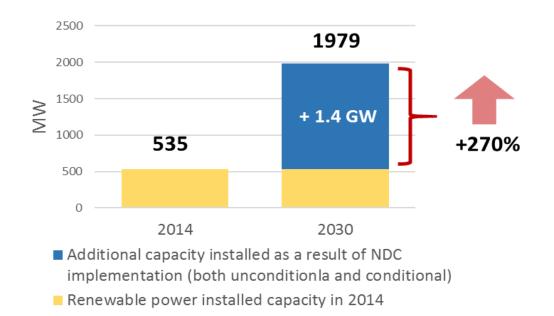
• Regional interactive platforms in 14 regional clusters for matchmaking of investor-ready projects and enhanced government-investor dialogue

CLIMATE INVESTMENT PLATFORM

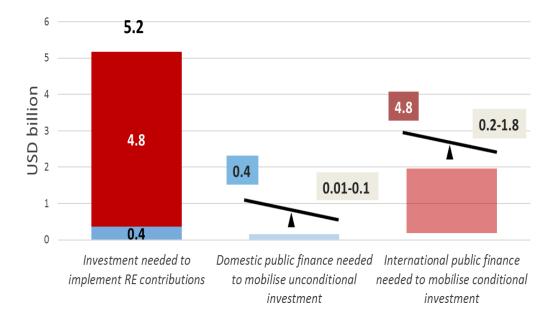




Additional RE capacity in Pacific NDCs



Additional investments needed by 2030





SIDS Lighthouses



36 SIDS and 30 Partners

- Framework to facilitate SIDS climate action through energy transformation
- Addresses all elements of energy transition
- Operationalises the Ambitious SIDS Climate Package and IRIE initiatives

NDC enhancement and implementation support

Priority Areas

- Technical and regulatory advisory services
- Promote all renewable sources, including geothermal and ocean energy
- Foster access to finance and closer co-operation with the private sector
- Strengthen institutional and human capacity development
- Focus on transportation and end-use sectors
- Energy efficiency

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- Renewable energy and other SDGs
- Climate resilience and disaster recovery
- Collection and dissemination of data and statistics
- Foster partnerships and multilateral cooperation
- Boost renewable power deployment (total target of 5 GW of installed capacity by 2023)





Fiji: Review of energy data management methodology and of Climate Change Policy



Nauru: Support for project facilitation for climate proofing of health facilities across the island



Palau: Development of electricity roadmap to green hydrogen and ocean energy technologies



Tonga: Support on energy data management methodology, development and implementation of MRV system



Papua New Guinea: Energy data management for greenhouse gas emissions and NDC target tracking



Vanuatu: Development of a coconut biofuel strategy

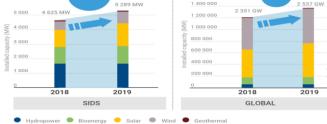


Knowledge Sharing Platform

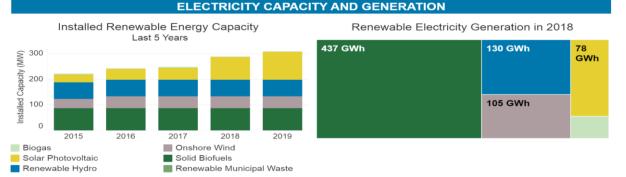
- Website
- LinkedIn

. **Renewable energy** +14% 289 MW 1 400 000 uptake accelerates on 2 351 GW 4 625 MW 5 000 1 200 000 SIDS 1 000 000 800 000 3 000 600 000 Of the 665 MW installed by the SIDS in 2019, 220 MW was 2 000 wind, 380 MW was solar energy, 55 MW bioenergy and 10 400 000 MW hydropower. 1 000

^bThe total installed renewables capacity represented 14.4 per cent growth on SIDS in 2019, double global growth of 7.6% in percentage terms, over the same period.



SIDS LHI Digital story



SIDS regional profiles

Mr. Gurbuz Gonul Director Country Engagement and Partnership (CEP) GGonul@irena.org IRENA Headquarters, Masdar City P.O. Box 236, Abu Dhabi

United Arab Emirates

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Session 2: Interventions

Alfred Rungol

General Manager, Climate Change and Development Authority, Papua New Guinea

Tevita Tukunga

Director of Energy, Ministry of Meteorology, Energy, Environment, Information, Climate Change, Disaster Management, Environment and Communication, Tonga

Emma Sale

Programme Analyst, United Nations Development Programme

Deo Gabinete

Regional Manager, Easter Europe, Asia and the Pacific, NDC Partnership









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PACIFIC NDC DIALOGUE

"ENHANCING AND IMPLEMENTING THE PACIFIC SIDS COMMITMENTS TO THE PARIS AGREEMENT THROUGH ENERGY TRANSFORMATION"

Mr. Alfred Rungol, General Manager/PNG NDC National Focal Point PNG Climate Change and Development Authority Measurement, Reporting and Verification (MRV), and National Communication (NC) Division

Tuesday, 23rd February 2021, 07:00-09:00 AM Gulf Standard Time (GST)



PNG NDC SUMMARY

PNG reported total net Green House Gas (GHG) emissions in 2015 of 15,193 Gg CO2 eq compared to - 14,179 Gg CO2 eq in 2000, a net increase of close to 30,000 Gg CO2 eq.

These increases were driven by a combination of increases in emissions from the energy sector linked to a growing economy and development of PNG's natural gas reserves as well as increases in emissions and a reduction in accounted for removals from the LULUCF sector.

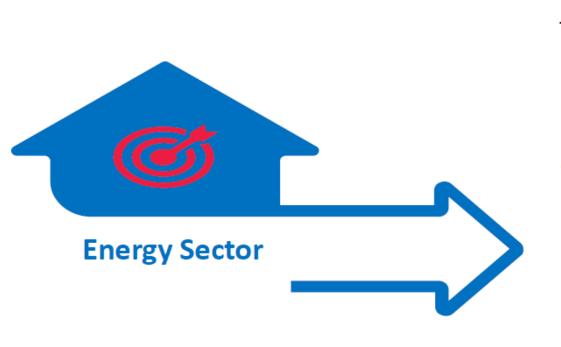
MITIGATION SECTION

PNG's emissions and recent increases are primarily driven by the AFOLU and *Energy sectors*, which accounted for 13,522 Gg CO2 eq, or 89% of reported net emissions in 2015. Total emissions from the energy sector in 2015 were 11,806 Gg CO2 eq, an increase of 5,532 Gg CO2 eq (88.2%) from 2000. Energy industries and Manufacturing industries and construction accounted for 5,596 (47%) Gg CO2 eq of these emissions in 2015 and include emissions from on and off grid electricity





PNG NDC SECTORAL TARGETS



PNG has enhanced its NDC commitments by presenting targets for both the Energy Industries and LULUCF sectors, which made up 38% of PNG's reported net emissions in 2015 consideration of possible actions within the transport sector are also presented. Across both sectors targets are based against a 2015 baseline with the target period covering 2021- 2030. All targets presented are conditional.

PNG NDC Energy Targets

- Reducing energy demand
- Enhancing levels of renewables in the energy mix
 Establishing a framework for fossil fuel emission offsetting
 Enhanced data collection





PNG NDC ENERGY TARGETS AND THE ACTIVITIES

Reducing Energy Demand

 Through adoption and implementation of Minimum Energy Performance Standards and Labelling (MEPSL) Regulations

*Enhancing levels of renewables in the energy mix

 Through increasing from 30% (2015) to 78% the level of installed capacity for on grid electricity generation that is produced by renewables

Establishing a framework for fossil fuel emission offsetting

Framework for offsetting of emissions from fossil fuels will be introduced to support economic incentives for the transition while also helping to finance domestic nature-based solutions in particular reduced emissions and enhanced removals from the forest sector

Enhanced data collection

 To strengthen this process PNG will establish a framework for enhanced data collection on energy use and associated emissions to support improved policy and regulation to manage emissions



Energy Sector



PNG'S THEMATIC EXPERT ADVISORY SUPPORT FOR COVID 19

PNG request for Thematic Expert Advisory Support for COVID 19 focuses these specific sectors;

1. Energy

- 2. Forestry
- 3. Agriculture and Land Use
- 4. Transport
- 5. Disaster Risk and Vulnerabilities
- 6. Water, Sanitation and Hygiene
- 7. Sub-National Governance

The support provide is through desktop research and virtual communication/consultation with key sector leads – from concern key government departments and relevant stakeholders.

Status

- Thematic Expert Group have been identified and in the progress of engagement in specific sectors
- Energy Sector PNG needs further support in terms of climate finance for its renewable energy under its energy targets and NDC implementation Plan.



THANK YOU

For more information, please contact: Mr. Alfred Rungol, General Manager/NDC National Focal Point PNG Climate Change and Development Authority Measurement, Reporting and Verification (MRV), and National Communication (NC) Division Address: P.O.Box 4017. Boroko, NCD. Papua New Guinea Phone: (675) 7411 2493 Email: kaferinrin@gmail.com Website: https://www.ccda.gov.pg







Pacific NDC Dialogue

Enhancing and Implementing the Pacific SIDS Commitments to the Paris Agreement through Energy Transformation



Session 2: Achieving the NDC targets through energy sector transformation

Emma Sale, Programme Analyst/Acting Deputy Team Leader, Resilience & Sustainable Development Unit, UNDP Pacific Office in Fiji

Outline

- Climate Promise
- Climate Actions
- Climate Mitigation & Sustainable Energy
- Opportunities



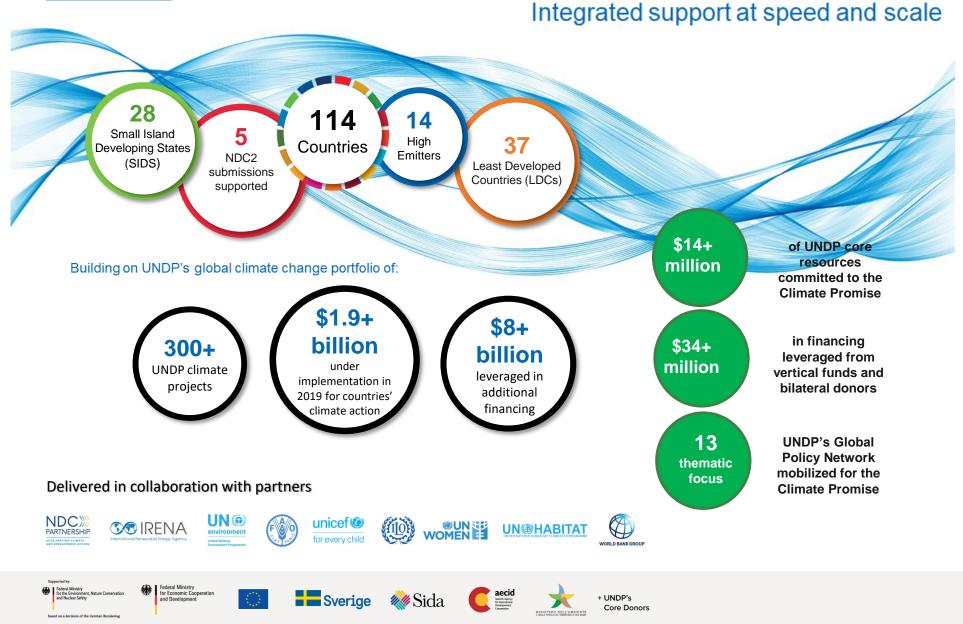
Climate Promise



- The Climate Promise is UNDP's response to the climate challenge. Tackling the climate crisis requires that all countries make bold pledges under the Paris Agreement to reduce emissions of the greenhouse gases (GHG) that cause global warming. The Climate Promise is our commitment to ensure that any country wishing to increase the ambition of their national climate pledge can do so.
- Our Promise support draws upon UNDP's extensive portfolio of expertise across priorities such as energy, forests, water, resilience, agriculture, health, youth, finance, governance, gender equality and green jobs. It also builds upon UNDP's established track record in supporting governments to discuss, design and deliver climate action under Paris Agreement.
- UNDP has agreed Climate Promise workplans with 114 countries making it the world's largest offer of support for the enhancement of countries' climate pledges.
- UNDP Climate Promise is supporting the Pacific Island Countries (PICs) by: (i) building political will; (ii) aligning and updating existing targets, engaging youth, women, indigenous & vulnerable groups; (iii) incorporating new sectors i.e. Forestry and watershed, Agriculture, Nature based solution, Health, Food security, Waste mgt, Tourism and Transport; (iv) assessing the cost and investment opportunity i.e. cost of risk proofing, investment barriers analysis, invest plan; and (v) developing monitoring frameworks/ MRV.



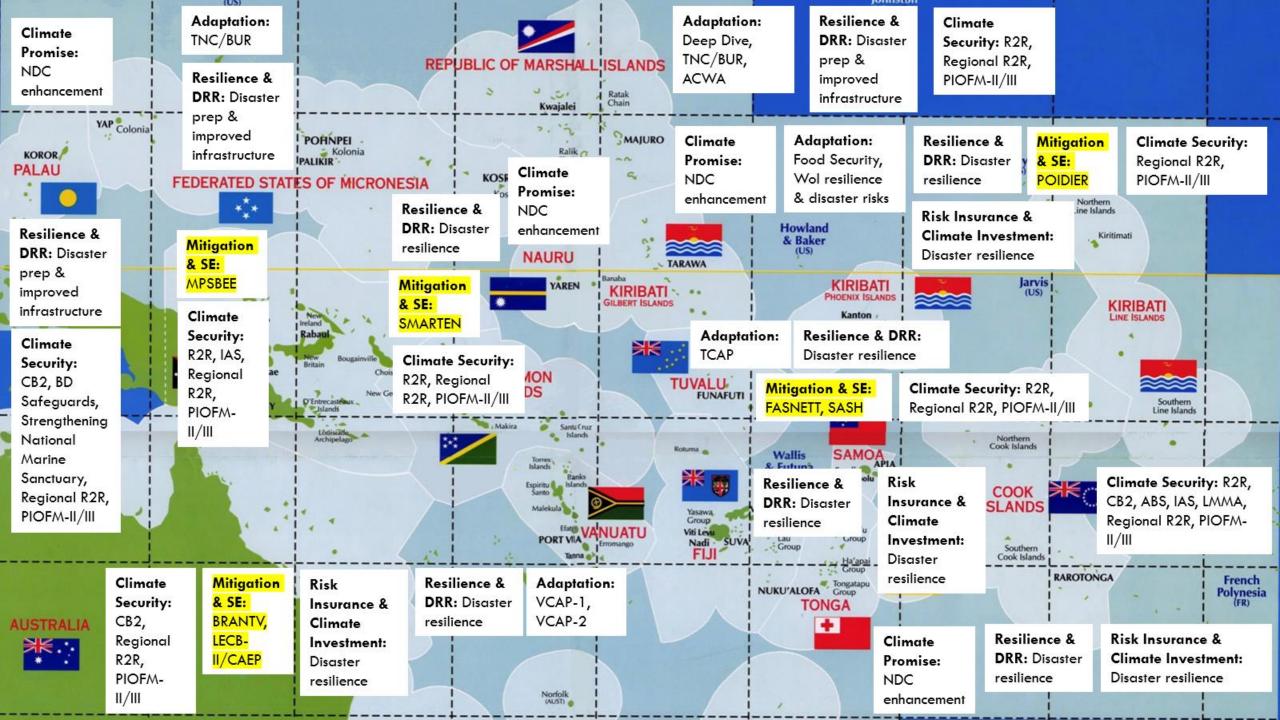
Keeping our Climate Promise



Climate Actions – Pacific Office in Fiji



- Climate Adaptation
- Climate Resilience and Disaster Risk Reduction
- Risk Insurance and Climate Investment
- Climate Mitigation & Sustainable Energy
- Climate Security





- FSM: Micronesia Public Sector Buildings Energy Efficiency (MPSBEE) Project
- Kiribati: Promoting Outer Island Development through the Integrated Energy Roadmap (POIDIER)
- Nauru: Supporting Mainstreamed Achievement of Roadmap Targets
 on Energy in Nauru (SMARTEN)
- Tuvalu: Facilitation of the Achievement of Sustainable National Energy Targets of Tuvalu (FASNETT); and Solar Home Systems for Funaota.
- Vanuatu: Barrier Removal for Achieving the National Energy Road Map Targets of Vanuatu (BRANTV); and NDC Support Programme.

Project	Budget (US\$)	Goal/Objective indicators	Initial NDC Targets
FSM MSPBEE	Total: US\$5,276,484 GEF: US\$1,776,484	Specific energy consumption in the buildings sector, from 150 to 140 kWh/m2/yr; and Cumulative incremental GHG emission reduction from the buildings sector from 0 to 3,974 tons CO_2e .	Unconditional: reduce by 2025 28% of GHG emissions below 2000 levels Conditional: additional reduction up to 35% below 2000 levels.
Kiribati POIDIER	Total: US\$32,302,752 GEF: US\$5,379,452	Cumulative tons of incremental GHG emission reductions from business as usual, from 0 to 58,049 tons $\rm CO_{2.}$	Unconditional: reduce emissions by 13.7% by 2025, and 12.8% by 2030 Conditional: reduce emissions by 61.8% by 2030.
Nauru SMARTEN	Total: US\$26,067,968 GEF: US\$3,302,968	Cumulative GHG emission reduction from fossil fuel utilization in the <i>electricity sector</i> , from 0 to 43,858 tons CO ₂ Cumulative reduction in fossil fuel consumption due to implemented RE and EE technology projects as influenced by the project interventions, from 0 to 13,955 toe %RE electricity production, from 3% to 47.4%	NERM: (i) 24/7 grid electricity supply with minimal interruptions; (ii) 50% of grid electricity supplied from renewable energy sources; (iii) 30% improvement in energy efficiency in the residential, commercial and government sectors.
Tuvalu FASNETT, SASH	Total: US\$18,539,725 GEF: US\$2,639,725 India-UN: US\$213,151	% share of RE in the national power generation mix, from 26% to 67% Cumulative GHG (CO ₂) emission reduction from power generation, from 0 to 15,000 tons CO_2	Reduction of GHG emissions from electricity generation by 100% by 2025. Reduction in total GHG emissions from energy sector to 60% below 2010 levels by 2025.
Vanuatu BRANTV, NDC Support Programme	Total: US\$20,802,170 GEF: US\$2,639,726 NDC SP: US\$1,110,400	Cumulative tons of incremental GHG emissions reduced from business- as-usual, from 0 to 45,016 tons CO ₂ Total new, incremental reductions in or newly avoided amounts of annual diesel consumption achieved from 0 to 272,212 liters DFO	Approach 100% RE in electricity sub-sector by 2030; 100% below BAU emissions for electricity sub- sector and 30% for energy sector.

Opportunities



- Tracking systems document and monitor how climate mitigation & sustainable energy projects are helping countries achieve NDC targets (country and regional levels)
- Project execution support -
 - Consult the private sector, PPA and SEIAPI in the design and execution of demonstration activities.
 - 'Go-to Platform' for technical know-how and experience (e.g. villagebased solar and/or micro-hydro systems, floating solar PVs, solarpowered water purifiers, etc.), and project management.
 - Coordination of country-level and regional activities.





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THE NDC PARTNERSHIP IN CONTEXT CREATING MOMENTUM FOR LONGER TERM, ENHANCED ACTION

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Dedicated mechanisms to address needs arising from implementing and raising the ambition of NDCs

A growing membership to secure and enhance financial support, diverse expertise, credibility and political commitment

Flexibility of support, based on country ownership



Broad range of services: from TA for enabling policies, to financing implementation



EXAMPLES OF THE PARTNERSHIP'S SUPPORT IN THE ENERGY SECTOR



FINANCING ENERGY INVESTMENTS

Fiji: Renewable Energy Access Fund

- Request: To procure a vendor who would provide technical assistance in designing a private sector-led facility that can deploy renewable energy access in Fiji and other Pacific SIDS
- **Objectives:** To develop an Investment Product Development Plan, which will comprise of three main activity areas:
 - 1. Project Pipeline develop and refine a pipeline of projects across Pacific SIDS.
 - 2. Legal, Financial & Structuring incorporating initial legal and financial structuring for the facility.
 - 3. Development & Private Sector Investor Market Sounding, Investor Agreements develop and undertake preliminary investor market sounding of legal and financial structures—including derisking structures—for the facility and any additional entities, including regulatory and tax advice.
- Request date: October 2020
- **Response:** Support provided by the United Kingdom
- Current Status: A request for proposal process was concluded in January 2021 and a winning vendor has been identified. The contract is expected to be finalized and signed in February 2021



IMPLEMENTATION PLANNING

Marshall Islands: Implementation of the Renewable Energy Roadmap

- Output: Implementation of Electricity Roadmap toward 100% renewable electricity as early as feasible
- Validation date: November 2018
- Supported by: Support provided by ADB, Australia, EU, IRENA JICA, New Zealand, UNDP, USA, World Bank, WRI
- Start/end date: January 2020 to January 2023
- **Current Status:** A Project Manager for this output has been hired with funding from New Zealand. The work for this particular output is ongoing, including supporting the development of the energy bill, installation of energy efficient light in streets and public buildings, as well as the Outer Island Renewable Energy project



CLIMATE ACTION ENHANCEMENT PACKAGE

Papua New Guinea

Integrated energy data management system

- Conduct energy data audit, analyse results and prepare data collection forms, monitoring protocol and database.
- Train relevant stakeholders to collect data and update the database.
- Pilot test the procedure and produce first statistical reports.
- Hold training course in data analysis for calculating emissions and setting targets.

Delivery partner: IRENA

Vanuatu

Support to scale-up the rural electrification initiative, including the use of new technology.

- Feasibility studies
- Pilots

Delivery partner: UNDP



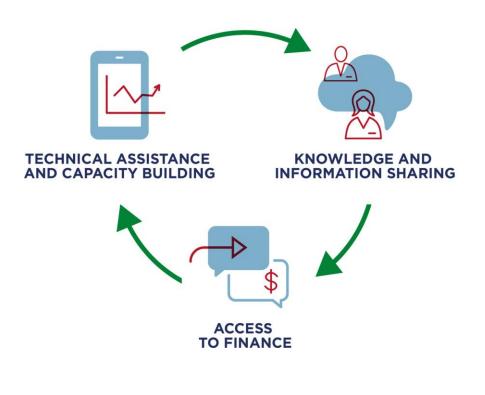
AN EXAMPLE: WORK IN THE HOSPITALITY SECTOR

Countries using EE to promote their tourism sector

- **Grenada** is organizing capacity building workshops on Energy Management and Audit, for various actors, including Hotel and Tourism Associations.
- **Honduras**: is conducting 1) a pre-feasibility study about energy efficiency and distributed generation potential in the Hospitality sector, 2) a communication and information campaign targeted at the Hospitality industry about the integrated benefits of EE and renewable-based technologies, and 3) organizing a workshop to present and validate an NDC roadmap with sector representatives and relevant stakeholders.
- Saint Lucia: is developing 1) some recommendations for low carbon tourism development; 2) some tools to measure hotel performances; and also 3) involving private companies from the hotel and tourism sector in its energy transition policies.



HOW CAN COUNTRIES LEVERAGE SUPPORT FROM NDC PARTNERSHIP?



- Enhancing means for NDC preparation and implementation (updated targets, broaden scope, roadmaps, CBAs, data & MRV, LTS)
- Facilitating access **knowledge tools and resources**
- Supporting peer-to-peer learning
- Sharing **insights and successes** to inform and inspire broader action
- prioritize and communicate their investment needs to potential financing partners
- Capture and communicating relevant investment opportunities to its network and engage a wider range of potential public and private partners
- Developing strategies, implementing policies, and actions that build effective enabling environments
- Providing **information resources and tools** to help countries learn how to access finance from diverse sources





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Session 3:

Role of NDCs and Long-term Low Emission Development Strategies in promoting green recovery in the Pacific SIDS

Nilesh Prakash

Senior Advisor – Political and Private Sector Engagement, Regional Pacific NDC Hub, GIZ





Session 3: Interventions

Angeline Heine

Director of Energy, Republic of the Marshall Islands

Jeanette Mani

Mitigation Specialist, Climate Change Division, Ministry of Economy, Fiji

Daniel Munoz-Smith

Country Representative in Fiji, Kiribati, Tonga and Vanuatu, GGGI

Akuila Tawake

Deputy Director, Georesources and Energy Programme, Pacific Community



Pacific NDC Dialogue

23 February 2021

Daniel Muñoz-Smith, GGGI Country Representative



GGGI at a **Glance**

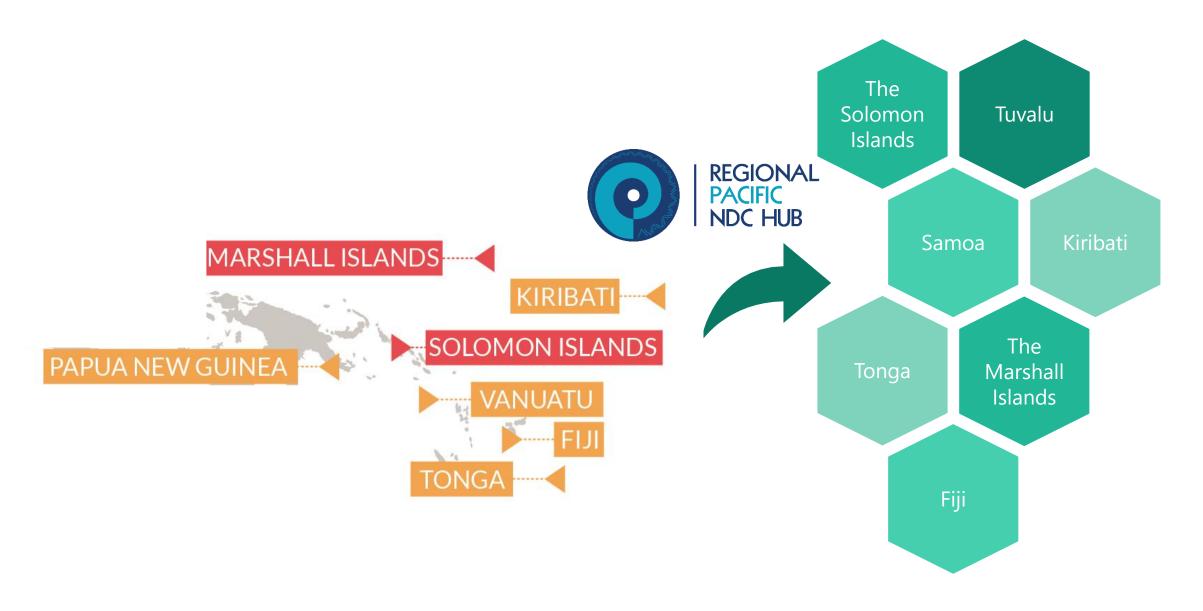


Headquartered in Seoul, Republic of Korea, GGGI has 38 Members.



GGGI through the Pacific NDC Hub





NDC and Long-term LEDS Implementation by GGGI



NDC Implementation Roadmap	 Fiji – developed in 2017. Through the NDC Hub, GGGI is developing NDC Implementation Roadmaps in 4 countries: Kiribati Samoa Tonga Tuvalu
NDC Investment Plan and Project Pipeline	 Through the NDC Hub, GGGI is developing NDC Investment Plans in 5 countries: Fiji Kiribati Samoa Tonga Tuvalu
Low Emission Development Strategy (LEDS)	 Fiji LEDS (2018-2050) – developed in 2018. Tonga LT-LEDS – to be completed in 2021. Solomon Islands LEDS Preparatory Support – delivered through the NDC Hub, work to begin in April 2021. Vanuatu LEDS – currently under development.

Approaches to Long-term LEDS in the Pacific



	Vanuatu	Fiji	Tonga
Target and modeling	 Scenario Driven Exploring long-term options and scenarios, then Set targets Quantitative 	 Target Driven Set a long - term target (e.g., int'l pledge) Back-casting emission pathways to meet target Quantitative/qualitative 	 Vision Driven Future vision & general objectives Options to achieve vision Opportunities & challenges Qualitative
Coverage	 Comprehensive Set targets All GHG emissions related sectors Blue carbon Adaptation Co-benefits 	 Mitigation All GHG emissions related sectors Blue carbon Co-benefits No or limited adaptation 	 High-level/Limited Focus on strategy/systems Limited sectoral coverage Limited or no co-benefits
Implementation and Monitoring	 Implementation and finance plan Monitoring and evaluation framework 	 Sectoral implementation and finance plan Monitoring and evaluation framework 	 No Implementation and finance plan No Monitoring and evaluation framework

Thank You



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Session 4:

Way Forward and Concluding Remarks

Amjad Abdulla

Head of Partnerships, International Renewable Energy Agency (IRENA)









Amjad Abdulla Head of Partnerships, IRENA

Christian Görg

Project Manager, Regional Pacific NDC Hub









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