

# FRAMEWORK FOR ENERGY SECURITY AND RESILIENCE IN THE PACIFIC

Sustainable Energy Investment Forum – Vanuatu

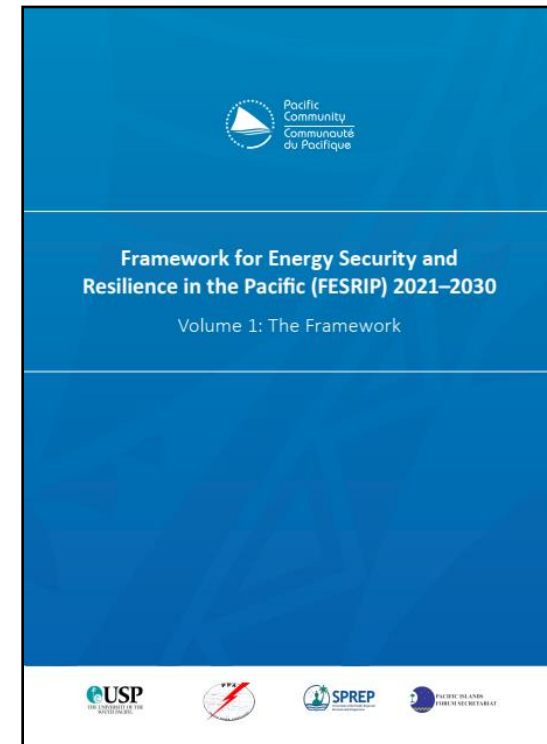
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# Framework for Energy Security and Resilience in the Pacific (FESRIP) 2021-2030

**Long-term Goal:** Access to secure, robust, sustainable and affordable electricity, transport fuel and household energy services that are resilient to climate change and natural disasters.

**Key Parties:** SPC (lead); SPREP (environmental aspects & CC); PPA (power utilities); USP (education, training & research); and PIFS (regional policy alignment)

**Priorities and Sovereignty:** FESRIP actions will assist PICTs to develop and implement their national energy sector priorities and goals (i.e. development & energy policies, NDC commitments, etc.



# Issues & Challenges

About 80% of PICT energy uses petroleum

Energy Efficiency initiatives not enough

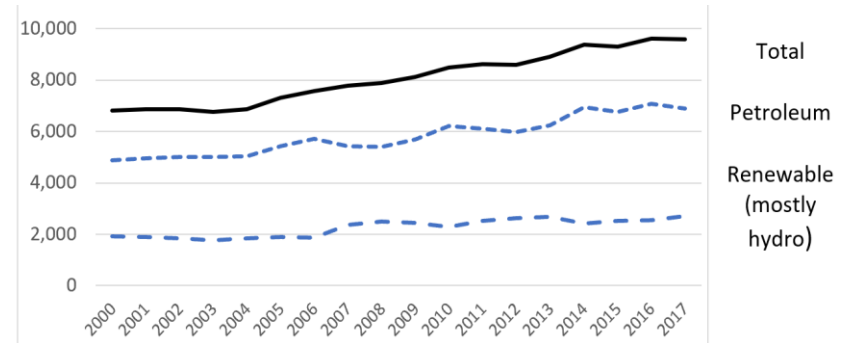
PICT transport nearly 100% petroleum-fuelled

Need better collaboration among energy centres

Gender inequality in senior energy positions

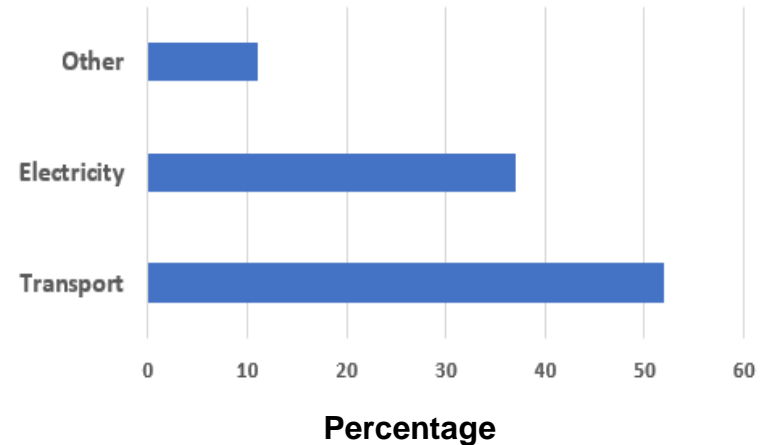
Need regular tracking of progress vs targets

Need to strengthen coordination and collaboration



PICT Electricity Generation 2000-2017 (GWh)

Approximate Petroleum Fuel Use (% PICTs, 2017)



# Opportunities

## Improving PICTs Energy Security and Resilience through.....

Renewable electricity generation

Energy Efficiency investments

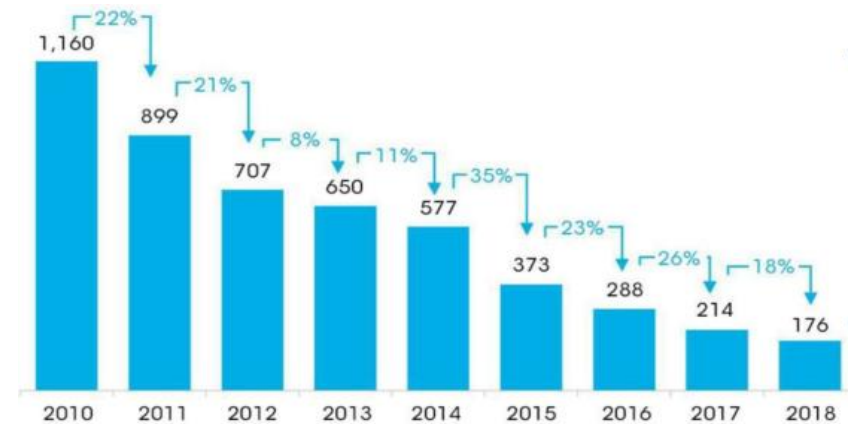
Low Carbon transport technologies

Improved data analysis & management

New policies, plans & implementation addressing risks & uncertainties

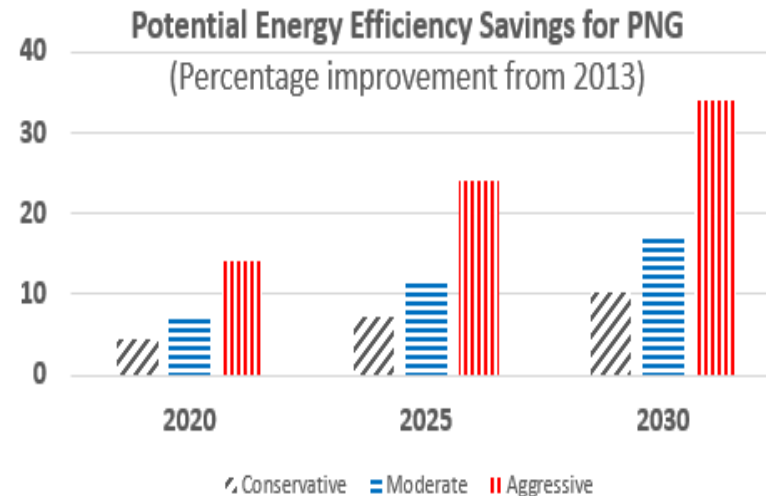
Improved capacity to address challenges

Improving petroleum supply security, costs, & storage / distribution safety



BloombergNEF

**Lithium-ion battery price trends 2010-2018**  
(US\$/kWh in 2018 dollars)



# FESRIP Priority Areas

## Priority A: Energy Policy, Planning and Capacity Development

- |   |   |
|---|---|
| 1. Development and implementation of robust national energy policies, plans and legislation | SPC, lead; PPA for power sector                       |
| 2. Capacity development in the energy sector  | USP, lead in cooperation with the other CROP agencies |
| 3. Database development with energy resilience/security indicators                          | SPC and PPA, co-leads                                 |
| 4. Rectifying gender imbalance in the energy sector   | SPC, lead   |
| 5. Non-commercial household energy  | SPC, lead in cooperation with USP                     |

## Priority B: Energy Sector Finance and Cooperation

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|--|--|
| 6. Financing a regional energy framework                                     | PIFS, with participating CROP agencies |
| 7. Regional support to Pacific Island territories                            | SPC, lead                              |
| 8. Cooperation in sustainable and resilient energy with other island regions | SPC, PPA and SPREP, co-leads           |
| 9. Cooperation with the private sector in energy                             | PPA and SPC, co-leads; PIFS            |

# FESRIP Priority Areas (cont.)

## Priority C: Sustainable Electric Power Development (PPA lead for grid-based electrification; SPC for off-grid/mini-grid)

|  |  |
|--|--|
| <b>10.</b> Climate-resilient power generation and distribution for island grids                                    | PPA and SPC, co-leads                    |
| <b>11.</b> Overcoming technical limitations to high penetrations of renewable energy                               | PPA, lead                                |
| <b>12.</b> Financial and management mechanisms for sustainability of outer island and remote rural electrification | SPC and PPA, co-leads                    |
| <b>13.</b> Inspection and maintenance of RE technologies   | SPC, lead with PPA                       |
| <b>14.</b> Regional RE standards for hurricanes and natural disasters  | SPC and PPA, co-leads                    |
| <b>15.</b> Implementation of national goals and NDC commitments for renewable electricity                          | SPC, SPREP and PPA, co-leads             |
| <b>16.</b> Expanding and increasing the range of RE technologies   | No overall lead;<br>SPC for ocean energy |
| <b>17.</b> Independent energy regulation   | SPC, initial lead                        |

# FESRIP Priority Areas (cont.)

## Priority D: Low-Carbon Transport Energy

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|---------------------------------|------------------------------|
| 18. Land transport energy use   | SPC, lead                    |
| 19. Marine transport energy use | SPC, USP and SPREP, co-leads |
| 20. Air transport energy use    | No specific lead             |

## Priority E: Improved Energy Efficiency

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|--|------------------|
| 21. Improved energy efficiency within buildings and economy wide | No specific lead |
|--|------------------|

## Priority F: Petroleum and Other Liquid Fuel Services

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|--|-----------|
| 22. Petroleum advisory services: fuel pricing, contracting, monitoring and biofuels          | SPC, lead |
| 23. Petroleum advisory services: fuel storage, distribution infrastructure and miscellaneous | SPC, lead |

# PCREEE 2<sup>ND</sup> OPERATION PHASE (2021-2025)

## 4 Strategic Programmes:

Programme 1: RE&EE Business Start-Up and Entrepreneurship Support

Programme 2: RE and EE for Sustainable Mobility

Programme 3: RE mini-grids

Programme 4: Energy Efficiency Investment.





# Next Steps

FESRIP endorsed by Pacific Forum Leaders.....

CROP agencies & partners to prepare a 3-year implementation plan of anticipated priorities and key work

Preparation for the September Workshop & PCREEE's 6<sup>th</sup> Steering Committee Meeting

Organise and report to the 5th PRETMM with Govt of Vanuatu



**Solar PV installation on Kiritimati Island, Kiribati**