



Pacific  
Community  
Communauté  
du Pacifique

# PACIFIC ENERGY OPPORTUNITIES & CHALLENGES



# Pacific Community (SPC)

SPC is the principal scientific and technical development organisation in the Pacific region, proudly supporting development since 1947. We are owned and governed by our 27 country and territory members who we serve.



CCES Climate Change  
& Environmental Sust.



EQAP Education &  
Quality Assurance



FAME Fisheries,  
Aquaculture & Marine  
Ecosystems



GEM Geoscience, Energy  
& Maritime



HRSD Human Rights  
& Social Development



LRD Land Resources  
Division



SDD Statistics for  
Development





Pacific Community  
Communauté du Pacifique



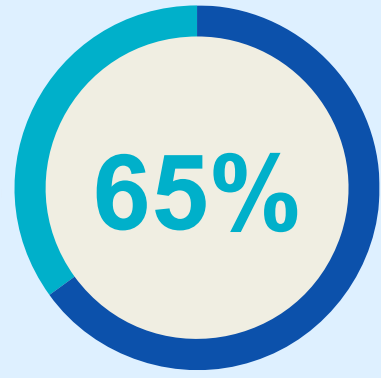


**SPC is the mandated regional agency to deliver technical and scientific solutions for energy security including coordination of energy security to address the level of scale required for both access and decarbonisation.**

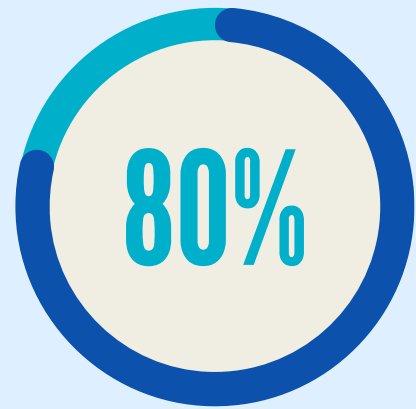
**Caption: Floating solar farm in Tuvalu being tested at present**







Approximately 65 per cent of Pacific peoples still lack access to regular energy



80 per cent of the regions total energy supply is from fossil fuels / petroleum. 70% of electricity is produced from petroleum fuel.



Road and Marine transport is almost 100 per cent petroleum driven.

# PACIFIC REALITY



# RESILIENT ENERGY

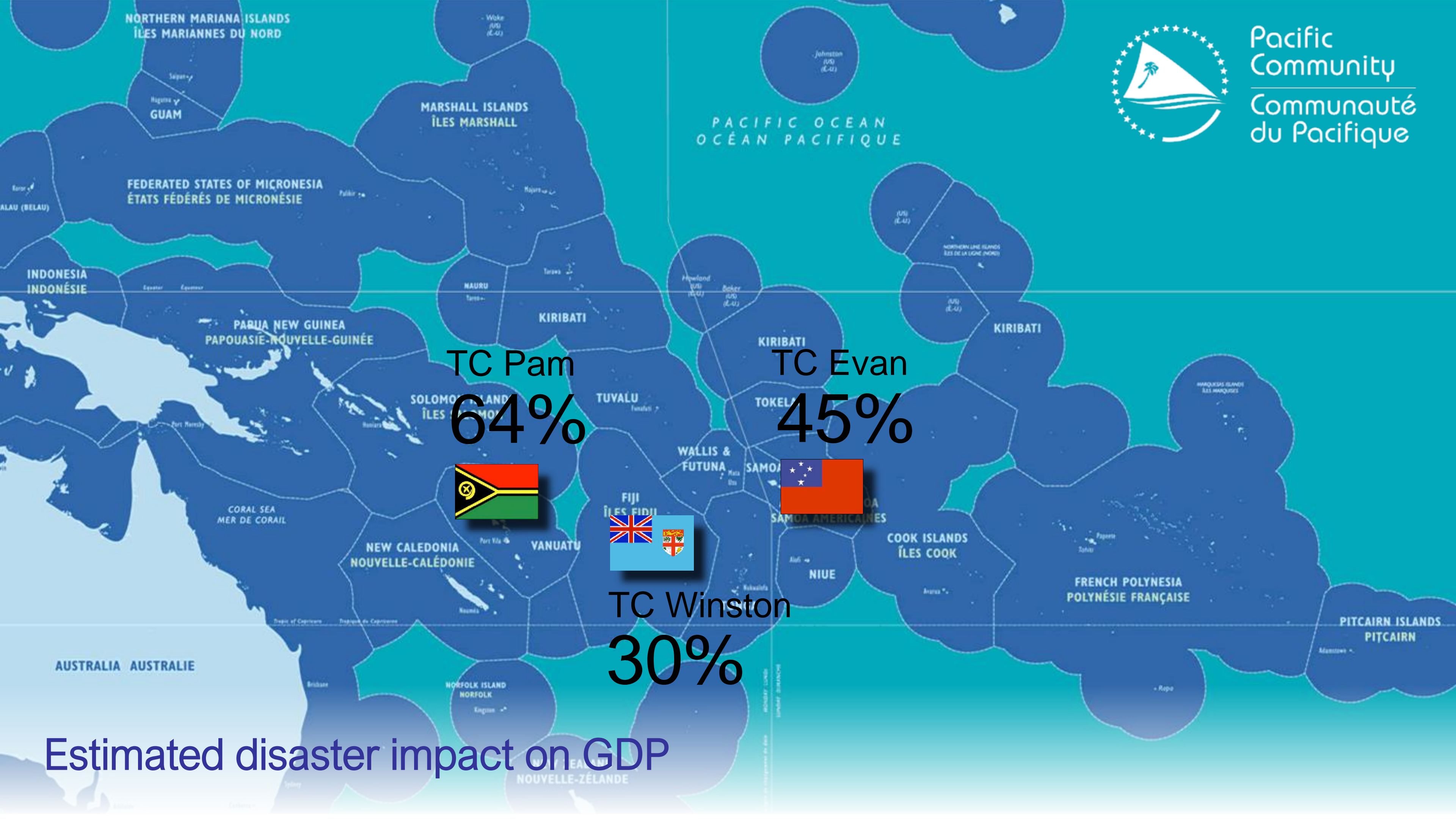
**Energy transition in the Pacific region needs to be resilient to disaster risk as the region is on the frontline of climate change.**







Pacific  
Community  
Communauté  
du Pacifique



TC Pam  
64%



TC Evan  
45%



TC Winston  
30%

Estimated disaster impact on GDP





**Framework for Energy Security & Resilience in  
the Pacific (FESRIP) 2021-2030.**

**Scale, innovation, diversity & remote access are  
critical drivers to energy security.**





Priority Areas	Initiatives
<b>A: Energy Policy, Planning and Capacity Development</b>	1. Development and implementation of robust national energy policies, plans and legislation
	2. Capacity development in the energy sector
	3. Database development with energy resilience/security indicators
	4. Rectifying gender imbalance in the energy sector
	5. Non-commercial household energy
<b>B: Energy Sector Finance and Cooperation</b>	6. Financing a regional energy framework
	7. Regional support to Pacific Island territories
	8. Cooperation in sustainable and resilient energy with other island regions
	9. Cooperation with the private sector in energy
<b>C: Sustainable Electric Power Development</b>	10. Climate-resilient power generation and distribution for island grids
	11. Overcoming technical limitations to high penetrations of renewable energy
	12. Financial & management mechanisms for sustainability of outer island & remote rural electrification
	13. Inspection and maintenance of RE technologies
	14. Regional RE standards for hurricanes and natural disasters
	15. Implementation of national goals and NDC commitments for renewable electricity
	16. Expanding and increasing the range of RE technologies
	17. Independent energy regulation
<b>D: Low-Carbon Transport Energy</b>	18. Land transport energy use
	19. Marine transport energy use
	20. Air transport energy use
<b>E: Improved Energy Efficiency</b>	21. Improved energy efficiency within buildings and economy wide
<b>F: Petroleum and Other Liquid Fuel Services</b>	22. Petroleum advisory services: fuel pricing, contracting, monitoring and biofuels
	23. Petroleum advisory services: fuel storage, distribution infrastructure and miscellaneous

## FESRIP Priority Areas



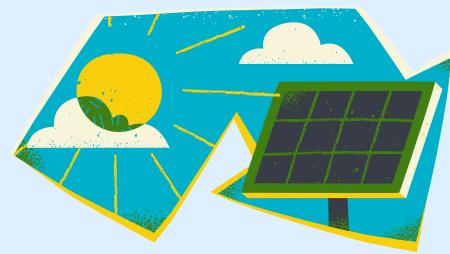
# 5<sup>th</sup> PACIFIC REGIONAL ENERGY AND TRANSPORT MINISTERS MEETING, PORT VILLA

## VANUATU, MAY 2023

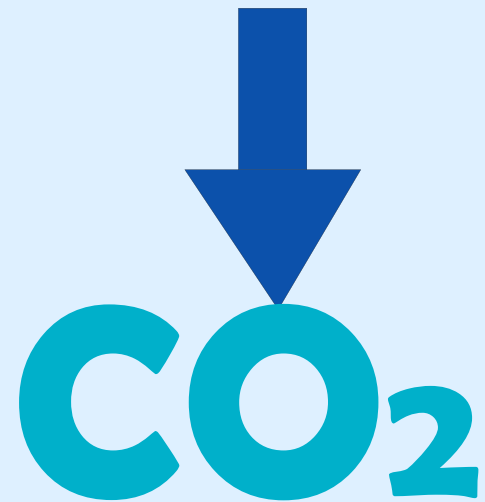
- Strong partnerships (including scale of value chain and private sector investment), increased flexible and responsive funding, a just and equitable transition (access and decarbonisation)
- Reaffirm the critical importance of the Leaders' call for a clear pathway for energy security and the urgent need for decarbonisation of energy systems including electricity, transportation and clean cooking; and the need to address supply chain issues, rising costs of fuel and knowledge gaps (implement FESRIP and PEGSAP)



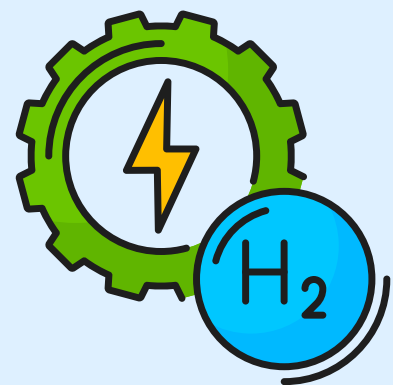




Capacity building at national and regional organisations for energy transition – SPC/SPREP/OPERA



Decarbonisation of maritime and land transport services



Green hydrogen and innovation i.e. geothermal, ocean energy, PHES biomass feasibility at scale.

# PRIORITY AREAS



Implementation of the Framework for Energy Security and Resilience in the Pacific 2021-2030  
Pacific Energy Gender Strategic Action Plan 2020-2024



# 5<sup>th</sup> PACIFIC REGIONAL ENERGY AND TRANSPORT MINISTERS MEETING, PORT VILLA

VANUATU, MAY 2023

## *Efate Outcome statement*

### *Innovative technologies to accelerate decarbonisation*

- **Recognise** the decarbonization potential of emerging technologies such as ocean energies, green hydrogen and its derivatives, geothermal, bioenergy, waste-to-energy, electrical vehicles and called for further analysis and enhanced development in the region.
- **Call on** IRENA and other partners to further examine the potential role of green hydrogen and its derivatives for decarbonisation of the Blue Pacific with a view to developing a timebound Pacific regional green hydrogen strategy.

### *Energy Official Resolution - **Fuelling the Pacific Through Green Hydrogen***

#### **Energy Officials:**

- **Called for a dramatic deepening of** decarbonisation efforts in PICTS through the recognition of potential contribution of green hydrogen and its derivatives;
- **Recommend** to further examine the potential role of green hydrogen in the region and expected timeframe with a view to developing a Pacific regional green hydrogen strategy.