

## 5TH PACIFIC REGIONAL ENERGY AND TRANSPORT MINISTERS' MEETING

8-12 MAY 2023, PORT VILA, VANUATU.

"Accelerating decarbonisation in the Blue Pacific".

### SIDE EVENT

## Planning Frameworks and Capacity Expansion Modelling Tools for Renewable Energy Transition in the Pacific

Monday 8<sup>th</sup> May 2023 | Warwick Le Lagon Resort | Ball Room

### Session Synopsis and Rationale

This side event will have a particular focus on planning frameworks and capacity expansion modelling tools that can help address the Pacific region's challenges on energy access, resilience, integration, and fossil fuel dependence within and beyond the electricity sector. This forum will provide an ideal platform to engage with the industry stakeholders and initiate dialogue on the cross-sector energy integration issues and the energy modelling tools that will support this transition.

Participants will have an opportunity to discuss and deliberate on the objectives and recommendations on the paper '*E8 Integrated Energy Planning and Modelling Tools for the PICT region*' which will be presented at the ministerial delegation. The agenda will include overview of Capacity Expansion Modelling (CEM) software tools, review of tools currently used by PICT utilities and other jurisdictions; discussion on technical capacity and constraints to undertake technoeconomic modelling at a local level, the need for a regional study to identify and gain better understanding of the issues, identify weaknesses and opportunities in the current approaches to planning and modelling for renewable energy capacity expansion for countries in the region.

This event will emphasise the need for robust techno-economic assessment tools that can be used by decision makers, energy system planners, regulators, project developers and investors to determine how they can achieve their targets at least-cost, while maintaining energy security, resilience and reliability, therefore supporting the objectives and theme of the 5<sup>th</sup> PRETMM, '*Accelerating decarbonisation in the Blue Pacific*'.

### Please Find Registration Link

<https://spc.zoom.us/meeting/register/tJwsdu2urDouGN1sVldXOyWKswGXCA5t7UtC#/registration>

### Lead Coordinators

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## AGENDA

Time	Agenda	Presenter	Time (mins)
14:00	<b>Introductory Remarks and Participant Introductions (1-2 minute each)</b> <i>Interactive: Name/Country/Organisation/Reason for attending event, key issues and challenges with regards to planning, expected outcomes from the workshop</i>	Iain McGill	30
14:30	<b>Overview of Capacity Expansion Modelling, Tools currently used by different jurisdictions in the PICT's</b> <i>Interactive: What is their current planning framework? Which CEM Tools are they currently using? What is their current capacity to undertake planning?</i>	Jay Prasad	20
14:50	<b>Demonstration: Decarbonisation Modelling Tool</b>		10
15:00	<b>Break</b>		30
15:30	<b>Participant Discussion</b> <i>Interactive: Issues and challenges in using planning tools, what tools are they currently using, is it readily available, ease of use, resource/expertise availability, is planning done inhouse/outsourced, how is knowledge transferred/retained if outsourced, modelling outputs verification, etc.</i>	Atul Raturi	40
U16:10	<b>Overview of Paper on Integrated Energy Planning and Modelling Tools for the PICT region, future considerations and recommendations</b> <i>Interactive: What other issues need to be addressed?</i>	Jay Prasad	10
16:20	<b>Wrap-up, Presentation/Analysis of Survey Results, Closing remarks</b> <i>Interactive: Session Feedback</i>	Kelly Strzepek Iain McGill	10
16:30	<b>Close</b>		

The interactive sessions will include participant discussions, surveys and feedback using Slido and other forms.