



# **Kiribati Sustainable Energy Transition Capacity Building Week**

**17 – 21 June 2024**

**Training on developing SDG 7 Road Map using the  
NEXSTEP framework**

**Capacity building on Minimum Energy Performance  
Standards and Labelling (MEPSL)**

**Launch of the SDG 7 Road Map for Kiribati**

***Tarawa, Kiribati***



## **Background**

ESCAP and the Ministry of Infrastructure and Sustainable Energy (MISE) have been collaborating since 2022 to facilitate a long-term sustainable energy transition for Kiribati. The collaboration began with the development of the SDG 7 Road Map for Kiribati. This Road Map development process involved an in-depth examination of the entire energy system of Kiribati, collection of data involving the entire supply and demand chain, several multi-stakeholder consultations, extensive energy and emissions modelling, and economic analysis of different energy scenarios. The draft Road Map was completed and received National Cabinet's approval in November 2023. The SDG 7 Road Map presents technological options and policy recommendations for the Government of Kiribati to help achieve the SDG 7 targets 2030. Additionally, the Road Map also looks beyond 2030 to help establish ambitious targets for Kiribati e.g. decarbonisation of the power sector by 2050.

## **Launch of the SDG 7 Road Map**

The Road Map will be officially launched jointly by MISE and ESCAP on 17 June 2024. The objectives of this launching event are as follows:

- a) Officially launch the SDG 7 roadmap for Kiribati.
- b) Disseminate the key results and policy recommendations to responsible representatives from various agencies such as government bodies, private sectors, and academic and research institutions; and
- c) Encourage partnerships and collaborations to support the implementation of the SDG 7 Road Map.

## **Training on Minimum Energy Efficiency Standards and Labelling (MEPSL)**

The key policy recommendations from the Road Map include (a) accelerating efforts to clean cooking fuels and technologies, (b) increasing energy efficiency, particularly introducing Minimum Energy Performance Standards and Labelling (MEPSL) for the residential and commercial sectors, (c) accelerating transport sector electrification and (d) power sector decarbonisation by 2050.

MISE has identified that development and implementation of MEPSL is critical for Kiribati as the country relies solely on diesel for electricity generation which is imported and thus it's



crucial to transition to higher share of renewable energy sources by 2030. However, large-scale renewable energy implementation should follow optimum energy efficiency to avoid unnecessary investment in renewable energy. In this context, the Government of Kiribati in line with the recommendations of the SDG 7 Road Map, has requested for ESCAP support in capacity building to develop MEPSL mechanism. The training on MEPSL needs to be designed to suit the local context and be appropriate to the regional guidelines for electrical appliance registration, e.g. by sharing lessons and learnings from the Pacific countries where MEPSL mechanism has been developed and implemented. This training will bring together policymakers, regulators, customs officers, importers and retailers to discuss a range of topics that are important to develop, implement and maintain the MPESL mechanism in Kiribati. To implement and maintain a good MEPSL mechanism in Kiribati, stakeholders need to enhance their knowledge and capacity in the following areas:

- Basic knowledge of MEPSL, including its purpose, benefits, challenges, etc.
- MEPS in the context of the Pacific region.
- Keys to implementing a well-structured MEPSL mechanism.
- Regional/international experiences on best practices and lessons learned.
- Registering appliances in the Pacific Appliance Database (PAD) system.
- Testing of appliances and producing test reports.
- Guidance for customs department on checking appliance specifications.

***Regional cooperation:*** The Government of Samoa has successfully implemented a MEPSL mechanism through a holistic approach by involving a range of stakeholders, including policymakers, private sector and regulators. The experience in Samoa is expected to be applicable to the context of Kiribati. The Government of Samoa has kindly offered that two personnel from the Energy Policy Coordination and Management Division of the Ministry of Finance could visit Kiribati and share Samoa's experience in developing and implementing MEPSL (Minimum Energy Performance Standard and Labelling). The Pacific Community (SPC) is an integral part of the regional MEPSL mechanism and administers the PAD system. Contribution and support from SPC will be important to successfully complete the training.



## Training on long-term energy planning using NEXSTEP

The capacity building week will also deliver the NEXSTEP<sup>1</sup> energy planning training, which is a fully hands-on training targeted for energy planners and experts who will provide inputs to future updating of the SDG 7 Road Map as well as contribute to the development or updating of national energy strategies (e.g. Kiribati Energy Road Map). This hands-on training will use Low Emissions Analysis Platform (LEAP) tool, which has also been used to develop the SDG 7 Road Map, and cover energy demand and supply modelling, emissions modelling and economic analysis. This two-day training program will offer in-depth knowledge, along with hands-on experience, on energy and emissions modelling using LEAP tool, economic analysis of power generation with different technologies, and scenario analysis using MCDA. This training is composed of three main items:

- a) Lectures: Presentations from the facilitator will explain step-by-step process of using the LEAP tool, including:
  - Setting up basic parameters – factors and key assumptions
  - Creating the demand tree
  - Creating the supply/transformation tree
  - Setting up the emissions module
  - Developing scenarios
  - Displaying and extracting/transporting results
- b) Hands-on work: Participants will be given access to the LEAP tool to work on a fictitious project involving creating a demand tree, creating the supply module and setting up the emissions parameters.
- c) Evaluation: Participants' learning will be assessed using short questions based on the lessons learned from the training.

This training would be appropriate for stakeholders working on or are involved in long-term energy planning and policy development. This may include participation from the government agencies, as well as any other organisations/agencies as deemed appropriate by MISE. To maximise the usefulness of this training, the participants will be given a case study to apply their learning from the training. On successful completion of the training, participants will receive a certificate of participation jointly signed by ESCAP and MISE.

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<sup>1</sup> The National Expert SDG Tool for Energy Planning (NEXSTEP) is the guiding framework for developing SDG 7 Road Maps. Visit the NEXSTEP online portal at [www.nexstepenergy.org](http://www.nexstepenergy.org) for further details.



## Agenda

Launch of the SDG 7 Road Map

17 June 2024; Venue: TBC

Time	Topic	Speaker/Presenter
08:30 – 09:00	Registration of participants	
09:00 – 09:10	Welcome remarks	<b>Ms. Armida Salsiah Alisjahbana</b> , <i>Under-Secretary-General of the United Nations and the Executive Secretary, United Nations Economic and Social Commission for Asia and the Pacific (ESCAP)</i> -TBC
		<b>Mr. Jaap van Hierden</b> , UN Resident Coordinator-TBC
09:10 – 09:20	Keynote speech	<b>Honourable Willie Tokataake</b> , Minister, Ministry of Infrastructure and Sustainable Energy - TBC
09:20 – 09:35	Presentation	Key findings and recommendations on the SDG 7 Road Map Anis Zaman, Economic Affairs Officer, Energy Division, ESCAP
09:35 – 09:40	Official launch of the Road Map	
09:40 – 10:00	Group photo and morning tea	



## Agenda

Training on developing SDG 7 Road Map using the NEXSTEP framework

17 – 18 June 2024; Venue: TBC

Day 1: 17 June 2024			
Time	Topic	Description	Facilitator
10:15 – 11:00	<b>Module 1:</b> Introduction to NEXSTEP <ul style="list-style-type: none"> <li>- NEXSTEP methodology</li> <li>- Anticipated results</li> <li>- Developing SDG7 roadmap using NEXSTEP</li> <li>- Proposed workflow and timeline</li> </ul> <b>Module 2:</b> Data requirement and data collection <ul style="list-style-type: none"> <li>- Data requirement</li> <li>- Data collection</li> </ul>	This session provides a general introduction to the NEXSTEP methodology, anticipated results, as well as proposing a general workflow and timeline, considering consultation processes with stakeholders.  This section will also cover the required data for the energy modelling	Anis Zaman
11:00 – 12:30	<b>Module 3:</b> Scenario and emission modelling using LEAP – topical lectures and practical tutorial: Key assumptions, scenario settings and demand tree development.	This session focuses on providing hands-on practical learning for the participants. Short lectures will be provided, followed by practical tutorials. Participants are expected to be using the sample data provided to come up with modelled scenarios.	Anis Zaman
12:30 – 13:30	<b>Lunch break</b>		
13:30 – 14:00	Discussion, Q&A		Moderated by Anis Zaman
14:00 – 15:00	Module 3 (contd):	See above description	Anis Zaman
15:00 – 15:30	<b>Afternoon tea</b>		



15:30 – 17:00	Module 3 (contd):	Hands-on exercise	Guided by Anis Zaman
17:00 – 17:30	Discussion		Moderated by Anis Zaman

Day 2: 18 June 2024			
Time	Agenda	Description/Topic	Facilitator
09:00 – 10:30	Module 4: Scenario and emission modelling using LEAP – topical lecture and practical tutorial: Electricity generation and capacity estimation, emissions analysis, investment estimate, net benefits, and energy balance.	See above description	Anis Zaman
10:30 – 10:45	<b>Morning tea</b>		
10:45 – 12:00	Module 4 (contd):	Hands-on exercise	Guided by Anis Zaman
12:00 – 12:30	Discussion		Moderated by Anis Zaman
12:30 – 13:30	<b>Lunch break</b>		
13:30 – 15:00	Module 4 (contd):	Hands-on exercise	Guided by Anis Zaman
15:00 – 15:30	Economic and policy Analysis <ul style="list-style-type: none"> <li>- Input parameters</li> <li>- Result components</li> <li>- MCDA analysis</li> </ul>	Participants will be guided on how they may use the economic analysis component of the NEXSTEP portal to perform economic analysis. Participants will be guided on how they may use the scenario analysis component of the NEXSTEP portal to perform MCDA analysis.	Anis Zaman



15:30 – 15:45	Afternoon tea		
15:45 – 16:15	Discussion		Moderated by Anis Zaman, ESCAP
16:15 – 16:30	Closing of Program	END OF WORKSHOP	Anis Zaman MISE - TBC





## Agenda

Capacity building on Minimum Energy Performance Standards and Labelling

19 – 21 June 2024; Venue: TBC

Time	Topic/agenda	Speaker/facilitator
<b>Day 1: 19 June 2024</b>		
08:30 – 09:00	Registration of participants	
09:00 – 09:15	Welcome remarks.	MISE – TBC SPC - TBC ESCAP – TBC
09:15 – 09:30	Background of the training – a follow up from the SDG 7 Road Map	Anis Zaman, ESCAP
09:30 – 09:45	Current situation and future plans of MEPS	MISE - TBC
09:45 – 10:00	MEPS program and support by SPC	SPC - TBC
10:00 – 10:30	<b>Morning tea/coffee</b>	
10:30 – 11:00	Understanding MEPSL – basics, advantages and challenges	TBC
11:00 – 11:30	Lessons learned and case studies from other countries	TBC
11:30 – 12:00	Financing opportunities to implement MEPSL	TBC
12:00 – 13:00	<b>Lunch break</b>	
13:00 – 13:15	Understanding the training needs for Kiribati	MISE - TBC
13:15 – 13:45	The Pacific Appliance Database (PAD)	SPC - TBC
13:45 – 14:00	Samoa experience with the PAD system	Mr. Mose Tasesa, Energy Division, MoF, Samoa
14:00 – 14:30	<b>Afternoon tea/coffee</b>	
14:30 – 16:50	Training on the PAD system Category A & B <i>Presentation, discussion and hands on experience</i>  <b>Hands on Training: Participants need to have access to laptop and Wi-Fi for this session.</b>	Mr. Mose Tasesa and Mr. Taylor Valai, Energy Division, MoF, Samoa
<b>Day 2: 20 June 2024</b>		
09:00 – 10:30	Training on the PAD system ..... contd  Category A & B	Mr. Mose Tasesa and Mr. Taylor Valai, Energy Division, MoF, Samoa
10:30 – 10:45	<b>Morning tea/coffee</b>	
10:45 – 12:00	Training on the PAD system Category C <i>Presentation, discussion and hands on experience</i>	Mr. Mose Tasesa and Mr. Taylor Valai, Energy Division, MoF, Samoa
12:00 – 13:00	<b>Lunch break</b>	
13:00 – 14:15	Training on the PAD system .. contd Category C	Mr. Mose Tasesa and Mr. Taylor Valai,



	<i>Presentation, discussion and hands on experience</i>	Energy Division, MoF, Samoa
<b>14:15 – 15:00</b>	Guidance on assessing Test Reports for Category C Appliances	Mr. Mose Tasesa Energy Division, MoF, Samoa
<b>15:00 – 15:30</b>	<b>Afternoon tea/coffee</b>	
<b>15:30 – 17:00</b>	Understanding Australian energy star rating of appliances	Mr. Taylor Valai, Energy Division, MoF, Samoa
	<b>Day 3: 21 June 2024</b>	
<b>09:00 – 10:00</b>	Guidance for customs department on the process of enforcing the MEPS mechanism ( <i>Note: In Samoa, a MOU has been signed with the customs to reinforce the regulations</i> )	Mr. Mose Tasesa Energy Division, MoF, Samoa
<b>10:00 – 10:30</b>	Samoa's experience on the process of registration as stipulated in the Energy Management Act 2020	Mr. Faatali Simanu, Energy Division, MoF, Samoa
<b>10:30 – 10:45</b>	Morning tea/coffee	
<b>10:45 – 12:00</b>	Steps of and guidance on inspecting appliances	Mr. Mose Tasesa Energy Division, MoF, Samoa
<b>12:00 – 13:00</b>	<b>Lunch break</b>	
<b>14:00 – 16:30</b>	Site visit to local shops/businesses, looking at appliances and identifying specifications	All
<b>16:30 – 17:00</b>	Closing of the training	ESCAP and MISE