



## **PCREEE Assist the Establishment of Kiribati Sustainable Energy Association (KSEA) and strengthen the roles of Energy Regulators on implementation the Electricity Regulation.**

**21-26 July 2023**

### **CONCEPT NOTE.**

## 1.0 BAGROUND

### 1. Pacific Centre for Renewable Energy and Energy Efficiency:

The SPC's Pacific Centre for Renewable Energy and Energy Efficiency (PCREEE) was established in 2017 as an arm of the GEP with its headquarters in Nukualofa, Tonga. The Centre has a strong focus to accelerate the private sector's participation and increase investment in RE and EE programs to achieve PICTs targets and to enhance the productivity and competitiveness of key industries with high job leverage in the Pacific (e.g., agriculture, tourism, fishery, manufacturing, creative industry).

Under the PCREEE 10 years (2021-2030) Business Plan, Programme Area 1: RE and EE Business start-up and Entrepreneurship Support. The objective of this programme area is to provide differentiated support to entrepreneurial RE&EE businesses across the enterprise development life cycle (start-up, early-stage, growth, and maturity). The differentiated support includes TAs to successful local businesses that are operating in non-RE&EE industries to enter the RE&EE industry and TAs and services provided to RE&EE national industrial bodies or other similar industrial associations that can help to channel additional efforts at the national level.

### 2. Kiribati Energy Sector Overview:

Under the Kiribati Integrated Energy Road Map (KIER) 2015-2017, the Kiribati Government sets its renewable energy targets of 23% to 100% for individual islands by 2025. Within the KIER, it has provided an enabling business environment for the private sector including more solar deployment for the electricity grid and for desalination in South Tarawa, More PV, wind, and battery storage for Kiritimati, and more renewable energy and ice plants for the outer islands.

The Energy Act 2022 provide for the legal framework of the energy sector and support the regulation of industry participants in Kiribati and for other connected purposes including establish effective oversight, monitoring and regulatory mechanisms over the provision of energy services and energy service providers and Part VII of the act deals with the renewable energy and energy efficiency projects and regulation for licensing, permits, standards etc.

### 3. PCREEE business start-up and entrepreneurship training in Kiribati.

April this year, PCREEE in collaboration with the NDC Hub have successfully conducted a training on MEPSL and Sustainable Energy Business start-up training and entrepreneurship was held in Conference Room, Ministry of MISE. The trainings aimed to inform the energy stakeholders and the private sector about the new Energy Act 2022 and the roles of the Energy Regulator stipulated under the Energy Acts for the Energy Planning Division. And RE and EE business and investment opportunities for the private sector and technical institutions are enabled by the Energy Acts and the KIER. That including electrical contractor licensings, solar installer license and business and financial assistance available to support the private sector.

As a result, from this training, PCREEE has assisted to strengthen the capacity of the Energy Regulator (Energy Planning Division) by funding one technical officer from EPD to participate on the EV-



Working Group Workshop was held in Tonga and to conduct an exposure visit to Tonga Electricity Commission. PCREEE assisted the establishment of the Kiribati Sustainable Energy Association.

## 2.0 The Establishment of the KSEA and Electricity by Law and Contractors Licensing Training.

As follow up with the previous assistance, PCREEE in collaboration with the Electrical contractors to support the inauguration meeting for establishment of the Kiribati Sustainable Energy Association (KSEA). The inaugural meeting will be held on the 24<sup>th</sup> July in Board Room, Ministry of MISE. The meeting will endorse the constitution, the executive members and the work plans for KSEA.

On the same event, PCREEE will bring one technical expert from the Tonga Electricity Commission to share his skills and the experiences as a regulator in term of enforcing the Electrical Contractor by Law on the AS/NZ 3000:2007 by conducting training on electrical wirings, contractors licensing, inspection procedures, etc. It's a process of exchange learning, it's an opportunity for the expert from TEC to learn on the new roles of regulators for regulating the renewable energy project, solar installers, inspection, existing regulations etc. it will help to apply it in Tonga when the new regulations for renewable energy is drafted and implemented.

### 3.0. OBJECTIVES:

- To strengthen the capacity of the private sector and technical insitution by establish the Kiribati Sustainable Energy Association (KSEA) and register under the Ministry of Commerce and the Ministry of Council.
- To assist the roles of KSEA to provide a unison voice for the development of national energy frameworks and accessibility to business and employment opportunities.
- To raise awareness on the electricity regulation and provide feedback from the KSEA.
- To enhance the skills and knowledge of the Energy Regulator on how to regulate electrical contractors, issue and cancelling of licensing, inspection, etc.
- Promote electricity regulator exchange knowledge and skills with the regulators of PICTs.
- Promote gender balance in Energy Sector and employment opportunities for youth on sustainable energy.

### 4.0. Expected Outcomes:

- Established the Kiribati Sustainable Energy Association, key executive members, members and clear work plans.
- Increased awareness of the Energy Act 2023 and its objectives to improve energy investment and business opportunities for the private sector on sustainable energy.
- Conducted consultation on the drafted electricity regulation for electrical contractors and licensing.
- Enhanced the skills and knowledge on the roles of the energy regulator to implement the energy regulations.
- Promoted business and investment on opportunities on sustainable energy for contractors, and small businesses.
- Promoted the gender balance in the energy sectors and raise awareness on business and employment opportunities for women and youth on SE

## 5.0 Target Outputs:

- Successfully conducted the inaugural meeting for the establishment of the KSEA, and its members and work plan.
- Successfully conducted a consultation with the energy regulator on the drafted electricity regulation. Including amendments from the members to consider before it finalized.
- Successfully refresh trained the private sector on the electrical wirings, and the requirements from the energy regulator for permit approval.
- Successfully trained the inspection officers on how to conduct proper inspection of a household wirings, provide feedbacks before approval.

## 6.0. The Meeting and Training Strategies for each day.

Day 1: Curtesy Meetings and confirming venue and programs.

Morning:

- Curtesy meeting with the CEO of MISE.
- Curtesy meeting with the Ministry of Commerce and Council for Registration.
- Meeting with the Working Team for KSEA.
- Meeting with the EPD to discuss the Electricity Regulation.

Afternoon:

- Confirming the logistic arrangements including participants venue, caterings and programs.
- Medias will be invited for the inaugul meeting for media coverage.

Day 2: Inaugural Meeting.

Morning Session

- Opening prayer,
- Welcome remarks
- Statement from PCREEE
- Opening remarks from MISE.
- Statement from the KSEA.
- Selection of the Chair, and Executive members
- Endorsement of the Constitution with amendment.
- Proposed Work Plan.

Afternoon Session:

- Consultation on the Electricity Regulation
- PCREEE's assistance to Pacific Islands Industries Association

Day 3: Electrical Contractor by Law Training.

- Introduction to Electrical contractor by law
- Electrical wiring rules: scope, application and fundamental principles and installation practices
- General Arrangement, control and protection
- Passes Exam Paper Question and Answer

**Afternoon Session:**

- Site wirings and inspection training

**Day 4: Selection and installation of wiring systems**

- external influences, current-carrying capacity.
- Conductor size, voltage drop, electrical connections, electrical connections
- Identification of installation requirements, enclose of cables, underground wiring systems.
- Cable supported by a catenary, safety systems, bus ways including rising main systems.
- Earth sheath return (ESR) system.
- Passed Exam Paper

**Afternoon session:**

- Training only with the inspection officers on how to enforce the electrical contractor by law and the training

## 7.0. Budget:

	Kiribati							
	PCREEE				EPD			
	Unit	No . of Units	Unit Cost	Amount (AUD)	Unit	No . of Units	Unit Cost	Amount (AUD)
Venue					Day	3	200	600
Transportation					days	3	200	600
Training technical tools					meters	4	100	400
Catering (morning tea)	participants	20	20 per head for 3 days	1200				
Catering (afternoon lunch)	participants	20	30 per head for 3 days	1800				
DSA for 1 from PCREEE and 1 from TEC	days	7	280 per day for 2 trainers	3920				
Returned Air Ticket for 2	returned Ticket	2	TBC	TBC				
<b>TOTAL</b>				<b>6920</b>				<b>1600</b>
<b>Overall Total</b>	<b>AUD \$8520</b>							



Kiribati Sustainable  
Energy Association  
(KSEA)