

# RE development in Kiribati



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# Outline

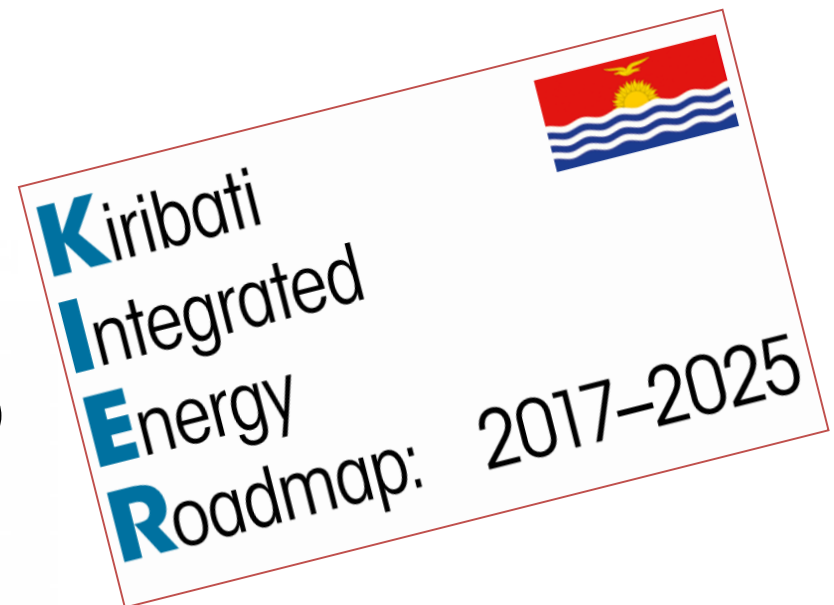
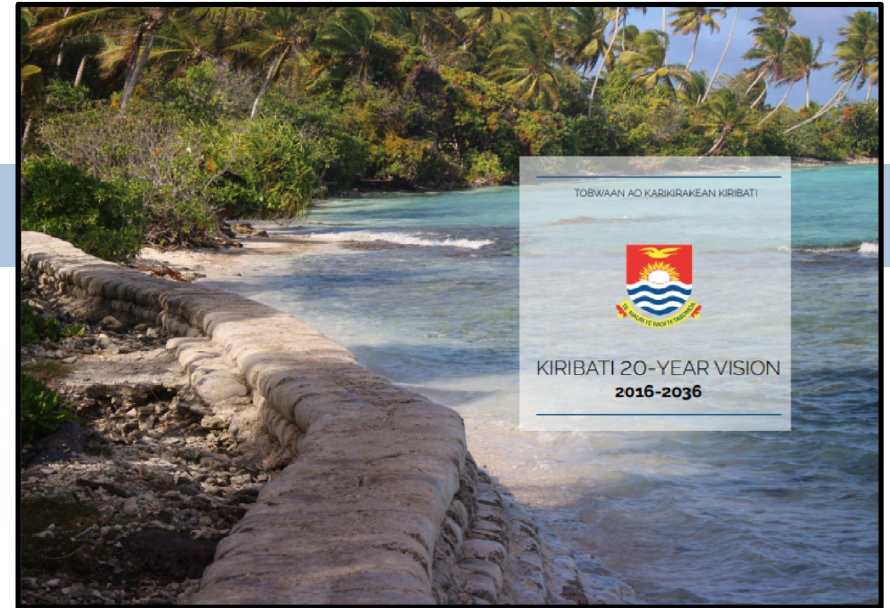


- Background
- Fuel use in Kiribati
- National energy target.
- Barriers
- Summary of Actions
- Conclusion

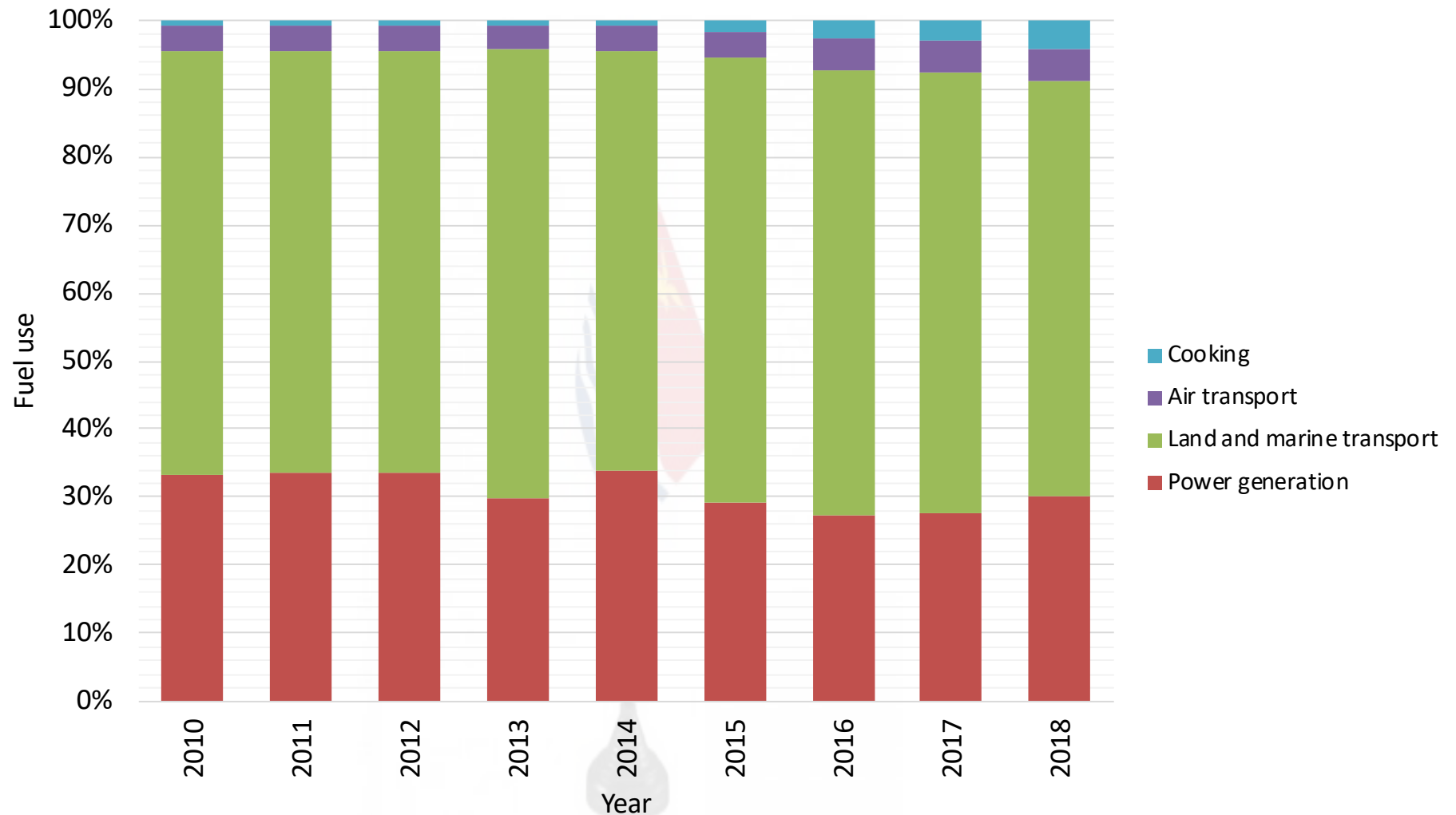


# Background

- **Country context**
  - 33 Islands
  - Population of 114,000
- **Energy Sector context**
  - Ministry of Infrastructure and Sustainable Energy (MISE)
    - Public Utilities Board (PUB)
      - Tarawa
    - Ministry of Line and Phoenix Islands Development
      - Kiritimati Island
    - Kiribati Solar Energy Company (KSEC)
      - Outer Island rural electrification
    - Kiribati Oil Company (KOIL)
    - Private Businesses



# Fuel Use in Kiribati



# National energy target



Location	2025 fossil fuel reduction goal	Of which	
		Renewable energy	Energy efficiency
South Tarawa	45%	23%	22%
Kiritimati	60%	40%	20%
Outer Islands	60%	40% (100% in public/private institutions)	20%

# Barriers



## 1. Regulatory and institutional

- Absence of legal framework
- Technical Standard/guidelines

## 2. Technical/Capacity

- Capacity to operate and maintain Outer Island power generation system
- Concern about grid stability

## 3. Environmental

- Limited land area

## 4. Financial

- High cost of importing RE technologies
- Investment climate is risky

## 5. Social and cultural

- Lack of awareness about proper use of the technology

# Summary of actions



	Current Actions	3 years	10 years
<b>MISE</b>	<ul style="list-style-type: none"><li>➤ Energy Policy and Planning development</li><li>➤ Enabling RE/EE framework</li><li>➤ Capacity building support</li><li>➤ Support KSEC in rural electrification project implementation –<ul style="list-style-type: none"><li>✓ Fish center</li><li>✓ Secondary Schools</li></ul></li></ul>	<ul style="list-style-type: none"><li>➤ Energy Policy and Planning development</li><li>➤ RE/EE enabling Framework.</li><li>➤ Better coordination.</li></ul>	<ul style="list-style-type: none"><li>➤ Reduce fuel use for transport.</li></ul>

# Summary of actions



		Current Actions	3 year	10 year
Utilities	PUB (Tarawa)	<ul style="list-style-type: none"> <li>Solar PV with Storage</li> <li>OTEC</li> <li>Capacity building</li> <li>PV penetration 12%</li> </ul>	<ul style="list-style-type: none"> <li>More solar + storage</li> <li>Distributed generation – Households/Commercial buildings.</li> <li>Pre paid meter</li> </ul>	<ul style="list-style-type: none"> <li>Smart grid</li> <li>Solar/Storage/Other resources.</li> </ul>
	MLPID (Xmas)	<ul style="list-style-type: none"> <li>Distribution network rehabilitation and expansion</li> <li>Electricity demand study</li> </ul>	<ul style="list-style-type: none"> <li>Power generation capacity upgrade</li> <li>Solar PV/Wind plus storage</li> </ul>	<ul style="list-style-type: none"> <li>Smart grid</li> <li>Solar PV/Wind with Storage</li> </ul>



# Summary of Actions



	Current Actions	3 year	10 year
<b>KSEC</b>	<ul style="list-style-type: none"> <li>• Distribution/Selling, O&amp;M of Solar Home System/solar lighting kit.</li> <li>• Solar PV mini grid system installation.</li> </ul>	<ul style="list-style-type: none"> <li>• Project Management, Procurement.</li> <li>• Project/system Design and feasibility studies</li> </ul>	<ul style="list-style-type: none"> <li>• Project Management, Procurement, etc</li> <li>• Project/system Design and feasibility studies</li> </ul>
<b>Private Business</b>	<ul style="list-style-type: none"> <li>• Selling of Solar Home System, solar lighting kit, etc</li> </ul>	<ul style="list-style-type: none"> <li>• Selling of Solar Home System, solar lighting kit, etc</li> </ul>	

# Conclusion



Lets work together to create the vision for the future

