

# Environmental and Social Monitoring Report

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January – June 2016

## Cook Islands: Renewable Energy Sector Project

Prepared by the Ministry of Finance and Economic Management, Government of Cook Islands for the Asian Development Bank.

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**CIRESP  
ENVIRONMENTAL  
AND SOCIAL  
MONITORING  
REPORT  
January - June 2016**

**304965  
23 July 2016**

Prepared by Hydro-Electric Corporation  
ABN48 072 377 158

t/a Entura 89 Cambridge Park Drive,  
Cambridge TAS 7170 Australia



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Project manager	Chris Blanksby
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# 1. Introduction

1. This is the first Semi-Annual Safeguard Monitoring Report for the CIRESP. The report covers the period 1 January – 30 June 2016. The purpose of the report is to document social and environmental safeguard monitoring activities.

## 1.1 Project background

2. The Government of the Cook Islands is implementing The Cook Islands Renewable Electricity Chart (CIREC), which aims to supply 100% of the Cook Islands electricity generation from renewable sources by 2020. The Asian Development Bank (ADB) is supporting the Government of the Cook Islands to implement the CIREC through the Cook Islands Renewable Energy Sector Project (CIRESP) (the Project) which aims to provide a secure, sustainable, and environmentally sound source of electricity for private and commercial consumers.
3. The Project is divided into two phases. Phase 1 will include subprojects on Atiu, Mitiaro, Mauke, and Mangaia. Phase 2 will include subprojects on Aitutaki and Rarotonga.
4. The CIRESP has two outcomes:
  - (i) Solar Photovoltaic Power System Development. In Phase 1, the project will construct four solar PV power systems with a total installed capacity of approximately 1.2 MW. The subprojects will also install advanced secondary battery storage and control systems (all islands), new diesel backup generators (Mauke and Mitiaro), and new power stations (Mauke and Mitiaro), and will rehabilitate the distribution networks on Mitiaro, Mauke, and Mangaia. Phase 2 subprojects will install a solar PV power system, advanced secondary battery storage and control system and a new diesel backup generator on Aitutaki and, with additional financing from GEF, installation of a 1.0MW / 4.0MWh Battery Energy Storage System (BESS) on Rarotonga.
  - (ii) Institutional Strengthening and Project Management Support. The project will provide institutional strengthening to the Renewable Energy Development Division (REDD) for (i) developing the energy efficiency policy implementation plan including an energy audit and monitoring scheme to enhance demand side energy efficiency management practices for targeted major electricity consumer groups; (ii) developing capacity for renewable energy technology assessment and appropriate off-take tariff setting for power purchase agreements for private sector funded projects, and (iii) updating the CIREC Implementation Plan through refining electricity load demand up to 2020, renewable technology choice, and least cost investment plan.
5. The Project has been assigned an ADB Safeguard Category C for Involuntary Resettlement and Indigenous Peoples and Category B for Environment.

## 1.2 Institutional arrangements

6. The Ministry of Finance and Economic Management (MFEM) is the executing agency (EA) and will be responsible for the overall management of the project including implementation of mitigation measures, social and environmental safeguard reporting and obtaining necessary approvals. Te Aponga Uira (TAU) and REDD are the project Implementing Agencies (IAs). A

Project Steering Group (PSG) has been established for the Project which is comprised of representatives of ADB, REDD, Office of Prime Minister (OPM), MFEM, TAU, The Cook Islands Investment Corporation (CIIC) and New Zealand High Commission. A Project Management Unit (PMU) has also been established.

7. A contract for Project Owners Engineers, (POE) was signed by the Cook Islands Government (CIG) and Entura, and became effective as at February 2015 for the ADB funded Loan 3193/Grant 0415-COO Renewable Energy Sector Project.

## 2. Works in Progress

8. The CIRESP is currently in the procurement phase. Turnkey contract evaluation has been completed for Phase 1 subprojects. A contractor(s) has yet to be appointed to undertake the works. No detailed design or onsite works have commenced.

### 2.1 Social safeguards

9. ADB classified the proposed Phase 1 subprojects as Category C for Involuntary Resettlement – which means, “A proposed project has no involuntary resettlement impacts.” The IA submitted an updated Resettlement Plan (RP) in June of 2015 that supports the Category C classification.
10. Voluntary land use agreements are progressing well for all four subprojects, but while no major obstacles have been encountered, no agreements are yet complete. Completion of those agreements is expected in the next quarter (Q3 2016) with implementation expected in the following quarter (Q4 2016).

### 2.2 Environmental safeguards

11. As the project is currently in the procurement phase no detailed design or onsite works have commenced that require monitoring.
12. Environmental safeguard works in the reporting period have focussed on updating the Projects Initial Environmental Examination (IEE) and obtaining approval for all subprojects under the Cook Islands *Environment Act 2003* and/or Island Councils.
13. The Project IEE was updated to include due diligence completed for the Atiu subproject (initially included as a Phase 2 subproject) and the Phase 2 subprojects on Aitutaki and Rarotonga and design undertaken for all subproject undertaken during project implementation. The IEE contained an Environmental Monitoring Plan which will guide ongoing safeguard monitoring.
14. Environmental Significance Declarations (ESDs) have been submitted to the Cook Islands National Environmental Service (NES) for all subprojects. The NES determined that each of the Phase 1 subprojects and the Aitutaki subproject would require the preparation of a Technical Report (TR) and TRs have been submitted for all Phase 1 subprojects. Formal approvals of TRs were received from Mauke and Atiu with Mitiaro still pending. TR for Mangaia has been submitted to the Island Council and a meeting date with them has not yet been finalised. The TR for Aitutaki is currently being revised due to a revision in the project location and the NES determined that a TR would not be required for the Rarotonga subproject. TRs contained

detailed Environmental Management Plans, which forms the basis for environmental safeguard monitoring of each subproject.

### 3. Monitoring activities

15. As the project is currently in the procurement phase no detailed design or onsite works have commenced that require monitoring.

#### 3.1 Social safeguards

16. Initial monitoring for land acquisition and related land issues during this reporting period is provided in Table 3.1.

Table 3.1: Land acquisition monitoring January – June 2016

Type of Activity	Entitlement	Monitoring Activity	Comment
Land Acquisition	Landowners	CIIC Budget Allocation for land acquisition verified	
Mitiaro	Owners agreed	CIIC awaiting signatures	
Mangaia	Owners agreed	CIIC awaiting signatures	
Atiu	Owners agreed	Court confirmation pending	
Mauke	Owner objections	Land owner Meetings pending	
Loss of trees or crops	Landowners	No activity	
Employment opportunities (project benefit)	Landowners	No activity	
Impacts on vulnerable groups (if identified)	Landowners	No activity	
Stable power supply (project benefit)	Landowners	No activity	

#### 3.2 Environmental safeguards

17. Monitoring of environmental safeguards has been limited to pre-construction activities as no detailed design or onsite works have commenced.
18. Monitoring included review of tender documentation for Phase 1 subprojects by the POE to determine compliance with the preconstruction commitments contained in the Environmental Monitoring Plan (IEE) and the Environmental Management Plan (subproject TRs). A checklist of environmental commitments was prepared and is included in **Appendix A**.

## 4. Monitoring results and actions

### 4.1 Social safeguards

19. Appendix B Land Acquisition Monitoring Matrix presents the detailed current status and expected completion schedule for land acquisition and resettlement activities for each Phase 1 subproject as of June 2016.

### 4.2 Environmental safeguards

20. A review of tender documents found that all preconstruction commitments had either been complied with or were not yet able to be determined e.g. dependent on selected contractors detailed designs. One Non Conformance was recorded where the requirement for fuel storage areas at the Project site to be designed and constructed in accordance with AS 1940-2004 The storage and handling of flammable and combustible liquids was not transferred to the tender documents. However, the IEE, which was supplied with the tender documents, contains mitigation requirements that will result in compliance with AS 1940-2004.
21. Follow up actions centre on the review of the successful contractors detailed design to ensure compliance with pre-construction commitments.

## 5. Summary and conclusions

21. The Implementation Schedule provides a list of follow-up actions which will be updated each period to track completion (Table 5.1).

Table 5.1: CIRESP implementation schedule January – June 2016

Step	Activities	Proposed Schedule	Current Status 30 June 2016
1	Confirmation of land requirements and identification of landowners.	Completed all four sites Month 3 (June 2015).	Confirmed for Mangaia, Atiu and Mitiaro – Mauke pending.
2	Land surveys and valuations.	Survey and valuation of solar sites completed for Atiu, Mitiaro, Mauke, and Mangaia Month 5 (Aug 2015). Survey of one existing transformer site on Mauke and the existing power station site on Mangaia scheduled Month 6 (Sep 2015).	Land surveys and valuations completed for Mangaia, Atiu and Mitiaro, Mauke pending.
3	REDD, in coordination with CIIC, updates the RP, including agreements on compensation rates, and discloses updated RP to APs.	Completed Month 3 (Jun 2015). New update Month 6 (Sep 15).	August 2016
4	Submission to CIIC of land survey reports, preparation for formal	Completed for Atiu, Mitiaro, Mauke, and Mangaia Month 5 (Aug 2015)	Completed for Mangaia, Atiu and Mitiaro.

	negotiations with landowners, and budget allocation for land acquisition.	except as noted in Item 3, above.	Mauke pending
5	IA submits the updated RP to ADB for approval and posting on ADB website.	Month 6 (Sep 2015).	Completed however Mauke land issues it is unclear whether a further update of RP is required.
6	Consultation with affected landowners to negotiate detailed terms of land use agreements.	Ongoing Month 6 (Sep 2015).	Completed for Mangaia, Atiu and Mitiaro. Mauke affected landowners to be confirmed
7	Agreements on land acquisition together with necessary approvals by Cabinet and Executive Council.	Months 7-8 (Oct-Nov 2015).	Completed
8	Execution of land acquisition agreements and payment of compensation.	Month 9 (Dec 2015).	August 2016
9	IA submits land acquisition and compensation completion report to ADB.	Month 10 (Jan 2016).	September 2016
10	IA submits safeguard monitoring reports.	Six-monthly.	July 2016



# Appendices





# A Environmental Safeguard Monitoring



<b>CIRESP Phase 1 sub projects pre-construction audit</b>		<b>Audit Date: June / July 2016</b>	
<b>Auditor</b>		<b>Audit Times:</b>	
Name David Procter	Position: POE Int. Env. Specialist	Audit start time: N/A	Audit finish time: N/A

Item No	Audit Element	Sub projects	Findings (OK, NC or N/A)	Comments	Actions
<b>1</b>	<b>Water resources and quality</b>				
1.1	The civil works design will maintain existing surface water drainage patterns across the project site.	All	N/A	Civil design works have yet to commence	Review successful tenders civil works design.
<b>2</b>	<b>Waste</b>				
2.1	A bunded waste hydrocarbon storage area will be included in the design of the new power station	All	OK	IEE included as Section 6 Attachment G in Invitation for Bids. Commitment included in IEE. Commitment to store waste in hydrocarbons in bunded storage area included in Sec 163 of IEE.	Review successful tenders detailed design to ensure waste hydrocarbon storage included.
<b>3</b>	<b>Noise and vibration</b>				
3.1	Where practicable, the design of the power station and selection of generators will minimise noise.	Mauke Mitiaro	OK	Section 6 Attachment D Appendix A 13.1 in Invitation for Bids contains specification that <i>Supplier shall offer an appropriate muffler/silencer. Diesel generating set shall comply with international standards for noise as well as escape of polluting materials.</i>	
3.2	Undertake noise modelling of the generator to be installed following award of tender to ensure compliance with IFC guidelines.	Mauke Mitiaro	N/A	Generator make/model yet to be confirmed	Undertake noise modelling when generator determined
<b>4</b>	<b>Nature Conservation</b>				
4.1	The location of the project site and connection to distribution grid will minimise as far as practicable impacts to native vegetation and will not result in the removal of species with significant conservation values.	Atiu Mangaia Mitiaro	NA	Detailed design works yet to commence.	Review successful tenders detailed design.
<b>5</b>	<b>Social</b>				

Item No	Audit Element	Sub projects	Findings (OK, NC or N/A)	Comments	Actions
5.1	Cables connecting the solar PV array to the power house will be buried to reduce visual impact.	All	OK	IEE included as Section 6 Attachment G in Invitation for Bids. Commitment included in IEE. Commitment to bury connecting cables included in Sec 143 of IEE.	Review successful tenders detailed design.
5.2	The power house (and other above ground infrastructure other than the PV panels) will be neutral coloured to reduce visual impact.	All	OK	IEE included as Section 6 Attachment G in Invitation for Bids. Commitment included in IEE. Commitment to use neutral colours included in Sec 143 of IEE.	Review successful tenders detailed design.
5.3	A list of relevant local contractors available will be provided in tender documentation to facilitate the engagement of local industry by the selected construction contractor.	All	OK	Section 6 Attachment K in Invitation for Bids contains a list of local contractors available on each subproject island.	
<b>6</b>	<b>Health and safety</b>				
6.1	The diesel generators will comply with relevant American Environmental Protection Authority (EPA) emission standards	Mauke Mitiaro	OK	Section 6 Attachment D Appendix A 13.1 contains specification that <i>Diesel generating set shall comply with international standards for noise as well as escape of polluting materials.</i>	
<b>7</b>	<b>Hazards and risks</b>				
7.1	Lead acid gel batteries will be specified to reduce the potential for leakage during transport, operation and disposal of batteries.	All	OK	Section 6 Attachment B Sec 1.3.3 specifies Valve Regulated Lead Acid Gel batteries for the BESS for each subproject.	
7.2	Specifications will include the requirement for fuel storage areas at the Project site to be designed and constructed in accordance with <i>AS 1940-2004 The storage and handling of flammable and combustible liquids</i>	All	NC	IEE included as Section 6 Attachment G in Invitation for Bids. Commitment included in IEE. Commitment to prepare a hazardous materials management plan contained in Sec 153 which, if implemented, will comply with <i>AS 1940-2004</i> .	Review contractors Hazardous Materials Management Plan to ensure compliance with <i>AS 1940-2004</i> .
7.3	The solar PV array and power house will be designed to with stand a Category 5 cyclone.	All	OK	Section 6 Attachment C Sec 1.4.1 and Attachment E Sec 1.4.1 contains specifications that the solar PV array and power house must be designed to be able to withstand cyclonic conditions.	
<b>8</b>	<b>Erosion control</b>				

Item No	Audit Element	Sub projects	Findings (OK, NC or N/A)	Comments	Actions
8.1	Ensure civil works design includes appropriate drainage structures that adequately control surface water flow and prevent erosion of surrounding land.	Atiu Mauke	N/A	Civil design works have yet to commence	Review successful tenders civil works design.

## **B Land Acquisition Monitoring Matrix**

## Appendix B: Land Acquisition Monitoring Matrix

The following matrix presents the current status and expected implementation schedule for land acquisition and resettlement activities for each Phase 1 subproject as of June 2016:

Step	Activities	Current Status				Achieved or Expected Completion Date			
		Atiu	Mitiaro	Mauke	Mangaia	Atiu	Mitiaro	Mauke	Mangaia
1	<b>Confirmation of land requirements and identification of land owners.</b>	Vaitamina 556 confirmed as site for solar installation. No other new lands required for Atiu subproject. Landowners identified Sep 2015.	Teramake o Teramake Section 8 Takaue and Te Puna o Tueru Section 9 Atai confirmed as site for solar installation and new powerhouse. No other new lands were to be required for Mitiaro subproject. Landowners for the two parcels identified Sep 2015. Nevertheless, a subsequent grid study showed that some of the low voltage lines would be too long, so Entura proposed a new preferred site for the substation, and REDD referred that site to CIIC in April 2016. The new preferred substation site is expected to sit within the existing road easement and, if so, would not require taking of new land.	Tengaru 6B confirmed May 2016 as site for solar installation and for new power station. No other new lands required for Mauke subproject, but four existing transformers and one existing substation would be upgraded as part of the project, and those five sites are not under government lease. Landowners of all six sites identified Sep 2015 but designated owners of Tengaru 6B then challenged. Confirmation of Tengaru 6B landowners now pending in Land Court. Minority landowner objections to using Tengaru 6B arose in 2016 and led to proposal of potential alternate site at Teao	Te Ara o Tane 35 confirmed as site for solar installation. No other new lands required for subproject, but site of existing power station, called Ara o Tane Vaipuna 35, has never been under formal lease, and the power station will be upgraded as part of the subproject. Landowners of both plots identified Sep 2015.	Completed Sep 2015.	Completed Sep 2015 with possible exception of new preferred substation site.	Completion expected in next quarter.	Completed Sep 2015.

				3A with access through Tona 2C1A. Landowners of those two sites identified as the same as those for Tengaru 6B.					
2	<b>Land surveys and valuations.</b>	Revised land survey submitted Jul 2015. Standard land valuation applies at NZD 19.76 / m <sup>2</sup> .	Land survey completed Aug 2014 and boundaries confirmed in site visit May 2015. Standard land valuation applies at NZD 19.76 / m <sup>2</sup> .	Tengaru 6B surveyed May 2015. Potential alternate site not surveyed. Survey of transformer and substation sites completed but maps not yet produced. Standard land valuation for solar site applies at NZD 19.76 / m <sup>2</sup> . Valuation of leases for existing transformer and substation sites and for payment of lease arrears is work in progress by CIIC.	Solar site was surveyed Mar 2015. Power house has been surveyed but map has not yet been produced. Standard land valuation applies for solar site at NZD 19.76 / m <sup>2</sup> . Valuation of new lease and back lease payments for existing power station is work in progress for CIIC.	Completed Jul 2015.	Completed May 2015.	Land surveys completed. Maps of surveyed transformer and substation sites are to be completed next quarter. PMU to complete valuation of economic trees, crops, and fences next quarter.	Completed for solar site Mar 2015. Completion for existing power station site expected August 2016. Valuation of new lease and back lease payments for existing power station to be completed next quarter.
3	<b>REDD and PMU, in coordination with CIIC, updates the RP, including agreements on compensation rates, and discloses updated RP to APs.</b>	Updated RP covering Atiu subproject completed Jun 2015.	Updated RP covering Mitiaro subproject completed Jun 2015.	Updated RP covering Mauke subproject completed Jun 2015.	Updated RP covering Mangaia subproject completed Jun 2015.	Updated RP to be disclosed to Atiu APs next quarter.	Updated RP to be disclosed to Mitiaro APs next quarter.	Updated RP to be disclosed to Mauke APs next quarter.	Updated RP to be disclosed to Mangaia APs next quarter.
4	<b>Submission to CIIC of land survey reports, preparation for formal negotiations with landowners, and budget allocation for land</b>	Revised land survey submitted to CIIC Jul 2015. Preparation for negotiations with landowners completed Jul 2015.	Land survey boundaries confirmed May 2015. REDD discussed draft land use agreement with Mitiaro landowners May	Surveys for Tengaru 6B solar site submitted Jun 2015. Preparation for initial negotiations with landowners completed May 2015.	Land survey for solar site submitted Mar 2015. Total NZD 1,500,000 allocated in 2016 national budget against costs	Completed Jul 2015.	Completed Jul 2015.	Surveys for transformer and substation sites and for existing power station site to be submitted next quarter.	Completed for solar site Jun 2015. Completion for existing power station expected next quarter.



	<b>acquisition.</b>	Total NZD 1,500,000 allocated in 2016 national budget against costs projected in the RP to be NZD 1,241,736.	2015. Total NZD 1,500,000 allocated in 2016 national budget against costs projected in the RP to be NZD 1,241,736.	Total NZD 1,500,000 allocated in 2016 national budget against costs projected in the RP to be NZD 1,241,736. The projected costs did not include a specific item for the existing transformers and substation on Mauke but those added costs may be covered by the contingency portion of the allocation.	projected in the RP to be NZD 1,241,736. The projected costs did not include a specific item for the existing power station on Mangaia but those added costs may be covered by the contingency portion of the allocation.				
5	<b>IA submits the updated RP to ADB for approval and posting on ADB website.</b>	Updated RP submitted to ADB in Jun 2015 but has not yet been posted on ADB website.	Updated RP submitted to ADB in Jun 2015 but has not yet been posted on ADB website.	Updated RP submitted to ADB in Jun 2015 but has not yet been posted on ADB website.	Updated RP submitted to ADB in Jun 2015 but has not yet been posted on ADB website.	Updated RP to be posted on ADB website Aug 2016.	Updated RP to be posted on ADB website Aug 2016.	Updated RP to be posted on ADB website Aug 2016.	Updated RP to be posted on ADB website Aug 2016.
6	<b>Consultation with affected landowners to negotiate detailed terms of land use agreements.</b>	Atiu retained private counsel for negotiations and for further group meetings with REDD and CIIC in 2016 that reached mutually agreeable terms for voluntary acquisition of land.	Initial REDD consultations on draft voluntary land use agreement with landowners in May 2015. Revised draft agreement ready for consultation and signing by landowners and <i>Ui Ariki</i> .	REDD consultations on draft agreement with landowners of Tengarū 6B held in May 2015. REDD and CIIC consultations with those landowners on revised draft agreement completed, and revised agreement is awaiting signature. No formal meetings to date with landowners of transformer and	Initial REDD consultations on draft agreement with landowners of solar site in May 2015. Revised agreement ready for signature and submission to Cabinet. No formal meetings yet with landowners of existing power station site.	Meeting of assembled land owners completed Sep 2015. Minutes submitted to Court (copy attached). Land Court confirmation awaiting revised text of final agreement.	To be completed next quarter.	Second consultation meeting REDD and CIIC consultations with landowners on revised draft agreement with landowners of Tengarū 6B is expected in the next quarter. Consultation meetings with owners of transformer and substation sites expected next quarter.	Completion for new solar site expected next quarter. Completion for existing power station site also expected next quarter.

				substation sites.					
<b>7</b>	<b>Agreements on land acquisition together with necessary approvals by Cabinet and Executive Council.</b>	Revised voluntary land use agreement approved in principle by resident landowners and by CICC and REDD.	Revised agreement approved in principle by resident landowners and by CICC and REDD.	Revised voluntary land use agreement approved in principle by resident landowners and by CICC and REDD.	Revised voluntary land use agreement approved in principle by resident landowners and by CICC and REDD.	Final agreement and approvals expected next quarter.	Final agreement and approvals expected next quarter.	Final agreement and approvals expected next quarter.	Final agreement and approvals expected next quarter.
<b>8</b>	<b>Execution of land acquisition agreements and payment of compensation.</b>					To be competed next quarter	To be competed next quarter	To be competed next quarter	To be competed next quarter
<b>9</b>	<b>IA submits land acquisition and compensation completion report to ADB.</b>					To be competed next quarter	To be competed next quarter	To be competed next quarter	To be competed next quarter
<b>10</b>	<b>IA submits safeguard monitoring reports.</b>					Six monthly	Six monthly	Six monthly	Six monthly