



UNFCCC ITL Administrator

**Standard Independent Assessment Report**  
**Assessment Report**  
**Part 2 - Substance**

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0.1	12/09/2016	Initial draft
0.2	25/09/2016	Review of initial draft
1.0	26/09/2016	Draft 1.0 ready for distribution to the Party
2.0	21/12/2016	Final report

## Summary

Ref Nr	Description	Value	Comments
P1.0.1	Party name	Liechtenstein	
P1.0.2	Reported year	2015	
P1.0.3	Submission under review	Files submitted: - [SEF] RREG1_LI_2014.xlsx RREG1_LI_2015.xlsx - [REPORTS] R-2 SIAR_Report_R-2_2015-LI.xls - [NIR] lie-2016-nir-27mai.pdf - [INITIAL REPORT] lie-cp2-ir-15apr16 - [DR] Union Registry_Disaster_Recovery_v1.2.docx	Information from the ITL Administrator: - [SEFCR] CR_RREG1_LI_2014.xlsx CR_RREG1_LI_2015.xlsx  -[RRITL] ITL R2-R5 RITL2_LI_2015.xlsx RITL3_LI_2015.xlsx RITL4_LI_2015.xlsx RITL5_LI_2015.xlsx
P1.0.4	Previous annual review report reference	<a href="#">FCCC/ARR/2014/LIE</a>	

## Table of Contents

<b>1. Introduction .....</b>	<b>4</b>
1.1. Overall assessment.....	4
1.2. Summary of findings.....	5
<b>2. Identification of Problems .....</b>	<b>6</b>
<b>3. Identification of Significant Changes .....</b>	<b>10</b>
<b>4. Recommendations .....</b>	<b>13</b>
4.1. Previous Expert Review Team recommendations .....	13
4.2. Recommendations to address identified problems .....	13

## 1. Introduction

The SIAR Part 2 report assesses the substance of a Party's annual submission with regard to its national registry. Each section contains questions related to the specific items to be assessed.

### 1.1. Overall assessment

Ref Nr	Requirement	Assessment
P2.1.1	Is the information submitted by Party, in relation to its national registry, complete?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No P1.3.9, P.1.3.11
P2.1.2	Problem found with Party's national registry?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
P2.1.3	Any unresolved problem with Party's national registry?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
P2.1.4	Problems identified with the significant changes to the Party's national registry?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
P2.1.5	National registry related recommendations from previous annual review were fully addressed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
P2.1.6	Is there any recommendation that needs to be addressed by the Party?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No P2.4.2.1

## 1.2. Summary of findings

Ref Nr	Summary of findings
P2.2.1	<ol style="list-style-type: none"> <li>1. The information on Kyoto Protocol units has been reported in accordance with section I.E of the annex to decision 15/CMP.1 and is accurate. The national registry continues to fulfil the requirements related to its reporting and accounting of information on Kyoto Protocol units, transaction procedures, conformance to the technical standards, public availability of information, security, data integrity and recovery measures.</li> <li>2. Party has reported information on its accounting of Kyoto Protocol units in the required SEF tables, as required by decisions 15/CMP.1 and 14/CMP.1. The SIAR assessor reviewed the findings included in the SIAR on the SEF and the SEF comparison report. The SIAR was forwarded to the ERT prior to the review, pursuant to decision 16/CP.10.</li> <li>3. Information on the accounting of Kyoto units has been prepared and reported in accordance with section I E of the annex to decision 15/CMP.1, and reported in accordance with decision 14/CMP.1 using the SEF tables.</li> <li>4. Information reported by Party on records of any discrepancies and on any records of non-replacement were found to be consistent with information provided to the secretariat by the international transaction log (ITL).</li> <li>5. The SIAR assessor finds that the national registry continues to perform the functions set out in the annex to decision 13/CMP.1 and the annex to decision 5/CMP.1, and continues to adhere to the technical standards for data exchange between registry systems in accordance with relevant Conference of the Parties serving as the meeting of the Parties (CMP) to the Kyoto Protocol decisions.</li> <li>6. Party has reported its commitment period reserve in its 2015 annual submission.</li> <li>7. The national registry has fulfilled all requirements regarding the public availability of information in accordance with section II.E of the annex to decision 13/CMP.1.</li> </ol> <p><u>Recommendations</u></p> <p>None</p>

## 2. Identification of Problems

The purpose of this section is to identify any problems with the national registry based on the Party's annual submission and transaction log records that may affect the performance of the functions of the national registry pursuant to paragraph 88 of the annex to decision 22/CMP.1.

Ref Nr	Requirement	Assessment	Comment
	22/CMP.1 paragraph 88.(a) The information is complete and submitted in accordance with section I.E of the annex to decision 15/CMP.1 and relevant decisions of the COP/MOP;	Assessed in SIAR Part 1. Kept here for completeness	
P2.2.2	22/CMP.1 paragraph 88.(b) The information relating to issuance, cancellations, retirement, transfers, acquisitions, replacement and carry-over is consistent with information contained in the national registry of the Party concerned and with the records of the transactions log;	Problem Identified? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Party submitted a SEF which is consistent with the ITL records.
P2.2.3	22/CMP.1 paragraph 88.(c) The information relating to transfers and acquisitions between national registries is consistent with the information contained in the national registry of the Party concerned and with the records of the transaction log, and with information reported by the other Parties involved in the transactions;	Problem Identified? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Party submitted a SEF which is consistent with the ITL records.
P2.2.4	22/CMP.1 paragraph 88.(d) The information relating to acquisitions of CERs, tCERs, and ICERs from the CDM registry is consistent with the information contained in the national registry of the Party concerned and with the records of the transaction log, and with the clean development mechanism (CDM) registry;	Problem Identified? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Party submitted a SEF which is consistent with the ITL records.

Ref Nr	Requirement	Assessment	Comment
P2.2.5	22/CMP.1 paragraph 88.(e) ERUs, CERs, AAUs and RMUs have been issued, acquired, transferred, cancelled, retired, or carried over to the subsequent or from the previous commitment period in accordance with the annex to decision 13/CMP.1;	Problem Identified? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	No discrepancies occurred for the Party and no problem has been identified with regard to its transaction procedures related to ERUs, CERs, AAUs and RMUs.
P2.2.6	22/CMP.1 paragraph 88.(f) tCERs and ICERs have been issued, acquired, transferred, cancelled, retired and replaced, in accordance with the annex to decision 13/CMP.1 and the annex to decision 5/CMP.1;	Problem Identified? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	No discrepancies occurred for the Party and no problem has been identified with regard to its transaction procedures related to tCERs and ICERS.
P2.2.7	22/CMP.1 paragraph 88.(g) The information reported under paragraph 11 (a) of section I.E. in the annex to decision 15/CMP.1 on the quantities of units in accounts at the beginning of the year is consistent with information submitted the previous year, taking into account any corrections made to such information, on the quantities of units in accounts at the end of the previous year;	Problem Identified? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Party submitted a SEF which is consistent with the ITL records and with information submitted in the year prior to the reported year.
P2.2.8	22/CMP.1 paragraph 88.(h) The required level of the commitment period reserve, as reported, is calculated in accordance with paragraph 6 of the annex to decision 18/CP.7;	Only assessed by the Expert Review Team. Kept here for completeness	
P2.2.9	22/CMP.1 paragraph 88.(i) The assigned amount is calculated to avoid double accounting in accordance with paragraph 9 of the annex to decision 16/CMP.1;	Only assessed by the Expert Review Team. Kept here for completeness	

Ref Nr		Requirement	Assessment	Comment
P2.2.10		22/CMP.1 paragraph 88.(j) A discrepancy has been identified by the transaction log relating to transactions initiated by the Party, and if so the expert review team shall:	Has the discrepancy been identified by the transaction log? <b>[ x ] Yes [ ] No</b>	A total of 2 discrepant transactions with response code 5009 occurred for the Party.
Repeat for each discrepancy type (5009)	P2.2.10.1	22/CMP.1 paragraph 88.(j)(i) Verify that the discrepancy has occurred and been correctly identified by the transaction log;	Has the discrepancy been identified by the transaction log? <b>[ x ] Yes [ ] No [ ] N/A</b>	
	P2.2.10.2	22/CMP.1 paragraph 88.(j)(ii) Assess whether the same type of discrepancy has occurred previously for that Party;	Has the same type of discrepancy occurred previously for that Party? <b>[ ] Yes [ x ] No [ ] N/A</b>	
	P2.2.10.3	22/CMP.1 paragraph 88.(j)(iii) Assess whether the transaction was completed or terminated;	Was the transaction completed or terminated? <b>[ x ] Yes [ ] No [ ] N/A</b>	All discrepant transactions have been terminated
	P2.2.10.4	22/CMP.1 paragraph 88.(j)(iv) Has the Party corrected the problem that caused the discrepancy?	Problem that caused the discrepancy corrected? <b>[ x ] Yes [ ] No [ ] N/A</b>	In [NIR] Section 12.3 the Party states that “necessary actions have been undertaken to correct any problem causing a discrepancy in the reporting year 2015”, however no specifics are provided.
	P2.2.10.5	22/CMP.1 paragraph 88.(j)(v) Assess whether the problem that caused the discrepancy relates to the capacity of the national registry to ensure the accurate accounting of Kyoto Protocol units, issuance, holding, transfer, acquisition, cancellation and retirement of ERUs, CERs, tCERs, ICERs, AAUs and RMUs, the replacement of tCERs and ICERs, and the carry-over of ERUs, CERs and AAUs	Discrepancy relates to the capacity of the national registry to ensure the accurate accounting? <b>[ ] Yes [ x ] No [ ] N/A</b>	Party reports extensively the description of the procedures employed in the national registry to minimize discrepancies [NIR] A10.7.



Ref Nr		Requirement	Assessment	Comment
P2.2.11		22/CMP.1 paragraph 88.(k) Any record of non-replacement has been sent to the Party by the transaction log in relation to tCERs or ICERs held by the Party, and if so the expert review team shall:	Any tCERs or ICERs subject to non-replacement held by Party? <b>[ ] Yes [ x ] No</b>	No non-replacements occurred for the Party.
Repeat for each non-replacement type (incl. Type number)	P2.2.11.1	22/CMP.1 paragraph 88.(k)(i) Verify that the non-replacement has occurred and been correctly identified by the transaction log;	Has the transaction log identified the non-replacement? <b>[ ] Yes [ ] No [ x ] N/A</b>	No non-replacements occurred for the Party.
	P2.2.11.2	22/CMP.1 paragraph 88.(k)(ii) Assess whether non-replacement has occurred previously for that Party;	Has this type of non-replacement previously occurred for that Party? <b>[ ] Yes [ ] No [ x ] N/A</b>	No non-replacements occurred for the Party.
	P2.2.11.3	22/CMP.1 paragraph 88.(k)(iii) Assess whether the replacement was subsequently undertaken;	Was the replacement subsequently undertaken? <b>[ ] Yes [ ] No [ x ] N/A</b>	No non-replacements occurred for the Party.
	P2.2.11.4	22/CMP.1 paragraph 88.(k)(iv) Examine the cause of the non-replacement and whether the Party has corrected the problem that caused the non-replacement;	Has the Party corrected the problem that caused the non-replacement? <b>[ ] Yes [ ] No [ x ] N/A</b>	No non-replacements occurred for the Party.
	P2.2.11.5	22/CMP.1 paragraph 88.(k)(v) Assess whether the problem that caused the non-replacement relates to the capacity of the national registry to ensure the accurate accounting of Kyoto Protocol units, holding, transfer, acquisition, cancellation, and retirement of ERUs, CERs, tCERs, ICERs, AAUs and RMUs, and the replacement of tCERs and ICERs, and if so, initiate a thorough review of the registry system in accordance with part V of these guidelines.	Non-replacement relates to the capacity of the national registry to ensure the accurate accounting? <b>[ ] Yes [ ] No [ x ] N/A</b>	No non-replacements occurred for the Party.

### 3. Identification of Significant Changes

The purpose of this section is to identify any **significant changes** in the national registry reported by the Party that may affect the performance of the functions contained in the annex to decision 13/CMP.1, the annex to decision 15/CMP.1 and the adherence to the technical standards for data exchange between registry systems in accordance with relevant COP/MOP decisions.

If a change to a Party's national registry has been identified under paragraph 22 of the annex to decision 15/CMP.1 then information relating to this change should be submitted by the Party in accordance with paragraph 32 of the annex to decision 15/CMP.1. This section assesses the submitted changes reported by Party in accordance with paragraph 32 of decision 15/CMP.1, and the further guidance elaborated in the Independent Assessment Report common operational procedure.

Ref Nr	Requirement	Has the Party reported a change?	Problem Identified with the Change?	Comment
P2.3.1	15/CMP.1 paragraph 32.(a) The name and contact information of the registry administrator designated by the Party to maintain the national registry	Not a significant change, left here for completeness		
P2.3.2	15/CMP.1 paragraph 32.(b) The names of the other Parties with which the Party cooperates by maintaining their national registries in a consolidated system	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	No changes occurred for the Party for this item.
P2.3.3	15/CMP.1 paragraph 32.(c) A description of the database structure and capacity of the national registry.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	In [NIR] Section 14, the Party states that only minor changes occurred in the structure of the database and that these changes were limited and only affected EU ETS functionality.

Ref Nr	Requirement	Has the Party reported a change?	Problem Identified with the Change?	Comment
P2.3.4	15/CMP.1 paragraph 32.(d) A description of how the national registry conforms to the technical standards for data exchange between registry systems for the purpose of ensuring the accurate, transparent and efficient exchange of data between national registries, the clean development mechanism registry and the transaction log (decision 19/CP.7, paragraph 1)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	In [NIR] Section 14, the Party states the changes that have been made to the conformance to technical standards by its national registry; the Party states as well that no other changes than the aforementioned have been made.
P2.3.5	15/CMP.1 paragraph 32.(e) A description of the procedures employed in the national registry to minimize discrepancies in the issuance, transfer, acquisition, cancellation and retirement of ERUs, CERs, tCERs, ICERs, AAUs and/or RMUs, and replacement of tCERs and ICERs, and of the steps taken to terminate transactions where a discrepancy is notified and to correct problems in the event of a failure to terminate the transactions	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	No changes occurred for the Party for this item.
P2.3.6	15/CMP.1 paragraph 32.(f) An overview of security measures employed in the national registry to prevent unauthorized manipulations and to prevent operator error and of how these measures are kept up to date	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	No changes occurred for the Party for this item.

Ref Nr	Requirement	Has the Party reported a change?	Problem Identified with the Change?	Comment
P2.3.7	15/CMP.1 paragraph 32.(g) A list of the information publicly accessible by means of the user interface to the national registry	Not a significant change, left here for completeness		
P2.3.8	15/CMP.1 paragraph 32.(h) The Internet address of the interface to its national registry	Not a significant change, left here for completeness		
P2.3.9	15/CMP.1 paragraph 32.(i) A description of measures taken to safeguard, maintain and recover data in order to ensure the integrity of data storage and the recovery of registry services in the event of a disaster	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	As a part of the NIR submission, the Party also submitted the [DR] in line with the <u>FCCC/SBI/2015/10</u> . Since not all the necessary requirements are covered the assessor recommends including following information into the plan: <ul style="list-style-type: none"> <li>- DR roles and responsibilities for primary and alternate National Registry personnel.</li> <li>- contingency plan communication procedure</li> <li>- registry operation documentation in a crisis situation</li> <li>- periodic testing strategy, based upon mechanisms agreed with the registry host</li> </ul>
P2.3.10	15/CMP.1 paragraph 32.(j) The results of any test procedures that might be available or developed with the aim of testing the performance, procedures and security measures of the national registry undertaken pursuant to the provisions of decision 19/CP.7 relating to the technical standards for data exchange between registry systems.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	In [NIR] Section 14, the Party states the changes that have been made to the results of its test procedures. The test report has been attached to the [NIR].

## 4. Recommendations

### 4.1. Previous Expert Review Team recommendations

This section assesses Party's response to the previous annual review recommendations.

Ref Nr	Recommendation from previous Annual Review report (with ref)	Has Party acted on recommendation? [ ] Yes [ ] No	Comment
P2.4.1.1	FCCC/ARR/2015/LIE was not available to the Party. There are no recommendations from FCCC/ARR/2014/LIE		N/A

### 4.2. Recommendations to address identified problems

If a problem has been identified earlier in section 2 and 3 or a previous recommendation listed in section 4.1 has not been taken into account, then this section of the report lists a recommendation for each problem to be brought to the attention to the Expert Review Team.

Ref Nr	Recommendation Ref	Recommendation description	Comment
P2.4.2.1	P1.3.9, P2.3.9	The assessor recommends including following information into the disaster recovery plan: <ul style="list-style-type: none"><li>- DR roles and responsibilities for primary and alternate National Registry personnel.</li><li>- contingency plan communication procedure</li><li>- registry operation documentation in a crisis situation</li><li>- periodic testing strategy, based upon mechanisms agreed with the registry host</li></ul>	As a part of the NIR submission, the Party submitted the [DRP] in line with the . Not all the necessary DES requirements have been covered.