

Projects to Reduce Emissions Tararua II Wind Farm (TrustPower) 2012 Annual Report Independent Verification Report

Project verified:

*Tararua II Wind Farm
TrustPower
Craig Schubauer
Wholesale Market Manager
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Independent verifier:

*Noel Peters
DNV KEMA Australia*

Date of verification:

22/01/2013

PRE Project Information	
Name of Project: Tararua II Wind Farm	
Project Site Address: Tararua ranges, 13km Northeast of Palmerston North	
Name of Project Participant: TrustPower	
Name of Project contact: Craig Schubauer	Telephone: +64 7 574 4888 x 8345
Postal Address: TrustPower Limited, Private Bag 12023, Tauranga	Email: craig.schubauer@trustpower.co.nz
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Verifier Information	
Name of Company: DNV KEMA Australia	Telephone: 61-2-9922-1966 ext 517
Name of Lead Verifier: Noel Peters	Fax: 61-2-9929-8792
Email: noel.peters@dnvkema.com	Date(s) of Verification: 22/01/2013
Verification Team Members: Mark Robinson (Peer Review)	
PRE Annual Report Verified	
Annual Report 2012	

1 Verification Statement

To:

Craig Schubauer
Wholesale Market Manager
TrustPower Limited, Private Bag 12023, Tauranga

1.1 Introduction

DNV KEMA Australia has been engaged by *TrustPower* undertake a verification of the Participant's *Projects to Reduce Emissions as detailed in the Tararua II Wind Farm 2012 Annual Report* (2012 Annual Report). The verification has been planned and performed in accordance with the Verification Plan dated 18/01/2013 and our contract dated 18/01/2013.

We have reviewed the nature of the *Tararua II Wind Farm 2012 Annual Report* and have concluded that we are able to conduct a reasonable assurance verification of the criteria items directly related to operation of the project and limited assurance verification of the scope items which describe competence of the Project Participant and the interaction of the project with local regulatory authorities. We have indicated the relevant scope items in the Scope of Verification below.

1.2 Objective

The objective of the verification engagement is to form an opinion as to whether the *Tararua II 2012 Annual Report* is prepared in accordance with the PRE Project Agreement between the Crown and the Project Participant and is free from material discrepancy.

1.3 Criteria

DNV KEMA Australia conducted sufficient verification procedures to enable us to express a reasonable assurance verification opinion on the following matters that, in all material respects:

1. The *Tararua II Wind Farm 2012 Annual Report* includes the information as per the Clause 6.1 b. of the Project Agreement;
2. The recording and calculation of the emission reductions for the year uses the relevant (e.g., electricity) emission factors as applicable;
3. The calculation behind the Emission Units claimed for 2012 as per algorithm of the Clause 5.1 b. of the Project Agreement;
4. The construction emissions calculations if applicable;
5. Metering and recording equipment installed has been certified by an independent reputable quality assured service provider;

6. Any other (electricity, heat) generation, not part of the project, that flows through these meters has been identified, measured and subtracted from the gross total;
7. If applicable, records of emissions as a result of the operation of the project are fairly stated;
8. The participant has justified and documented any significant changes to the PRE project and its baseline scenario that lead to material change in the project's emissions, removals and emission reductions since the previous verification, and which affect the project's ability to conform to the principles, and requirements of the PRE project; and
9. Within the context of verification, any other requirement relating to the PRE project Agreement.

DNV KEMA Australia conducted sufficient verification procedures to enable us to express a limited assurance verification opinion on the following matter that, in all material respects:

10. The participant has adequate understanding of the principles and requirements of the PRE programme and is competent to conform to those principles and requirements; and
11. Compliance with the regulatory requirements of local and central government agencies.

1.4 Verification scope

The scope of verification of the *Tararua II Wind Farm 2012 Annual Report* is as follows:

1.4.1 GHG project and baseline scenarios relevant to the Project

The relevant project and baseline scenarios are as follows

1. Baseline scenario: continuation of electricity supply from the national grid; and
2. Project scenario: renewable and clean electricity generation from renewable wind resources.

1.4.2 Physical infrastructure, activities, technologies and processes of the GHG project

The elements of the project subject to verification are as follows:

1. Physical infrastructure: wind turbines, metering and transmission network, and associated infrastructure, etc;
2. Project activities: *electricity generation from wind turbines and supply to the national grid;*

3. Technologies: *wind turbine* and
4. Processes: *metering of generated electricity and electricity transmission network*.

1.4.3 GHG sources, sinks and/or reservoirs included within the Project boundary

Project GHG sources, sinks and reservoirs within the Project boundary are:

1. GHG sources: *any fossil fuel consumption within project boundary, e.g. any stand-by diesel generator, construction and transportation related to construction*.

1.4.4 Types of GHGs included within the project boundary

The GHG species included within the Project Agreement are:

1. CO₂ (to calculate emission units).

1.4.5 Time period of the Annual Report

The verification is of all project activities in the period *1 January 2012 to 31 December 2012*.

1.5 Verification Principles

DNV KEMA Australia conducted the verification in accordance with ISO 14064-3, ISO 14065 and our contract with the *TrustPower Limited* and the verification principles under the Clause 7 of the Project Agreement between the Project Participant and the Crown.

1.6 Project Participant's Responsibilities

TrustPower is responsible for preparing the *PRE Tararua II Wind Farm 2012 Annual Report* and maintaining an effective internal control environment and data management system, including control procedures supporting the inputs into this documentation, in accordance with accepted good practice.

1.7 Verifier Responsibilities

The verification has been conducted in accordance with ISO14064-3, ISO14065 in order to provide a reasonable and limited level of assurance as described in the Scope of Work above to *TrustPower Limited*. As such *DNV KEMA Australia* has undertaken the following procedures that we considered appropriate to be able to provide a reasonable and limited level of assurance.

1.8 Verification Procedures

Our verification has been conducted in accordance with ISO14064-3 and ISO14065 to provide reasonable assurance that the greenhouse gas assertions and other information contained in the *Tararua II Wind Farm 2012 Annual Report* is free from

material misstatement. Accordingly, we have conducted such tests and procedures as we considered appropriate including:

- *Interviews with personnel from Tararua II Wind Farm, to examine any changes with regard to installation, on-site control procedures, and physical connection to the Transpower national grid.*
- *Review of key documents, including:*
 - *Projects to Reduce Emissions Agreement with the Crown; and*
 - *Tararua II Wind Farm 2012 Annual Report, including correspondence from the Half Hour Data Administrator.*
- Testing of source data, including:
 - Electricity generation by wind turbines
 - Cross-checking of recorded electricity generation and net sent out data.
- Confirmation that the calculation methodology is in compliance with the Clause 5.1b of the Project Agreement
- *Observation and review of relevant documentation.*

The results of the verification procedures undertaken are set out in the following Verification Checklist.

DNV KEMA Australia confirms that we are not aware of any actual or perceived conflict of interest in having completed this engagement.

1.9 Independent Review

DNV KEMA Australia has completed an independent review, undertaken by competent personnel who did not participate in the verification, to:

- Confirm that all verification activities have been undertaken; and
- Conclude whether or not the assertions in the *Tararua II Wind Farm 2012 Annual Report* are free from material discrepancy, and whether the verification activities provide a reasonable level of assurance and a limited level of assurance for the scope items nominated above.

In making this verification statement, we confirm that DNV is currently accredited as a *DOE* by *CDM Executive Board of UNFCCC*, as per the Ministry for the Environment requirements, that this verification has been conducted in accordance with the requirements of the accreditation, and that the findings and conclusions documented in this report are guided by professional judgment and supported by verification records held by us.

1.10 Inherent Limitations

Because of the inherent limitations in any internal control environment and data management system, it is possible that fraud, error, or non-compliance with the PRE
PRE Programme Independent Verification Report for *Tararua II Wind Farm 2012 Annual Report* 6

Agreement may occur and may not be detected. Further, the verification was not designed to detect all weakness or errors in the internal control environment and data management system so far as they relate to the scope set out above, as the verification has not been performed continuously throughout the period and the procedures performed on the relevant internal information and data management system were on a test basis. Any extrapolation from this verification to future periods is subject to the risk that the procedures may become inadequate because of changes in conditions, or that the degree of compliance with them may deteriorate.

DNV KEMA Australia did not conduct any verification procedures with respect to the internal control environment and data management system of the Project Participant as a whole. As such, no assurance is provided on any internal control environment and data management system not associated with the *Tararua II Wind Farm 2012 Annual Report*.

The verification opinion expressed in this report has been formed on the above basis.

1.11 Verification Opinion

Our opinion, following the reasonable assurance verification undertaken at the DNV KEMA Australia Office in *Sydney* of the GHG assertions included in the *Tararua II Wind Farm 2012 Annual Report* and the subsequent review of associated documents is that the following matter is fairly presented, in all material aspects, in accordance with the PRE requirements:

1. The *Tararua II 2012 Annual Report* includes the information detailed as per the Clause 6.1 b. of the Project Agreement;
2. The recording and calculation of the emission reductions for 2012 uses the relevant (e.g., electricity) emission factors as applicable;
3. The calculation behind the Emission Units claimed for 2012, as per algorithm of the Clause 5.1 b. of the Project Agreement;
4. Metering and recording equipment installed has been certified by an independent reputable quality assured service provider;
5. Any other electricity generation, not part of the project, that flows through these meters has been indentified, measured and subtracted from the gross total;
6. The participant has justified and documented any significant changes to the PRE project and its baseline scenario that lead to material change in the project's emissions, removals and emission reductions since the previous verification, and which affect the projects ability to conform to the principles, and requirements of the PRE project; and
7. Within the context of verification, any other requirement relating to the PRE project Agreement.

In our opinion, nothing came to our attention during the limited assurance verification of the *Tararua II Wind Farm 2012 Annual Report* and subsequent review of associated documents, to indicate the assertion that the regulatory requirements of local and central government agencies have been met is not, in all material aspects, in accordance with the PRE Guidance requirements.



1. The participant has adequate understanding of the principles and requirements of the PRE programme and is competent to conform to those principles and requirements; and
2. Compliance with the regulatory requirements of local and central government agencies.

1.12 Suggestions

None.

1.13 Limitations on use

This Verification Statement has been prepared for the *TrustPower* solely for use in relation to the *Projects to Reduce Emissions* programme. *DNV KEMA Australia* disclaims any liability for reliance upon this Report by any other party or for any other purpose other than for which it was prepared.

Name of Lead Verifier:	Noel Peters
Position:	Senior Principal
Company and Location:	DNV KEMA Australia, Sydney
Signature of Lead Verifier:	
Date:	25/01/2013
Name of Independent Reviewer	Mark Robinson
Signature of Independent Reviewer	
Date:	25/01/2013

Attachment 1 – Verification Procedures and Findings

2 Attachment 1 – verification procedures and findings

Attachment 1 is a record of the verification procedures conducted in accordance with ISO 14064-3 and ISO 14065 and of the verification findings. The checklist is not a comprehensive description of all the verification procedures performed or all verification evidence obtained during the verification process, but is a fair presentation of the procedures and findings in sufficient detail to enable all findings (both positive and negative) to be verified.

Criteria Item 1 verified	The <i>Tararua II 2012 Annual Report</i> includes the information detailed as per the Clause 6.1.b. of the Project Agreement.		
Description of requirement	That all of the information detailed in the Cluse 6.1.b of the Project Agreement for inclusion in the Annual Report has been included and is fairly stated.		
Verification procedures	Verification item	Information Source/Evidence	Comments
	Cross check of Annual Report information with the requirements documented in the Clause 6.1.b of the Project Agreement	2012 Annual Report (25 January 2013) Project Agreement (15 December 2003) Calculation spreadsheet <i>TWF_StageIII Gen2 012_Kyoto.xlsx</i> , dated 11 January 2013 Letter verifying Annual Generation for the Tararua North Wind Farm, from the Electricity Commission Approved Half Hour Data Administrator TrustPower Limited, 11 January 2013 Letter verifying Annual Generation for the Tararua	There is no Schedule 4 included with the Project Agreement. The 2012 Annual Report has been verified against the requirement of Clause 6.1.b. of the Project Agreement.

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		<p>South Wind Farm, from the Electricity Commission Approved Half Hour Data Administrator TrustPower Limited, 11 January 2013</p>	
<p>Findings</p>	<p>The 2012 Annual Report for Tararua II was reviewed during this verification, and the required items were checked against Clause 6.1.b. of the Project Agreement (Contents of Annual Reports), these being:</p> <ul style="list-style-type: none"> • Total generation in GWh for each turbine for the reporting year – Item 3, p1 of the Report. • Record of eligible electricity generation 131.142 GWh has been calculated according to the formula as specified in Clause 6.1.b.ii. • Third party verification of the total generation injected from the project into the national grid for the reporting year – meter calibration certificates are attached to the Annual Report. • Separate letters dated 11 January 2013 from the Half Hour Data Administrator, TrustPower Limited, confirms total Net Sent Out generation of 127.481515 G Wh (from Tararua Wind Farm South Generation) and 116.316019 GWh (from Tararua Wind Farm North Generation). 		
<p>Conclusion</p>	<p>2012 Annual Report includes all required information according to Clause 6.1.b. of the Project Agreement.</p>		

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Criteria Item 2 verified	The recording and calculation of the emission reductions for the year uses the relevant (e.g., electricity) emission factors set out in Schedule 2 (or as otherwise defined).		
Description of requirement	That the emission factors used in the Annual Report are the same as those in Schedule 2 (or as otherwise defined) of the Project Agreement, and that the mathematical calculation of emission reductions using the emission factors and project activity parameters are fairly stated		
Verification procedures	Verification item	Information Source/Evidence	Comments
	Cross check of emission factors used in the emission reduction calculation with the emission factors in Schedule 2 (or as otherwise defined) of the Project Agreement	2012 Annual Report (25 January 2013) Project Agreement (15 December 2003)	There is no Schedule 2 included with the Project Agreement. Emission Units have been estimated according to clause 5.1.b of the project agreement.
	Emission factors not included in Schedule 2 are from properly authorised sources or are based on test results from properly accredited laboratories		No other emission factor has been used.
	Confirmation that the measurement of project activity parameters has been properly undertaken	2012 Annual Report (25 January 2013)	Electricity generated from each wind turbine of Tararua II has been recorded individually and reported properly in the Tararua II Wind Farm 2012 Annual Report. Total electricity generation from Tararua II Wind Farm (131.14

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			GWh) is measured at each stage 2 machine and recorded by the Vestas Online Business (VOB) SCADA system.
	Confirmation that the measured project activity parameters have been accurately transcribed to the Annual Report	2012 Annual Report (25 January 2013)	The measured project activity parameters have been accurately transcribed to the Annual Report.
	Confirmation by alternate or check calculation that the determination of emission reductions is fairly stated	2012 Annual Report (25 January 2013) Project Agreement (15 December 2003)	The total emission reductions calculation was checked and found is fairly stated according to the clause 5.1.b of the Project Agreement.
Findings	Emission Units has been estimated according to the Clause 5.1.b of the project agreement. No other emission factor was used.		
Conclusion	Emission Units has been estimated according to clause 5.1b of the project agreement.		

Criteria Item 3 verified	The calculation behind the Emission Units claimed for 2012 as per algorithm of the Clause 5.1 b. of the Project Agreement		
Description of requirement	That the calculation of Emission Units properly uses the net emission reduction calculated for the year 2012 taking due account of algorithm of the Clause 5.1 b. of the Project Agreement		
Verification procedures	Verification item	Information Source/Evidence	Comments
	Confirm that the calculation takes proper account of the request ratio	2012 Annual Report (25 January 2013) Project Agreement (15 December 2003) Calculation spreadsheet <i>TWF_StagellGen2012_Kyoto.xlsx</i> , dated 11 January 2013	There is no request ratio according to the Clause 5.1 of the Project Agreement. The emission reduction calculation has been as per Clause 5.1.b of Tararua II Project Agreement, where a maximum amount of Emission Reduction Units (ERUs) was set at 228 000 ERUs.
	Confirm that the calculation of Emission Reduction units is based on net emission reductions.	2012 Annual Report (25 January 2013) Project Agreement (15 December 2003)	The calculation of the ERUs is based on Net Sent Out Electricity generation from Tararua II Wind Farm, which is verifiable.
Findings	The net electricity generation (131.142 GWh) from Tararua II Wind Farm has been used to calculate net emission reduction.		

Conclusion	The calculation behind the Emission Reduction Units claimed for 2012 uses the Net Sent Out electricity generation as set out in Clause 5.1 of the Project Agreement.
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<p>Criteria Item 4 verified</p>	<p>If applicable: the construction emissions calculations uses (a) the emission factors set out in Schedule 2 (or as defined elsewhere), and (b) the records of the quantities of materials, fuels, electricity purchased etc. relevant to emissions during construction.</p>		
<p>Description of requirement</p>	<p>That calculation of construction emissions uses the emission factors set out in Schedule 2 (or as defined elsewhere) and measured quantities of construction materials, accurately transcribed to the Annual Report.</p>		
<p>Verification procedures</p>	<p>Verification item</p>	<p>Information Source/Evidence</p>	<p>Comments</p>
	<p>Confirm that the calculation uses the correct emission factors</p>	<p>2012 Annual Report (25 January 2013) Project Agreement (15 December 2003) Site visit 22 January 2013.</p>	<p>No construction work was carried out during 2012 as all the construction work has been completed. Hence there were no construction emissions during the 2012 reporting period.</p>
	<p>Confirmation that all appropriate construction materials have been included</p>	<p>Not applicable.</p>	<p>Not applicable.</p>
	<p>Review of the record keeping arrangements to confirm that the measured quantities of construction materials are a fair presentation of actual usage</p>	<p>Not applicable.</p>	<p>Not applicable.</p>

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	The exercise of professional judgement in relation to whether the claimed quantity of construction materials was reasonable	Not applicable.	Not applicable.
	Alternate calculations and cross checks to confirm that the calculation of construction emissions is fairly presented	Not applicable.	Not applicable.
Findings	The greenhouse gas emission from project construction took place during previous reporting periods. By 2012, the year under verification – all construction activities had been completed and no construction emissions are recorded in the 2012 Annual Report.		
Conclusion	This Criteria Item is not applicable as no construction activities, and therefore no construction emissions, occurred during 2012.		

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Criteria Item 5 verified	Metering and recording equipment installed has been certified by an independent reputable quality assured service provider.		
Description of requirement	That the metering and recording equipment installed has been certified by an independent reputable quality assured service provider.		
Verification procedures	Verification item	Information Source/Evidence	Comments
	Examination of calibration and maintenance certificates to ensure that they are current	<p>Compliance certificates:</p> <p>Tararua Wind Farm 33kV North Revenue Metering Installation (AccuCal CERT-2009-268) (Certification Expiry Date 15 November 2012)</p> <p>Tararua Wind Farm 33kV North Revenue Metering Installation (AccuCal CERT-2012-482) (Certification Expiry Date 14 November 2015)</p> <p>Tararua Wind Farm 33kV South Revenue Metering Installation (AccuCal CERT-2009-269) (Certification Expiry Date 15 November 2012).</p> <p>Tararua Wind Farm 33kV South Revenue Metering Installation (AccuCal CERT-2012-483) (Certification Expiry</p>	Calibration of the meters has been carried out by AccuCal and calibration certificates are valid for 2012.

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		Date 15 November 2012).	
	Examination of installed instruments to confirm that the installed instruments are those covered by the calibration certificates	Annual Generation from Tararua Wind Farm North (meter ID 684) Annual Generation from Tararua Wind Farm South (meter ID 685)	The metering and recording equipment installed at the wind farm substation were found to be the same as calibrated by AccuCal and compared with the annual generation statement from TrustPower as Approved Half Hour Data Administrator.
	Confirmation that the calibration agency is appropriately qualified and accredited for the instruments which have been calibrated	Agency Accreditation scope	The calibration test is performed by AccuCal. AccuCal is registered the with Electricity Authority (previously Electricity Commission) as a class A approved test house.
Findings	<p>The metering and recording equipment installed at the wind farm substation were found to be of a standard appropriate for its purpose and calibrated and tested to be in good operating condition.</p> <p>Compliance testing of the meters was completed by AccuCal. Compliance Certificates for each of the revenue meters are attached to the 2012 Annual Report.</p> <p>AccuCal is an appropriately qualified and accredited agency to perform calibration and compliance tests for the Tararua II Wind Farm instruments which have been calibrated.</p>		
Conclusion	<p>Metering and recording equipment installed has been certified by an independent reputable quality assured service provider.</p>		

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Criteria Item 6 verified	If applicable any other (electricity, heat) generation, not part of the project, that flows through these meters is indentified, measured and subtracted from the gross total.		
Description of requirement	That any other (electricity, heat) generation, not part of the project, that flows through these meters is indentified, measured and subtracted from the gross total and fairly stated.		
Verification procedures	Verification item	Information Source/Evidence	Comments
	Review of the process and instrumentation diagram of the project to confirm the presence or absence of other energy flows through the project metering installation	2012 Annual Report (25 January 2013) Project Agreement (15 December 2003)	Tararua Wind Farm North and Tararua Wind Farm South contain in total 103 wind turbines. The 55 (V47 – 660 kW) wind turbines included in Tararua II each have individual meters. Individual electricity generation from each wind turbine of Tararua II Wind Farm is tabulated on page 1 and 2 of the 2012 Annual Report and reported for claiming Emission Reduction Units according to clause 5.1 b of the Project Agreement.
	Consideration of the nature and design of the project	2012 Annual Report (25 January 2013) Project Agreement (15 December 2003)	Tararua II Wind Farm generates electricity from renewable wind resources and supply to the grid.

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	<p>Review of the record keeping process to confirm that the metered data is accurately measured and recorded</p>	<p>2012 Annual Report (25 January 2013)</p> <p>Project Agreement (15 December 2003)</p> <p>Annual Generation from Tararua Wind Farm North (meter ID 684)</p> <p>Annual Generation from Tararua Wind Farm South (meter ID 685)</p> <p>Certified Reconciliation Participant - TrustPower Limited (Certificate issued by the Electricity Commission and valid until 23 October 2013).</p>	<p>TrustPower is an Electricity Commission Approved Half Hour Data Administrator and is responsible for TrustPower's submission to the Reconciliation Manager.</p> <p>Electricity generated by each wind turbines at Tararua II Wind Farm is recorded by individual meter.</p> <p>Total Net Sent Out electricity delivered to the Network is measured by revenue meters.</p> <p>Any difference between two metered values provides an estimate of electrical losses at the wind farm and before connection to the Powerco network.</p>
	<p>Review of the metering arrangements to confirm that the measurements of other energy flows truly represent those flows</p>	<p>2012 Annual Report (25 January 2013)</p> <p>Project Agreement (15 December 2003)</p> <p>Annual Generation from Tararua Wind Farm North (meter ID 684)</p> <p>Annual Generation from Tararua Wind Farm South (meter ID 685)</p>	<p>Electricity generated by each wind turbine at Tararua II Wind Farm is recorded by an individual meter.</p> <p>Total Net Sent Out electricity delivered to the Network is measured by revenue meters.</p>

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		ID 685)	
	Review of the energy calculation methodology to confirm that any other energy flows have been correctly subtracted and that the final result truly reflects the net energy flow attributable to the project	2012 Annual Report (25 January 2013) Project Agreement (15 December 2003)	There is no other electricity generation that is not part of Tararua II wind turbines individual metering. Electricity flows through the Net Sent Out revenue meters and is subtracted from the electricity generation from another 48 wind turbines in order to estimate actual electricity generation from Tararua II wind farm. The actual electricity generation (131.142 GWh) for year 2012 from Tararua II, truly reflects the net energy flow attributable to the project.
Findings	No other electricity flows through the individual meters located at each wind turbines of Tararua II Wind Farm. Electricity flows through the Net Sent Out revenue meters subtract electricity generation from another 48 wind turbines in order to estimate actual electricity generation from Tararua II Wind Farm.		
Conclusion	The electricity calculation method was reviewed and electricity generation from other wind turbines, not part of the Tararua II Wind Farm that flows through revenue meters is identified, measured and subtracted from the gross total and fairly stated.		

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Criteria Item 7 verified	If applicable, the record of emissions as a result of the operation of the project is fairly stated		
Description of requirement	That the record of emissions as a result of operation of the project is fairly stated.		
Verification procedures	Verification item	Information Source/Evidence	Comments
	Confirm that the calculation uses the correct emission factors	Not applicable	Emissions from operation of the project are confined to on-site vehicle use by Vestas and are negligible. In addition, it is not a requirement for TrustPower to measure and monitor operational emissions as per PRE agreement with the Crown.
	Confirmation that all appropriate operational activities have been included	Not applicable	Not applicable
	Review of the record keeping arrangements to confirm that the measured quantities of operational materials are a fair presentation of actual usage	Not applicable	Not applicable
	The exercise of professional judgement in relation to whether the claimed quantity of operational materials was reasonable	Not applicable	Emissions from operation of the project are confined to on-site vehicle use by Vestas and are negligible. In addition, it is not a requirement for

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			TrustPower to measure and monitor operational emissions as per PRE agreement with the Crown.
	Alternate calculations and cross checks to confirm that the calculation of operation emissions is fairly presented	Not applicable	Not applicable
Findings	No record of emissions as a result of the operation of the Tararua II Wind Farm has been reported in s2 (p1) of 2012 Annual Report as the emissions are negligible.		
Conclusion	No emission was recorded due to operation of the project, which in the verifier's opinion is reasonable.		

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Criteria Item 8 verified	The participant has justified and documented any significant changes to the PRE project and its baseline scenario that lead to material change in the project's emissions, removals and emission reductions since the previous verification, and which affect the projects ability to conform to the principles, and requirements of the PRE project.		
Description of requirement	Identify any additional requirements related to the PRE Project Agreement which require verification and verify those requirements		
Verification procedures	Verification item	Information Source/Evidence	Comments
	Physical infrastructures Project activities Technologies Processes	2012 Annual Report (25 January 2013)	No changes in physical infrastructures of Tararua II Wind Farm, its processes and technologies.
Findings	No evidence has been identified in 2012 Annual Report or during the on-site visit of any significant changes to the PRE project and its baseline scenario that would lead to a material change in the project's emissions and emission reductions since the previous verification, or would affect the projects ability to conform to the principles and requirements of the PRE project.		
Conclusion	No additional requirement related to PRE Project Agreement was identified. No additional verification was performed.		

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Criteria Item 9 verified	Within the context of verification, any other requirement relating to the PRE project Agreement.		
Description of requirement	Identify any additional requirements related to the PRE Project Agreement which require verification and verify those requirements		
Verification procedures	Verification item	Information Source/Evidence	Comments
	PRE requirements	2012 Annual Report (25 January 2013) Project Agreement (15 December 2003)	All PRE project agreement requirements have been met.
Findings	During the review process, there was no finding that any other requirements from the PRE project agreement that had not been met.		
Conclusion	All PRE project agreement requirements have been met.		

Criteria Item 10 verified	The participant has adequate understanding of the principles and requirements of the PRE programme and is competent to conform to those principles and requirements.		
Description of requirement	Identify any additional requirements related to the PRE Project Agreement which require verification and verify those requirements.		
Verification procedures	Verification item	Information Source/Evidence	Comments
	<p>Understanding of PRE project requirement</p> <p>Reporting requirement according to Schedule 4</p> <p>Understand of measurement of emission reduction</p> <p>And understanding of Emission Trading</p>	<p>2012 Annual Report (25 January 2013)</p> <p>Project Agreement (15 December 2003)</p> <p>Site visit: 22 January 2012</p>	<p>TrustPower personnel:</p> <p>Craig Schubauer – Wholesale Market Manager</p> <p>Vestas personnel:</p> <p>James McKay – Site Supervisor, Vestas</p> <p>Donna Robert – Site Administrator, Vestas</p> <p>Mike Perin – SCADA Data Technician,</p> <p>Interviews with monitoring, reporting and quality personnel in 2012 confirm that adequate understanding of the principles and requirements of the PRE programme and are competent to conform to those principles and requirements.</p>
Findings	No additional requirements related to the PRE Project Agreement which require verification and verify those requirements.		

Conclusion	The participant has adequate understanding of the principles and requirements of the PRE programme and is competent to conform to those principles and requirements.
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Criteria Item 11 verified	Compliance with the regulatory requirements of local and central government agencies.		
Description of requirement	That nothing came to the notice of the verifier to indicate that the project was not compliant with the regulatory requirements of local and central government agencies.		
Verification procedures	Verification item	Information Source/Evidence	Comments
	Review compliance conditions made within the Resource Consent or other regulatory approvals	Communication from TrustPower.	TrustPower confirmed that all consent compliance monitoring ended during 2009. No consent compliance monitoring was required to be carried out in 2012.
	Review correspondence between the local authorities and the project operator to evaluate compliance with requirements	Communication from TrustPower.	TrustPower confirmed that all consent compliance monitoring ended during 2009. No consent compliance monitoring was required to be carried out in 2012.
	Review the activities at the site to confirm that the project arrangements are generally compliant with regulatory requirements	Site visit: 24 January 2012	A review of the activities at the site suggests that the project arrangements are generally compliant with regulatory requirements.
	Confirm that project monitoring includes relevant regulatory and compliance conditions.	Communication from TrustPower.	TrustPower confirmed that all consent compliance monitoring ended during 2009. No consent compliance monitoring was required to be carried out in 2012.

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Findings	No discernable issue of non-compliance with regulatory requirements was noted during the first and initial verification carried out by DNV Australia in 2009 noting the inherent limitations discussed in s1.10 of this report. No issues have been identified in 2012 Annual Report or during the on-site visit that would lead to a material change in consent compliance requirements as specified in Consent Conditions issued by the Palmerston North City Council.
Conclusion	No discernable issue of non-compliance with regulatory requirements was noted during the first and initial verification carried out by DNV Australia in 2009 noting the inherent limitations discussed in s1.10 of this report. No issues have been identified in 2012 Annual Report or during the on-site visit that would lead to a material change in consent compliance requirements as specified in Consent Conditions issued by the Palmerston North City Council.

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3 Documents Reviewed	4 Please include author, date prepared and date reviewed by Verifier
2012 Annual Report and attachments including letter from Half Hour Data Administrator	TrustPower, 21 January 2013, amended 25 January 2013, reviewed in January 2013
Project Agreement 2003	Crown/Ministry for the Environment, December 2003, reviewed in January 2013
Calculation spreadsheet <i>TWF_StagellGen2012_Kyoto.xlsx</i> , dated	TrustPower, 11 January 2013, reviewed in January 2013
Certified Reconciliation Participant document	Electricity Authority, Certificate valid to 13 October 2013, reviewed January 2013
Letter verifying Annual Generation from the Electricity Commission Approved Half Hour Data Administrator for the Tararua North Wind Farm.	TrustPower Limited, 11 January 2013, reviewed in January 2013.
Letter verifying Annual Generation from the Electricity Commission Approved Half Hour Data Administrator for the Tararua South Wind Farm.	TrustPower Limited, 11 January 2013, reviewed in January 2013.
Compliance Certificate: Tararua Wind Farm 33kV North Revenue Metering Installation (AccuCal CERT-2009-268) (Certification Expiry Date 15 November 2012)	AccuCal, 17 November 2009, reviewed in January 2013
Compliance Certificate: Tararua Wind Farm 33kV South Revenue Metering Installation (AccuCal CERT-2009-269) (Certification Expiry Date 15 November 2012)	AccuCal, 17 November 2009, reviewed in January 2012
Compliance Certificate: Tararua Wind Farm 33kV North Revenue Metering Installation (AccuCal CERT-2012-482) (Certification Expiry Date 14 November 2015)	AccuCal, 14 November 2012, reviewed in January 2013
Compliance Certificate: Tararua Wind Farm 33kV South Revenue	AccuCal, 14 November 2012, reviewed in January

COMMERCIAL IN CONFIDENCE

Metering Installation (AccuCal CERT-2012-483) (Certification Expiry Date 14 November 2015)	2013
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5 Site Visit location	6 Address, date of visit, personnel interviewed
Tararua, New Zealand	<p>Tararua Ranges, 22 January 2012</p> <p>Craig Schubauer, Wholesale Market Manager, TrustPower</p> <p>James McKay– Site Supervisor, Vestas</p> <p>Donna Robert – Site Administrator, Vestas</p>