



**TrustPower Limited**

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**ANNUAL REPORT TEMPLATE FOR WIND FARM PROJECTS  
 (Individual contract)**

**Project Title:** Tararua Wind Farm – Stage II

**Description of Project:** Wind Farm located in Tararua ranges consisting of 55 Vestas V47-660 kW turbines.

**Company:** TrustPower Limited

**Year Reported on:** 2010

**(1) Break down and total of emissions generated during construction using the emission factors listed in Schedule 2 (if applicable to the year being reported on).**

Not applicable

**(2) Once abatement commences the following, if applicable to your project, to be recorded if used in its operation:**

Not applicable

*Reminder: Emission Reductions cannot exist until after the requirements of clause 4.4 of the Project Agreement have been met.*

**(3) A record of the amount of electricity exported by the Project during the year.**

The following table records the output for each Stage II turbine as generated at the machine.

Revenue Meter	kWh	OR	Turbine Identifier	kWh
			WT017	2,202,157
			WT018	2,396,488
			WT019	2,491,602
			WT052	2,053,102
			WT053	2,280,340
			WT054	1,086,432
			WT055	2,309,178
			WT056	2,332,562
			WT057	2,368,964
			WT058	2,326,756
			WT059	2,297,133
			WT060	2,483,009
			WT061	2,392,744
			WT062	2,073,772
			WT063	2,411,162
			WT064	2,468,881
			WT065	2,131,479

	WT066	1,852,533
	WT067	1,788,053
	WT068	2,246,253
	WT069	2,255,283
	WT070	1,854,821
	WT071	2,147,370
	WT072	2,340,751
	WT073	2,021,169
	WT074	2,245,331
	WT075	2,125,550
	WT076	2,592,046
	WT077	2,632,330
	WT078	2,560,568
	WT079	2,195,288
	WT080	2,374,343
	WT081	2,519,230
	WT082	2,298,580
	WT083	2,429,701
	WT084	2,337,400
	WT085	2,210,753
	WT086	2,247,111
	WT087	2,215,291
	WT088	2,137,396
	WT089	2,125,513
	WT090	2,289,265
	WT091	2,369,317
	WT092	2,505,047
	WT093	2,307,526
	WT094	2,273,664
	WT095	2,305,876
	WT096	3,003,341
	WT097	2,814,550
	WT098	3,060,110
	WT099	3,007,305
	WT100	2,984,268
	WT101	2,932,725
	WT102	2,882,275
	WT103	2,958,374
<b>Total Electricity Generated (GWh)</b>		<b>129.55</b>

**(4) Identify and measure any other generation that is not part of the project that flows through the above meters. (This generation to be subtracted from the metered generation to determine the electricity output of the project).**

Above data is measured at the turbine.

Element and Measure	Total
Electricity (GWh)	0

**(5) If the electricity is measured at the turbine provide an estimate of electrical losses at the wind farm and before connection to the lines network or Transpower grid. (Attach calculations.)**

The total generation measured at all machines for the year was 238.733 GWh and the total generated by stage II was 129.552 GWh.  
 The total metered output to the Powerco Network was 236.779 GWh, giving eligible generation of 128.492 GWh.  
 Electrical Losses for the site was 0.82%.  
 Calculation  $(238.733 - 236.779) / 238.733$

**(6) A record of the amount of tCO<sub>2</sub>-e Emission Reductions resulting from the Project during the year determined by the relevant emission factors as per Schedule 2 of the Project Agreement. The construction emissions should be subtracted from this total for each of the years that are reported on when construction takes place. Once abatement commences the total of any emissions recorded in (2) above should be subtracted from the total (if applicable to your project).**

No schedule 2 in Tararua II Project Agreement.

Element	Annual Production	Factor	t CO <sub>2</sub> -e
Electricity (GWh) (3)		600 tonnes per GWh	
		Less construction emissions and/or other project emissions (1),(2)	
Less other generation not part of the project, recorded by the meters (GWh) (4)		600 tonnes per GWh	
		<b>Net Emission Reductions for the year</b>	

**(7) Emission Units claimed for the year using the emission ratio “C” set out in Clause 5.1 of the Project Agreement.**

As per clause 5.1b of Tararua II contract.  
 $(2010 \text{ verified Eligible Generation} / 646.5 \text{ GWh}) \times 228,000 \text{ units}$   
 **$(128.492 / 646.5 \text{ GWh}) \times 228,000 = 45,315$**

**(8a) Advice on the location of the meters or how the generation was measured. For example: at the turbines, the revenue meter point of entry into the lines network or the national grid.**

The meters are located at the turbines and at the point of entry into the Powerco Network.

**(8b) Advice on how the generation was measured.** *For example, metered directly, using meter readings and adjusting for losses.*

To ensure accuracy of the data, we use both the meters on each of the turbines and the total generation including losses.

**8(c) Advice on the quantity of electricity generated or exported.** *Attach a relevant statement (or statements) from the Reconciliation Manager or an Electricity Commission Approved Half Hour Data Administrator identifying the volume of electricity used in determining the net emission reductions in question 6.*

Letter attached.

**(9) Evidence that the metering and recording equipment has been certified by a reputable, independent quality assurance service provider.** *Attach copies of relevant certificates(s) of compliance for meters/metering installations for the full 12 months of the reporting year.*

See attached certificates.

**(10) A statement detailing anything that has, or has the potential, to be an impediment to achieving the agreed emission reductions during commitment period one.** *This should include circumstances where the final milestone is achieved later than the final milestone date.*

TrustPower is not aware of any impediments to the delivery of Eligible Generation during the Commitment Period.

**(11) A verification report for this year (if undertaken by the participant)**

A verification report is to be completed by DNV.

**(11) A statement identifying that this report:**

- has been prepared using the methodology of Schedule 2 – Methodology for Determining Emission Reductions (or otherwise as detailed in section ... of this report)
- meets all other requirements of Schedule 4 - Contents for Annual Reports, of the Project Agreement.

The information in this report meets all the requirements of Clause 6.1 b of the Project Agreement.

**SALES & MARKETING**

Clause 6.1.b.v. requires disclosure of any sales or marketing activity. TrustPower has entered into a forward sales agreement for the emission reductions generated by the project in the Commitment Period.

Signature:



Position:

**Peter Calderwood  
Strategic Business  
Development Manager**

Date:

21/1/11

## Unit Transfer Details

**Please Note: To obtain the emission reduction units you will need a NZEUR account to transfer the agreed/allowed Emission Units.**

1	Project name:	Tararua Wind Farm
2	Date of project agreement:	15 December 2003
3	Name of the project developer/company:	TrustPower Limited
4	Project ID:	NZ- 1000003
5	Calendar year for which units are being transferred:	2010
6	Account identifier:	NZ- 1060 TrustPower Limited
7	Project Participant (investor): <sup>1</sup>	Electrabel SA
8	Quantity of units (refer to section 7 of this report):	45,315
9	Type of units:	ERU

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<sup>1</sup> Project Participant (investor) is a party that the project developer/company has an agreement with to transfer emission reduction units (ERUs) or assigned amount units (AAUs) to.



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12 January 2011

Manager, Funds Management  
Ministry for the Environment  
PO Box 10362  
Wellington  
New Zealand 6143

**Subject: Verification of Annual Generation from Tararua Wind Farm South**

Dear Steve,

As an Electricity Commission Approved Half Hour Data Administrator, responsible for TrustPower's submissions to the Market I can confirm that the following Energy data (below) is an accurate reflection of volume submitted to the Market for the 2010 year for the Tararua South Wind Farm.

Annual Generation		
kwh	Meter ID	Description
124,404,476	685	Tararua Wind Farm Sth Generation (LTN)

Yours sincerely,

Matthew James  
Manager Data Management



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12 January 2011

Manager, Funds Management  
Ministry for the Environment  
PO Box 10362  
Wellington  
New Zealand 6143

**Subject: Verification of Annual Generation from Tararua Wind Farm North**

Dear Steve,

As an Electricity Commission Approved Half Hour Data Administrator, responsible for TrustPower's submissions to the Market I can confirm that the following Energy data (below) is an accurate reflection of volume submitted to the Market for the 2010 year for the Tararua North Wind Farm.

Annual Generation		
kwh	Meter ID	Description
112,375,015	684	Tararua Wind Farm Nth Generation (BPE)

Yours sincerely,

Matthew James  
Manager Data Management

# AccuCal

## Certificate of Compliance

This is to certify that

# Tararua Wind Farm 33kV North

ICP No. N/A

Revenue Metering Installation

Certified for

**TrustPower Limited**

Complies with

**The Electricity Governance Rules – 16 December 2003.**

Certification Date: **17-Nov-2009**

Certification Expiry Date: **15-Nov-2012**

Condition of Certification:- N/A



R Mann – Technical Manager

**AccuCal**

The record of certification tests is contained within Certification Report No: **CERT-2009-268**



This Laboratory is registered with the Electricity Commission as a class A approved test house.



The tests reported herein have been performed in accordance with the laboratory's scope of accreditation.

**AccuCal**

14 RIVER OAKS PLACE, HAMILTON, NEW ZEALAND  
PHONE: (64) 7 849 5503 • FAX: (64) 7 849 5502

# AccuCal

## Certificate of Compliance

This is to certify that

# Tararua Wind Farm 33kV South

ICP No. N/A

Revenue Metering Installation

Certified for

**TrustPower Limited**

Complies with

**The Electricity Governance Rules – 16 December 2003.**

Certification Date: 17-Nov-2009

Certification Expiry Date: 15-Nov-2012

Condition of Certification:- N/A



R Mann – Technical Manager

AccuCal

The record of certification tests is contained within Certification Report No: **CERT-2009-269**



This Laboratory is registered with the Electricity Commission as a class A approved test house.



The tests reported herein have been performed in accordance with the laboratory's scope of accreditation.

AccuCal

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