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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:** 2011

**(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) Break down and total of emissions from the operation of your project, once emission reductions have commenced.**

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	1,919,262
			WT018	2,331,465
			WT019	2,383,046
			WT052	2,119,878
			WT053	2,277,123
			WT054	2,080,653
			WT055	2,282,263
			WT056	2,351,541
			WT057	2,346,416
			WT058	2,293,331
			WT059	2,339,376
			WT060	2,536,148
			WT061	2,424,579
			WT062	1,804,245

	WT063	2,446,873
	WT064	2,497,601
	WT065	2,052,400
	WT066	2,072,583
	WT067	1,026,176
	WT068	2,157,654
	WT069	2,247,212
	WT070	1,785,517
	WT071	2,220,370
	WT072	2,248,273
	WT073	2,015,290
	WT074	1,932,658
	WT075	2,017,718
	WT076	2,569,465
	WT077	2,487,421
	WT078	2,499,693
	WT079	2,293,929
	WT080	2,341,017
	WT081	2,498,761
	WT082	2,265,179
	WT083	2,298,714
	WT084	2,325,821
	WT085	2,167,334
	WT086	2,190,920
	WT087	2,167,692
	WT088	2,259,899
	WT089	2,241,293
	WT090	2,426,601
	WT091	2,202,001
	WT092	2,482,553
	WT093	2,372,659
	WT094	2,112,585
	WT095	2,098,611
	WT096	3,040,015
	WT097	1,894,906
	WT098	2,727,998
	WT099	2,930,395
	WT100	2,846,996
	WT101	2,870,447
	WT102	2,755,482
	WT103	2,741,622
<b>Total Electricity Generated (GWh)</b>		<b>126.32</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 235.917 GWh and the total generated by stage II was 126.319 GWh.

The total metered output to the Powerco Network was 232.713 GWh, giving eligible generation of 124.604 GWh.

Electrical Losses for the site was 1.36%.

Calculation  $(235.917 - 232.713) / 235.917$

**(6) A record of the 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. Once emission reductions commence the total of any operational emissions should be subtracted from the total (if applicable to your project).

There is no Schedule 2 in the 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.  
 $(2011 \text{ verified Eligible Generation} / 646.5 \text{ GWh}) \times 228,000 \text{ units}$

$(124.604 / 646.5 \text{ GWh}) \times 228,000 = 43,944$

**(8a) Advice on the location of the meters.** 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.

Letters 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 statement identifying if you have commissioned a verification report for this Annual Report.**

A verification report is to be completed by DNV.

**(12) Checklist: Information and Documents to be provided.**

Section	Supporting information	Tick if included / attached	File name(s)
1	For construction emissions (eg fuel use documentation)		
2	For operational emissions (eg fuel use documentation)		
3	For amount of electricity exported (eg raw data, calculations, explanatory notes):	✓	MFE_TWF_Stage II Gen2011_Kyoto.xlsx
4	For other generation		
5	For electricity losses calculation - if not included as part of (3) or (4))	✓	MFE_TWF_Stage II Gen2011_Kyoto.xlsx
8(c)	Metering -.Electricity Market Reconciliation Manager statement or similar:	✓	Verification Tararua South Jan 2012.doc Verification Tararua North Jan 2012.doc
9	Certificate(s) of compliance for meters/metering installations for the full 12 months of the reporting year.	✓	CERT-2009-268 - TWF 33kV North - EGR Installation Certification - ION.pdf CERT-2009-269 - TWF 33kV South - EGR Installation Certification - ION.pdf
11	Verification report		
14	All Unit Transfer details		
	Hard Copy of Annual Report dated and signed	✓	

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

- has been prepared using the methodology of Schedule 2 (Methodology for Determining Emission Reductions) of the Project Agreement (or otherwise where another measure is used as a proxy measure 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:

*V. Hawksworth*

Name:

Vincent James Hawksworth

Position:

Chief Executive

Date:

18<sup>th</sup> January 2012

**(14) 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:	2011
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):	43,944
9	Type of units:	ERU

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<sup>1</sup> Project Participant (investor) is a party that you have an agreement with to transfer emission reduction units (ERUs).