

## Greenhouse gas emissions and energy

Unless otherwise stated, from 2008 all data reflects a July 1–June 30 reporting year. 2009 data includes figures for St. George Banking Group.

### Westpac Group Summary

	2011	2010	2009	2008 <sup>1</sup>	2007
<b>Scope 1 and 2 emissions – banking operations<sup>2</sup></b>					
Australia (tonnes CO <sub>2</sub> -e)	179,100	184,131	181,259	188,073	113,358
New Zealand (tonnes CO <sub>2</sub> -e)	5,024	5,294	5,980	8,929	n/a
Pacific Banking (tonnes CO <sub>2</sub> -e)	13,764	n/a	3,169	2,139	n/a
United Kingdom (tonnes CO <sub>2</sub> -e) <sup>3</sup>	618	573	492	462	n/a
<b>Total Scope 1 and 2 emissions – banking operations</b>	<b>198,506</b>	<b>189,998</b>	<b>190,900</b>	<b>199,603</b>	<b>113,358</b>
<b>Scope 1 and 2 emissions – property trusts<sup>4</sup></b>					
Scope 1 greenhouse gas emissions (tonnes CO <sub>2</sub> -e)	120	276	282	n/a	n/a
Scope 2 greenhouse gas emissions (tonnes CO <sub>2</sub> -e)	2,500	9,891	10,509	n/a	n/a
<b>Total Scope 1 and 2 emissions – property trusts</b>	<b>2,620</b>	<b>10,167</b>	<b>10,791</b>	<b>n/a</b>	<b>n/a</b>
<b>Energy consumption – property trusts<sup>4</sup></b>					
Natural gas (GJ)	2,055	5,174	5,259	n/a	n/a
Diesel generator (GJ)	208	154	4	n/a	n/a
Electricity (GJ)	9,812	39,940	42,053	n/a	n/a
<b>Total energy consumption – property trusts</b>	<b>12,075</b>	<b>45,268</b>	<b>47,316</b>	<b>n/a</b>	<b>n/a</b>

<sup>1</sup> St. George Banking Group data included on a pro-forma basis. Australian figure includes an additional 8,802 tonnes of CO<sub>2</sub>-e emissions associated with facilities & categories not previously reported (extrapolated from 2009 data) following the implementation of the National Greenhouse and Energy Reporting Act.

<sup>2</sup> Group Banking Operations emissions, not including property trusts. Data pre-2007 can be found in the 2007 Stakeholder Impact Report.

<sup>3</sup> Data available from current premises for natural gas, electricity and water for second half 2011 (1 January to 30 June 2011) only. First half 2011 component of data based on pro rata 2010 data.

<sup>4</sup> Only had operational control of Westpac Place Head Office at 275 Kent St, Sydney, Australia and Westpac Funds Management Administration Ltd (WFMA) for the first quarter of 2011 (1 July–30 September 2010). Only data from this period has been included in the 2011 calculations.

## Greenhouse gas emissions and energy

### Detailed emission & energy profile – Group banking operations

(tonnes CO<sub>2</sub>-e unless otherwise stated)

	Australia		New Zealand		Pacific Banking		United Kingdom	
	2011	2010	2011	2010	2011	2010	2011	2010
<b>Scope 1 emissions</b>								
Natural gas <sup>1,2</sup>	856	798	275	295	-	n/a	75	67
Fleet vehicles	5,315	6,060	1,480	1,378	12,581	n/a	n/a	n/a
Diesel generator	352	295	n/a	n/a	n/a	n/a	n/a	n/a
Refrigerant leakage	n/a	n/a	410	404	n/a	n/a	n/a	n/a
<b>Total Scope 1 emissions</b>	<b>6,522</b>	<b>7,153</b>	<b>2,165</b>	<b>2,077</b>	<b>12,581</b>	<b>n/a</b>	<b>75</b>	<b>67</b>
<b>Scope 2 emissions</b>								
Electricity <sup>1,3,4</sup>	172,578	176,978	2,859	3,217	1,182	n/a	543	506
<b>Total Scope 2 emissions</b>	<b>172,578</b>	<b>176,978</b>	<b>2,859</b>	<b>3,217</b>	<b>1,182</b>	<b>n/a</b>	<b>543</b>	<b>506</b>
<b>Scope 3 emissions</b>								
Base building emissions (Westpac Place)	2,422	9,919	n/a	n/a	n/a	n/a	n/a	n/a
Paper waste (total tonnes less recycled)	7,238	8,935	n/a	643	176	23	n/a	7
Transmission losses	30,412	30,428	476	495	n/a	n/a	n/a	n/a
Air travel	9,720	11,994	3,993	3,630	n/a	n/a	191	181
Fleet	421	472	n/a	n/a	n/a	n/a	n/a	n/a
Waste to landfill <sup>5</sup>	973	2,403	315	383	n/a	n/a	n/a	n/a
Rental cars and use of personal vehicles	n/a	n/a	386	355	n/a	n/a	n/a	n/a
Taxis	577	589	146	87	n/a	n/a	n/a	n/a
Domestic hotels	n/a	n/a	84	125	n/a	n/a	n/a	n/a
<b>Total Scope 3 Emissions</b>	<b>51,764</b>	<b>64,740</b>	<b>5,399</b>	<b>5,717</b>	<b>176</b>	<b>23</b>	<b>191</b>	<b>188</b>
<b>Energy consumption – Group banking operations</b>								
Gas (GJ) <sup>1,2</sup>	16,672	15,556	5,102	5,516	7	n/a	1,407	1,190
Electricity (GJ) <sup>1,4</sup>	690,079	710,570	85,722	90,443	17,010	n/a	3,718	3,610
Greenpower (GJ)	47,262	46,407	n/a	n/a	n/a	n/a	n/a	n/a
Fuel (GJ)	79,539	89,092	17,448	16,250	n/a	n/a	n/a	n/a
Diesel generator (GJ)	5,059	n/a	n/a	n/a	n/a	n/a	n/a	n/a
<b>Total energy consumption – Group banking operations</b>	<b>838,611</b>	<b>861,625</b>	<b>108,273</b>	<b>112,209</b>	<b>17,017</b>	<b>n/a</b>	<b>5,125</b>	<b>4,800</b>

<sup>1</sup> 2010 NZ restated to reflect consistent methodology application.

<sup>2</sup> 2011 Pacific excludes the Solomon Islands and Samoa.

<sup>3</sup> GreenPower is not included as a reduction to emissions.

<sup>4</sup> 2011 Pacific calculated using diesel oil for stationary energy purposes fuel combustion emission factors.

<sup>5</sup> 2011 Australia commercial & industrial waste emission factor used to calculate emissions from waste to landfill, in 2010 paper & cardboard waste mix conversion factor used.

Environment Factpac

**Paper, waste and water**

	2011	2010	2009	2008	2007
<b>Paper consumption</b>					
Australia (tonnes) <sup>1</sup>	5,602	6,066	6,643	7,601	5,114
New Zealand (tonnes) <sup>2</sup>	660	589	503	1,190	1,428
Pacific Banking and United Kingdom (tonnes)	73	12	121	51	47
<b>Total paper consumption</b>	<b>6,335</b>	<b>6,667</b>	<b>7,267</b>	<b>8,842</b>	<b>6,589</b>
Percentage including FSC accredited content (%) <sup>3</sup>	68	55	43	61	52
Percentage including recycled content (%) <sup>3</sup>	9	8	11	n/a	n/a
<b>Paper recycling</b>					
Australia (tonnes)	2,706	2,492	2,933	2,292	2,781
New Zealand (tonnes) <sup>2</sup>	737	563	1,321	919	775
United Kingdom (tonnes)	9	n/a	3	n/a	n/a
<b>Total paper recycling</b>	<b>3,452</b>	<b>3,055</b>	<b>4,257</b>	<b>3,211</b>	<b>3,556</b>
<b>General recycling</b>					
Printer cartridges – New Zealand (number)	9,524	10,988	5,837	5,026	3,985
Flourescent light tubes – Australia (kg)	2,330	1,010	543	391	234
PCs – Australia (number) <sup>4</sup>	6,036	6,395	6,850	3,057	4,456
PCs – United Kingdom (tonnes)	137	n/a	3	n/a	n/a
Plastics – Australia (tonnes)	21	17	11	21	64
Glass – Australia (tonnes)	145	155	150	18	12
Aluminium – Australia (tonnes)	4	3	2	2	1
Steel – Australia (tonnes)	4	3	2	1	1
Co-mingled – Australia (tonnes)	53	52	49	25	n/a
<b>Waste – Westpac Australia Corporate sites</b>					
Diverted (tonnes)	1,524	853	943	720	400
Landfill (tonnes)	885	961	541	470	545
<b>Total waste – Westpac Australia Corporate sites</b>	<b>2,409</b>	<b>1,814</b>	<b>1,484</b>	<b>1,190</b>	<b>945</b>

<sup>1</sup> 2008 data includes St.George Banking Group on a pro forma basis.

<sup>2</sup> 2010 data is as at 30 September.

<sup>3</sup> All New Zealand copy paper is FSC certified. All UK copy paper is recycled.

<sup>4</sup> PCs are recycled through Work Ventures ([www.workventures.com.au](http://www.workventures.com.au)).

**Water usage<sup>1</sup>**

	2011		2010		2009		2008		2007	
	Total k/L	kL/m2	Total k/L	kL/m2	Total k/L	kL/m2	Total k/L	kL/m2	Total k/L	kL/m2
Australia – non-retail	379,500	1.04	389,630	1.04	236,358	1.04	236,576	1.10	193,740	1.00
Australia – retail	272,300	0.66	249,856	0.61	130,275	0.46	133,286	0.48	n/a	n/a
United Kingdom	1,332	0.34	1,827	0.87	1,597	1.02	1,597	1.00	n/a	n/a
Pacific <sup>2</sup>	128,546	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

<sup>1</sup> Australian figures include St.George Banking Group from 2010. 2008 increase is due to the inclusion of extrapolated data for the entire non-retail portfolio. Includes data for properties managed by Hastings where Westpac is the tenant. Retail figures are indicative only and are based on extrapolations.

<sup>2</sup> 2011 Excludes the Cook Islands.

Environment Factpac

**Business travel**

	2011	2010	2009		2008	2007
			St.George	Westpac <sup>1</sup>		
<b>Land travel</b>						
<b>Australia</b>						
Fuel consumption – fleet vehicles (kL)	2,336	2,744	1,002	2,477	1,842	1,859
Total distance travelled (m km)	25.5	30.0	n/a	17.0	13.3	13.1
Fuel efficiency (kL/vehicle)	1.9	1.8	3.0	3.1	n/a	n/a
Taxis (m km)	3.1	3.2	0.6	2.2	n/a	n/a
CO <sub>2</sub> -e/vehicle (tonnes)	4.4	6.0	6.5	6.0	4.6	4.8
<b>New Zealand</b>						
Fuel consumption – fleet vehicles (kL)	557	558	582	703	n/a	n/a
Total distance travelled (m km)	7.8	7.0	7.0	7.0	n/a	n/a
Fuel efficiency (kL/vehicle)	1.8	2.3	2.3	2.6	n/a	n/a
Personal vehicles used for work (m km)	1.2	0.9	0.6	0.6	n/a	n/a
Hire cars (m km)	0.2	0.2	0.2	0.2	n/a	n/a
CO <sub>2</sub> -e/vehicle (tonnes)	4.8	5.7	5.7	6.1	n/a	n/a
<b>Pacific</b>						
Fuel consumption – fleet vehicles (kL) <sup>2</sup>	5,083	n/a	n/a	n/a	n/a	n/a
<b>Air travel</b>						
<b>Domestic</b>						
Australia (m km)	66.7	67.0	51.0	48.0	47.0	42.0
New Zealand <sup>3</sup>	8.2	6.9	5.0	6.0	n/a	n/a
United Kingdom (incl flights within Europe)	0.3	0.2	0.3	0.4	n/a	n/a
<b>Total domestic</b>	<b>75.2</b>	<b>74.1</b>	<b>56.3</b>	<b>54.4</b>	<b>47.0</b>	<b>42.0</b>
<b>International</b>						
Australia – Westpac	15.6	20.0	15.0	18.0	20.0	17.0
New Zealand <sup>3</sup>	4.0	3.8	3.0	5.0	n/a	n/a
United Kingdom	1.5	0.6	0.9	2.0	n/a	n/a
<b>Total international</b>	<b>21.1</b>	<b>24.4</b>	<b>18.9</b>	<b>25.0</b>	<b>20.0</b>	<b>17.0</b>

<sup>1</sup> Increased numbers due to a change in methodology to include private use of tool of trade vehicles, previously assumed to be 28% of consumption.

<sup>2</sup> Excludes Papua New Guinea.

<sup>3</sup> 2010 restated data.

## Performance ratios

	2011	2010	2009	2008	2007
<b>Australia<sup>1</sup></b>					
Tonnes CO <sub>2</sub> -e/employee (FTE)	6.0	5.4	5.7	4.7	4.8
CO <sub>2</sub> -e/m <sup>2</sup>	0.2	0.2	0.3	0.2	0.2
Paper (tonnes)/employee (FTE)	0.19	0.18	0.21	0.23	0.23
Copying paper (sheets/FTE)	9,288	8,320	10,529	8,700	8,900
<b>New Zealand<sup>2</sup></b>					
Tonnes CO <sub>2</sub> -e/employee (headcount)	1.1	1.0	1.1	2.2	n/a
CO <sub>2</sub> -e/m <sup>2</sup>	0.03	0.04	0.04	0.10	n/a
CO <sub>2</sub> -e/active customer <sup>3</sup>	0.004	0.004	0.005	0.012	n/a
Paper (tonnes)/employee (headcount)	0.15	0.11	0.09	0.21	n/a
Copying paper (sheets/employee)	9,456	8,456	8,420	8,244	n/a

<sup>1</sup>2011 Performance ratios including employee data calculated using FTE at 30 June 2011. Previous years calculated using FTE as at 30 September.

<sup>2</sup>2011 Performance ratios including employee data were calculated using FTE as at 30 June 2011. Previous years calculated using headcount as at 30 September.

<sup>3</sup>2011 Performance ratios including active customer data were calculated as at 30 June 2011. Previous years calculated as at 30 September.