

Environment Factpac

Greenhouse gas emissions and energy

Unless otherwise stated, all data reflects a July 1 – June 30 reporting year.

Westpac Group summary

	2014	2013	2012	2011	2010
Scope 1 and 2 emissions – banking operations¹					
Australia (tonnes CO ₂ -e)	170,445	175,194	177,731	179,100	184,131
New Zealand (tonnes CO ₂ -e) ^{3,4}	5,215	6,243	5,896	4,982	5,789
Pacific Banking (tonnes CO ₂ -e)	3,346	4,297	2,517	1,582	n/a
United Kingdom (tonnes CO ₂ -e) ²	481	393	472	618	573
Total Scope 1 and 2 emissions – banking operations		185,295	186,667	186,324	189,998
Scope 1 and 2 emissions – property trusts					
Scope 1 greenhouse gas emissions (tonnes CO ₂ -e)	-	-	-	120	276
Scope 2 greenhouse gas emissions (tonnes CO ₂ -e)	195	257	259	2,500	9,891
Total Scope 1 and 2 emissions – property trusts	195	257	259	2,620	10,167
Energy consumption – property trusts⁵					
Natural gas (GJ)	-	-	-	2,055	5,174
Diesel generator (GJ)	-	-	-	208	154
Electricity (GJ)	600	778	771	9,812	39,940
Total energy consumption – property trusts	600	778	771	12,075	45,268

¹ Group Banking Operations emissions, not including property trusts.

² 2014 data available from current premises for natural gas and electricity.

³ 2013 data restated due to finalised 2013 emission factors from NZ Ministry for the Environment for the reporting year.

⁴ 2012, 2011, 2010 restated due to methodology change to align with wider WBC approach, including replacement of RFI with greater circle distance (GCD) uplift for air travel and classifying rental vehicles as S3 rather than S1.

⁵ In 2009-10 the property trusts included 'Westpac Funds Management Ltd' and 'Westpac Funds Management Administration Ltd' which were sold in 2011.

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Detailed emission & energy profile – Group banking operations

(tonnes CO₂-e unless otherwise stated)

	Australia		NZ		Pacific Banking		United Kingdom	
	2014	2013	2014	2013	2014	2013	2014	2013
Scope 1 emissions								
Natural gas ¹	640	743	189	237	1,123	80	54	n/a
Fleet vehicles	4,655	4,987	1,646	1,603	732	740	n/a	n/a
Diesel generator	38	246	n/a	n/a	104	122	n/a	n/a
Refrigerant leakage ²	1,950	1,515	172	385	n/a	n/a	n/a	n/a
LPG (Stationary)	6	7	n/a	n/a	n/a	n/a	n/a	n/a
Total Scope 1 emissions	7,289	7,497	2,007	2,224	1,959	942	54	-
Scope 2 emissions								
Electricity ^{1,3}	163,156	167,696	3,208	4,019	1,387	3,355	427	393
Total Scope 2 emissions	163,156	167,696	3,208	4,019	1,387	3,355	427	393
Scope 3 emissions								
Base building emissions ⁴	21,225	26,524	n/a	n/a	n/a	n/a	n/a	n/a
Paper Consumption	5,636	10,822	640	714	n/a	n/a		n/a
Transmission losses ¹	31,423	31,031	366	373	n/a	n/a	n/a	n/a
Air travel ¹	9,537	9,058	1,312	1,663	n/a	n/a	324	242
Fleet ⁵	369	395	n/a	n/a		n/a	n/a	n/a
Waste to landfill ⁶	2,027	2,901	408	414	n/a	n/a	n/a	n/a
Rental cars and use of personal vehicles ⁵	98	83	118	245	n/a	n/a	n/a	n/a
Taxis ¹	579	620	92	121	n/a	n/a	n/a	n/a
Domestic hotels	n/a	n/a	41	77	n/a	n/a	n/a	n/a
Total Scope 3 Emissions	70,893	81,434	2,978	3,607	-	-	324	242
Energy consumption – Group banking operations								
Gas (GJ)	12,475	14,472	3,539	4,435	21,881	1,554	n/a	n/a
Fuel (GJ)	69,533	74,492	18,513	22,940	10,753	10,830	n/a	n/a
Diesel generator (GJ)	551	3,535	n/a	n/a	1,495	1,758	n/a	n/a
LPG (Stationary)	96	112	n/a	n/a	n/a	n/a	n/a	n/a
Electricity (GJ) ³	681,115	686,652	86,193	87,408	19,986	48,343	2,934	2,697
Greenpower (GJ)	n/a	226	n/a	n/a	n/a	n/a	n/a	n/a
Total energy consumption – Group banking operations	763,770	779,264	108,245	114,782	54,115	62,486	n/a	2,697

¹ NZ 2013 data restate due to finalised 2013 emission factors from NZ Ministry for the Environment for the reporting year.

² Boundary of refrigerants expanded in 2014 to include commercial and data centre units.

³ GreenPower is not included as a reduction to emissions.

⁴ Base building emissions are from commercial offices and data centres.

⁵ All emissions from WNZL fleet treated as S1. Restated as 2013 result included 209tCO₂e under fleet vehicles which has been recoded to rental and personal vehicles

⁶ Australia commercial and industrial waste emission factor used to calculate emissions from waste to landfill. Australian FY14 data includes all commercial offices, data centres, subsidiaries and our retail network. Australian FY12 data covered commercial offices only.

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Paper, waste and water

	2014	2013	2012	2011	2010
Paper consumption					
Australia (tonnes)	4,741	5,101	5,360	5,602	6,066
New Zealand (tonnes) ¹	593	661	669	660	589
Pacific Banking and United Kingdom (tonnes)	68	54	46	73	12
Total paper consumption	5,401	5,816	6,075	6,335	6,667
Percentage including FSC accredited content (%) ² – Australia	82	65	69	68	55
Percentage including recycled content (%) – Australia	18	10	11	9	8
Paper recycling					
Australia (tonnes)	2,303	2,640	2,339	2,706	2,492
New Zealand (tonnes)	666	586	710	737	563
United Kingdom (tonnes)	9	10	2	9	n/a
Total paper recycling	2,978	3,236	3,051	3,452	3,055
General recycling					
Printer cartridges – New Zealand (number) ⁵	7,598	9,081	9,947	9,524	10,988
Flourescent light tubes – Australia (kg)	4,250	2,987	4,380	2,330	1,010
PCs – Australia (number) ³	5,186	4,156	9,685	6,036	6,395
PCs – United Kingdom (tonnes)	14	n/a	n/a	137	n/a
Co-mingled – Australia (tonnes)	296	593	217	226	230
Waste – Westpac Australia sites⁴					
Diverted (tonnes)	2,917	2,333	1,688	1,524	853
Landfill (tonnes)	1,843	1,587	1,393	885	961
Total waste – Westpac Australia Corporate sites	4,760	3,920	3,080	2,409	1,814

¹ 2010 data is as at 30 September.

² All New Zealand copy paper is FSC certified. All UK copy paper is recycled paper.

³ PCs are recycled through Work Ventures (www.workventures.com.au).

⁴ Waste data for 2014 has been extrapolated across all commercial offices, retail sites, subsidiaries and data centres. Waste data in previous years was extrapolated across commercial offices only.

⁵ Printer cartridges purchased via Office Max during reporting year, excluding toner used on printers with "follow you print" functionality introduced in Q4.

Water usage

	2014		2013		2012		2011		2010	
	Total kL	kL/m2	Total kL	kL/m2	Total kL	kL/m2	Total kL	kL/m2	Total kL	kL/m2
Australia – non-retail	337,206	0.97	301,546	0.88	269,091	0.74	379,500	1.04	389,630	1.04
Australia – retail	229,016	0.56	244,378	0.58	204,416	0.48	272,300	0.66	249,856	0.61
United Kingdom	2,219	1.29	n/a	n/a	n/a	n/a	1,332	0.34	1,827	0.87
Pacific ¹	76,155	n/a	55,126	n/a	26,516	n/a	128,546	n/a	n/a	n/a

¹ 2014 Excludes the Cook Islands, Solomon Islands.

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Business travel

	2014	2013	2012	2011	2010
Land travel					
Australia					
Fuel consumption – fleet vehicles (kL)	2,031	2,176	2,337	2,336	2,744
Total distance travelled (m km)	22.4	34.1	25.9	25.5	30.0
Fuel efficiency (kL/vehicle)	2.1	1.6	2.1	1.9	1.8
Taxis (m km)	3.3	3.1	2.1	3.1	3.2
CO ₂ -e/vehicle (tonnes)	4.8	3.6	4.8	4.4	6.0
New Zealand					
Fuel consumption – fleet vehicles (kL)	610	597	564	557	558
Total distance travelled (m km) ¹	n/a	n/a	n/a	7.8	7.0
Fuel efficiency (kL/vehicle)	1.6	1.7	1.9	1.8	2.3
Personal vehicles used for work (m km)	0.4	0.9	1.1	1.2	0.9
Hire cars (m km)	0.1	0.2	0.2	0.2	0.2
CO ₂ -e/vehicle (tonnes)	4.3	4.5	4.9	4.8	5.7
Pacific					
Fuel consumption – fleet vehicles (kL) ²	218.0	299.0	226.5	156.8	n/a
Air travel					
Domestic					
Australia (m km)	50.6	52.6	46.2	66.7	67.0
New Zealand (m km)	5.3	7.2	7.8	8.2	6.9
United Kingdom (incl flights within Europe) (m km)	0.4	0.4	0.2	0.3	0.2
Total domestic	56.3	60.1	54.2	75.2	74.1
International					
Australia – Westpac (m km)	24.0	17.9	13.4	15.6	20.0
New Zealand (m km) ³	3.3	3.6	3.4	4.0	3.8
United Kingdom (m km)	1.8	1.2	0.9	1.5	0.6
Total international	29.1	22.7	17.7	21.1	24.4

¹ 2012, 2013 and 2014 data not available.

² Excludes Papua New Guinea.

³ 2010 restated data.

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Performance ratios

	2014	2013	2012	2011	2010
Australia¹					
Scope 1 and 2 emissions (tCO ₂ -e)/employee (FTE)	5.0	5.9	6.0	6.0	5.4
Scope 1 and 2 emissions (tCO ₂ -e)/m ²	0.2	0.2	0.2	0.2	0.2
Energy (GJ)/employee (FTE)	22.8	26.4	26.9	25.4	26.3
Energy (GJ)/m ²	1.0	1.0	1.0	1.0	1.1
Paper (tonnes)/employee (FTE)	0.16	0.17	0.18	0.19	0.18
Copying paper (sheets/FTE)	7,165	8,938	8,848	9,288	8,320
Power Usage Effectiveness (PUE)	1.7	1.7	1.8	n/a	n/a
PUE – Data Centre E	1.8	1.8	2.1	n/a	n/a
PUE – Data Centre R	1.7	1.8	1.9	n/a	n/a
PUE – Data Centre W	1.4	1.6	1.6	n/a	n/a
New Zealand^{2,4}					
Scope 1 and 2 emissions (tCO ₂ -e)/employee (FTE)	1.8	2.1	2.0	1.9	1.9
Scope 1 and 2 emissions (tCO ₂ -e)/m ²	0.04	0.05	0.05	0.04	0.04
Scope 1 and 2 emissions (tCO ₂ -e)/active customer ³	0.006	0.010	0.007	0.007	0.007
Reams of paper (tonnes)/employee (FTE)	0.13	0.14	0.14	0.15	0.11
Copying paper (sheets/FTE)	7,725	8,455	9,431	9,456	8,456

¹ 2011, 2012 and 2013 performance ratios including employee data calculated using FTE at 30 June 2011. Previous years calculated using FTE as at 30 September.

² 2011, 2012 and 2013 performance ratios including employee data were calculated using FTE as at 30 June. Previous years calculated using headcount as at 30 September.

³ 2011, 2012 and 2013 performance ratios including active customer data were calculated as at 30 June. Previous years calculated as at 30 September.

⁴ 2013 - 2010 data restate due to methodology change to align with wider WBC approach. Rental vehicles moved from Scope1 to Scope 3.