



PUBLIC REPORT TEMPLATE 2011

Part 1 - Corporation Details

Controlling Corporation

Australia and New Zealand Banking Group Ltd

From

1 July 2006

To

30 June 2011

Period to which this report relates

Table 1.1 - Major Changes to Corporate Group Structure or Operations

Table 1.1 – Major Changes to Corporate Group Structure or Operations

No major changes during the past year.

Table 1.2 – Aggregate energy assessed covered in this report

Total energy use covered by all assessments in this report	526,353	GJ
Total energy use of corporate group	659,370	GJ
Total energy assessed as percentage of total energy use of the corporate group	80	%
Total energy assessed as a percentage of total energy use in the base year	84	%

Declaration

Declaration of accuracy and compliance

The information included in this report has been reviewed and noted by the board of directors and is to the best of my knowledge, correct and in accordance with the *Energy Efficiency Opportunities Act 2006* and *Energy Efficiency Opportunities Regulations 2006*.


Alistair Currie
Group Chief Operating Officer, ANZ

Date 21/12/2011



Part 2 - Assessment Outcomes

Table 2.1 – Assessment Details

Name of group member or business unit or key activity

Commercial (includes critical sites, data centres and OnePath)

Total energy use in the last financial year

378,344

GJ

Energy use assessed in this entity as a percentage of total corporate energy use

54

%

Accuracy of above estimates related to energy use assessed - only required if not $\pm 5\%$ or better

%

Period over which assessment was undertaken

01/07/2007

30/06/2011

Description of the way in which the entity carried out its assessment

ANZ has conducted assessment of three commercial buildings in order to complete the formal process of assessment for commercial and critical sites.

ANZ Centre, the Bank's new global headquarters in Melbourne, was one of the buildings assessed. This building was rated 6-Star-Green-Star from the Green Building Council of Australia for 'Office Design' and is also registered for two additional Green Star categories - 'Office Interiors' and 'Office As-Built'. The ANZ Centre is constructed with a number of environmental features including the generation of renewable electricity from solar panels (140kW), six wind turbines (6kW each) and an on-site tri-generation plant (2.2MW), now ready for full commissioning.

The energy performance of the ANZ Centre is comprehensively monitored on a daily basis with more than 600 data points feeding information into a 'smart metering' platform. The assessment nevertheless identified additional savings opportunities associated with fine-tuning the operation of the large interior workspace. These initiatives are outlined in Table 2.3.

ANZ acquired the OnePath business (formerly INGAustralia) at the start of December 2009. Assessments were undertaken of the two largest sites in the portfolio which, when combined, account for more than 85% of OnePath's energy use. ANZ is the major tenant in both buildings and through the assessment process was able to identify a number of potential opportunities, which are currently under further investigation.



Table 2.1 – Assessment Details

Name of group member or business unit or key activity

Retail Sites

Total energy use in the last financial year

185,444

GJ

Energy use assessed in this entity as a percentage of total corporate energy use

25

%

Accuracy of above estimates related to energy use assessed - only required if not ±5% or better

%

Period over which assessment was undertaken

01/07/2007

30/06/2011

Description of the way in which the entity carried out its assessment

ANZ completed the representative assessment process in 2011 ensuring that a comprehensive selection of branches (24 - by size and climate zone) have been sub-metered and assessed for energy efficiency opportunities. The findings from the assessment are consistent with those of previous years. The major opportunity identified is limiting after-hours energy usage, including auto-shutdown of air-conditioning when the branches are not fully occupied.

This year (in parallel with the assessment process) ANZ undertook an energy efficiency retrofit pilot at 11 retail sites in Queensland which included the introduction of a security interlock for the control of air-conditioning and a full lighting replacement in these sites. The results of the assessment (outlined in section 2.3 as part of our opportunities review) will be used to inform the future approach to energy management in the branches.



Table 2.2 - Energy efficiency opportunities identified in the assessment

Commercial

Table 2.2 – Energy efficiency opportunities identified in the assessment									
Status of opportunities identified to an accuracy of better than or equal to ±30%		Total Number of opportunities	Estimated energy savings per annum by payback period (GJ)						Total estimated energy savings per annum (GJ)
			0 – < 2 years		2 – ≤4 years		> 4 years		
			No of Opps	GJ	No of Opps	GJ	No of Opps	GJ	
Business Response	Implemented	54	30	7,361	7	888	17	6,972	15,220
	Implementation Commenced	5	2	453	0	0	3	1,426	1,879
	Under Investigation	46	19	5,246	14	2,619	13	5,713	13,577
	Not to be Implemented	19	10	1,949	4	268	5	1,240	3,457
Outcomes of assessment	Total Identified	124	61	15,009	25	3,775	38	15,351	34,133

Retail

Table 2.2 – Energy efficiency opportunities identified in the assessment									
Status of opportunities identified to an accuracy of better than or equal to ±30%		Total Number of opportunities	Estimated energy savings per annum by payback period (GJ)						Total estimated energy savings per annum (GJ)
			0 – < 2 years		2 – ≤4 years		> 4 years		
			No of Opps	GJ	No of Opps	GJ	No of Opps	GJ	
Business Response	Implemented	8	3	132	2	12	3	22	166
	Under Investigation	172	84	795	39	745	49	312	1,852
	Not to be Implemented	27	6	27	0	0	21	155	182
Outcomes of assessment	Total Identified	207	93	954	41	757	73	489	2,200



Table 2.3 - Details of significant opportunities identified in the assessment

Examples of key initiatives evaluated through the EEO assessment process during 2011.

Description of Opportunity	Voluntary Information	
<p>Commercial Buildings – Operational Expenditure</p> <p>This year ANZ implemented operational initiatives for energy efficiency across the commercial portfolio. Having reviewed all available opportunities, economy cycle tuning and refinement of building controls scheduling were implemented at major commercial sites. In addition, site-specific works, such as hot water time controls and increased cleaning of induction units were undertaken. These initiatives are expected to achieve annual savings of over 1,400 tonnes.</p>	Business Response	Implemented
	Energy saved (GJ)	4,396
	Greenhouse gas abated (CO2-e)	1,464 tonnes
	\$s saved	148,980
	Payback period	2.82
<p>Description of Opportunity</p>	<p>Voluntary Information</p>	
<p>ANZ Centre (Lighting Optimisation)</p> <p>ANZ continues to review the use of lighting within the ANZ Centre and has implemented a number of initiatives to reduce lighting energy use in the building. A lux level management review resulted in approximately 8% total office tenancy energy savings and the refit of lift light fittings.</p> <p>38% of the energy saving of 849,000kWh achieved in 2011 (when compared to the first full year of site operation in 2010) is attributable to the lighting optimisation initiatives.</p>	Business Response	Implemented
	Energy saved (GJ)	1,149
	Greenhouse gas abated (CO2-e)	437 tonnes
	\$s saved	35,099
	Payback period	0.63
<p>Description of Opportunity</p>	<p>Voluntary Information</p>	
<p>Queensland Retail Energy Efficiency Retrofit Pilot</p> <p>This project involved undertaking a package of energy efficiency works at 11 branch sites, including:</p> <ul style="list-style-type: none"> • upgrade of existing lamps with new long-life lamps and the replacement of halogen dichroic down-lights with compact fluorescent lamps • installation of movement sensors in staff toilets and storage rooms to automate lighting • timers installed to control hot water systems and restrict use to business hours • connecting air-conditioning and non-essential light and power to the security system so that services are only enabled when branches are open and operational. <p>ANZ is now reviewing results to identify capital requirements for additional projects across the retail portfolio.</p>	Business Response	Implemented
	Energy saved (GJ)	604
	Greenhouse gas abated (CO2-e)	170 tonnes
	\$s saved	33,914
	Payback period	6.84