

Australian Government
Carbon Neutral Program
Public Disclosure Summary



THIS DOCUMENT WILL BE MADE PUBLICLY AVAILABLE

NAME OF CERTIFIED ENTITY: University of Tasmania

REPORTING PERIOD: 1 January 2017 – 31 December 2017

Declaration

To the best of my knowledge, the information provided in this Public Disclosure Summary is true and correct and meets the requirements of the National Carbon Offset Standard Carbon Neutral Program.

Signature 	Date 30/4/2018
Name of Signatory: Jacinta Young <i>(on behalf of) MIKE HUNNIBELL</i>	
Position of Signatory: Executive Director, Infrastructure Services and Development <i>A/ED ISD</i>	

Carbon neutral certification category	Organisation
Date of most recent external verification/audit	21/01/2016 (for 2015 reporting year)
Auditor	Gillian Hand-Smith (Auditor Registration Number: 0121/2011)
Auditor assurance statement link	



Australian Government
Department of the Environment and Energy

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1. Carbon neutral information

1A. Introduction

About Us

Founded in 1890, the University of Tasmania has a rich and proud history. We are the fourth oldest university in Australia and this vintage earns us the prestigious title of a sandstone university; one of the nation's oldest tertiary institutions.

Throughout our history we have been a stage for discoveries of global significance, a catalyst for social, economic and cultural development and – arguably most importantly – a place of life and learning for 90,000 alumni who have built their lives and careers in Tasmania and in 120 countries around the world. From Andrew Inglis Clark to Sir Guy Green, Enid Campbell, Richard Flanagan and Mary, Crown Princess of Denmark, we have always been distinguished by staff and students who strode along the sometimes rocky path of knowledge and discovery and then set out to make a better world.

Changing the world is not simple. It takes thought, time, persistence, and insight. But most of all, it takes something extraordinary. So at the University of Tasmania, we have made the pursuit of the extraordinary a never-ending commitment. It influences everything we do. The way we teach. The way we research. The way we learn. And the way we live.

We are also a prism through which Tasmania can look to the world and the world can look to Tasmania; a bridge from our island that connects people, geographies, cultures and ideas.

Our Carbon Neutral Commitment

Sustainable practices are embedded within the University of Tasmania's operations and through the commitment to reduce environmental impacts, achieve economic efficiency, demonstrate social responsibility and enhance student experience. The University also embeds sustainability as a focus in our research, teaching and learning and community engagement activities.

The University of Tasmania is committed to undertaking measures to reduce greenhouse gas emissions through infrastructure and service improvements, renewable energy infrastructure installation, support for behavioural changes in resource use, and identification of high quality carbon offset opportunities for emissions that cannot be reduced or eliminated.

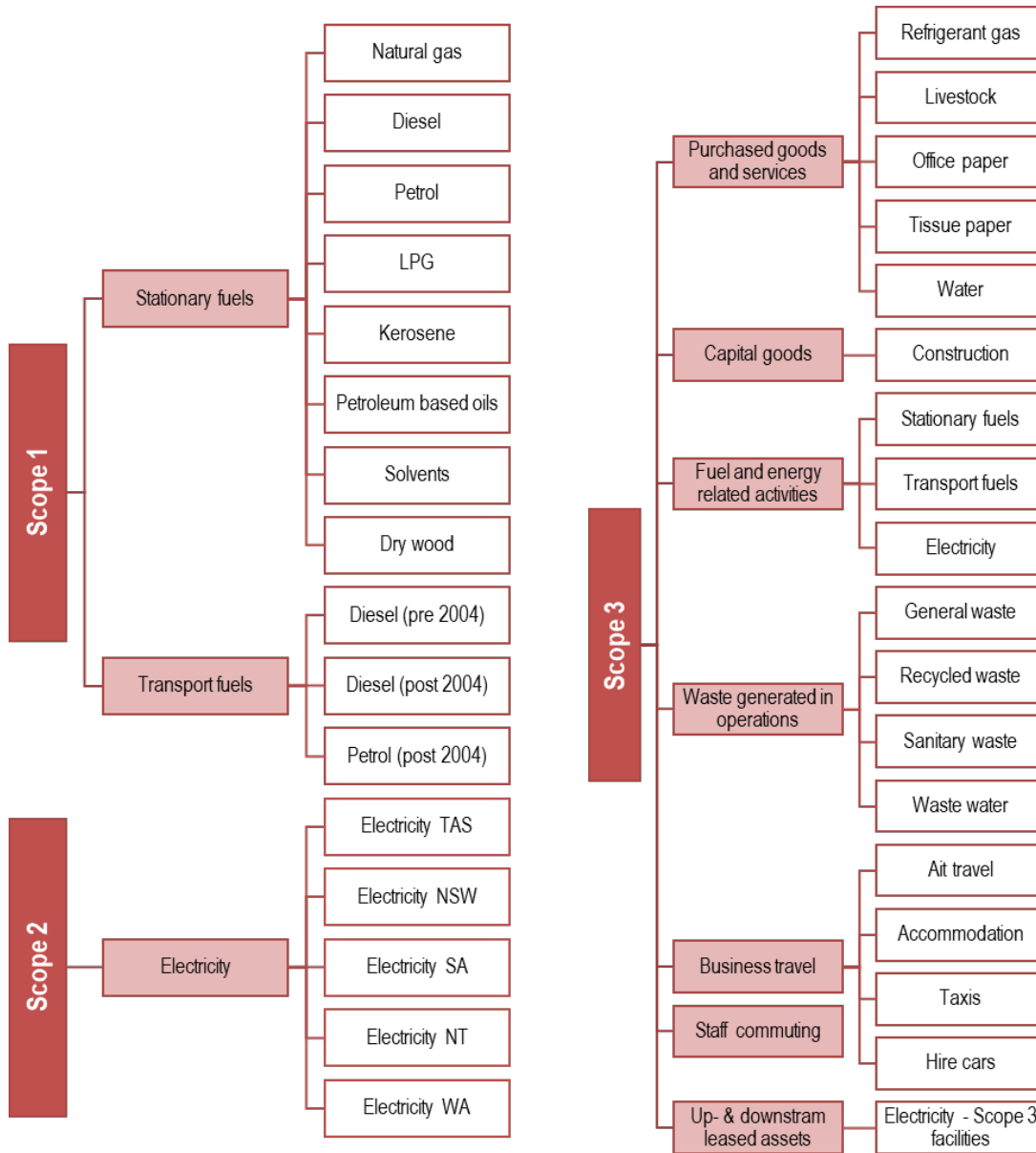
The University also recognises the responsibility that it holds within the Tasmanian community to lead in response to the realities of climate change as evidenced through our own global research efforts as well as reduce greenhouse gas emissions in line with local and State Government goals and community expectations.

1B. Emission sources within certification boundary

Quantified sources

The quantified emissions sources are set out in Figure 1. All emissions sources for which data was readily available were included in the University of Tasmania inventory.

Figure 1. Emissions sources included in the 2017 University of Tasmania Greenhouse Gas Inventory



Non-quantified sources

The following emission sources have not been quantified in accordance with the provisions in the National Carbon Offset Standard. The impact of not quantifying these sources is not expected to materially affect overall total emissions.

- Key contracts held with the cleaning and security services contractors have not being included in the inventory. All electricity, fuels and chemicals purchased by the University are included. Contract amounts are expected to be immaterial and have not being collected due to the difficulty imposed on the contract holder in providing this information.
- The emissions associated with work experience placements were estimated based on the Rural Health Teaching Clinics. At a total estimated emissions of 33 t CO₂-e per year, it is not expected

that work experience placements will be material to the total emissions of the University of Tasmania and thus additional data has not been collected. It is noted that hospitals in which the University of Tasmania has a permanent staff presence (Hobart and Launceston Clinical Schools) have been included as Scope 3 Facilities.

Excluded sources

- Emissions associated with any international operations have been excluded from this inventory.
- The University's investment portfolio includes managed products only. As the University of Tasmania does not currently have the ability to specify the components of these investments, these are outside of the operational control and Scope 3 boundary for the University of Tasmania.

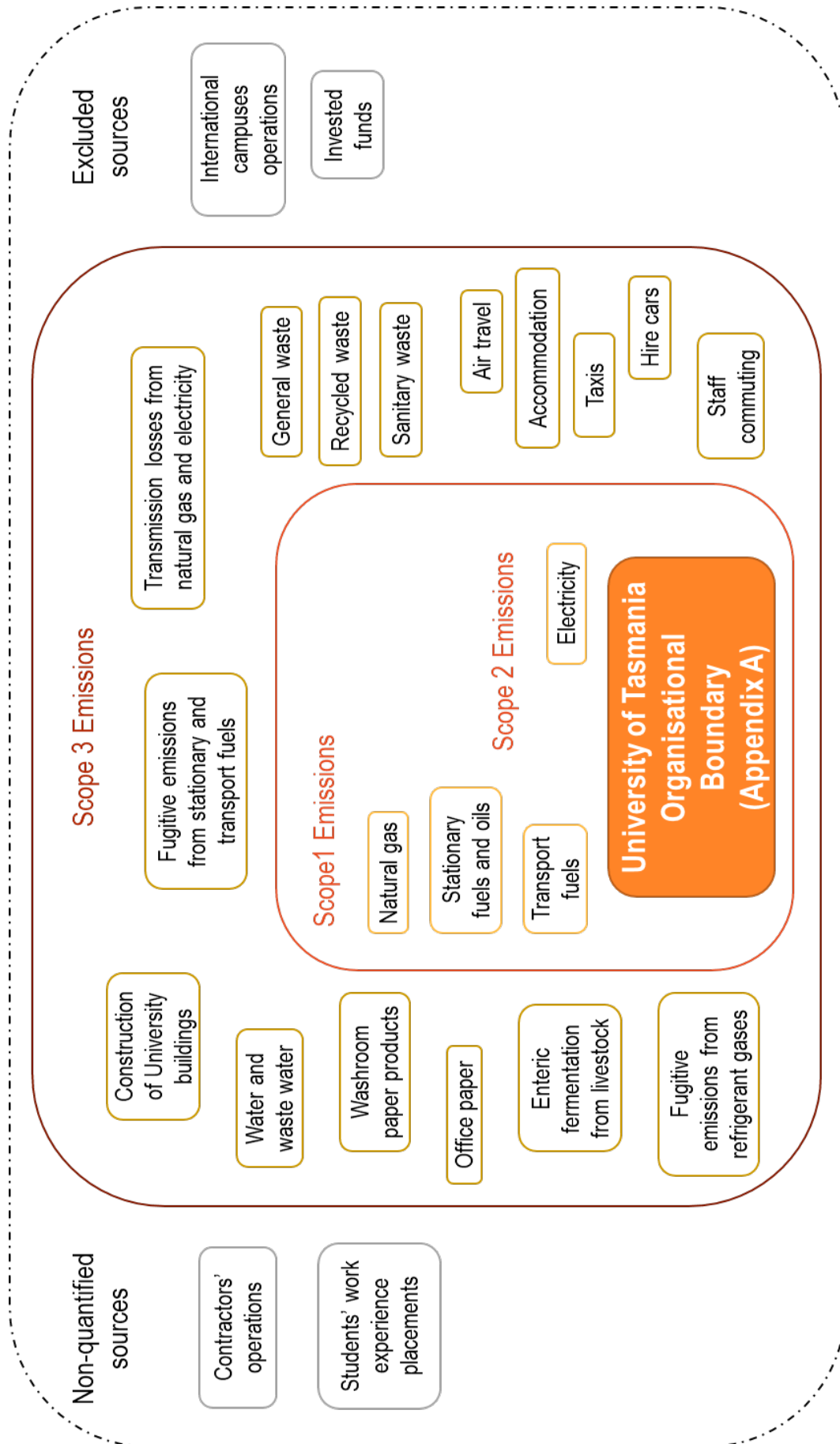
1C. Diagram of the certification boundary

A diagram of the organisational boundary for the University of Tasmania is included at Appendix A. The emissions sources included in the 2017 inventory are documented in Figure 1. Figure 2 represents the University of Tasmania greenhouse gas inventory boundary for the purpose of Carbon Neutral Certification.

The following facilities located on University of Tasmania campuses were determined to be outside the boundary of the University of Tasmania . The on-charged electricity and natural gas was deducted from the totals reported at each of the Newnham and Sandy Bay Campuses as appropriate. Waste data for collections from these facilities have also been excluded.

- CSIRO (Sandy Bay campus)
- AFRDI (Newnham campus)
- Lady Gowrie Child Care Centre and After School Care (Sandy Bay and Newnham campuses)
- Community Health Clinic (Sandy Bay campus)
- The following catering facilities: Lazenby's, Refectory, Trade Table, Law Café, University Staff Club, Source Wholefoods (Sandy Bay campus); Saludem (Medical Science Precinct); Centre for the Arts Cafeteria (Centre for the Arts); The Grove, The Walk (Newnham campus); Graze Café, Makers' Workshop Café (Cradle Coast campus)
- Tasmanian University Union leased facilities (Sandy Bay and Newnham campuses)
- Hair dressers (Sandy Bay and Newnham campuses)
- Doctor surgery (Sandy Bay campus)
- Travel agent (Newnham campus)

Figure 2. University of Tasmania greenhouse gas inventory boundary for the purpose of Carbon Neutral Certification



2. Emissions reduction measures

2A. Emissions over time

Table 1. Emissions since base year			
	Base Year: 2015	Year 1: 2016 *	Current Year: 2017
Scope 1	3,545	3,181	3,554
Scope 2	8,603	6,576	8,006
Scope 3	18,125	18,546	17,189
Total (t CO₂-e)	30,273	28,302	28,749
FTE students (Australian campuses)	18,834	20,090	20,834
Emissions (t CO ₂ -e) / FTE students	1.61	1.41	1.38

* NOTE: An error was identified in the calculation of greenhouse gas emissions from refrigerant gases in 2016. This error has been corrected, resulting in an increase of total emissions of 433 t CO₂-e for that reporting year. The University of Tasmania retired a surplus of 1,381 offsets in 2016 (on top of the amount required to be carbon neutral, based on the previously calculated total emissions for 2016), therefore this error did not affect the University's carbon neutrality.

Changes in scope 1 emissions are mainly due to an increase in the use of natural gas in the newly constructed Hobart Apartments in Hobart CBD, with 430 apartments.

Changes in scope 2 emissions are due to a large degree to the variation of the electricity emission factor for Tasmania. There has also been a slight increase in electricity use because of the Hobart Apartments starting operation in early 2017, and a general increase of student numbers. However, this increase in electricity consumption has been kept to a minimum by continued lighting upgrades to LED and other energy efficient technologies, and roll-out of lumen and motion sensors.

Changes in scope 3 emissions come mainly from: a reduction in refrigerant gases use due to a number of major repairs and equipment replacement conducted in 2017 (e.g., the repairs on the chillers at Menzies which held in excess of 100kg of refrigerant per unit); a decrease in emissions from construction (in part due to the completion of Hobart University Apartments); and a decrease in emissions from staff commuting as a result of the implementation of the University's Sustainable Transport Strategy.

2B. Emissions reduction strategy

Emissions reduction strategies for the University of Tasmania are accessible from the University Sustainability Portal. This is accessible through the link: <http://www.utas.edu.au/sustainability>.

Examples of emissions reduction strategies in place at the University of Tasmania include:

- Commitment through University policies and procedures to delivering Green Building Council of Australia Green Star design and as-built standards for both new builds and refurbishments, which deliver buildings and other facilities that minimise emissions from a variety of sources, including energy, transport, waste and water. These include renewable energy installations and energy efficiency improvements (e.g., replacement of equipment at its “end of life”).
- Sustainable Transport Strategy 2017-2021 that has as one of the four main objectives the reduction of greenhouse gas emissions from University transport activity.
- Student experience strategies that include annual energy use reduction challenges and campaigns, particularly for University accommodation residents.

2C. Emissions reduction actions

Emissions reduction initiatives adopted by the University of Tasmania for each emissions source are accessible from the University Sustainability Portal. This is accessible through the link:

<http://www.utas.edu.au/sustainability>.

Examples of emissions reduction initiatives undertaken at the University of Tasmania in 2017 include:

- Energy efficiency initiatives to address issues with old building stock and technologies. For example: changing older fluorescent and halogen lamps to LED lamps; upgrade of hydronic distribution system in Social Sciences, including pipe insulation.
- Re-use program expanded to all University facilities in Tasmania in 2017. This is an online system for the cataloguing and claiming of re-usable furniture. In 2017, the reuse program avoided the emission of 29 t CO₂-e, as reported by the software provider.
- Annual energy use reduction challenge and campaign in University-owned accommodation service facilities and other behavioural change campaigns to ensure that the ever changing student population is engaged with sustainability.
- Implementation of the Sustainable Transport Strategy 2017-2021. An analysis of available data showed that if staff commuting behaviour had not changed, we would have emitted 252 t CO₂-e more than reported in the GHG Inventory 2017 (based on the 2015 Travel Behaviour Survey).
 - New Hobart CBD student accommodation and office facilities:
 - Limiting provided parking to <30% of residents.
 - Providing >10% (14 of 133) designated parking spaces for GBCA-defined fuel efficient vehicles with 50% of these equipped with charging power points for electric cars.
 - Provide two designated carpool parking space allocated based on demand for permits. Carpool parking attracts a discount permit cost for all members of the registered carpool group.
 - Providing 28 parking spaces for motorcycle/scooters with two of these equipped with charging power points for electric powered versions.
 - Providing undercover secure bike parking for 195 bikes in a resident-only accessible secure areas with 20 of these provided with power points for charging electric bicycles. These spaces are sufficient to accommodate 43% of building residents. There are also 34 visitor bicycle parking spaces in three locations. The resident secure area also houses a bicycle repair station, with in-built tyre pump and attached common tools required to service a bicycle as well as a water bottle/drinking station.
 - Inbound and outbound Metro Tasmania bus stops on Elizabeth Street are on adjacent blocks within 100m of the development, including access to the high

frequency bus services to/from the University's Sandy Bay campus. A 400m walk to the main central bus interchange allows direct access to regular services to all areas of Greater Hobart as well as to other Tasmanian regions.

- Installation of a bus stop shelter at the Inveresk campus precinct.
- Continued provision of on-demand dedicated car pool parking spaces at Sandy Bay and Newnham campuses and continued support for sustainable transport activity days (e.g., Ride to Campus).
- Purchase of a high proportion of certified carbon neutral paper (83% of total office paper), avoiding the emission of 110 t CO₂-e.
- On-going PV generation avoided the emission of 17 t CO₂-e in 2017.

3. Emissions summary

Table 2. Emissions Summary		
Scope	Emission source	t CO ₂ -e
1 and 3	Natural gas	2,830
1 and 3	Stationary diesel	13
1 and 3	Stationary gasoline	9
1 and 3	Stationary liquified petroleum gas	25
1 and 3	Stationary kerosene (other than for use in an aircraft)	11
1 and 3	Stationary petroleum based oils	1
1 and 3	Stationary solvents	0
1 and 3	Transport (pre 2004) diesel	235
1 and 3	Transport (post 2004) diesel	319
1 and 3	Transport (post 2004) gasoline	548
2 and 3	Electricity - TAS	7,963
2 and 3	Electricity - NSW and ACT	2,444
2 and 3	Electricity - SA	37
2 and 3	Electricity - NT	30
2 and 3	Electricity - WA	15
3	Refrigerant gas	314
3	Livestock - cattle	1,188
3	General waste	2,036
3	Recycled waste	5
3	Sanitary waste	145
3	Water	46
3	Wastewater	245
3	Construction	1,710

Table 2. Emissions Summary		
Scope	Emission source	t CO ₂ -e
3	Office paper	23
3	Tissue paper	132
3	Airtravel: short haul	130
3	Airtravel: medium haul	1,195
3	Airtravel: long haul	2,385
3	Accommodation	498
3	Taxis	54
3	Staff commuting	4,163
Total Gross Emissions		28,749
GreenPower or retired LGCs		0
Total Net Emissions		28,749

4. Carbon offsets

4A. Offsets summary

Table 3. Offsets Summary			
Offset type and registry	Year retired	Quantity	Serial numbers
Dongtai Phase II Wind Power Project VCS APX Registry	2018	3,000	3772-164677322-164680321-VCU-034-APX-CN-1-1356-01012012-31032012-0
		2,150	3772-164683322-164685471-VCU-034-APX-CN-1-1356-01012012-31032012-0
		3,000	3772-164680322-164683321-VCU-034-APX-CN-1-1356-01012012-31032012-0
The Kasigau Corridor REDD Project - Phase I The Community Ranches VCS	2018	1,000	3744-164221812-164222811-VCU-016-MER-KE-14-562-01012012-31122012-1
		1,000	5681-254915041-254916040-VCU-016-MER-KE-14-562-01012012-31122012-1
Isangi REDD+ Project VCS APX Registry	2018	2,000	5742-257457379-257459378-VCU-007-MER-CD-14-1359-01012013-31122013-1
Protection of Tasmanian Native Forest Project 3 VCS APX Registry	2018	100	2657-116691538-116691637-VCU-016-MER-AU-14-587-01032011-29022012-0
		5,900	3229-145762663-145768562-VCU-016-MER-AU-14-587-01032012-28022013-0
Rimba Raya Biodiversity Reserve Project VCS APX Registry	2018	3,900	5270-219198977-219202876-VCU-016-MER-ID-14-674-01072013-31122013-1
Rice Husk Based Thermal Energy Generation Project at Thot Not VCS APX Registry	2018	2,700	3983-170780873-170783572-VCU-008-APX-VN-1-908-01032013-28022014-0

Biomass/Biogas based heat and power generation at Everest Starch VCS APX Registry	2018	4,000	5727-256941659-256945658-VCU-030-APX-IN-1-1535-01012017-31122017-0
Total offset units retired			28,750
Net emissions after offsetting			0
Total offsets banked for use future years: (if any)			
Rimba Raya Biodiversity Reserve Project, VCS, APX Registry 4793-197276108-197278107-VCU-016-MER-ID-14-674-01012013-30062013-1			948
Dongtai Phase II Wind Power Project, VCS, APX Registry 3772-164683322-164685471-VCU-034-APX-CN-1-1356-01012012-31032012-0			1

4B. Offsets purchasing and retirement strategy

Offset Purchase

The University of Tasmania takes a portfolio approach to carbon offsets acquiring both targeted international and domestic verified carbon offsets. Domestic offsets focus on Tasmanian-based offsets in the first instance.

Strategic Objectives for Carbon Offset Purchases:

1. Where possible, provide opportunities to achieve the University's strategic objectives in teaching, learning and research;
2. Deliver benefits to the Tasmanian community;
3. Deliver benefits to the communities in regions where the University of Tasmania provides education and research services as well as regions from which our international students originate;
4. Achieve best value for money whilst achieving the nominated strategic objectives; and
5. Achieve co-benefits aligning with the University of Tasmania's values

Retirement Strategy

The University of Tasmania purchases and retires offsets in arrears of the reporting period, once its annual inventory has been established and total quantity of offsets known.

4C. Offset projects (Co-benefits)

Offset type and registry	%	Co-benefits
Dongtai Phase II Wind Power Project VCS APX Registry	28	Reduced local air-pollution, diversification of local economy, increased local employment, increased awareness and uptake of renewable energy opportunities, capacity building utilising advanced low-emissions technologies, increased awareness of environmental issues and options for addressing these
The Kasigau Corridor REDD Project - Phase I The Community Ranches VCS	7	Avoids loss of biodiversity through reducing deforestation, diversification of revenue opportunities for local people, creates jobs including through directly employing 80 local rangers, protects local native food sources (hunting) and protects traditional cultural practices

Offset type and registry	%	Co-benefits
Isangi REDD+ Project VCS APX Registry	7	Avoids biodiversity loss through reducing deforestation, provides sustainable revenue source for communities from valuing and retaining natural forests, protects local food sources, protects traditional practices, reduces sedimentation of water-ways
Protection of Tasmanian Native Forest Project 3 VCS APX Registry	21	Protection of native forest, retention and enhancement of biodiversity and habitat values, reduced risk of soil erosion and water-way siltation, increased diversification of land use and promotion of improved forest management practices
Rimba Raya Biodiversity Reserve Project VCS APX Registry	14	Avoids biodiversity loss through reducing deforestation, provides communities a sustainable revenue source from retaining natural forests, protects local food sources, protects traditional cultural practices, reduces sedimentation of water-ways, improved agriculture and food production without impacting forests
Rice Husk Based Thermal Energy Generation Project at Thot Not VCS APX Registry	9	Utilises waste that would otherwise be dumped, diversification of local economy, increased local employment, increased awareness and uptake of renewable energy opportunities, increased awareness of environmental issues and options for addressing these
Biomass/Biogas based heat and power generation at Everest Starch VCS APX Registry	14	

5. Use of trade mark

Table 4. Trade mark register	
Where used	Logo type
University of Tasmania website (inclusive of UTAS Sustainability website sections)	Certified organisation
Presentations on UTAS' journey to carbon neutrality	Certified organisation
Social media	Certified organisation
Limited time on general staff electronic signatures and ongoing for sustainability staff electronic signatures	Certified organisation

6. Have you done more?

The University of Tasmania actively considers approaches to improving environmental outcomes across the full breath of its activities, including:

- Founding member of the continuing *Education for Sustainability Tasmania: a UN-recognised Regional Centre of Expertise*
- Participation in the *UI GreenMetric* international ranking of universities on environmental performance (ranking 57 of 619 participating institutions in 2017)
- Requiring our financial managers and organisations to be signatories or similar commitment to the *United Nations Principles for Responsible Investment (UNPRI)*

Our achievements are accessible through our operational sustainability website:

<http://www.utas.edu.au/commercial-services-development/sustainability>.

APPENDIX A: UNIVERSITY OF TASMANIA AUSTRALIAN FACILITIES

