

Australian Government

Carbon Neutral Program

Public Disclosure Summary



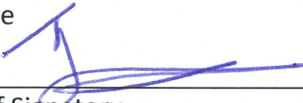
An Australian Government Initiative

COMPANY NAME: University of Tasmania

REPORTING PERIOD: 1 January to 31 December 2016

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 25/12/17
Name of Signatory Jacinta Young	
Position of Signatory EXECUTIVE DIRECTOR, INFRASTRUCTURE SERVICES & DEVELOPMENT	

Carbon neutral certification category	Organisation
Date of most recent external verification/audit	21/01/2017 (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're 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've 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've 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've 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're 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 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.

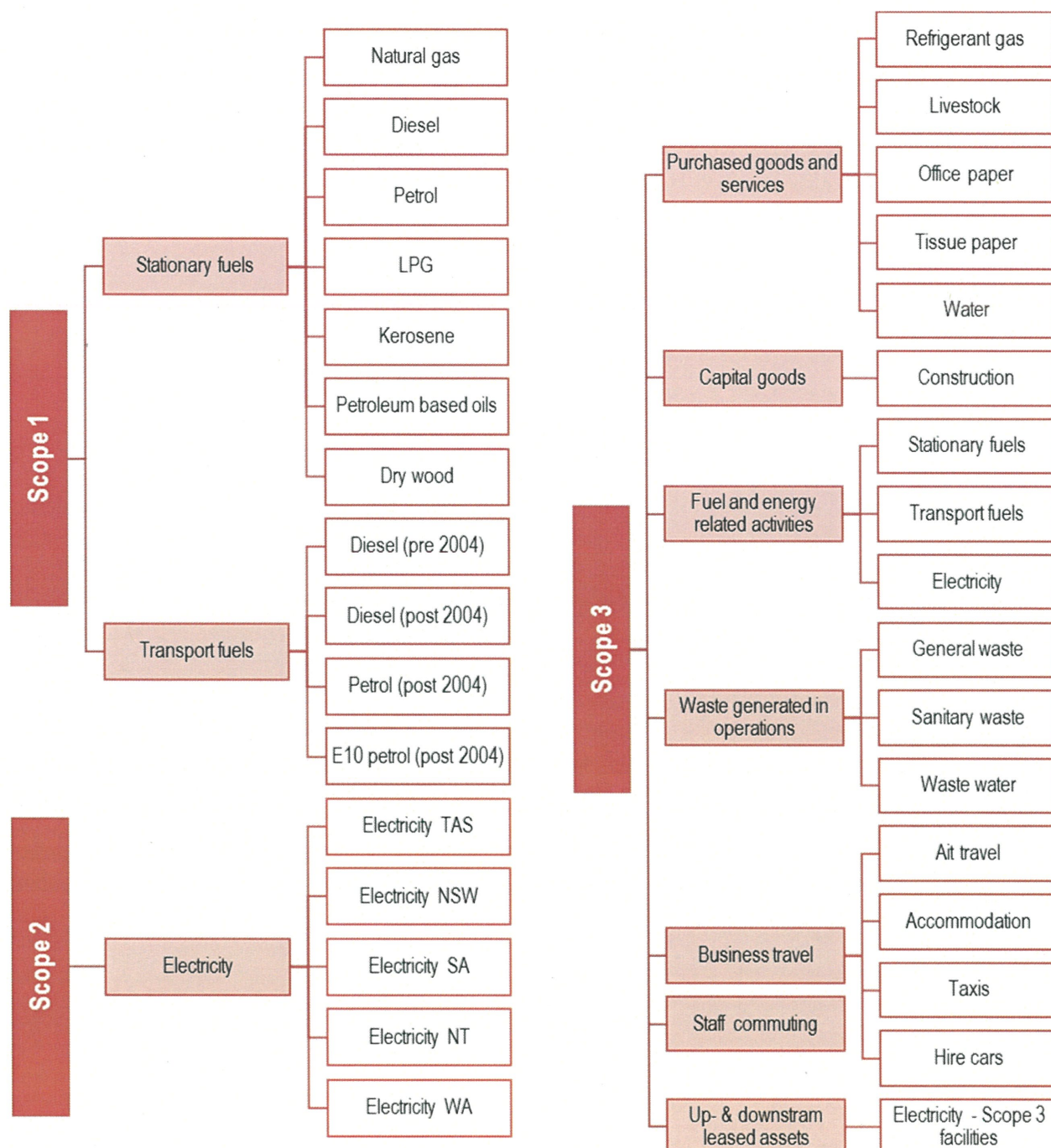
The University also recognises the responsibility that it holds within the Tasmanian community to lead in response to the realities of climate change as evidenced through our own global research efforts as well as reduce greenhouse gas emissions in line with local and State Government goals and community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

Figure 1: Emissions sources included in the 2016 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 been 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 been 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 tCO₂-e, 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.

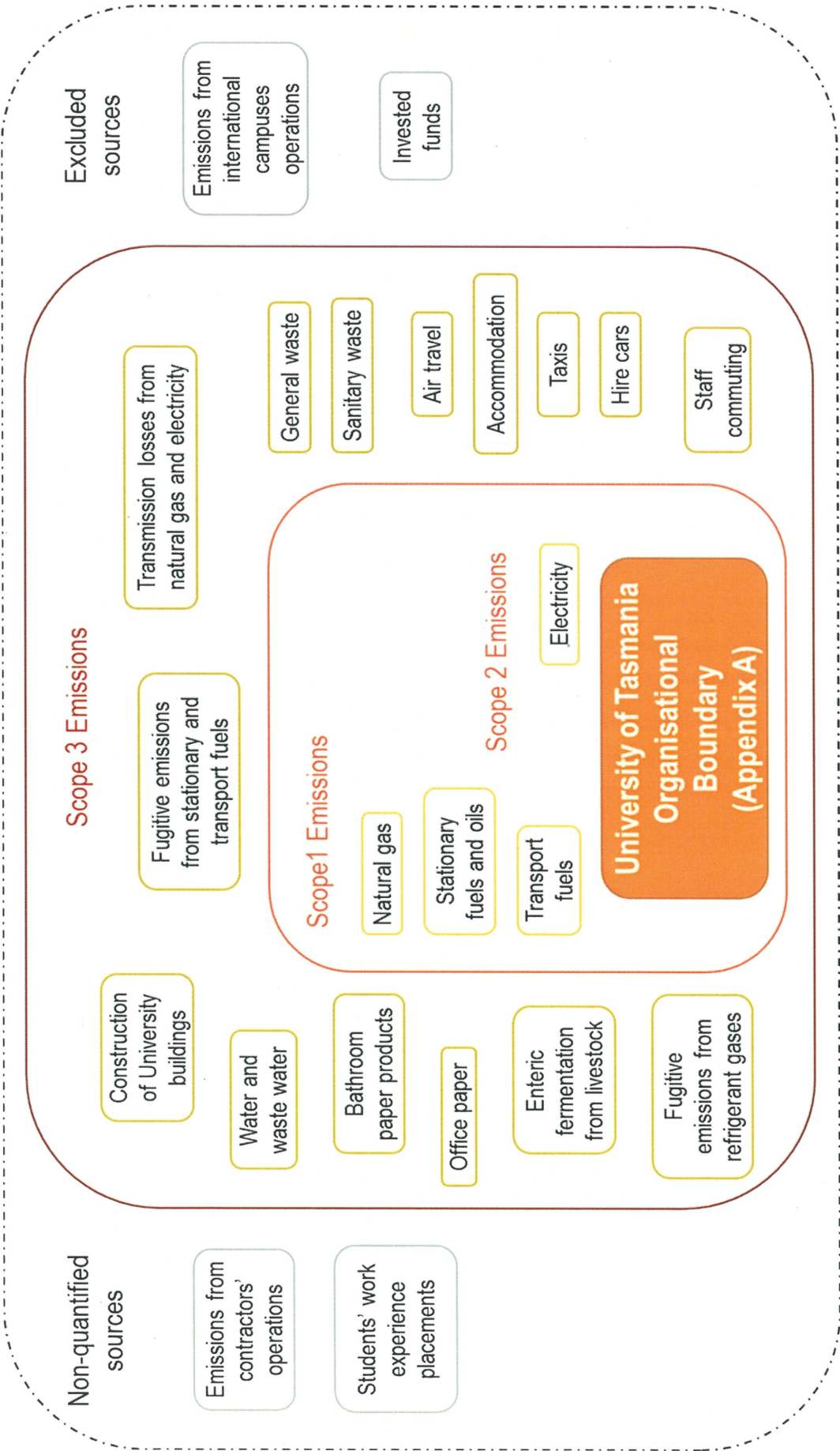
1C. Diagram of the certification boundary

A diagram of the organisational boundary for the University of Tasmania is included at Appendix A. The emissions sources included in the 2016 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	Current year: 2016
Scope 1	3,545	3,181
Scope 2	8,603	6,576
Scope 3	18,125	18,112
Total (t CO ₂ -e)	30,273	27,869

Changes in scope 1 emissions are mainly due to a decrease in the use of natural gas as a consequence of the replacement of large old boilers with small, modern, more efficient boilers in a number of buildings at the Sandy Bay campus.

Changes in scope 2 emissions are due to a large degree to a reduction in the electricity emission factor for Tasmania. Electricity use has been kept relatively steady in spite of a growing student base and building footprints. This was accomplished 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 (in part due to a major leak in 2015); decrease in business travel, specifically related to air travel; and lower emissions from staff commuting, partly because of the lower number of staff, but also in relation to uptake of sustainable transport options through University of Tasmania Sustainable Transport Strategy initiatives.

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:

- Sustainable Transport Strategy 2012- 2016 that has as one of the three 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.
- 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.

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 2016 include:

- Energy efficiency initiatives to address issues with old building stock and technologies, including changing older fluorescent & halogen lamps to LED lamps.
- Replacement of large old boilers with small, modern, more efficient boilers in a number of buildings at the Sandy Bay campus.
- Re-use program stage 1 implementation. In October 2016, the University implemented an online system for the cataloguing and claiming of re-usable furniture across southern Tasmanian campuses/facilities with stage 2 implementation planning completed for 2017 expansion to all University Tasmanian facilities.
- 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 2012-2016 including delivering bike hubs at Newnham and Inveresk campuses comprising >50 parking rails, tripling the size of the main bus stop shelter at the Sandy Bay campus in response to demand, twelve additional dedicated motorcycle/scooter parking spaces across three campuses, 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).

3. Emissions summary

Table 2. Emissions Summary

Scope	Emission source	t CO ₂ -e
1 and 3	Natural Gas	2,437
1 and 3	Stationary Diesel	80
1 and 3	Stationary Gasoline	15
1 and 3	Stationary Liquified Petroleum Gas	28
1 and 3	Stationary Kerosene (other than for use in an aircraft)	20
1 and 3	Stationary Petroleum Based Oils	1
1 and 3	Transport (Pre 2004) Diesel	257
1 and 3	Transport (Post 2004) Diesel	261
1 and 3	Transport (Post 2004) Gasoline	463
2 and 3	Electricity - TAS	6,143
2 and 3	Electricity - NSW and ACT	2,074
2 and 3	Electricity - SA	49

Table 2. Emissions Summary		
Scope	Emission source	t CO ₂ -e
2 and 3	Electricity - NT	29
2 and 3	Electricity - WA	17
3	Refrigerant Gas	169
3	Livestock - Cattle	1,238
3	General Waste	1,626
3	Sanitary waste	117
3	Water	39
3	Wastewater	185
3	Construction	2,423
3	Office Paper	51
3	Tissue Paper	291
3	Airtravel: Short Haul	52
3	Airtravel: Medium Haul	1,254
3	Airtravel: Long Haul	2,518
3	Accommodation	393
3	Taxis	60
3	Hire cars	160
3	Staff Commuting	5,417
Total Gross Emissions		27,869
GreenPower or retired LGCs		0
Total Net Emissions		27,869

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	2017	3,000	3772-164673522-164676521-VCU034-APX-CN-1-1356-0101201231032012-0
The Kasigau Corridor REDD Project - Phase II The Community Ranches	2017	3,000	4511-188563182-188566181-VCU006-MER-KE-14-612-0101201331122014-1

VCS			
Isangi REDD+ Project VCS APX Registry	2017	1667 333	3902-167870815-167872481-VCU007-MER-CD-14-1359-0101201331122013-1 3902-167834125-167834457-VCU007-MER-CD-14-1359-0101201331122013-1
Protection of Tasmanian Native Forest Project 3 VCS APX Registry	2017	6,500	3229-145744113-145750612-VCU016-MER-AU-14-587-0103201228022013-0
Rimba Raya Biodiversity Reserve Project VCS APX Registry	2017	3,619	4793-197273108-197276107-VCU-016-MER-ID-14-674-01012013-30062013-1
Rice Husk Based Thermal Energy Generation Project at Thot Not VCS APX Registry	2017	2,750	3984-170793055-170795804-VCU008-APX-VN-1-908-0103201430062014-0
Biomass/Biogas based heat and power generation at Everest Starch VCS APX Registry	2017	3,000	5154-214436580-214439579-VCU030-APX-IN-1-1535-2805201431122014-0
Jilin Liaoyuan 50MW Level Biomass Co generation Project VCS APX Registry	2017	4,000	4081-174109432-174113431-VCU-041-APX-CN-1-1126-25122009-08032010-0
Total offset units retired			27,869
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			1,381

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	10	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 II The Community Ranches VCS	10	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
Isangi REDD+ Project VCS APX Registry	7	Avoids loss of biodiversity through reducing deforestation, provides sustainable revenue source for communities from valuing and retaining natural forest assets, protects local native food sources (fishing/hunting), protects traditional practices, reduces sedimentation of water-ways
Protection of Tasmanian Native Forest Project 3 VCS APX Registry	22	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	17	Avoids loss of biodiversity through reducing deforestation, provides communities a sustainable revenue source from valuing and retaining natural forest assets, protects local native food sources (fishing and hunting), 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	10	
Jilin Liaoyuan 50MW Level Biomass Cogeneration Project 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
Carbon neutral flyer prepared by UTAS	Certified organisation
Presentations on UTAS' journey to carbon neutrality	Certified organisation
Any Facebook/social media?	Certified organisation

Limited time on general staff electronic signatures and ongoing for sustainability staff electronic signatures	Certified organisation
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6. Have you done more?

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

- Founding member of *Education for Sustainability Tasmania: a UN-recognised Regional Centre of Expertise*
- Participation in the *UI GreenMetric* international ranking of universities on environmental performance (ranking 42 of 513 participating institutions in 2016)
- Signing on 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>.

