

WHY ADDRESS SUSTAINABILITY?

- Emerging issues
 - **Climate Emergency/Crisis**
 - Human Slavery / Supply Chains
 - Biodiversity Loss
- Stakeholder expectations
- Reputation / Attractiveness
- Cost imperatives
- Long-term viability

- Students
- Academics
- Professional staff
- Management
- Government
- Partners
- External community

UK SURVEY*

- 9 years
- 50,000 students
- **80% expect universities to act on sustainability**

UTAS SURVEY

- 2 surveys
- 3,700 students
- **86% expect carbon neutral certification**
- **80% support fossil fuel divestment**

CONFERENCE ATTENDEE AIR TRAVEL CARBON EMISSIONS

If all registered attendees flew direct from their capital city in

- **Economy** = 1,513 tCO₂-e
- **Business** = 3,430 tCO₂-e

*conservative estimates as connecting flights fuel intensive...

In context:

- **My university** of >35,000 enrolled students, ~5,000 staff with intensive research programs and requiring flights for almost all out of state travel had **total certifiable emissions of ~35,000 tCO₂-e in 2018.**
- Meaning this **one conference** (and only counting air travel emissions) is **~5-10% of the emissions to run a medium size university for a year.**
- Ground transport and accommodation would increase this by half again on average.

Not a guilt trip – rather to encourage you to get the most out of your attendance given the investment the planet is putting into it!

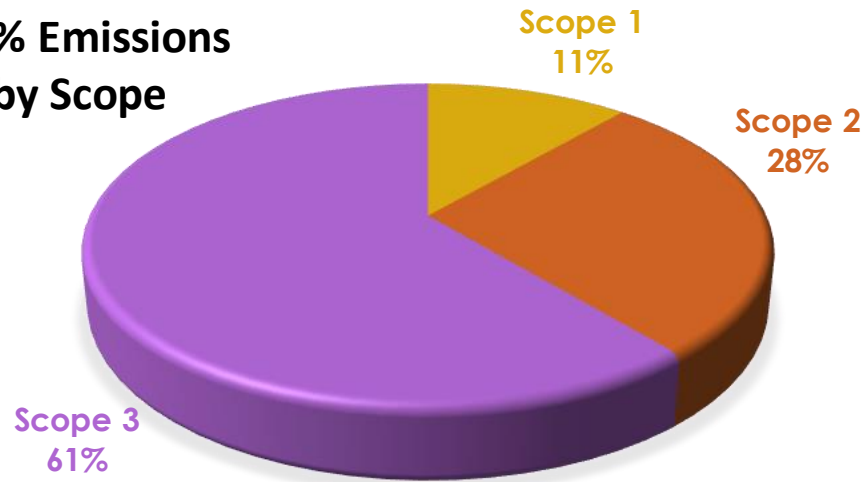


POLLING QUESTION 4

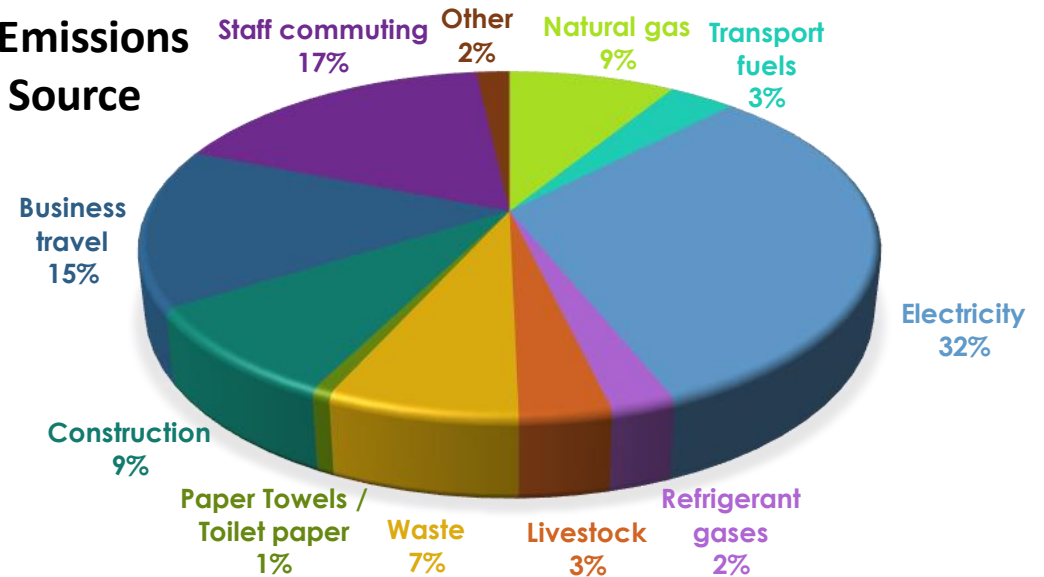
- WHAT ARE YOUR INSTITUTIONAL CARBON REDUCTION TARGETS BY 2030 TO 2050?
 - LESS THAN 50%,
 - MORE THAN 50%
 - NET ZERO
 - CARBON POSITIVE
 - DON'T KNOW/UNSURE

INSIGHTS FROM MANAGING FOR 'CARBON'

% Emissions
by Scope



% Emissions
by Source



- CARBON NEUTRAL CERTIFICATION REQUIRES CONSIDERATION OF **ALL 3 SCOPES...**

- FOCUS EFFORTS ON:
 - PHASING OUT NATURAL GAS
 - REDUCING ELECTRICITY USE
 - REDUCING WASTE GENERATION
 - AVOIDING REFRIGERANT GAS LEAKS
 - ENCOURAGING SUSTAINABLE TRAVEL

CARBON OFFSET – STRATEGIC APPROACH

- Highest quality
- Half of value of offsets domestic, preferably Tasmanian
- International offsets target both carbon reduction and certified biodiversity conservation projects
- Offset projects in countries and regions where our international students originate or are target markets



CASE STUDIES – CARBON FOCUS



- **Charles Sturt University and University of Tasmania** (Australia) – only certified carbon neutral Australian universities
- **Dhurakij Pundit University** (Thailand) – energy use and fertiliser reduction, on-site renewable energy sources
- **Ulster University** (Northern Ireland) - 2 wind turbines (3GWh) and 8 PV arrays (100MWh) meet 17% of energy needs
- **Universitas Indonesia** – focus on energy use reduction, smart buildings, solar power, fuel cells and wind power
- **Université Laval** (Canada) – Montmorency Forest is world's largest teaching/research forest & absorbs 13,945 tCO₂-e per year.
- **University of Edinburgh** (Scotland) - focusing on air travel of university staff among many other things!
- **University of Manchester** (England) - zero carbon by 2038 science-based targets consistent with Paris Agreement
- **University of Newcastle** (Australia – heart of coal country!) – 100% renewable by 2020, carbon neutral certified by 2025
- **University of Otago** (New Zealand) – 20% drop in emissions in 5 months by transitioning from coal to wood (biomass)

AUSTRALASIAN CAMPUSES TOWARDS SUSTAINABILITY (ACTS)



- The sectoral body for all things sustainability in the Australasian region
- Green Gown Awards Australasia – 8 categories in 2019
 - **2030 Climate Action**
 - Benefitting Society
 - Creating Impact
 - Learning, Teaching and Skills
 - Student Engagement
 - Continuous Improvement/Institutional Change
 - ACTS Awards of Excellence – staff and student
- **Annual Conference** (hosted at University of Tasmania in 2020)
- **STARS** – assessment and reporting tool
- **Green Impact** – engagement tool
- Online resources, webinars
- Strategic partnerships with **EAUC, AASHE, ISSP** and others



STUDENT AND STAFF ENGAGEMENT PROGRAMS

- Personal and professional **choices have great impact** – including travel, purchasing and waste handling
- **Green Impact**
 - online toolkit with individual and group actions
 - rewards and recognition to drive behaviour change
 - Available for subscription from ACTS in Indo-Pacific region
- **Work Integrated Learning** opportunities (internal)
 - Example: UTAS Sustainability Integration Programs for Students (SIPS)

