

The background of the slide is a collage of three images. On the left, a vertical image shows a perforated metal screen with a grid of small holes, set against a light sky. On the right, a vertical image shows a close-up of industrial metal pipes and valves. At the bottom, a horizontal image shows a dense forest of tall, thin trees.

University
of Dundee

Sustainability, Net Zero & Carbon Emissions

Rose Jenkins – Director of Estates & Campus Services

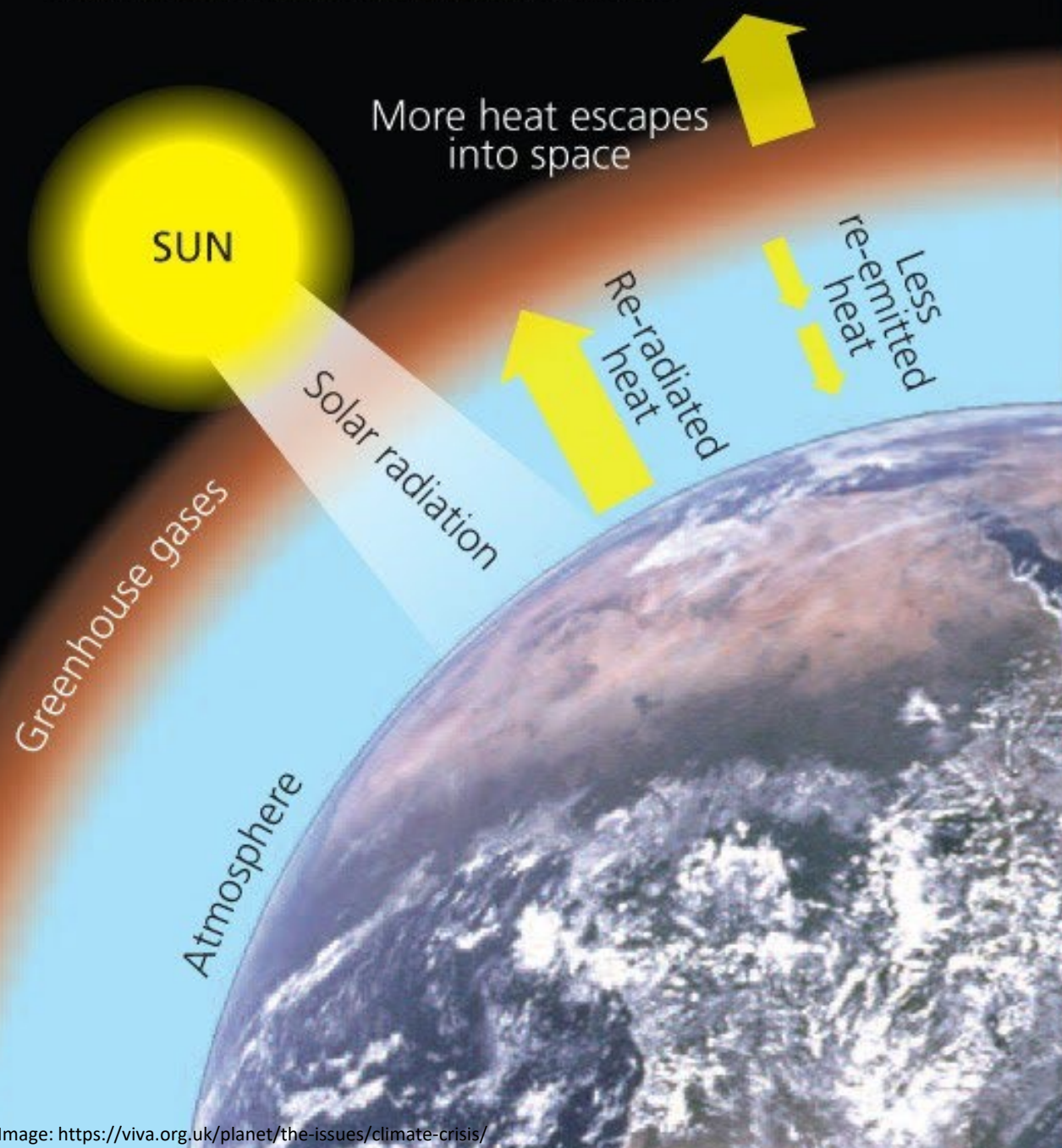


Net Zero Targets

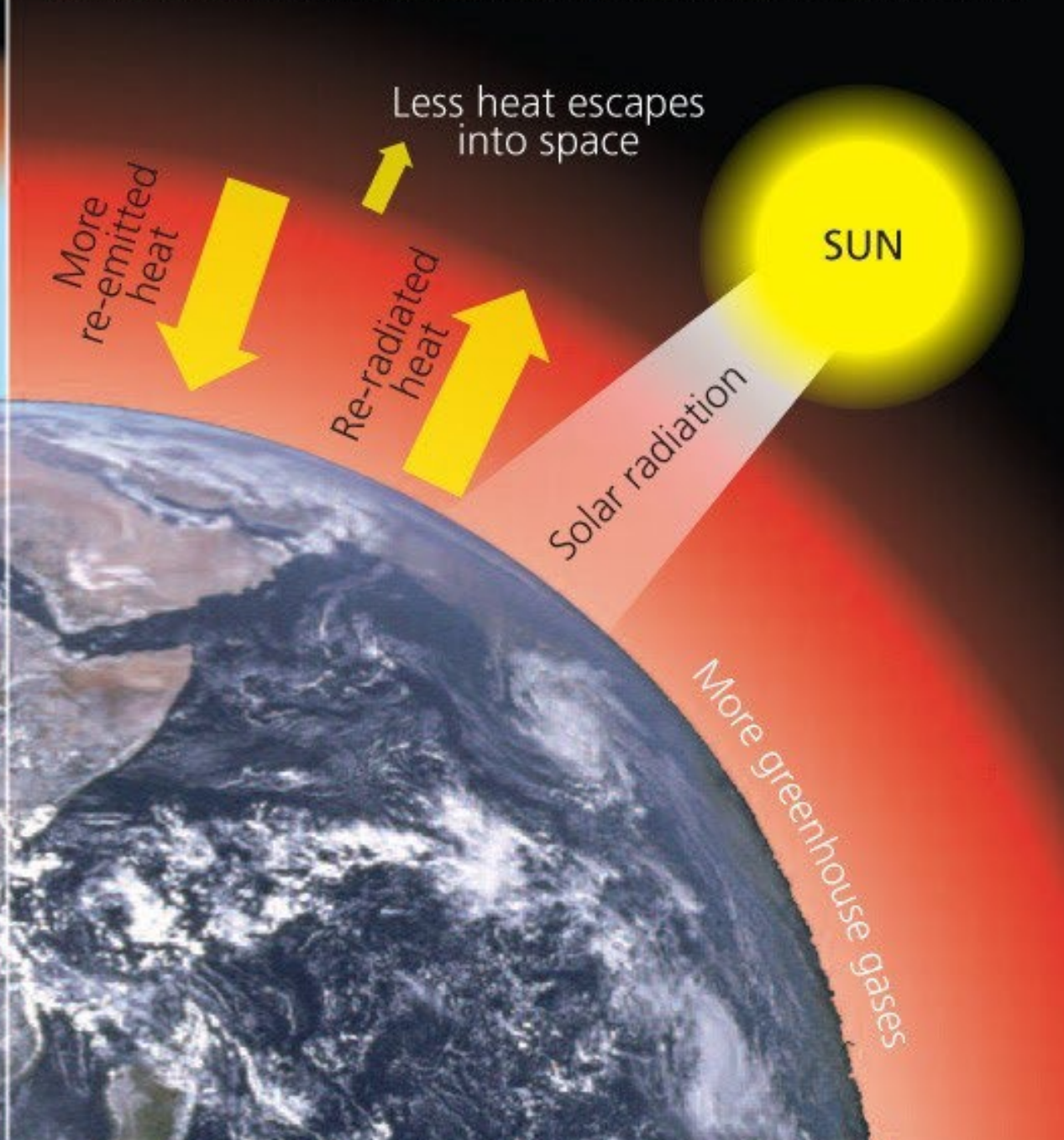


What exactly is Net Zero.....?

NATURAL GREENHOUSE EFFECT




HUMAN ACTIVITY-INDUCED GREENHOUSE EFFECT

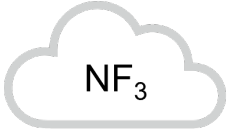
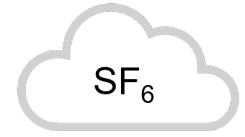
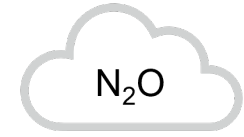
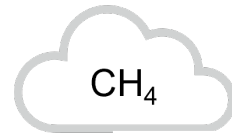
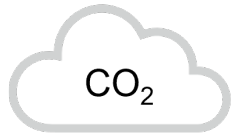






An illustration of a man with a beard and long hair taking a bubble bath in a white bathtub. The bathtub is filled with white foam. In the background, there are two lit candles, a glass with brushes, and a showerhead. The scene is set against a background of vertical grey lines.

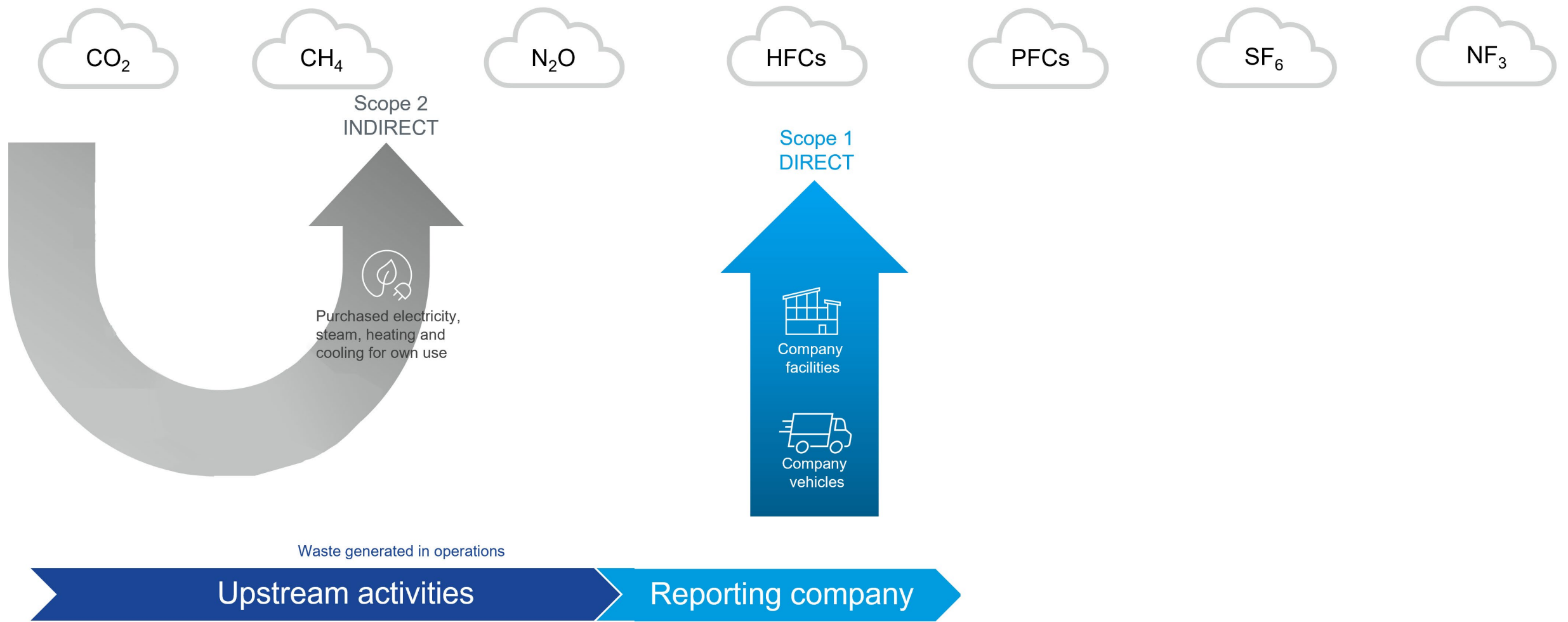
Net zero measures the amount of Greenhouse Gases that an organisation consumes, produces and offsets in its day to day activities.

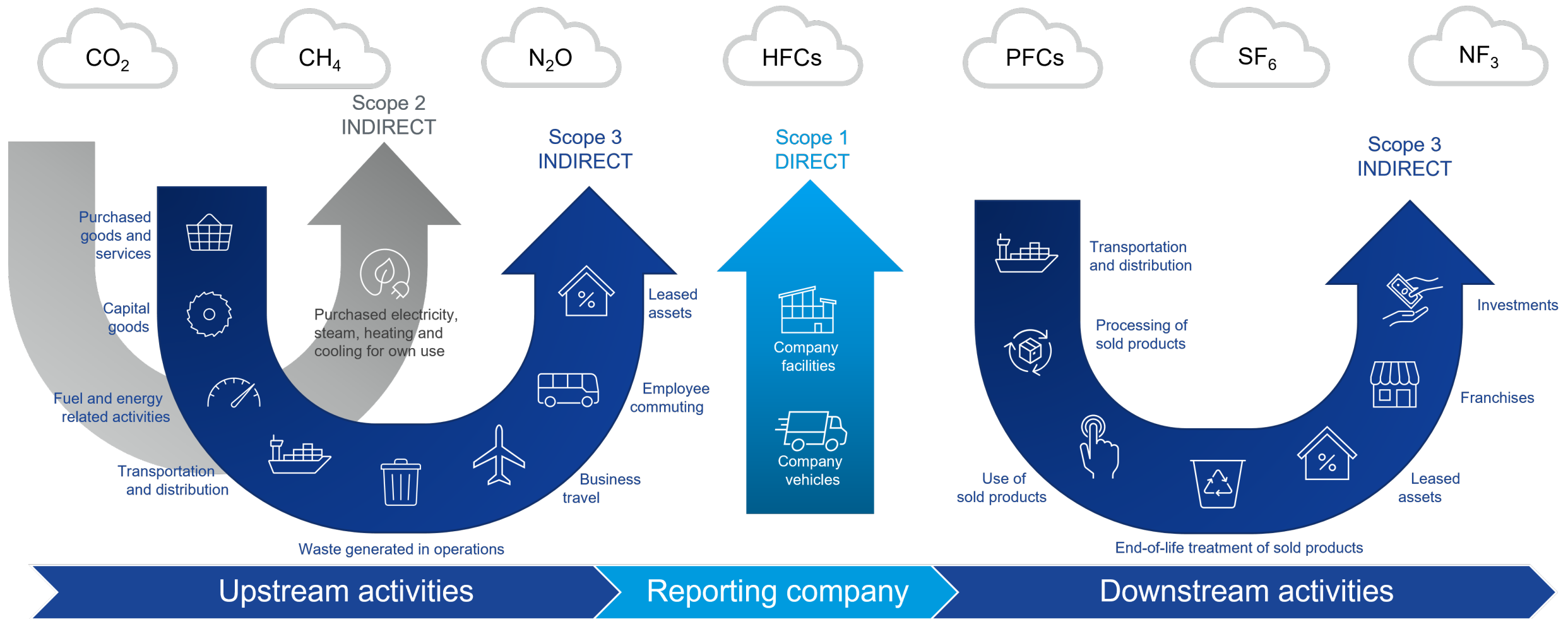


Scope 1
DIRECT



Reporting company



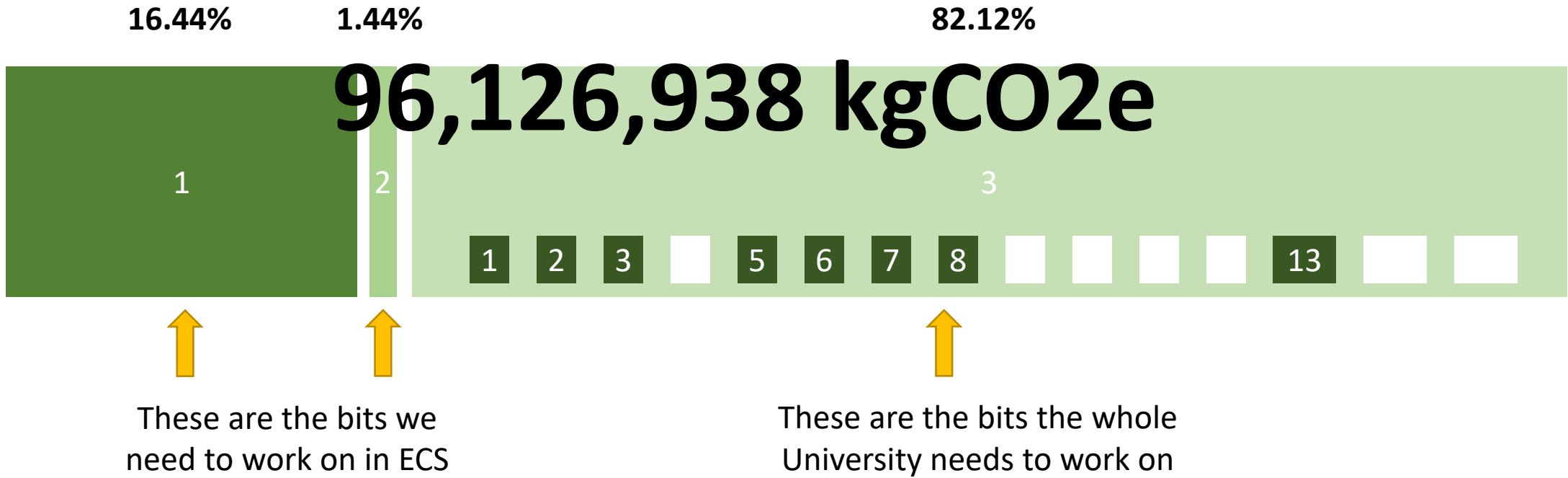




Net Zero Targets | The Numbers



- The whole University has to tackle Net Zero.
- We have measured everything in the University and now have some results.
- These results will form an Action Plan.
- Estates will be really critical in this BUT we are not the biggest problem....



Net Zero Carbon | What happens if we don't do this?



Lose access to funding & face extra costs

Lose market advantage

Lose reputation status in this area

The Government Targets are a legal requirement and enforced through The Climate Change Acts 2008 & 2009.

There is a growing desire in Scotland to link the Net Carbon targets to funding and taxation.

We are at risk of penalty taxes and stifling our ability to obtain funding in the future if we do not support the targets proactively.

In addition, we are eroding our competitive edge as many organisations use their green credentials as a showcase.

We may be missing out on a marketing opportunities.



Net Zero Carbon | Challenges



- Dealing with listed estate
- Dealing with travel: business travel, conferences, commuting, student travel
- Changing behaviours
- New kit versus refurbished kit and doing procurement differently
- New technologies
- The difficulty of the last 25%
- Offsetting what can't be reduced
 - Good and bad offsetting
 - Offsetting, values and social purpose



Net Zero Carbon | Making A Difference

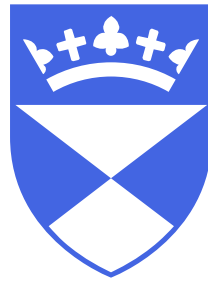
- Dundee's Climate Leadership Group
- Eden Dundee
- Sustainability Institute
- Research Expertise in Sustainability across the University
- MSc in Sustainability
- Pre-Matric Module: Climate Action and Sustainability
- On Boarding Module for new staff
- Embedding climate issues in the curriculum and business planning
- Commitment to PassivHaus and EnerPhit building solutions
- Investment in Digital to support reduced carbon





Where we need help from Schools / Directorates:

- Contribute towards the development and Implementation of clear policies to support Net Zero.
- Work with ECS to envelop building fabric and infrastructure strategies (e.g. *passivhaus*, *EnerPHit*, *Energy strategy*) into all capital projects
- Work with ECS to programme and plan for minimising disruption as the Infrastructure plan is rolled out
- Change working practices (e.g. travel, procurement) and adopt new policies positively
- Consider Net Zero as part of all Business Proposal Planning
- Consideration of academic impact and key areas to pursue
- Consideration of business and operational impacts and key areas to pursue



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Net Zero Carbon | The challenge....



How far does the University want to take its ambition?

[My2050 calculator - create your pathway for the UK to be net zero by 2050 \(beis.gov.uk\)](https://www.beis.gov.uk/my2050-calculator)