Kate Brown
Head of Procurement
NTU

Claire Davies
Sustainable Procurement
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Sustainability Manager
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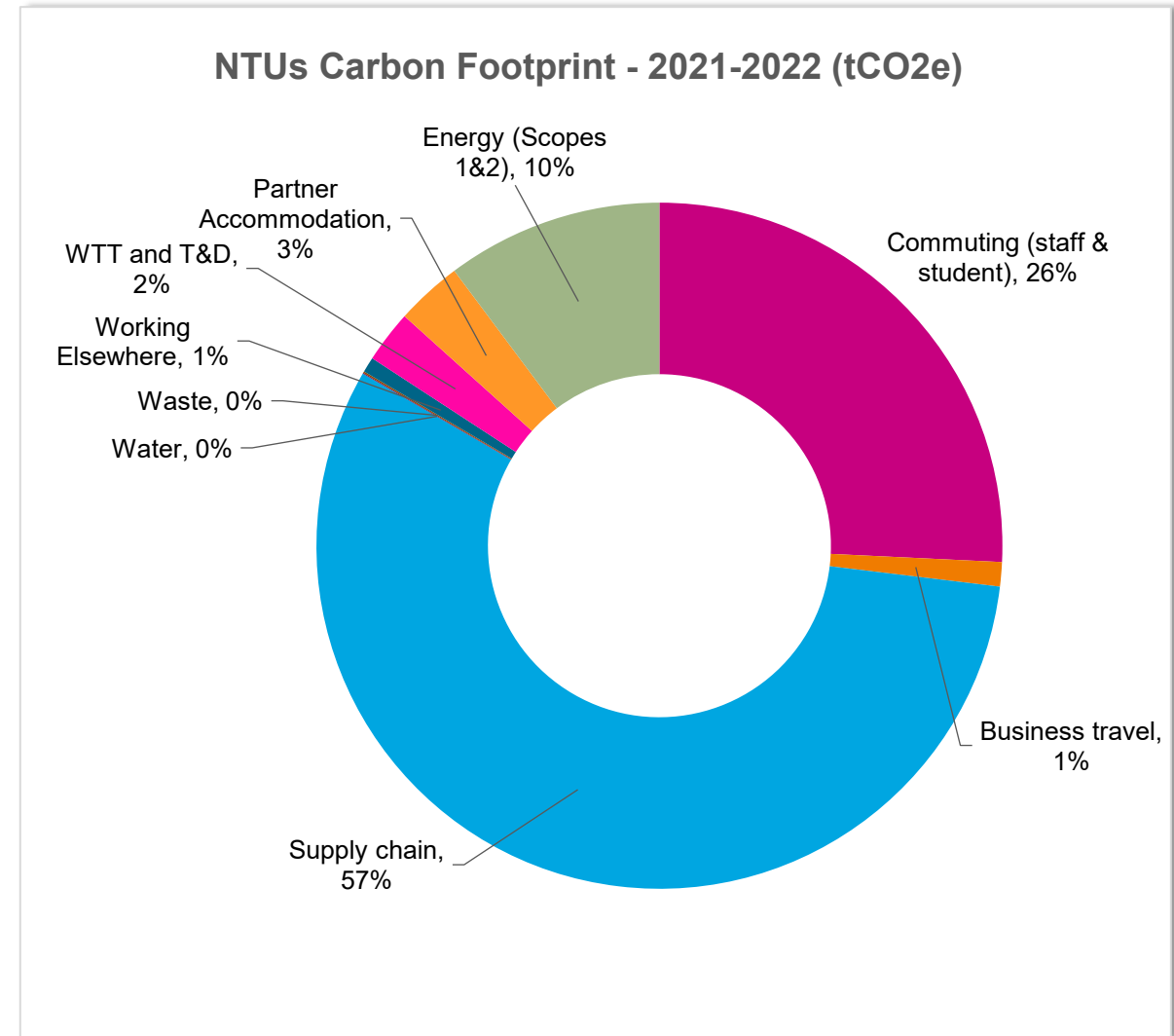
Jimmy Brannigan
Co-Founding Director
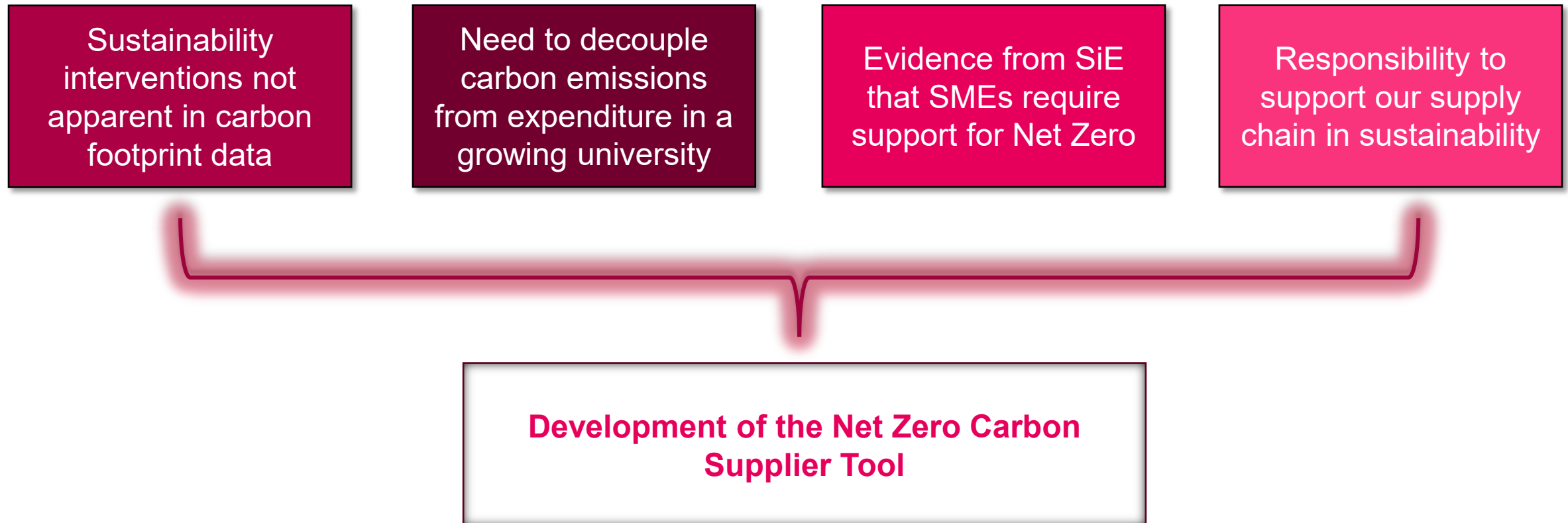NETpositive Futures

Net Zero Carbon Supplier Tool

Launch Event : 20th September

NTU Nottingham Trent University

NETpositive FUTURES

Background

- Commitment to reach NZC by 2040 across all 3 scopes

- 57% of NTU carbon emissions in supply chain in 21/22, an increase of over 11,000 tonnes from baseline

- 350 contracted suppliers plus an additional 2,500 ad-hoc

NTUs Carbon Footprint - 2021-2022 (tCO2e)

- Energy (Scopes 1&2), 10%
- Partner Accommodation, 3%
- WTT and T&D, 2%
- Working Elsewhere, 1%
- Waste, 0%
- Water, 0%
- Commuting (staff & student), 26%
- Business travel, 1%
- Supply chain, 57%

Development of the NZC Supplier Tool

Sustainability interventions not apparent in carbon footprint data

Need to decouple carbon emissions from expenditure in a growing university

Evidence from SiE that SMEs require support for Net Zero

Responsibility to support our supply chain in sustainability

Development of the Net Zero Carbon Supplier Tool

NZC Supplier Tool Calculations Methodology

Standardised Carbon Emissions Reporting for Further and Higher Education

eauc
The Alliance for Sustainability
Leadership in Education

Scope 3: Other indirect GHG emissions

Scope 3: other indirect GHG emissions	GHG protocol description	Plain English description	Level 3: Best-in-class calculation methodology	Level 2: Medium-accuracy calculation methodology	Level 1: Lower-accuracy calculation methodology	Observations
1. Purchased goods and services	Extraction, production, and transportation of goods and services purchased or acquired by the reporting company in the reporting year, not otherwise included in Categories 2 - 8. This may include intermediate goods (e.g., materials, components) and final products for resale.	Upstream (supply chain) emissions of goods and services purchased for the operation (OPEX) of the organisation	Hybrid approach covering all categories of purchased goods & services, including outsourced activities (e.g. catering, accommodation): a) Process-based emissions reporting: where actual consumption or use data is available (e.g. weight for materials used or food delivered, energy use for outsourced student accommodation or data centres), use this data to calculate emissions by applying	Collect supplier-based spend data (i.e. $CO_2e/£$) – short term likely this would only be the suppliers Scope 1 & 2, so could use EIO for the Scope 3 part. But as more suppliers will measure complete upstream supply chain footprint, then complete Scope 1-3.	Extended input-output (EIO) modelling only, applied to the entire procurement datasets (excluding spending on goods & services that fit in other Scope 3 categories, e.g. capex, business travel) as well as suppliers' relevant revenue or cost data in certain cases (e.g. outsourced student accommodation and catering).	Some procurement consortia can provide EIO-derived data through the HESCET dataset. However, it should be noted that this dataset includes all institution non-payroll spend and as a result include emissions that would be categorised as Scope 1 and 3 (e.g. utilities, travel, etc). There is currently no tool available for FE. It is therefore good

Supplier Scope 1+2 carbon emissions

Calculate what % of their turnover we are

Apply that % to their carbon emissions = our scope 3

Net Zero Carbon Supplier Tool - Demo

Supplier View

Invited suppliers only

Net Zero Carbon Supplier Tool
Developed in partnership by NETpositive Futures
and Nottingham Trent University (NTU).

NETpositive FUTURES   NTU Nottingham Trent University

⤢ Turn on/off full width view

Page Settings / Filters

Add more widgets

Dashboard

Stages of Progress

Total users: 228
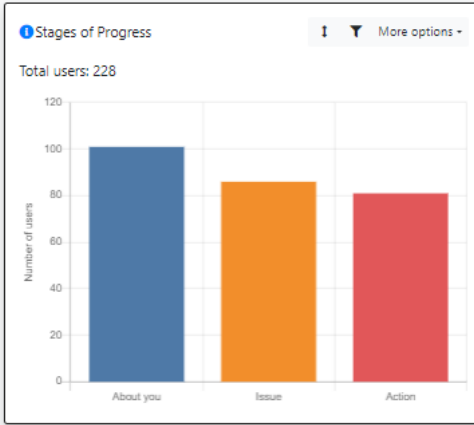
Total Carbon Calculation

Plan name	Carbon footprint (tCO2e)	Business Turnover
A... Contracti... ...	245.81	
So...	0.00	
... ...tic	0.00	£750,000
...th Mar... ...s	229.00	
...UK... ...ear... ...and	2067.52	...x ...td reported ...303.0...
A... ...M...anic...k	102.05	
Services Ltd		

Supplier (date created and logged on)

With custom issue(s)/action(s): ○ Yes ● No

Plan name	Date joined	Last logged in	Action last updated	Evidence last updated	Total	In progress	Completed	With evidence
...e C...tion S...ti... ...	2022-05-20	2023-09-07	2023-09-07	2023-09-07	48	23	17	1
S... ... ...d	2023-08-24	2023-08-24	N/A	N/A	0	0	0	0
...ure ...ons L...	2023-08-20	2023-08-20	2023-08-22	2023-08-22	6	2	0	2
...t... ...servic...	2023-08-08	2023-08-08	2023-08-08	2023-08-08	58	25	14	0
...e ...ng...d ...Ltd	2023-08-07	2023-08-07	2023-08-07	2023-08-07	62	7	16	10
...orn ...nical ...r ...es L...	2019-05-07	2023-07-31	2023-08-02	2023-08-02	33	33	0	0

Plan list

Question: Net Zero named person

Plan name	Answer	Evidence
...ial ... ...olutio...s Ltd	Yes	...draper...alliancens.co.uk
W...d	Yes	...Har...
...ed ...cer	Yes	...es
...S...li...	Yes	...tch...al H... ...stainab...CH...a Edwa...ect...f S...ability
Acc...Pip...k S...td	No	
...art... ...ir	Yes	...um...ut...ngs...nership...
Jim...	Yes	P...d...er-...char...d of Sust...abi...g...r.co...

Detailed Carbon Calculation

Question: Natural Gas

Plan name	Value	Unit	Carbon Footprint (tCO2e)
...ons...	...93	kWh	5.05
...n T...S...Lim...		£	25.56
...o U...	...m...	kWh	27.21
...er		£	1.94
...A...s C...		£	0.00
...K...UK...		£	8.90
...tra...m...		£	0.00
	...a	kWh	3.58
...ock...	...a	kWh	5.53

All Universities
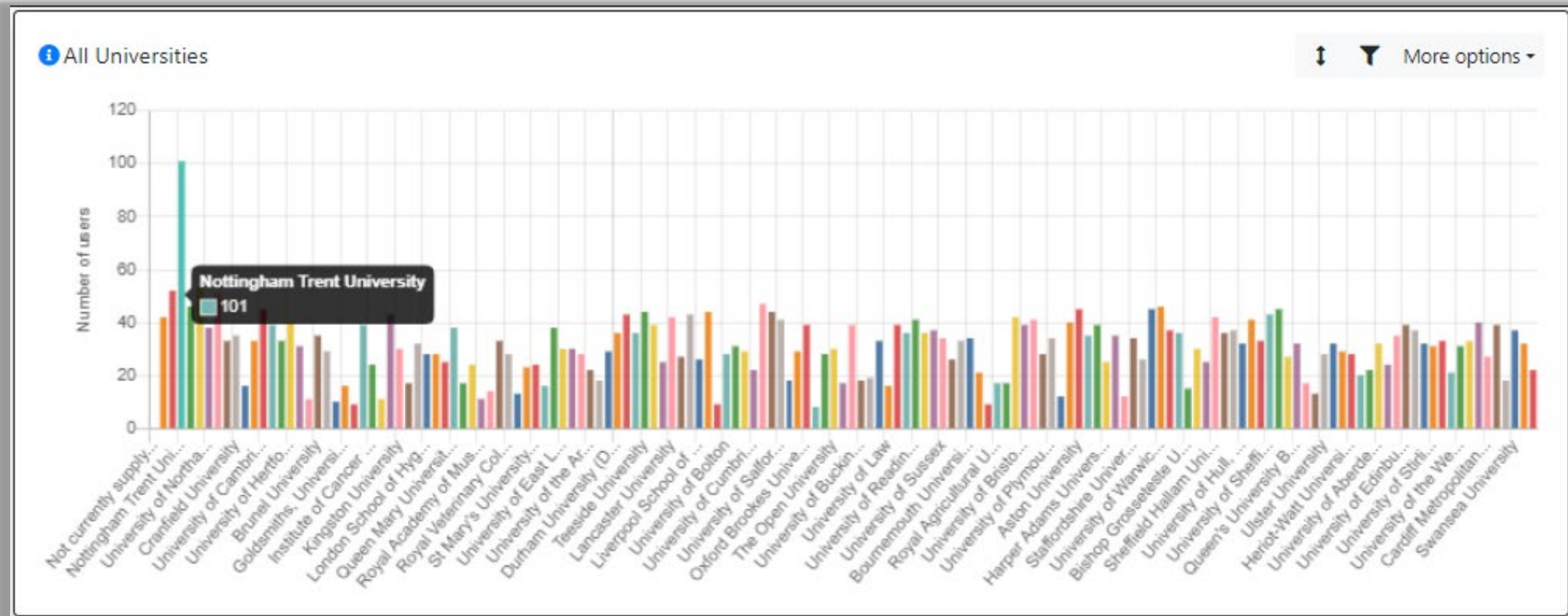
For Services

Taking actual energy and fuel (or mileage) data from suppliers

Supplier A (Removals)
0.59% of supplier turnover is related to NTU

Supplier annual carbon footprint: 668.64 tCO_2e
NTU responsible carbon footprint: 668.64 x 0.59% = 3.94 tCO_2e

NZC Supplier Tool
Carbon: 3.94 tCO_2e

HESCET
Carbon: 30 tCO_2e

Supplier B (physiotherapy services)
0.015 % of supplier turnover is related to NTU

Annual carbon footprint: 808.60 tCO_2e
NTU responsible carbon footprint: 808.60 x 0.015% = 0.121 tCO_2e

NZC Supplier Tool
Carbon: 0.121 tCO_2e

HESCET
Carbon: 11.26 tCO_2e

Supplier C (Legal services)
0.37% of supplier turnover is related to NTU

Annual carbon footprint: 1,809.05 tCO_2e
NTU responsible carbon footprint: 1,809.05 x 0.37% = 6.69 tCO_2e

NZC Supplier Tool
Carbon: 6.69 tCO_2e

HESCET
Carbon: 157.5 tCO_2e

Goods

NZC Supplier Tool Data

Supplier Operational Emissions

Apple Devices Supplier 0.63% of supplier turnover is related to NTU

Supplier annual carbon footprint: 12.19 tCO_2e
NTU responsible carbon footprint: 0.63% = 0.08 tCO_2e

Supplier operational emissions + embodied carbon emissions

Actual Embodied **Cradle to Gate** (manufacture and transportation) **Emissions** for Apple Devices (93.316 tCO_2e)

+

% of Suppliers Scope 1+2 Emissions (0.08 tCO_2e)

=

Total Carbon = 93.396 tCO_2e

HESCET
Spend on Apple Devices: £1,135,278
Carbon: 676.77 tCO_2e

Action Research Project

Where are we now?

- Two pilot phases have been carried out, the second pilot with 6 universities

- Learning from the pilot has been folded into the tool and shaped the required support package

- Whilst fully functioning and well received by suppliers we are committed to continual improvement and learning

- We know from learning from the Supplier Engagement Tool that multiple universities engaging with suppliers increases buy-in and uptake

Action Research Project

What next?

- Continue to increase the quality of the data

- Increase the number of universities circulating the tool (sending a message to suppliers that this is important)

- Implement a structured peer to peer learning process

- Identify and fund further updates to the system to improve the supplier experience and improve quality of data

Action Research Project

The Opportunity

- Institutions can join the action research project
- Institutions will be provided with the tool and guidance to circulate to suppliers
- Institutions will be provided with a dashboard giving access to the supplier carbon data
- Guidance will be provided on using the data via a supply chain carbon framework
- Opportunity to join quarterly peer review sessions to share challenges/progress and identify best practice (technical/process)
- This will shape future iterations of the tool and future programme

Action Research Project

Requirements

- Institutions commit to engage with the project, attending meetings and sharing learning

- Institutions are pro-active in inviting suppliers to take part (NETpositive futures will monitor gaps in data and pursue suppliers)

- The 1-year project will run from November 1st 2023 – October 31st 2024

- The cost is £3,500 per institution with the income funding project support (dashboards, training, advice) and any further development costs identified by the project

- NTU to provide expertise and support to the project for free

Action Research Project

Resources/key tasks

- Procurement Team Roles
  - Identifying suppliers
  - Supplier engagement – sending invites*, answering queries, sending chasers, ad hoc remote support
  - Internal stakeholder awareness
  - Dashboard usage – monitoring engagement, reviewing returns
  - Reviewing procurement documentation and processes to embed supplier compliance i.e. ITT, onboarding docs, contract management etc.
  - Collaborative partnership with Sustainability colleagues

- Sustainability Team Roles
  - Data management (calculations and reporting)
  - Supplier engagement – supporting supplier queries, communications, ad hoc remote support
  - Dashboard usage – monitoring, data analysis
  - Collaborative partnership with Procurement colleagues

- Institutions (non-role specific);
  - Commit to attend at least one user group per year
  - Attend training as appropriate (dashboard, next steps, how/what to report etc.)
  - Provide feedback when required
  - Share best practice

Next Steps

Action Research Project – expressions of interest to
admin@netpositivefutures.co.uk

Questions on how the tool can support your Net Zero Supply Chain to
Sustainability@ntu.ac.uk

Nottingham Trent University

NETpositive FUTURES

Questions

Nottingham Trent University

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