

Supply Chain Sustainability Sustainable Business Network 19 March 2021







Agenda

- Legal & Market Update Dr Wendy Buckley, Chair SBN North Hants
- Supply Chain Sustainability Alasdair Silverman & Catherine Westoby, BEIS
- Supply Chain Carbon Footprinting Myles Howard, Carbon Footprint Ltd





Legislation & Market Trends

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Are You Measuring your Supply Chain Footprint?













Images courtesy of Andrew Parsons, UNFCCC, GETTY Images and the BBC



International Energy Agency (IEA) 2020 Global Review

- Primary energy demand dropped 4% causing a 5.8% reduction in CO₂e
 - Largest annual % reduction since WW2
 - Decline of 2,000 million tonnes
- Reduction in oil usage of 8.6% road transport accounts for 50% of decline with aviation account for 35%
- Have rebounded to pre-lockdown levels

Change in CO2 emissions by fuel, 1990-2020

Last updated 1 Mar 2021

Monthly evolution of global CO2 emissions, 2020 relative to 2019





Significant Environmental Fines & Prosecutions

- Thames Water fined £2.3 million
 - Over 1000 fish and other water life dead after ammonia high sewage pollution incident in Henley-on-Thames
 - No adequate monitoring in place and not responding to alarms highlighting faults in system
 - Turnover is around £2 billion
- Flybe hit with £52m environmental penalty largest corporate environmental fine in the UK's history (calculated under the EU ETS rules) to cover plane emissions.
- Lack of action against Farming water violations from the Environment Agency (EA):
 - 243 violations since 2018 recoded with no prosecutions or fines issued
 - Aims to prevent water pollution by requiring better water management
 - Run off from agriculture is the biggest single polluter of rivers
 - Legislation states that fixed penalties of £100 £250,000 can be issued

Streamlined Energy & Carbon Reporting (SECR) & Implications



- Companies are now reporting some about to report for their **second year**
- Second year report requires making a comparison to the previous year of figures and actions taken.
- Company or LLP qualifies if satisfies **two or more** of the following requirements: (exempt if use <40MWh of energy)
 - Turnover £36 million or more
 - Balance sheet total £18 million or more
 - Number of employees 250 or more
- Enforced by The Conduct Committee of the Financial Reporting Council

Upcoming Changes



- Environmental Watchdog will be launched on an interim basis in July 2021
 - Ahead of formalisation of the Environmental Bill
 - Will publish independent assessments of Government's 25 Year Environmental Plan
 - Develop Office for Environmental Protection's strategy
 - Dame Glenys Stacy will Chair

• UK Carbon Emissions Trading Scheme (ETS) will launch in May 2021

- Will operate in similar way to EU ETS
- Stricter tighter emissions cap and higher fines
- Increases risk for miscalculating footprint (as seen with Flybe)
- Can register now
- Right to Repair ministers confirm implementation of EU legislation
 - Manufactures will be obligated to make spare parts
 - Aims to extend product lifespans to up to 10 years
 - 'Summer 2021'

New Environmental Land Management Schemes Rollout Post-Brexit



- Aim to reward environmental land management focusing on sustainable farming, local nature recovery and landscape recovery
- Pilot Sustainable Farming Initiative in 2021 for 2022 launch Submit interest by 11th April
- Local Nature Recovery and Landscape Recovery piloting in 2022 for 2024 launch
 Includes large scale tree planting, restoring wilder landscapes and restoring peatland and salt marsh
- Funded by gradual reductions in Basic Payment Scheme (BPS) payments (2021 2027)
 Grants for farms requiring certain land management (e.g. 5% of land for good of environment)
- Estimated 100,000 tCO₂e additional carbon savings over 2023-2027 up to 300,000 tCO₂e between 2028-2032

UK Extension To Green Grants



• Desire for green recovery

- Domestic Renewable Heat Incentive (RHI) and Green Homes Grant extended till March 2022.
 - Vouchers for energy efficiency upgrades
 - Funds up to 2 thirds of the cost of green home improvements up to £5,000, or 100% of the cost for homeowners on low incomes, up to £10,000

National Infrastructure Bank

- National Infrastructure Bank will support regional growth
- Aims to tackle climate change by renewable energy, carbon capture, storage and transportation
- £12 billion initial capitalisation and is expected to support at least £40bn of investment

• Net Zero Innovation Fund

- Provides funding for low-carbon technologies
- Competitions for funding will be launching throughout 2021 including £20 million competition to develop floating offshore wind projects)
- £1bn fund
- Sovereign Green Bond to be released Summer 2021 (£15bn of green gilts to be released)
- UK's Net Zero goal will be added to the remit of the Bank of England

References / Useful Links



- <u>Race To Zero Campaign | UNFCCC</u>
- <u>Thames Water fined £2.3m for environmental offence BCL Solicitors LLP</u>
- <u>Revealed: no penalties issued under 'useless' English farm pollution laws | Farming | The Guardian</u>
- Airline hit with £52m environmental penalty (endsreport.com)
- Environmental land management schemes: overview GOV.UK (www.gov.uk)
- Interim Office for Environmental Protection to be launched GOV.UK (www.gov.uk)
- <u>Global Energy Review: CO2 Emissions in 2020 Analysis IEA</u>
- <u>Covid-19 paused climate emissions but they're rising again BBC Future</u>
- <u>'Right to repair' law to come in this summer BBC News</u>
- Participating in the UK ETS GOV.UK (www.gov.uk)
- UK carbon emissions trading scheme to launch in May (businessgreen.com)
- Budget 2021: UK Infrastructure Bank to be based in Leeds BBC News
- <u>Net Zero Innovation Portfolio GOV.UK (www.gov.uk)</u>
- Budget 2021: Key climate and energy announcements | Carbon Brief
- The ten point plan for a green industrial revolution GOV.UK (www.gov.uk)
- Green Homes Grant extended for extra year GOV.UK (www.gov.uk)



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Thank-you & Get Involved in Further Sessions!











Your business & the Race to Zero

Catherine Westoby, SME Net Zero Eng Lead Alasdair Silverman, BEIS COP26 Biz Eng



What is COP26?

Paris 1-12 Nov Glasgow **COP21 COP26** 2021 UN climate Expect major Dec 2015 the Summit marks negotiations in international World agreed the deadline to align Glasgow. 196 agreements-Paris Agreement current actions countries + EU. implications for - limit global with this legally Major focus of policy and warming to 1.5C. binding treaty. HMG. **UN CLIMATE CHANGE** CONFERENCE (2021

Actions and Presidency & treaty 'gap' Net Zero 2050

markets.

UK & Italy President for year post-COP26. UK's legal 2050 NZ goal.

HETOZERI

UN's global campaign to rally leadership and support for a **zero carbon recovery** Largest ever alliance committed to net zero by 2050 at the latest



RACETOZERO

UK's year of climate action

National campaign committing UK organisations to Race to Zero before COP26



Net Zero **public** engagement

Net Zero **business** engagement

N PARTNERSHIP MITH ITALY

Andrew Griffith MP

Net Zero Business Champion – appointed by the PM to support the UK business community to commit to & take action on Net Zero ahead of COP26

Big business campaign

Race to Zero recruitment

Small & micro business campaign

Mass mobilisation Global Green Investment Summit

Showing leadership





CLIMATE

Large business & the Race to Zero

A step-by-step guide (V1)



What is the Race to Zero?



Race to Zero - The Business Case

Investors and shareholders increasingly want to see action on climate.

Consumers, employees and other businesses will view your company more positively. Procurement based on climate impact is increasing. Motivate your workforce via green action.

Get the most 'bang for your buck' - in positive exposure and in climate impact.

Set the policy and market direction – Governments have committed to a 1.5°C so regulation and financial incentives are only going one way.

Low carbon businesses are more efficient and resilient. Also a 1.5°C world is more stable and prosperous.





Three steps to Join the Race to Zero via the Business Ambition for 1.5°C



Work with the SBTi to set your emission targets (<u>SBTs</u>, Science-Based Targets) within 24 months. Once these are approved, complete the recording requirements to stay on track.

Does your business have fewer than 500 employees? You can enter via the SME Climate Hub.

To note, these steps are to join via the Business Ambition for 1.5°C. A full list qualifying of initiatives are found here.



BUSINESS 1.5°C

T&Cs: What am I committing to?



Additional ways to support COP26

Key ask of Business: Join the **<u>Race to Zero</u>** through **<u>Business Ambition for 1.5°C</u>**

Finance

- Join <u>Race to Zero</u> via relevant initiative, aligning portfolio with a 1.5°C future
- TCFD disclosure
- Align with **Powering** Past Coal Alliance
 finance principles
- Invest in low carbon and resilient projects.
- Expand open source data sets to improve risk models

Energy Transition

- Commit to renewable power via **<u>RE100</u>**.
- Commit to coal free energy via <u>Powering</u> <u>Past Coal Alliance</u>
- Boost energy productivity via EP100
- Invest in clean energy with NZ Asset Owners Alliance & CA100+
- Support the <u>Just</u>
 <u>Transition</u> via the B
 Team

Nature

- Support the Forests, Agriculture and Commodity Trade dialogue and commit to due diligence on supply chains
- Buy only high-quality nature-based carbon credits as part of a credible net zero plan
- Sign the Leaders
 - Pledge for Nature

Clean Transport

- Commit to
- electrifying your fleet by 2030 and investing in EV infrastructure by
- joining EV100
- Commit to 100% ZEV production by 2040 or earlier.



- Join the <u>Race to</u> <u>Resilience</u>
- Increase A&R investments in
- developing countries
- Join the Coalition for Climate Resilient Investment and the Adaptation Action Coalition



Events and Engagement

Be a part of the conversation and ensure your company gets the exposure it deserves by joining the Race to Zero.

Announce your entry to the Race at an event in the lead to COP26 to stay ahead of competitors.

Events currently include the **Business Ambition Summit** and the **Global Green GLIMATE** Investment Summit. Boris Johnson
 DerisJohnson
 Direction
 Duted Kingdom government official

Fantastic to see 75 nations coming together to pledge #ClimateAction today. Ultimately, our ability to protect our planet will come not from timidity or caution - but decisive ambition from all.

Looking forward to driving this forward ahead of @COP26 next year.



Almost a fifth of FTSE 1 a United Nations pledg emissions by 2050 bloc #racetozero



Mark Carne @MarkJCarr

Great to see @LSEplc b to join the #racetozero. part of the financial infr the whole-economy tra #netzero.



Nigel Topp @topnigel

Great to see specific act @avivaplc - telling oil c @sciencetargets or be a commitments to transit

Small businesses & the Race to Zero

UK COP26 Campaign

UN CLIMATE Change Conference UK 2021

Why SMEs?

Business & industry = 25% UK emissions



SMEs:

- 99% of our 5.87 million enterprises
- 16.6 million employees (60%)
- £2.2 trillion of revenue (52%)
- Just under half of UK business emissions

Cannot ignore SMEs: whole systems approach



Campaign objectives



Raise awareness of climate change among small businesses & consumers



Encourage uptake of specific actions to reduce emissions, supporting UK's 2050 target



Generate placebased interest & press coverage ahead of COP26 in Glasgow.







Campaign strands

Key ask of small businesses: Join the **Race to Zero** through **UK digital platform on SME Climate Hub**

National dissemination

- UK landing page SME Climate Hub
- Government channels
- Net Zero taskforce large corporations

Regional events

- Six virtual regional events
- Sharing best practice across business, government & academia

Place-based engagement

 Mobilising local communities, in partnership with individual networks & local authorities

Sector specialisation

- SME working group shaping sectorspecific support
- Assimilating & signposting to existing plans and resources

Digital platform

Drive sign ups to Race to Zero: small businesses

Communicate relevance of climate change & COP26 to business

Provide a 'one stop shop' for net zero support and advice

Elevate & signpost sector-specific tools and resources

Present latest news, events & opportunities in lead up to COP26



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Where DMEs came to fature proof their business

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Campaign Activity

EVENTS







Second Contract

YOUR BUSINESS

JOURNEY TO NET ZERO

An of the search for Viderab SMDs 10th Extension 2021

View the full agencie and signal plan http://www.

Andrew Griffith N

Nicola Lovett + 2nd

hief Executive Officer, ENGE UK & Ireland.

It was great to speak this maming at Your Business inumery to Net Zero event along-side Andrew Griffith MP, Trecor McMillan, Gadma Cartwright, Phil Korbel discussing sublicing to Midlands based companies withing to embaric on their net.

The Department for RFIS event was delivered with **Keele University** white proud to support Keele's innovative work to develop low carbon solutions by providing a multi bedination renewable energy back connected to their campus.

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PRESS

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Bloomberg Green

Finance

UN's Race to Zero Draws Climate Pledges From a Fifth of FTSE 100

By Alex Morales and Jeas Shankleman

12 February 2021, 00:01 GMT

- ► Astra Zeneca, Vodatone among tirms with strict climate goals
- Premier's envoy seeks company piedges to eliminate emissions.
- North Reports Website 1915 Tele Densis for Roberts

"My ultimate goal is the whole of the U.K. business community from the largest to the smallest," Crittith said.

Once smaller companies are included, the U.K. is already outstripping the likes of Germany and France in terms of involvement in the Race to Zero, he said. His message to companies is to look at their sources of energy, their buildings and their product sourcing.



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CASE STUDIES



Property develope

#TogetherForOurPlanet

zero journey.

How you can help:

Sign up to Race to Zero! & encourage your members to follow you

> UN CLIMATE Change

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FERENCE

Promote the campaign Share on your social media channels, newsletters

Share tools & opportunities on ongoing basis to networks Synergise R2Z with your existing events & campaigns Highlight best practice Tell your story or introduce us to inspiring

businesses

IRACI TO ZIRO



Thank you for listening

Catherine Westoby

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Alasdair Silverman

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Supply Chain Carbon Footprinting

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> Carbon Footprint Ltd www.carbonfootprint.com



The Scopes



Carbon Footprint Ltd www.carbonfootprint.com

Why measure and manage your supply chain footprint



- Disclosure of Scope 3 Supply Chain emissions is becoming more popular by forward thinking Corporate businesses in their Annual Reports.
- The Carbon Disclosure Project and Science Based Target Initiative are actively promoting the need for Scope 3 carbon footprint reporting.
- Assessment enables an organisation to identify and respond to carbon 'hot spots' in their supply chain.
- There is potential to save cost and improve sustainability in the supply chain.





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Data Availability

Primary- Exact usage data from operations (e.g. Fuels, Mileage, Materials).

Secondary- Data from global average emissions factors based on known processes.

Tertiary- Cost Based Analysis to identify key data sources to help identify where to target the above data. Need the above data to have measurable reductions.



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Spend based carbon assessment

- Using cost based factors to estimate supply chain GHG emissions based on financial spend.
- Identify "Hot Spots", typically the top 3 sources to focus on.
- Report on findings, identifying suppliers contributing to your Organization's footprint.





Some downstream emissions sources may need modeling if not directly paid for

e.g. Distribution, Product Use and Waste.







Progression Improving data as you go

Year 1 – 100% Tertiary Data

Hybrid approach

Year 2 – Primary or secondary data for the top 3 identified sources.

Year 3 – Working with suppliers to reduce emissions. Majority Primary or secondary. Year 5 – A better understanding of your supply chain allowing more data and more influence

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Market Pressures and additional benefits



- **Reduce overall emissions** through identifying hotspots and addressing large emissions sources.
- Can help with **tenders** and **becoming part of** companies supply chains as well as **remaining in supply chains**.
- Having a good **supply chain understanding** can allow businesses to go **above and beyond** the minimum reporting requirements and show their **Environmental understanding**.
- Provides many opportunities to show green credentials, differentiate your brand and many additional transparent marketing opportunities.
- Target setting...



Target Setting



SBTi — require a screening of Scope 3 emission with the minimum of a cost based approach with targets typically for the 3 key sources of emissions. Certain SBTi targets require actions for the companies supply chain.

Reduction targets on a per scope basis examples

Depends on data availability and the scope 3 emission source...

- Promoting Carbon Assessment
- Working with suppliers to increase efficiency
- Greener suppliers
- Local supply
- Reuse/reduce (hierarchy)





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This Executive Overview provides some ideas on how you may wish to address Supply Chain Carbon Footprinting.

The aim of this talk was to:

Recap

- Identify your next step and a potential strategy for achieving a supply chain footprint
- Identify the benefits of monitoring your supply chain
- Provide details on how extensive and how far a supply chain can stretch



Information & Further Resources







- Carbon Footprint Website https://www.carbonfootprint.com/supplychainfootprint.html
- GHG Protocol <u>https://ghgprotocol.org/scope-3-technical-calculation-guidance</u>
- Gov.UK https://www.gov.uk/government/statistics/uks-carbon-footprint
- ONS.gov.uk <u>https://www.ons.gov.uk/economy/environmentalaccounts</u>
- WIOD Socio Economic Accounts 2016 http://www.wiod.org/database/seas16

Carbon Footprint







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