Timber Industry Net Zero Roadmap Actions

Charlie Law

Sustainability Director – Timber Development UK

Drivers for Net-Zero Carbon

- The need to limit global warming to well below 2˚C, preferably to 1.5˚C, compared to pre-industrial levels as agreed at COP 21 in Paris (Dec 2015).
- UK Government legal target to reach Net-Zero by 2050 (June 2019)
- UK Government interim target of 78% reduction by 2035 compared to 1990 levels (April 2021)
- Targets from various organisations within our value chain, including the Construction Leadership Council, World & UK Green Building Councils, Manufacturers and Merchants

TDUK Net-Zero Target

Timber Development UK signed up to SME Climate Hub Commitment Jan 2022:

“Timber Development UK, recognising that climate change poses a threat to the economy, nature and society at large, commits to take action immediately in order to:

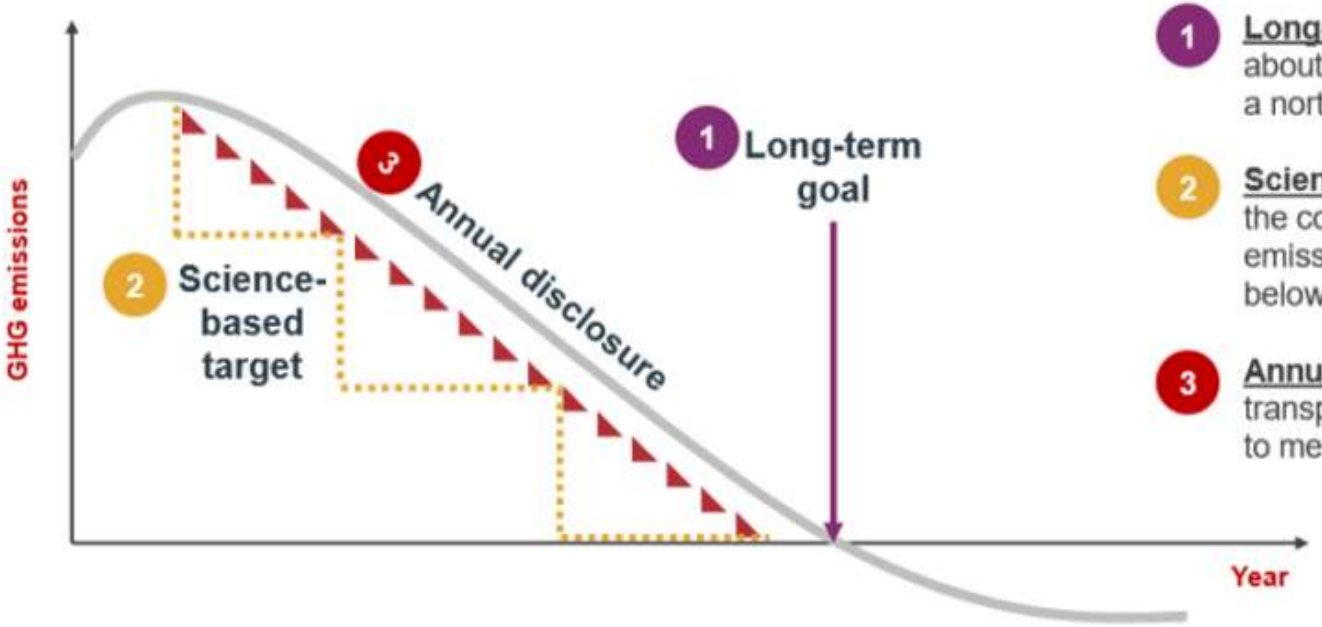
- *Support our members in halving greenhouse gas emissions intensity before 2030*
- *Achieve net-zero emissions before 2050*
- *Disclose our progress on a yearly basis*

In doing so, we are proud to be recognised by the United Nations Race to Zero campaign, and join governments, businesses, cities, regions, and universities around the world with the same mission.”

Science Based Targets Initiative (SBTi)

TIMBER DEVELOPMENT UK

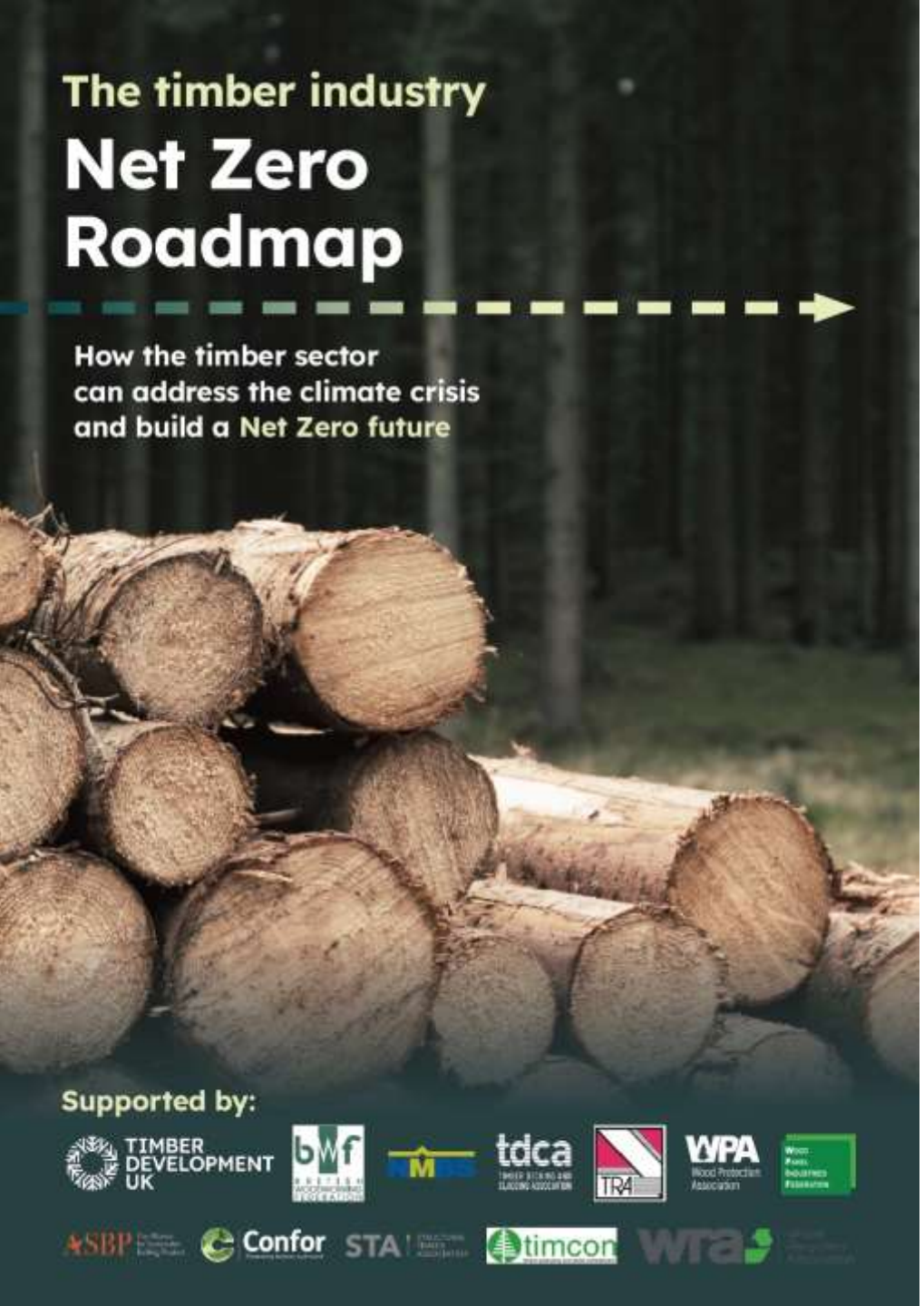
"GHG emissions reduction targets that are consistent with the level of decarbonization that, according to climate science, is required to keep global temperature increase within 1.5 to 2°C compared to pre-industrial temperature levels"



1. **Long-term goal:** A net-zero long-term goal provides certainty about the direction that the company will follow and serves as a north-star for long-term strategic decisions;
2. **Science-based target:** Science-based targets ensures that the company is taking shorter-term action to reduce emissions at a pace that is consistent with keeping warming below 1.5°C / well-below 2°C;
3. **Annual disclosure:** Climate disclosure provides transparency about the progress that the company is making to meet its long-term and medium-term goals

www.sciencebasedtargets.org | @sciencetargets

Supporting Associations



Energise

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Sector Net Zero roadmap, sector standards / guidance and toolkit (opportunity checklist, action plan template, communications template)

Carbon calculator for ongoing use (Excel or option to subscribe to Net Zero Club online tool)

High-level policy costs for implementing emissions reduction projects (Scope 1 & 2)

Understanding of suitable offset options

Industry Material Flows

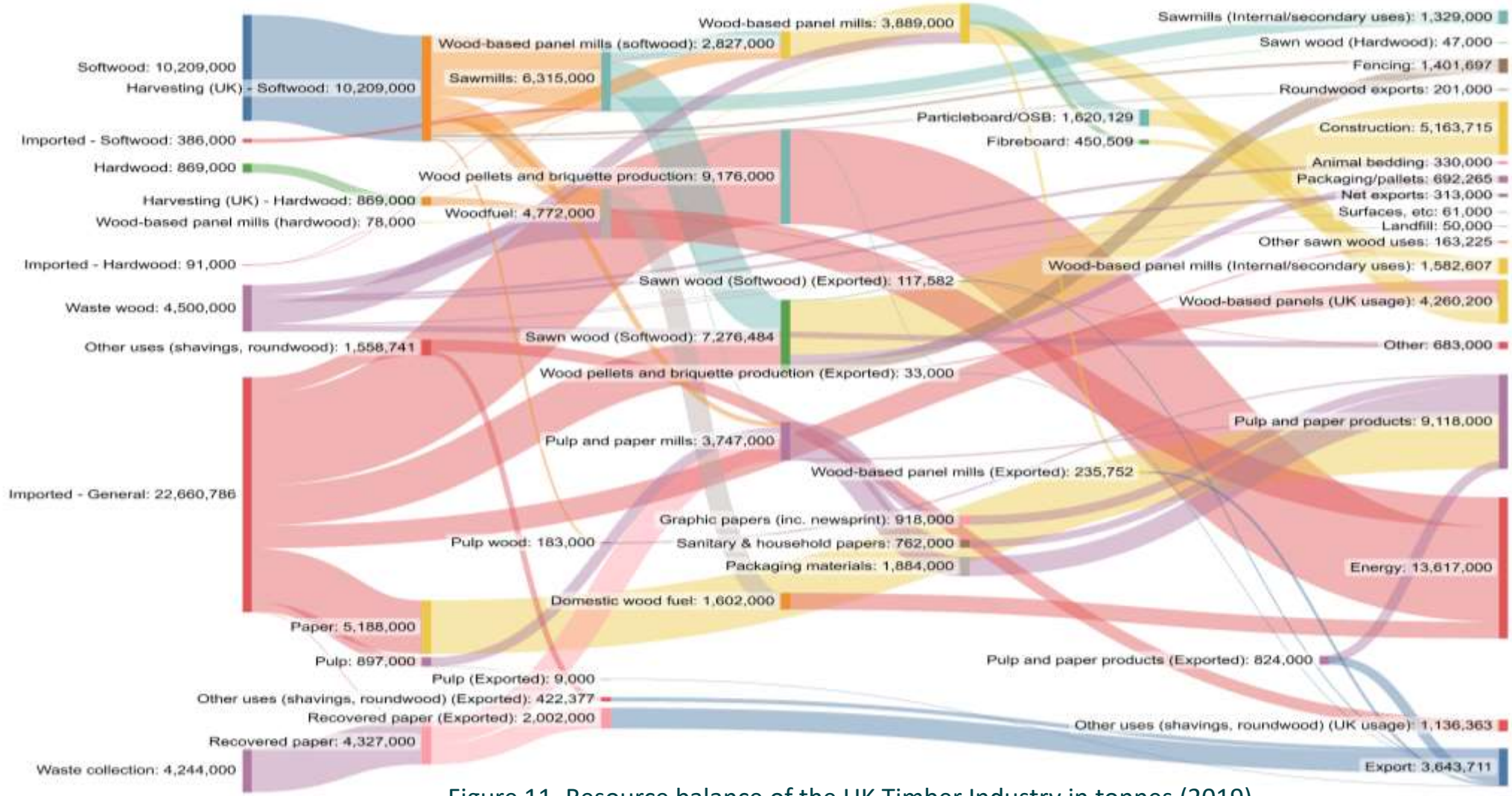

Figure 11. Resource balance of the UK Timber Industry in tonnes (2019)

Timber Industry Emissions Footprint

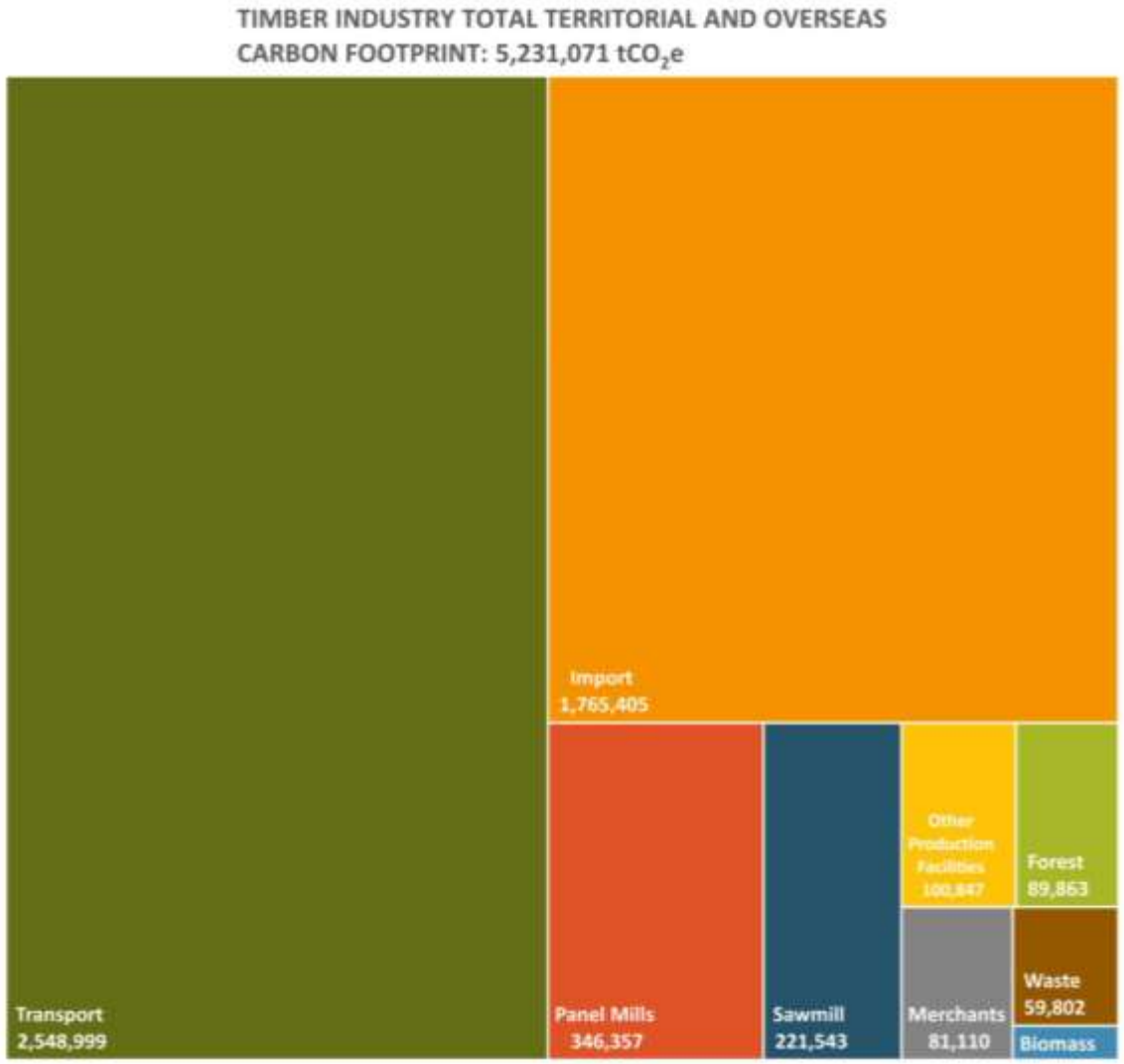

Figure 12. Emissions footprint of the Timber Industry (territorial & overseas)*

- Timber related industries in the UK* responsible for **1,575,356 tCO_2e** territorial emissions (0.35% of UK).
- Very low compared to other industries:
  - Steel: **12 million tCO_2e** (2.7% UK)
  - Concrete: **7.3 million tCO_2e** (1.5% UK)
- Timber industry also responsible for 3,655,715 tCO_2e of imported embodied emissions, which if added to the above, total consumption emissions still only 0.68% of total UK emissions.

*Excludes paper, cardboard, pulp, and imported biomass for the energy industry.

Timber Industry Emissions Footprint

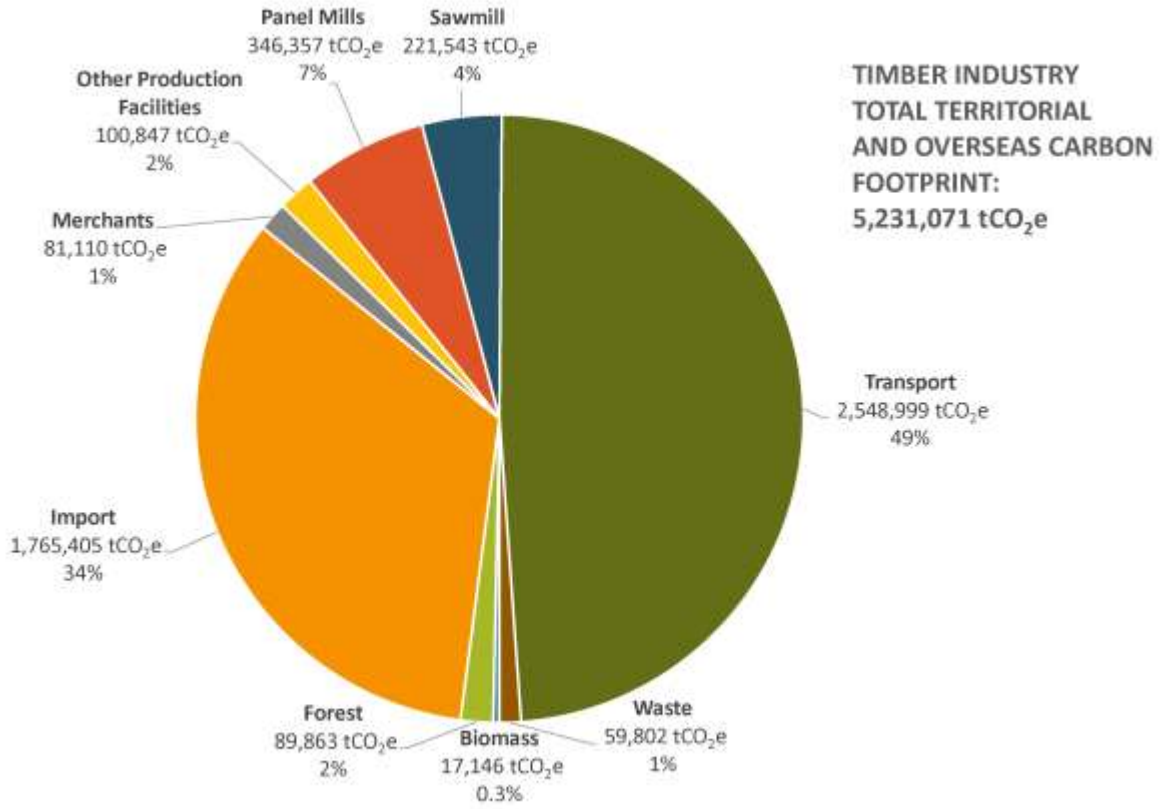

Figure 13. Emissions footprint of the Timber Industry (territorial & overseas)*

Based on total consumption emissions:

- 49% Transportation of timber products
  (inc. transport of wood products from country of origin)
- 34% Imported embodied emissions
  (processing of wood products in country of origin)
- 14% UK production facilities & merchants
- 2% Forest activities
- 1% Waste

*Excludes paper, cardboard, pulp, and imported biomass for the energy industry.

Timber Industry Net Zero Transition

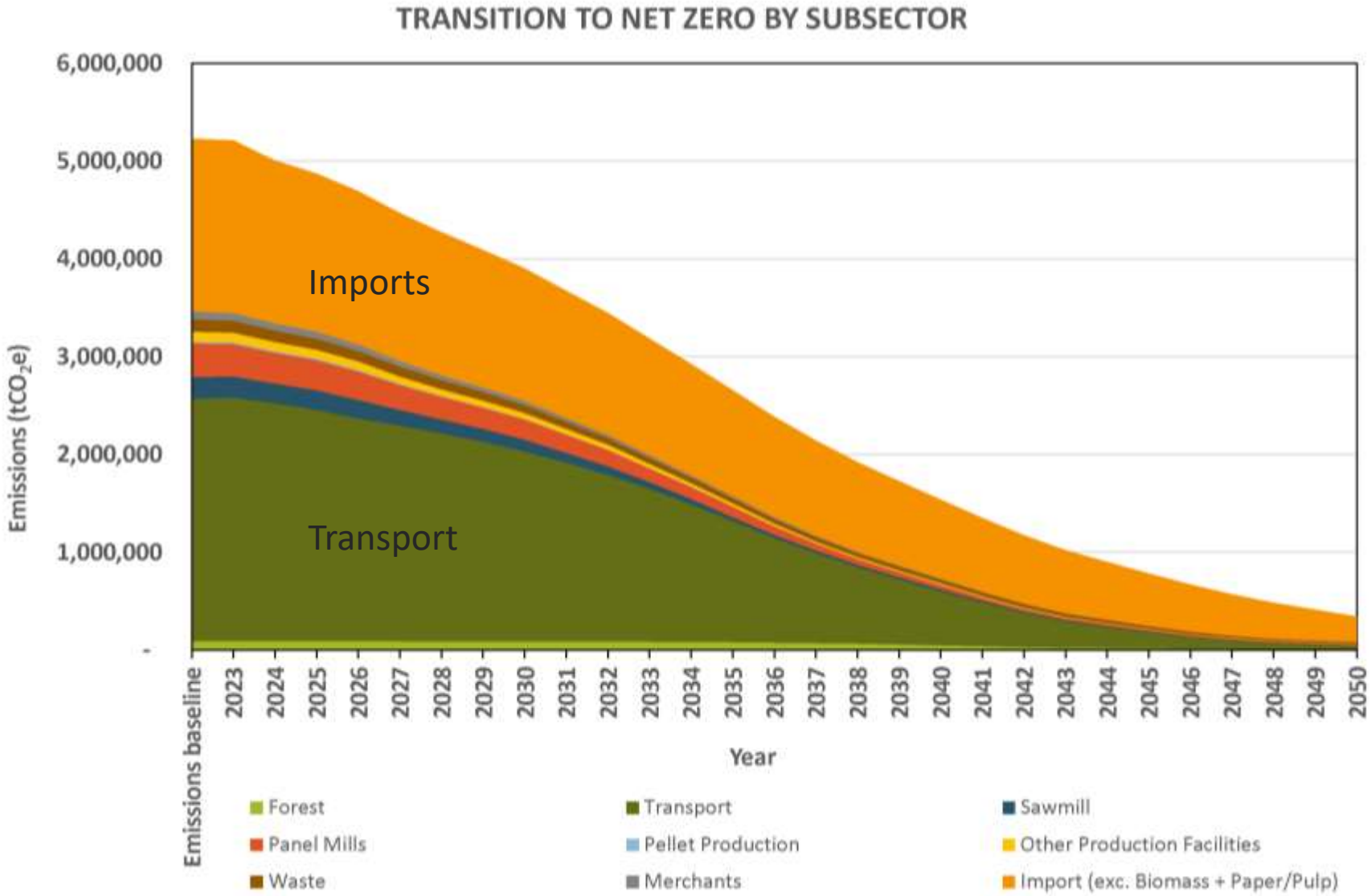

Figure 34. Transition to Net Zero for the UK Timber Industry

Policy Recommendations

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1. Industry should align to GHG protocol to report Scope 1 & Scope 2 emissions by all non-SME operators by 2023.
2. Set industry standard to compile full scope carbon footprints (inc. Scope 3) by 2025.
3. Reduce road going transport emissions intensity by 25% by 2030, and 50% by 2035.
4. Reduce processing/manufacturing emissions intensity by 50% by 2030.
5. Reduce forestry emissions intensity by 50% by 2040.
6. Reduce Scope 1 & 2 carbon intensity of the industry by 90% by 2045.
7. Reduce Scope 3 carbon intensity of the industry by 90% by 2050.
8. The industry will develop a specific circularity/resource efficiency roadmap by 2024 to accelerate the activity in this key area.
9. Nature-based solutions (combined with the above reductions) focused on permanent carbon removals to be used for offsetting.
10. The industry will support targets/initiatives to increase domestic production and expansion of the domestic woodland stock.

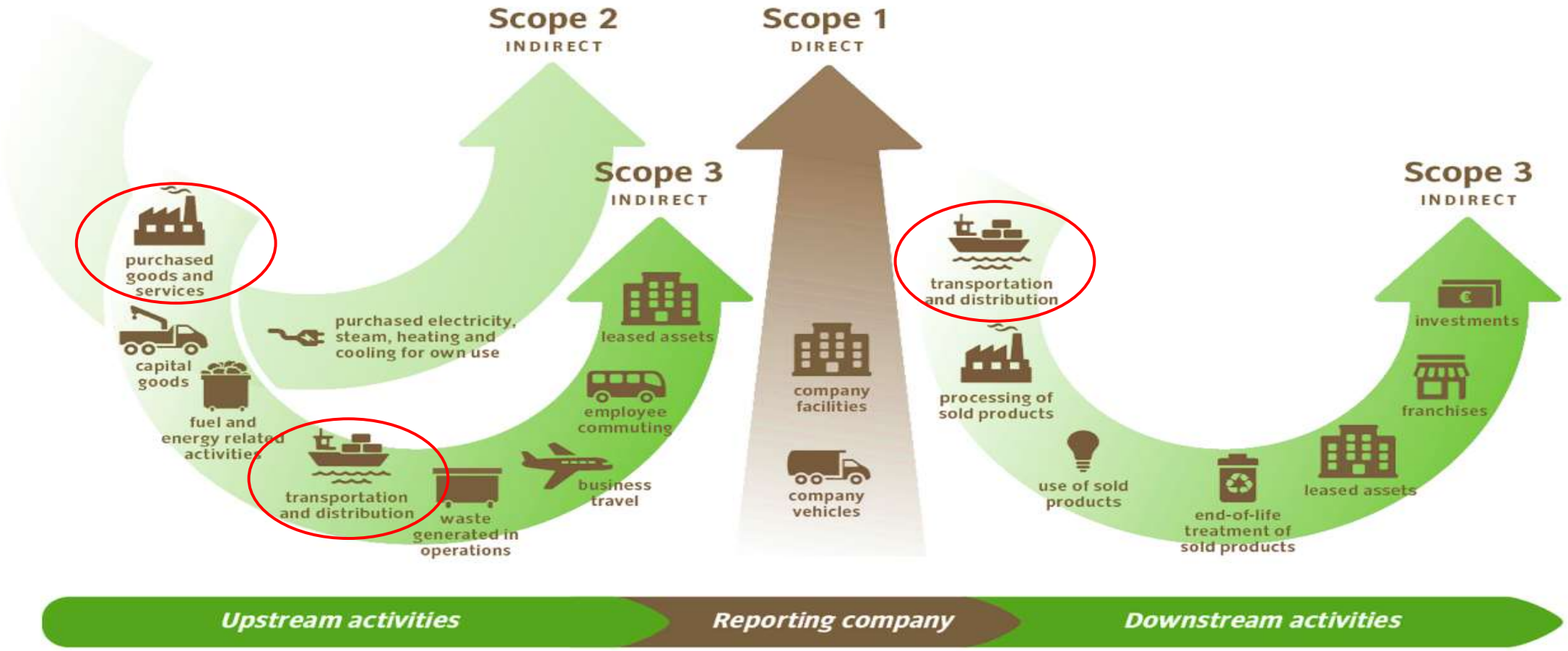
Data Quality Improvements

1. Industry should align to GHG protocol to report Scope 1 & Scope 2 emissions by all non-SME operators by 2023.
2. Set industry standard to compile full scope carbon footprints (inc. Scope 3) by 2025.

Emission Scopes and Data

TIMBER DEVELOPMENT UK

CO_2 CH_4 N_2O HFCs PFCs SF_6 NF_3



Source – Greenhouse Gas Protocol

Data Quality Improvements

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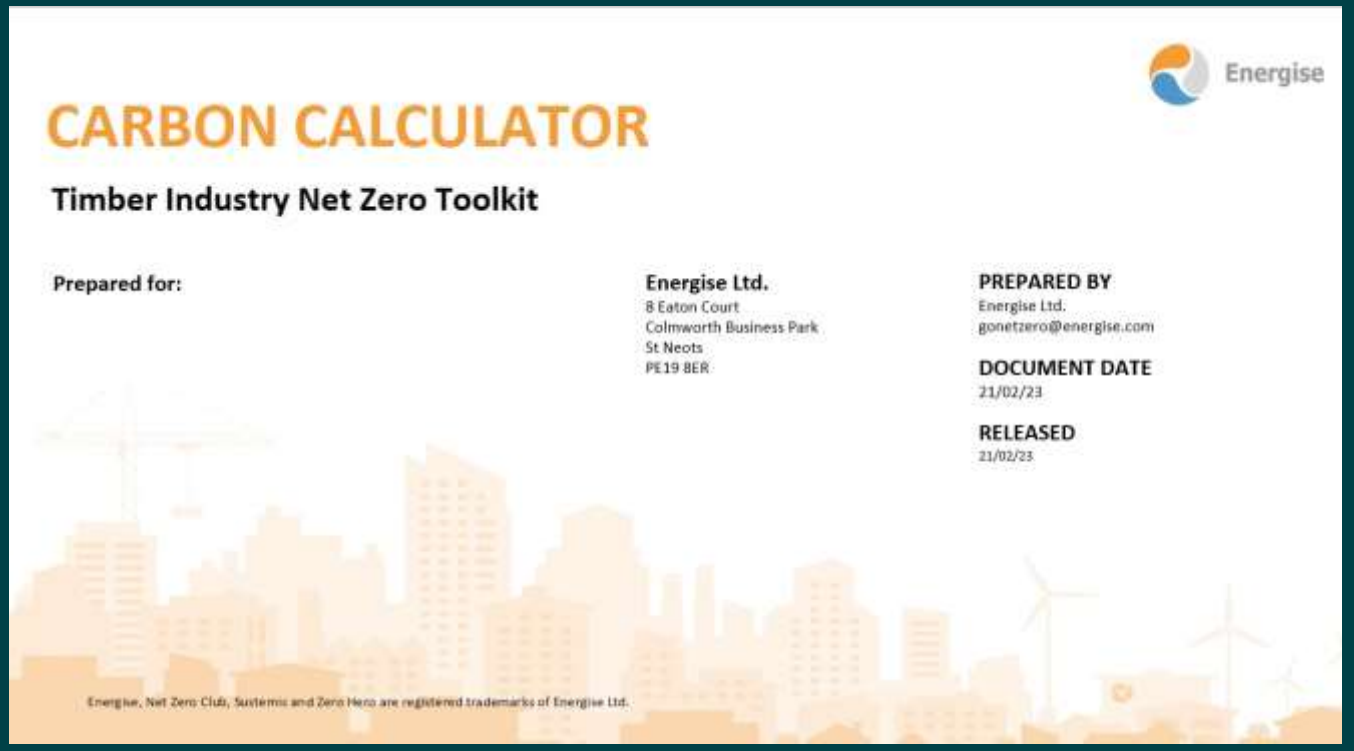


Data Quality Improvements

TIMBER DEVELOPMENT UK

Scope 1 – Fuel and/or Transport Miles

SCOPE 1 - DIRECT EMISSIONS (FUEL AND BIOMASS)

Guidance:
a) Enter annual data for each element below

Notes:
a) This tool assumes all calculations are on a Gross Calorific Value basis

Activity	Fuel	Unit	Total kg CO_2e per unit	Annual units	Total tCO_2e per year
Gaseous fuels	Butane	tonnes	3,033.32	-	-
		litres	1.75	-	-
		kWh (Gross CV)	0.22	-	-
	LPG	tonnes	2,939.29	-	-
		litres	1.56	-	-
		kWh (Gross CV)	0.21	-	-
	Natural gas	tonnes	2,539.25	-	-
		cubic metres	2.02	-	-
		kWh (Gross CV)	0.18	-	-
	Natural gas (100% mineral blend)	tonnes	2,559.17	-	-
		cubic metres	2.03	-	-
		kWh (Gross CV)	0.18	-	-
	Propane	tonnes	2,997.55	-	-
		litres	1.54	-	-
		kWh (Gross CV)	0.21	-	-
Liquid fuels	Burning oil	tonnes	3,165.01	-	-
		litres	2.54	-	-
		kWh (Gross CV)	0.25	-	-
	Diesel (average biofuel blend)	tonnes	3,032.89	-	-
		litres	2.56	-	-
		kWh (Gross CV)	0.24	-	-
	Gas oil	tonnes	3,230.28	-	-
		litres	2.76	-	-
		kWh (Gross CV)	0.26	-	-
	Petrol (average biofuel blend)	tonnes	2,903.08	-	-
		litres	2.16	-	-
		kWh (Gross CV)	0.23	-	-
	Petrol (100% mineral petrol)	tonnes	3,153.90	-	-
		litres	2.34	-	-
		kWh (Gross CV)	0.24	-	-

SCOPE 1 - DIRECT EMISSIONS (TRANSPORT)

Guidance:
a) Enter annual data for each element below

Notes:
a) This tool assumes all calculations are on a Gross Calorific Value basis
b) Note if the fuel for the respective mileage has been included on the "Scope 1 (Fuel and Biomass)" tab, please do not include here

Activity	Type	Unit	Total kg CO_2e per unit	Annual units	Total tCO_2e per year
Cars - Diesel	Small car	km	0.13989	-	-
		miles	0.22514	-	-
	Medium car	km	0.16800	-	-
		miles	0.27039	-	-
	Large car	km	0.20953	-	-
		miles	0.33722	-	-
	Average car	km	0.17082	-	-
		miles	0.27492	-	-
Cars - Petrol	Small car	km	0.14652	-	-
		miles	0.23580	-	-
	Medium car	km	0.18470	-	-
		miles	0.29724	-	-
	Large car	km	0.27639	-	-
		miles	0.44480	-	-
	Average car	km	0.17048	-	-
		miles	0.27436	-	-
Cars - Hybrid	Small car	km	0.10332	-	-
		miles	0.16628	-	-
	Medium car	km	0.10999	-	-
		miles	0.17702	-	-
	Large car	km	0.15491	-	-
		miles	0.24929	-	-
	Average car	km	0.12004	-	-
		miles	0.19318	-	-
Cars - Hybrid Electric	Small car	km	0.02216	-	-
		miles	0.03567	-	-
	Medium car	km	0.06475	-	-
		miles	0.10421	-	-
	Large car	km	0.07410	-	-
		miles	0.11924	-	-

Data Quality Improvements

Scope 2 – Purchased Energy

SCOPE 2 - PURCHASED ENERGY

Guidance:

a) Enter annual data for each element below

Notes:

a) This tool assumes all calculations are on a Gross Calorific Value basis

Activity	Energy	Unit	Total kg CO_2e per unit	Annual units	Total tCO_2e per year
Electricity generated	Electricity: UK	kWh	0.1934	-	-

Activity	Type	Unit	Total kg CO_2e per unit	Annual units	Total tCO_2e per year
Heat and steam	Onsite heat and steam	kWh	0.17073	-	-
	District heat and steam	kWh	0.17073	-	-

Data Quality Improvements

TIMBER DEVELOPMENT UK

Scope 3 – Third Party Logistics & Purchased Goods and Services

SCOPE 3 - TRANSPORTATION AND DISTRIBUTION

Guidance:
a) Enter annual data for each element below

Notes:
a) This tool assumes all calculations are on a Gross Calorific Value basis
b) a tonne.km is the total tonnage moved multiplied by the km distance travelled

Activity	Description	Unit	Total kg CO_2e per unit	Annual units	Total tCO_2e per year
Freighting goods	Sea tanker - Crude tanker	tonne.km	0.004572	-	-
	Sea tanker - Products tanker	tonne.km	0.009034	-	-
	Sea tanker - Chemical tanker	tonne.km	0.010322	-	-
	Sea tanker - LNG tanker	tonne.km	0.011548	-	-
	Sea tanker - LPG Tanker	tonne.km	0.010382	-	-
	Cargo ship - Bulk carrier	tonne.km	0.003539	-	-
	Cargo ship - General cargo	tonne.km	0.013232	-	-
	Cargo ship - Container ship	tonne.km	0.016142	-	-
	Cargo ship - Vehicle transport	tonne.km	0.038579	-	-
	Cargo ship - RoRo-Ferry	tonne.km	0.051659	-	-
	Cargo ship - Large RoPax ferry	tonne.km	0.37667	-	-
	Rail - Freight train	tonne.km	0.02782	-	-
	Vans - Average (up to 3.5 tonnes)	tonne.km	0.57871	-	-
	HGV - Average	tonne.km	0.10614	-	-

SCOPE 3 - PURCHASED GOODS AND SERVICES

Guidance:
a) Enter annual data for each element below

Notes:
a) This tool assumes all calculations are on a Gross Calorific Value basis

Activity	Unit	Total kg CO_2e per unit	Annual units	Total tCO_2e per year
Accountancy services	£ expenditure (exc. taxes)	0.088889	-	-
Advertising	£ expenditure (exc. taxes)	0.103704	-	-
Agricultural machinery	£ expenditure (exc. taxes)	0.669995	-	-
Agricultural produce	£ expenditure (exc. taxes)	2.479345	-	-
Air transport	£ expenditure (exc. taxes)	3.400000	-	-
Ancillary Transport services	£ expenditure (exc. taxes)	0.207407	-	-
Architectural activities & technical consultancy	£ expenditure (exc. taxes)	0.111111	-	-
Articles of concrete, stone	£ expenditure (exc. taxes)	1.092508	-	-
Auxilary financial serivices	£ expenditure (exc. taxes)	0.111111	-	-
Banking & finance	£ expenditure (exc. taxes)	0.118519	-	-
Cement, lime and plaster	£ expenditure (exc. taxes)	6.339274	-	-
Computer services	£ expenditure (exc. taxes)	0.081481	-	-
Construction	£ expenditure (exc. taxes)	0.281481	-	-
Cutlery, tools, etc	£ expenditure (exc. taxes)	0.619002	-	-
Domestic appliances	£ expenditure (exc. taxes)	0.689562	-	-
Electric motors, generators, etc	£ expenditure (exc. taxes)	0.567130	-	-
Electricity production & distribution	£ expenditure (exc. taxes)	4.533333	-	-
Electronic components	£ expenditure (exc. taxes)	0.433488	-	-
Fertilisers	£ expenditure (exc. taxes)	4.407432	-	-
Forestry Produce	£ expenditure (exc. taxes)	0.464593	-	-
Furniture	£ expenditure (exc. taxes)	0.620513	-	-
Gas distribution	£ expenditure (exc. taxes)	1.222222	-	-
General purpose machinery	£ expenditure (exc. taxes)	0.585580	-	-
Inorganic chemicals	£ expenditure (exc. taxes)	2.044691	-	-
Insulated wire & cable	£ expenditure (exc. taxes)	1.337556	-	-
Insurance & pension fund	£ expenditure (exc. taxes)	0.162963	-	-
Iron and steel	£ expenditure (exc. taxes)	2.956654	-	-
Legal activites	£ expenditure (exc. taxes)	0.074074	-	-
Lettings and dwellings	£ expenditure (exc. taxes)	0.005185	-	-
Machine tools	£ expenditure (exc. taxes)	0.546893	-	-
Market research, management consultancy	£ expenditure (exc. taxes)	0.103704	-	-

Data Quality Improvements

Scope 3 – Business Travel & Commuting

SCOPE 3 - BUSINESS TRAVEL

Guidance:
a) Enter annual data for each element below

Notes:
a) This tool assumes all calculations are on a Gross Calorific Value basis

Activity	Type	Unit	Total kg CO_2e per unit	Annual units	Total tCO_2e per year
Cars - Hybrid Electric	Small car	km	0.02216	-	-
		miles	0.03567	-	-
	Medium car	km	0.06475	-	-
		miles	0.10421	-	-
	Large car	km	0.07410	-	-
		miles	0.11924	-	-
	Average car	km	0.06840	-	-
		miles	0.11007	-	-
Cars - Battery Electric Vehicle	Small car	km	-	-	-
		miles	-	-	-
	Medium car	km	-	-	-
		miles	-	-	-
	Large car	km	-	-	-
		miles	-	-	-
	Average car	km	-	-	-
		miles	-	-	-
Taxis	Regular taxi	passenger.km	0.14876	-	-
		km	0.20826	-	-
	Black cab	passenger.km	0.20416	-	-
		km	0.30624	-	-
Bus	Local bus (not London)	passenger.km	0.10778	-	-
	Local London bus	passenger.km	0.07936	-	-
	Average local bus	passenger.km	0.09650	-	-
	Coach	passenger.km	0.02733	-	-
Rail	National rail	passenger.km	0.03549	-	-
	International rail	passenger.km	0.00446	-	-
	Light rail and tram	passenger.km	0.02861	-	-
	London Underground	passenger.km	0.02781	-	-
Flights	Domestic, to/from UK - Average passenger	passenger.km	0.24587	-	-
	Short-haul, to/from UK - Average passenger	passenger.km	0.15353	-	-
	Long-haul, to/from UK - Average passenger	passenger.km	0.19309	-	-

SCOPE 3 - EMPLOYEE COMMUTING

Guidance:
a) Enter annual data for each element below

Notes:
a) This tool assumes all calculations are on a Gross Calorific Value basis

Region	Total tCO_2e per unit	# of employees based in region (FTE)	Total tCO_2e per year
Central London	0.118	-	-
East Midlands	0.770	-	-
East of England	0.747	-	-
North East	0.755	-	-
North West	0.729	-	-
Outer London	0.586	-	-
Rest of Inner London	0.206	-	-
Scotland	0.674	-	-
South East	0.708	-	-
South West	0.692	-	-
Wales	0.765	-	-
West Midlands	0.771	-	-
Yorkshire and Humber	0.700	-	-
Homeworking (office equipment + heating)	0.664	-	-

Data Quality Improvements

Summary

TIMBER DEVELOPMENT UK	
CARBON FOOTPRINT CALCULATOR	
TOTAL EMISSIONS PER YEAR	
	6,142.07
Scope 1	**72.33**
Fuel and biomass	18.25
Transport	54.08
Fugitive and process emissions	-
Scope 2	**19.34**
Energy	19.34
Scope 3	**6,050.40**
Purchasing	8.89
Capital goods	5,933.45
Waste and water	4.41
Business travel	4.17
Employee commuting	14.57
Logistics	84.91

Timber Industry Reporting Portal

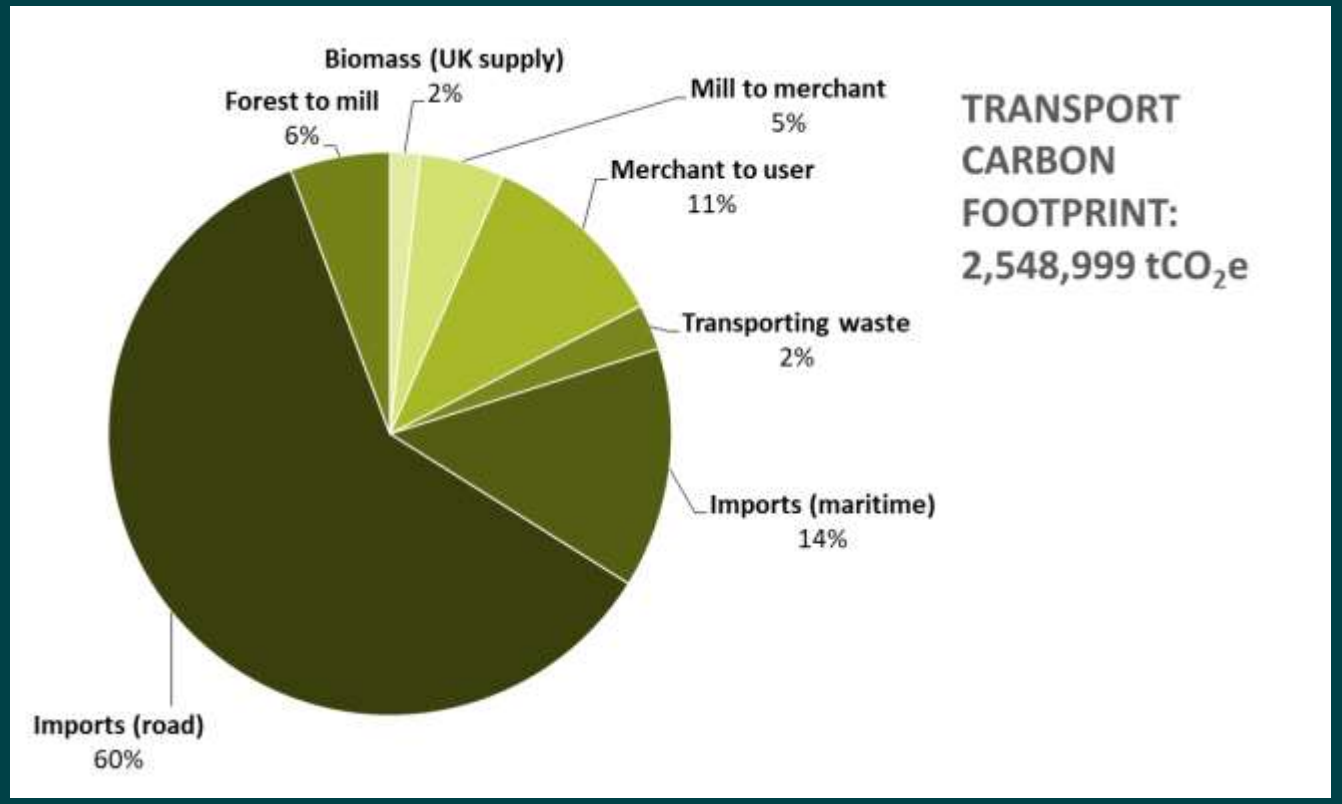
Data Quality Improvements

Data Verification - Optional

Carbon Disclosure Project

Transport Emissions

3. Reduce road going transport emissions intensity by 25% by 2030, and 50% by 2035.
6. Reduce Scope 1 & 2 carbon intensity of the industry by 90% by 2045.
7. Reduce Scope 3 carbon intensity of the industry by 90% by 2050.



Transport Emission Reductions - Now

3. Reduce road going transport emissions intensity by 25% by 2030, and 50% by 2035.
6. Reduce Scope 1 & 2 carbon intensity of the industry by 90% by 2045.
7. Reduce Scope 3 carbon intensity of the industry by 90% by 2050.

Typical Energy Savings (as a % of total usage)	Cars	Truck
Tyre Replacement to A class	1.67%	2.65%
Tyre optimal inflation pressure	3%-5%	3%-5%
Driver style (training)	5-10%	5-10%
Reduce idle time	2%	2%
Aerodynamics (Cab roof deflectors, air dams, cab sun visors, cab side-edge turning vanes)		5%-10%
Wheel alignment	2.00%	4.50%
Turn off air conditioning	1%-10%	1%-10%

Table 3. Operational savings in an HGV

Up to 30% reductions with efficiency improvements and route optimisation.

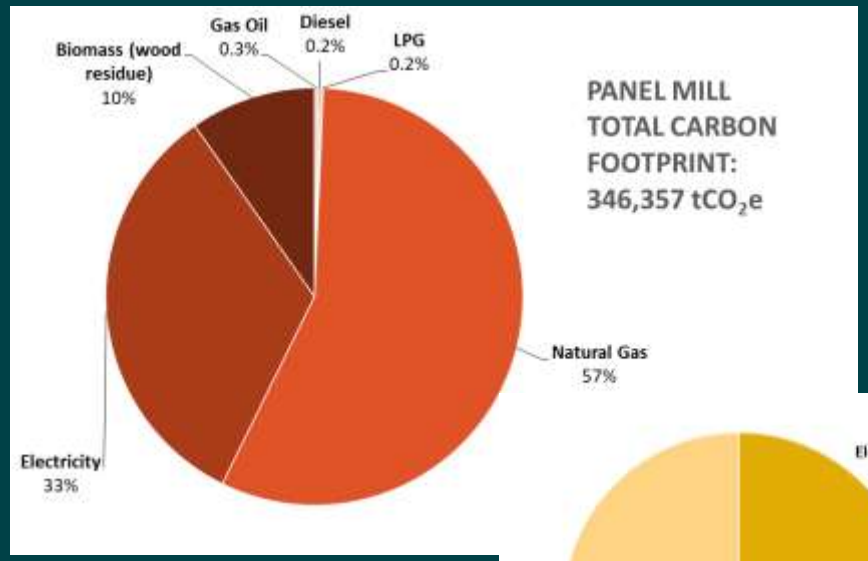
Transport Emission Reductions - Future

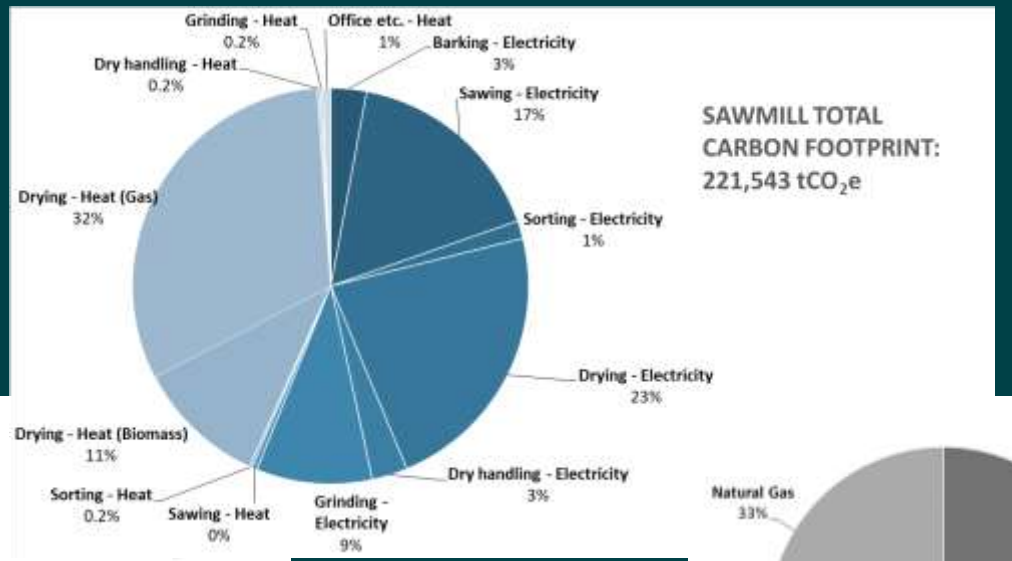
3. Reduce road going transport emissions intensity by 25% by 2030, and 50% by 2035.
6. Reduce Scope 1 & 2 carbon intensity of the industry by 90% by 2045.
7. Reduce Scope 3 carbon intensity of the industry by 90% by 2050.

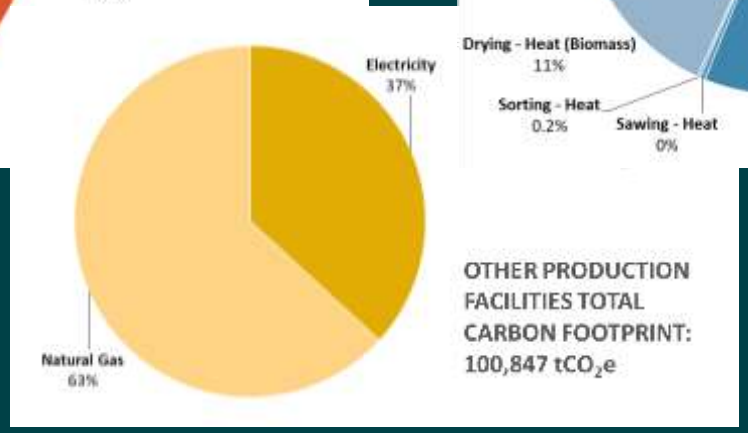
Zero emission Electric (or hydrogen?) powered trucks by 2030

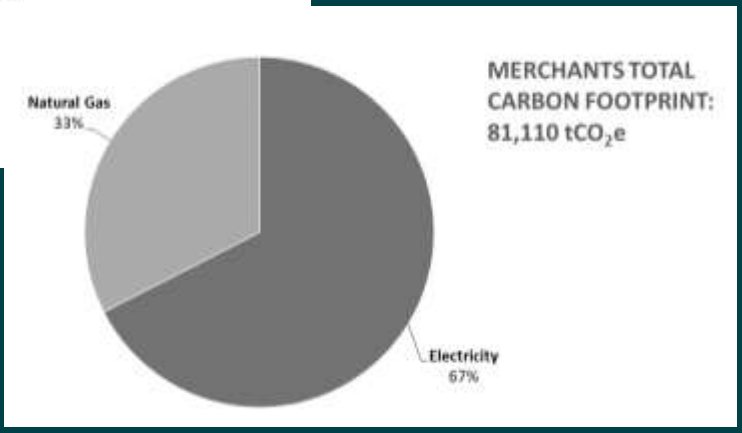
Processing Emissions

4. Reduce processing/manufacturing emissions intensity by 50% by 2030.
6. Reduce Scope 1 & 2 carbon intensity of the industry by 90% by 2045.
7. Reduce Scope 3 carbon intensity of the industry by 90% by 2050.









Processing Emission Reductions

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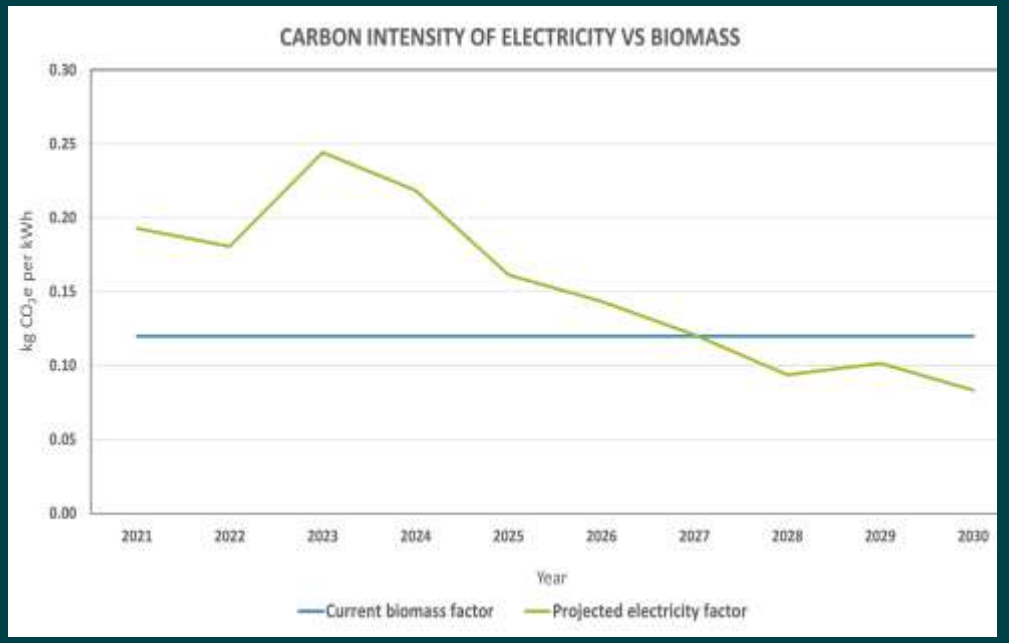

Energy efficiency improvements along with transition away from natural gas to biomass and/or electric for heat (drying and space heating).

Forestry Emissions

5. Reduce forestry emissions intensity by 50% by 2040.
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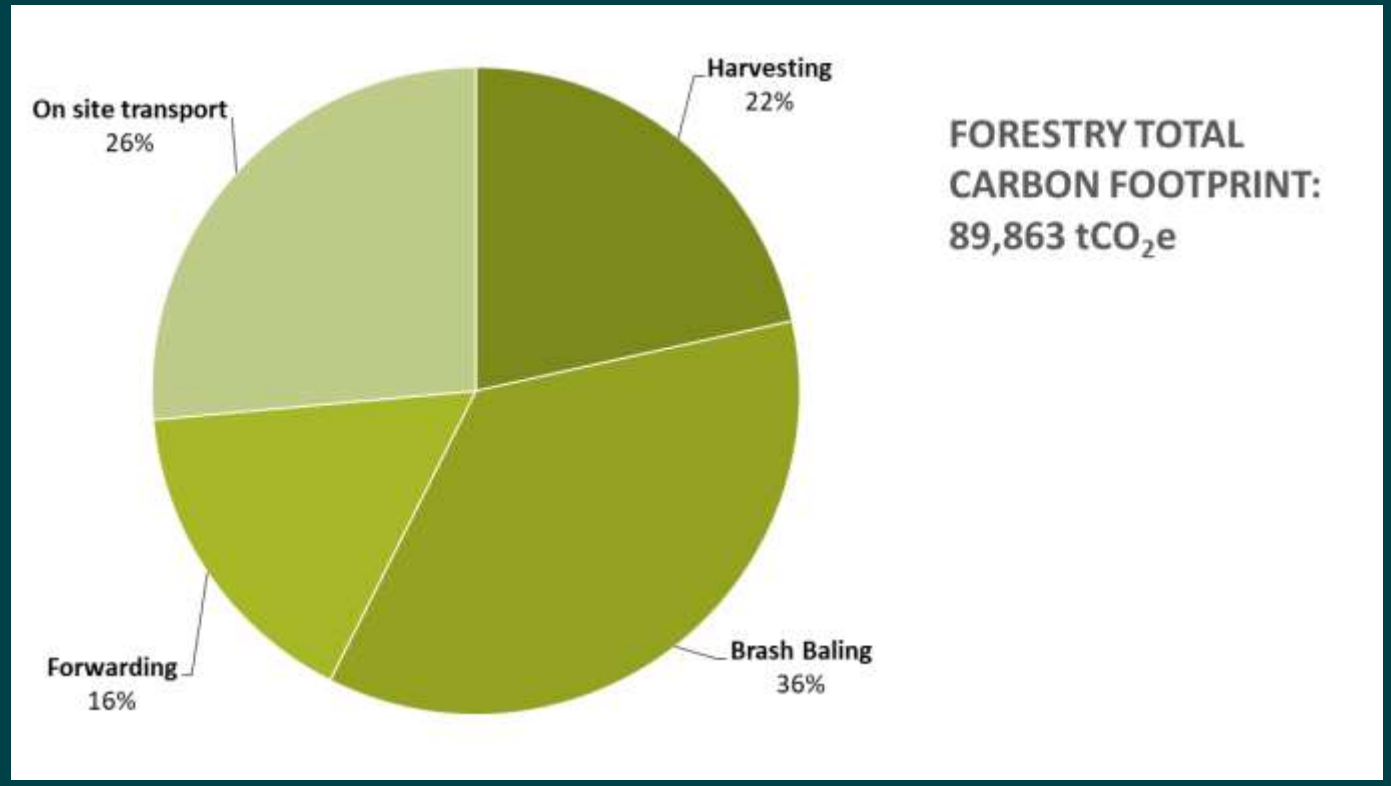
7. Reduce Scope 3 carbon intensity of the industry by 90% by 2050.



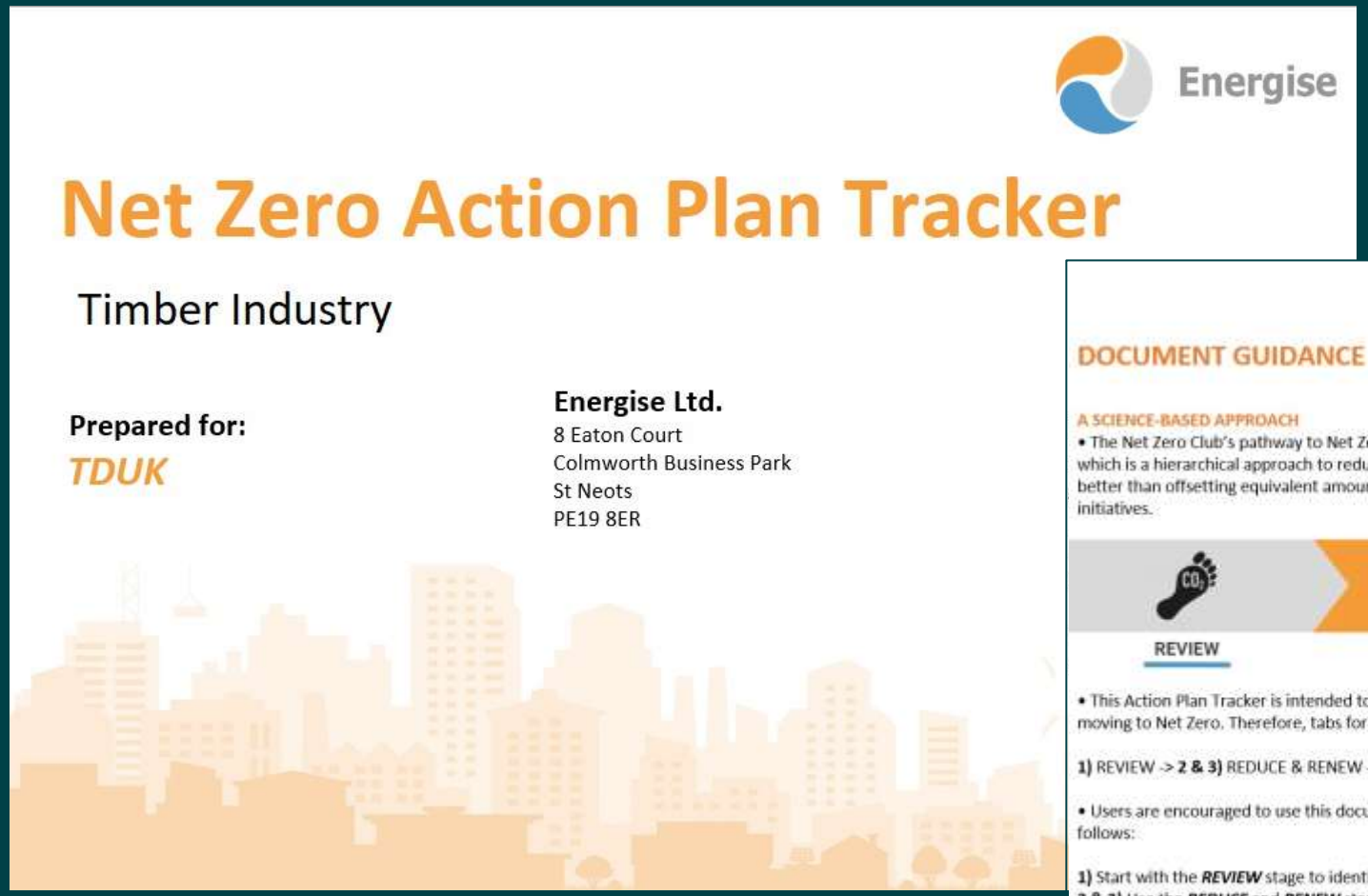
Forestry Emission Reductions

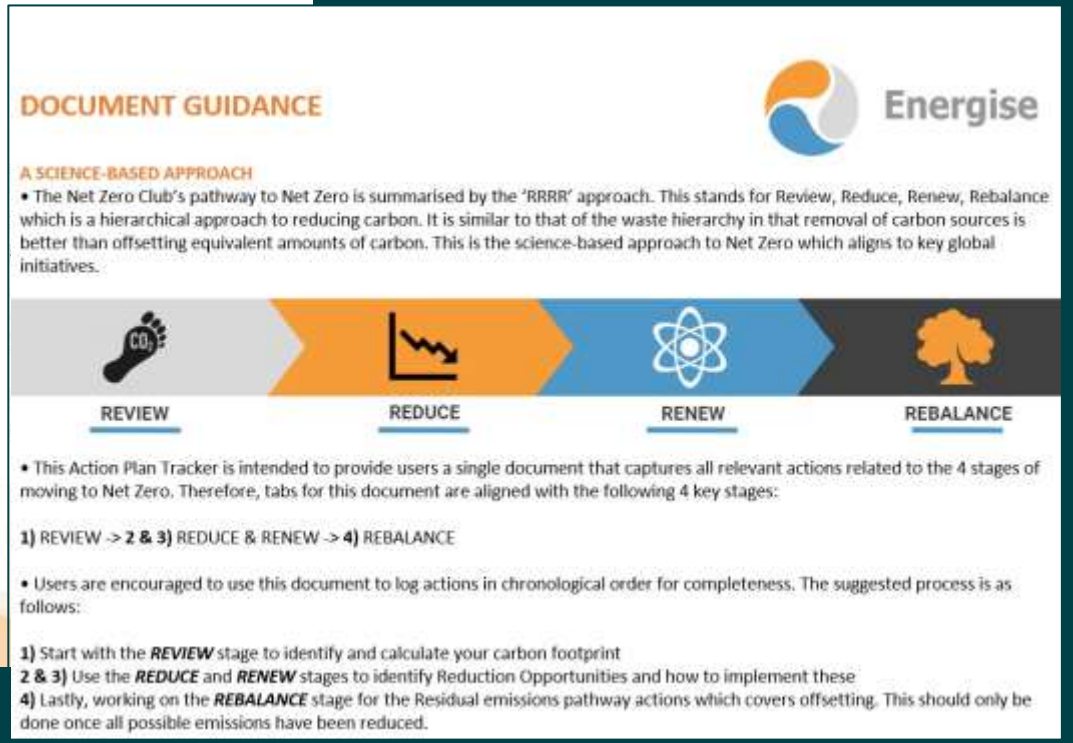
5. Reduce forestry emissions intensity by 50% by 2040.
6. Reduce Scope 1 & 2 carbon intensity of the industry by 90% by 2045.
7. Reduce Scope 3 carbon intensity of the industry by 90% by 2050.

Transition away from diesel to hydrogen powered forestry plant

Action Plan Tracker

Introduction





Action Plan Tracker

TIMBER DEVELOPMENT UK

Reduction Opportunities

Opp. No.	Category	High level measure	EPD stage	Action timeframe/economic viab[illegible]	Cost Range (per site/vehi[illegible]	Payback Range (per site/vehi[illegible]	Tick relevant op[illegible]	Priority
1	Transportation (road - car)	Carpooling	A2,A4	Available immediately	Very small	Quick		
2	Transportation (road - car)	Electric cars	A2,A4	Available immediately	Medium	Short term		
3	Transportation (road - car)	Tyre management	A2,A4	Available immediately	Very small	Quick		
4	Transportation (road - car)	Load management	A2,A4	Available immediately	Very small	Quick		
5	Transportation (road - car)	Monitoring/optimisation of performance (inc. telematics and route optimisation software)	A2,A4	Available immediately	Very small	Immediate		
6	Transportation (road - car)	Behaviour change	A2,A4	Available immediately	Very small	Immediate		
7	Transportation (road - LCV)	Electric LCVs	A2,A4	Available immediately	Large	Short term		
8	Transportation (road - LCV)	Aerodynamics	A2,A4	Available immediately	Small	Quick		
9	Transportation (road - LCV)	Tyre management	A2,A4	Available immediately	Small	Quick		
10	Transportation (road - LCV)	Load management	A2,A4	Available immediately	Small	Quick		
11	Transportation (road - LCV)	Monitoring/optimisation of performance (inc. telematics and route optimisation software)	A2,A4	Available immediately	Small	Immediate		
12	Transportation (road - LCV)	Behaviour change	A2,A4	Available immediately	Small	Immediate		
13	Transportation (road - HGV)	Efficient trucks	A2,A4	Available immediately	Small	Quick		
14	Transportation (road - HGV)	Electric HGVs						
15	Transportation (road - HGV)	Hydrogen HGVs						
16	Transportation (road - HGV)	Aerodynamics						
17	Transportation (road - HGV)	Tyre management						
18	Transportation (road - HGV)	Load management						
19	Transportation (road - HGV)	Monitoring/optimisation of telematics and route optim						
20	Transportation (road - HGV)	Behaviour change						
21	Transportation (offroad - mobile plant)	Alternative fuels (inc. hydr						
22	Transportation (offroad - mobile plant)	Fuel additives						
23	Transportation (offroad - mobile plant)	Tyre management						
24	Transportation (offroad - mobile plant)	Load management						

Reduction Opportunities Action Tracker

Status	Key	Percent
Overdue/not started		33%
In Progress		67%
Completed		0%
Total	3	

Date Started	Action Status	Category	High Level Measure	Action Required	R Responsible Person(s)	A Accountable Person	S Support Person(s)	C Consulted Person(s)	I Informed Person(s)	Due Date	Completion Date	Notes	Link to file
20/02/2023	Overdue/not started	Transportation (road - HGV)	Electric HGVs	Purchase of 15 Electric HGV's	AN Other	Person A	Person B Person C	Person D Person E	Person F	28/02/2023			
20/02/2023	In Progress	Transportation (road - HGV)	Electric HGVs	Consult with at least 5 suppliers	AN Other	Person A	Person B Person C	Person D Person E	Person F	24/02/2023			
20/02/2023	In Progress												

Action Plan Tracker

TIMBER DEVELOPMENT UK

Renew Opportunities

Opp. No.	Section	Category	End use	High level measure	Tick relevant opps.	Priority	Information source	Information URL
1	Emissions avoidance	Renewable energy	Renewable energy	See "Renewable energy, energy storage and flexibility" section (Opp. No. 38 onwards)				
15	Emissions avoidance	Planning and education	Reducing/avoiding plastics	Reducing/avoiding plastics			Project Drawdown	https://drawdown.org/solutions/reduced-plastics
16	Emissions avoidance	Planning and education	Walkable cities	Walkable cities			Project Drawdown	https://drawdown.org/solutions/walkable-cities
17	Emissions avoidance	Planning and education	Supplier engagement	Supplier engagement				
18	Emissions avoidance	Planning and education	Customer engagement	Customer engagement				
19	Emissions avoidance	Planning and education	Site consolidation/closure	Site consolidation/closure				
20	Emissions avoidance	Planning and education	Changes to procurement practices	Changes to procurement practices				
21	Emissions avoidance	Planning and education	Policy	Policy				
36	Emissions removal	Bioenergy with carbon capture and storage (BE	Bioenergy with carbon capture and storage (B	Chemical looping			IEA	https://www.iea.org/reports/about-ccus
38	Renewable energy, energy storage and flexibility	Net zero buildings (energy)	Net zero buildings (energy)	Net zero buildings (energy)			Project Drawdown	https://drawdown.org/solutions/net-zero-buildings
39	Renewable energy, energy storage and flexibility	Biomass production	Biomass production	Perennial biomass production			Project Drawdown	https://drawdown.org/solutions/perennial-biomass-production
40	Renewable energy, energy storage and flexibility	Fuel cell	Fuel cell	Fuel cell				
41	Renewable energy, energy storage and flexibility	Gas turbine	Gas turbine	Gas turbine				
42	Renewable energy, energy storage and flexibility	Gas turbine - combined cycle	Gas turbine - combined cycle	Gas turbine - combined cycle				
43	Renewable energy, energy storage and flexibility	Geothermal power	Geothermal power	Geothermal power			Project Drawdown	https://drawdown.org/solutions/geothermal-power
44	Renewable energy, energy storage and flexibility	Hydro turbine	Hydro turb					
45	Renewable energy, energy storage and flexibility	Hydro turbine	Hydro turb					
46	Renewable energy, energy storage and flexibility	Reciprocating engine	Reciprocat					
47	Renewable energy, energy storage and flexibility	Pumped hydro	Pumped h					
48	Renewable energy, energy storage and flexibility	Compressed air	Compresse					

Renew Opportunities Action Tracker

Status	Key	Percent
Overdue/not started	1	33%
In Progress	2	67%
Completed	0	0%
Total	3	

						R	A	S	C	I				
Date Started	Action Status	Section	Category	High Level Measure	Action Required	Responsible Person(s)	Accountable Person	Support Person(s)	Consulted Person(s)	Informed Person(s)	Due Date	Completion Date	Notes	Link to file
20/02/2023	In Progress	Emissions avoidance	Changes to agricultural prac	Regenerative agriculture		AN Other	Person A	Person B Person C	Person D Person E	Person F	28/02/2023			
20/02/2023	In Progress	Renewable energy, energy storage and flexibility	Net zero buildings (energy)	Net zero buildings (energy)		AN Other	Person A	Person B Person C	Person D Person E	Person F	28/02/2023			

Circular Economy Roadmap

8. The industry will develop a specific circularity/resource efficiency roadmap by 2024 to accelerate the activity in this key area.

Nature-Based Carbon Removals

TIMBER DEVELOPMENT UK

9. Nature-based solutions (combined with the above reductions) focused on (permanent?) carbon removals to be used for offsetting.

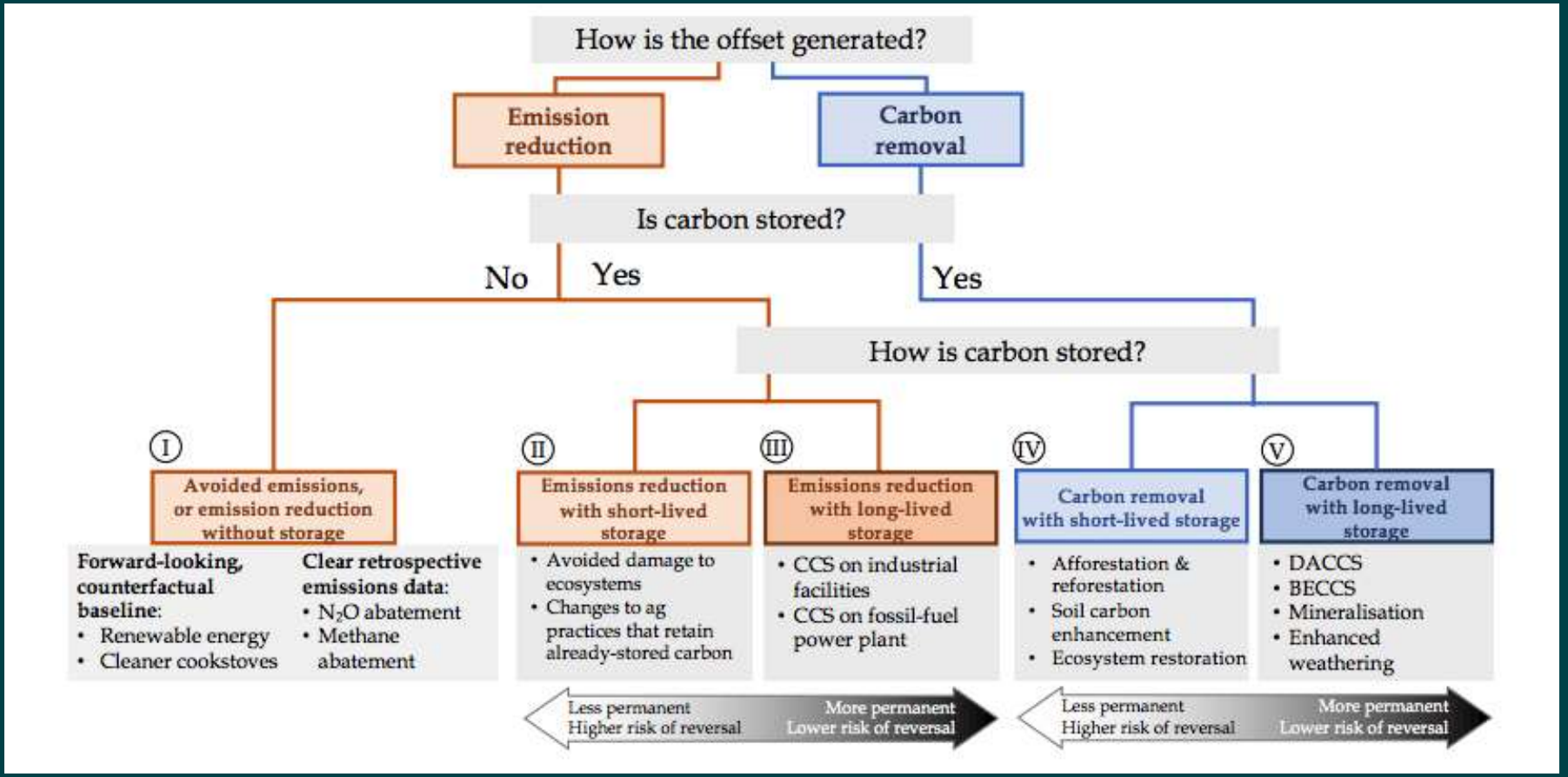


Image: Oxford Offsetting Principles

Nature-Based Carbon Removals

9. Nature-based solutions (combined with the above reductions) focused on (permanent?) carbon removals to be used for offsetting.

Photo: PEFC

Increasing Domestic Woodland & Production

10. The industry will support targets/initiatives to increase domestic production and expansion of the domestic woodland stock.

Net Zero Call to Action

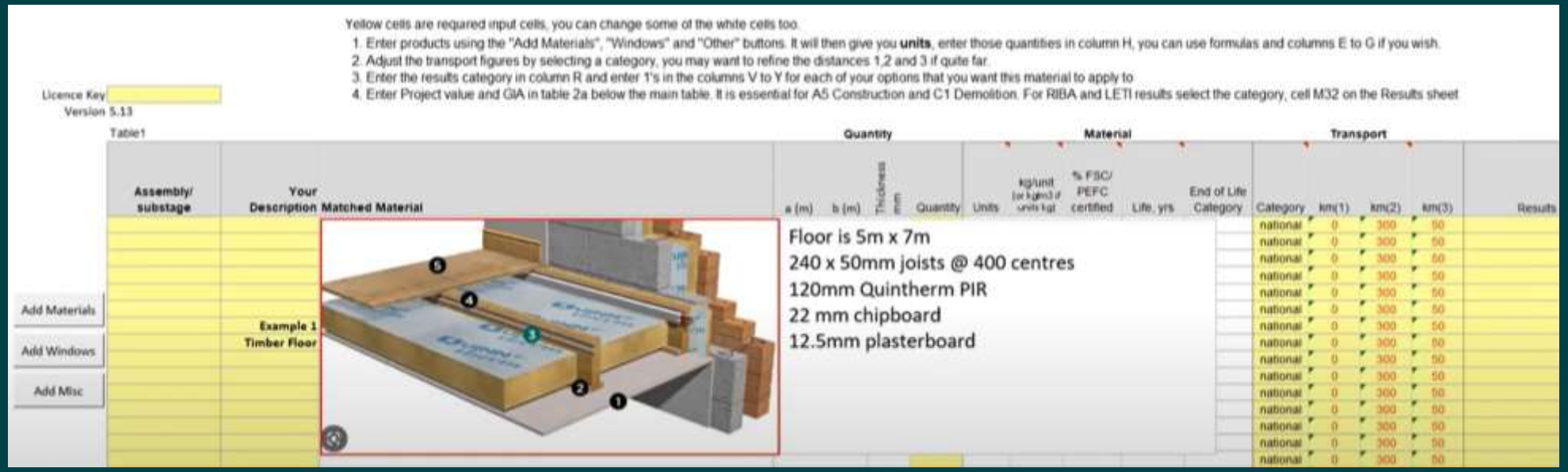
- Support the Timber Industry Net Zero Roadmap.
- Timber industry members to consider signing up to the SME Climate Hub Net Zero by 2050 Commitment, or equivalent, and join the Race to Zero (Recommendations 3-7).
- Timber industry members to improve reporting of Scope 1 & 2 emissions by end of 2023, and Scope 3 by end of 2025 (Recommendations 1-2).
- Implement relevant emission reduction opportunities identified in the Roadmap. These will save carbon and reduce cost over time (Recommendations 3-7).
- Incorporate Circular Economy design principles to ensure optimum resource efficiency, long life, and end of life reuse (Recommendations 8).
- After all reduction measures have been exhausted, use nature based 'Carbon Removal' offsets (e.g. tree planting) for residual carbon emissions (Recommendations 9-10).

One Click LCA EPD Generator

- Will allow members to produce their own Environmental Product Declarations (EPDs)
- TDUK May provide discounted access to members based on use of 1 day per week for circa 4 months
- Expression of interest form here: Member survey on One Click LCA's EPD Generator Tool : TDUK (timberdevelopment.uk)
- Training video can be found here: Learn about the One Click LCA Tool - YouTube

AECB Carbon Calculator

- Allows members to build up a carbon calculation for an ‘Assembly’
- Will require data from your Scope 1 & 2 measurement
- TDUK to provide discounted access to members (15%)
- Tool can be found here: AECB Embodied Carbon Calculator - stand-alone version (and first year's subscription) – AECB
- Training video can be found here: Carbon Calculator AECB Webinar - YouTube



EPD Database Project

- Create a database of all available EPDs for timber products used in the UK
- Assist SMEs to produce a shared EPD for products where no EPDs currently exist:
  - UK/European Hardwood
  - Treated softwood
  - Non-European plywood
- Access to One Click LCA EPD Generator Software at reduced cost
- Support from carbon expert to produce EPD

Questions


TIMBER
DEVELOPMENT
UK


ASBP
The Alliance
for Sustainable
Building Products


bwf
BRITISH
WOODWORKING
FEDERATION


Confor
Promoting forestry and wood


wra
Wood
Recyclers
Association


TIMBER
DEVELOPMENT
UK


NMBS
STRENGTHENING
INDEPENDENTS


WPA
Wood Protection
Association


STA
STRUCTURAL
TIMBER
ASSOCIATION


WOOD
PANEL
INDUSTRIES
FEDERATION


TRA


tdca
TIMBER DECKING AND
CLADDING ASSOCIATION


timcon
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Thank You