

NET ZERO

ZERO TO HERO

Taking advantage of the Zero Emission economy



HOW FAST WILL THINGS CHANGE?



There may be a lot of Blah Blah, Blah, but

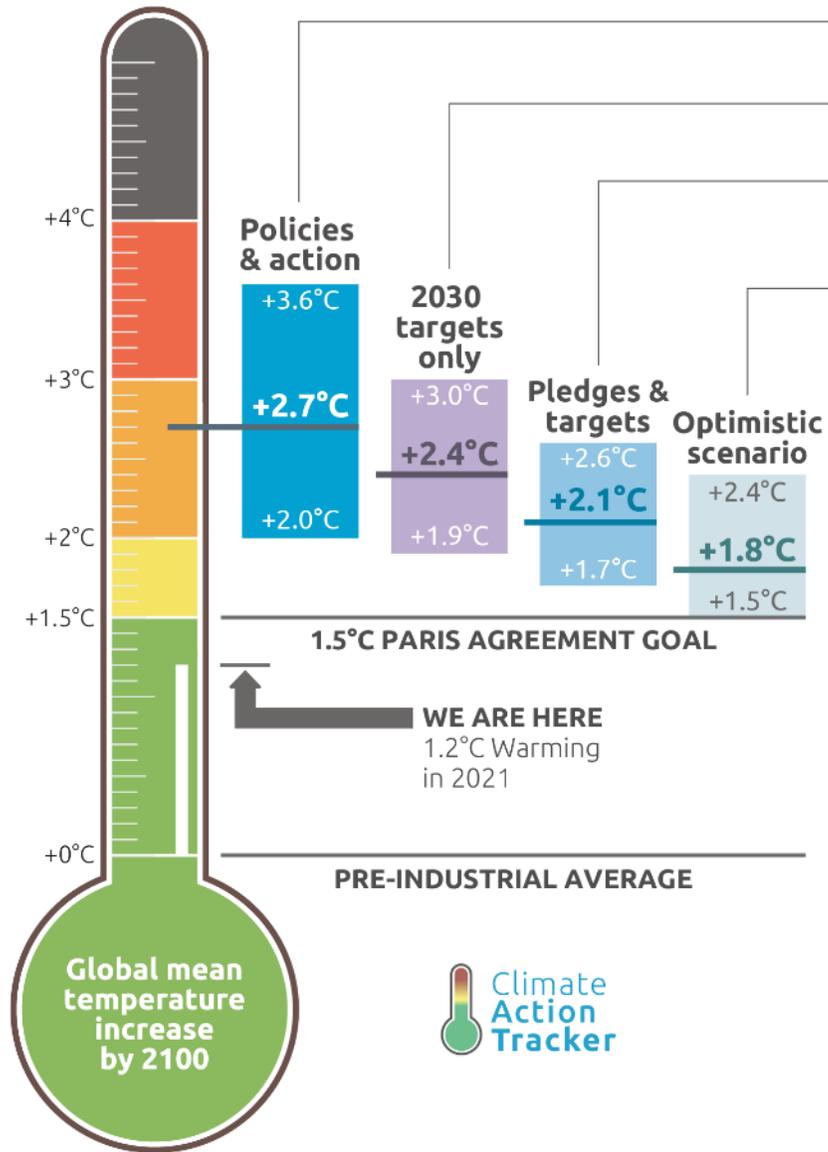
- ⚡ If you haven't started to change
- ⚡ You are already late

COP26 aimed to secure more ambitious action from the nearly 200 countries that signed the 2015 Paris Agreement to limit global warming to well below 2.0 degrees Celsius - and preferably to 1.5C - above pre-industrial levels

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Policies & action

Real world action based on current policies

2030 targets only

Full implementation of 2030 NDC targets*

Pledges & targets

Full implementation of submitted and binding long-term targets and 2030 NDC targets*

Optimistic scenario

Best case scenario and assumes full implementation of all **announced** targets including net zero targets, LTs and NDCs*

* If 2030 NDC targets are weaker than projected emissions levels under policies & action, we use levels from policy & action

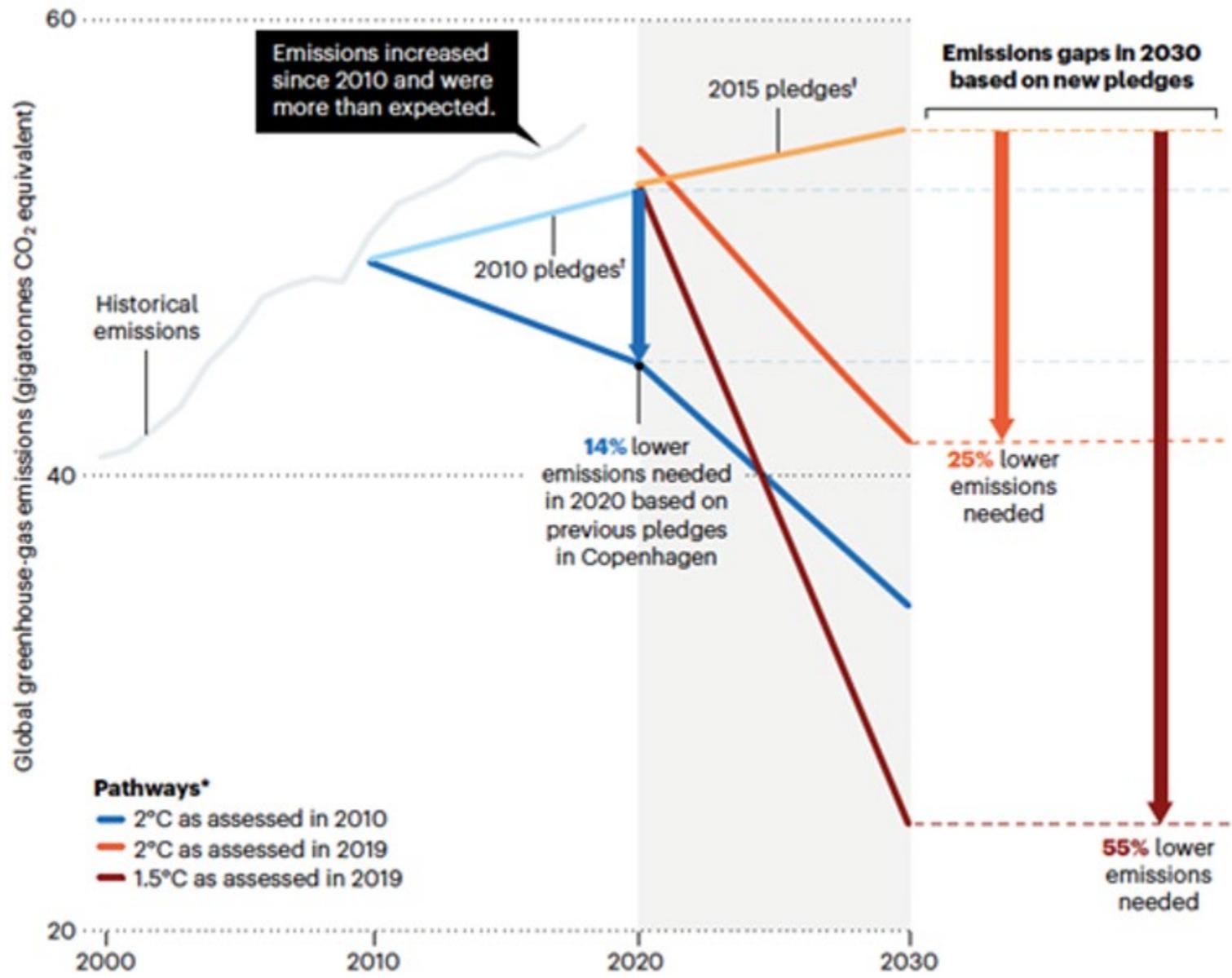
CAT warming projections Global temperature increase by 2100

November 2021 Update

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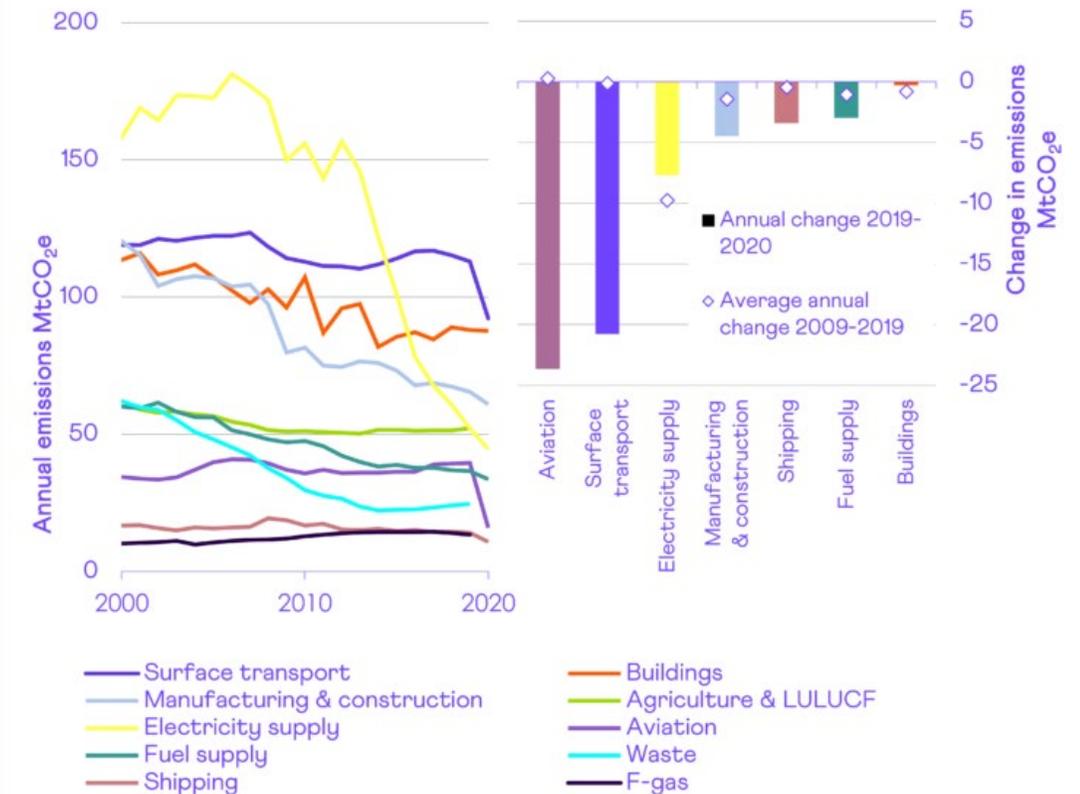
BUT THE UK IS ALREADY MORE COMMITTED – ISN'T IT?

Yes the UK has some of the most aggressive targets, BUT from the CCC Progress Report to Parliament (June 2021)

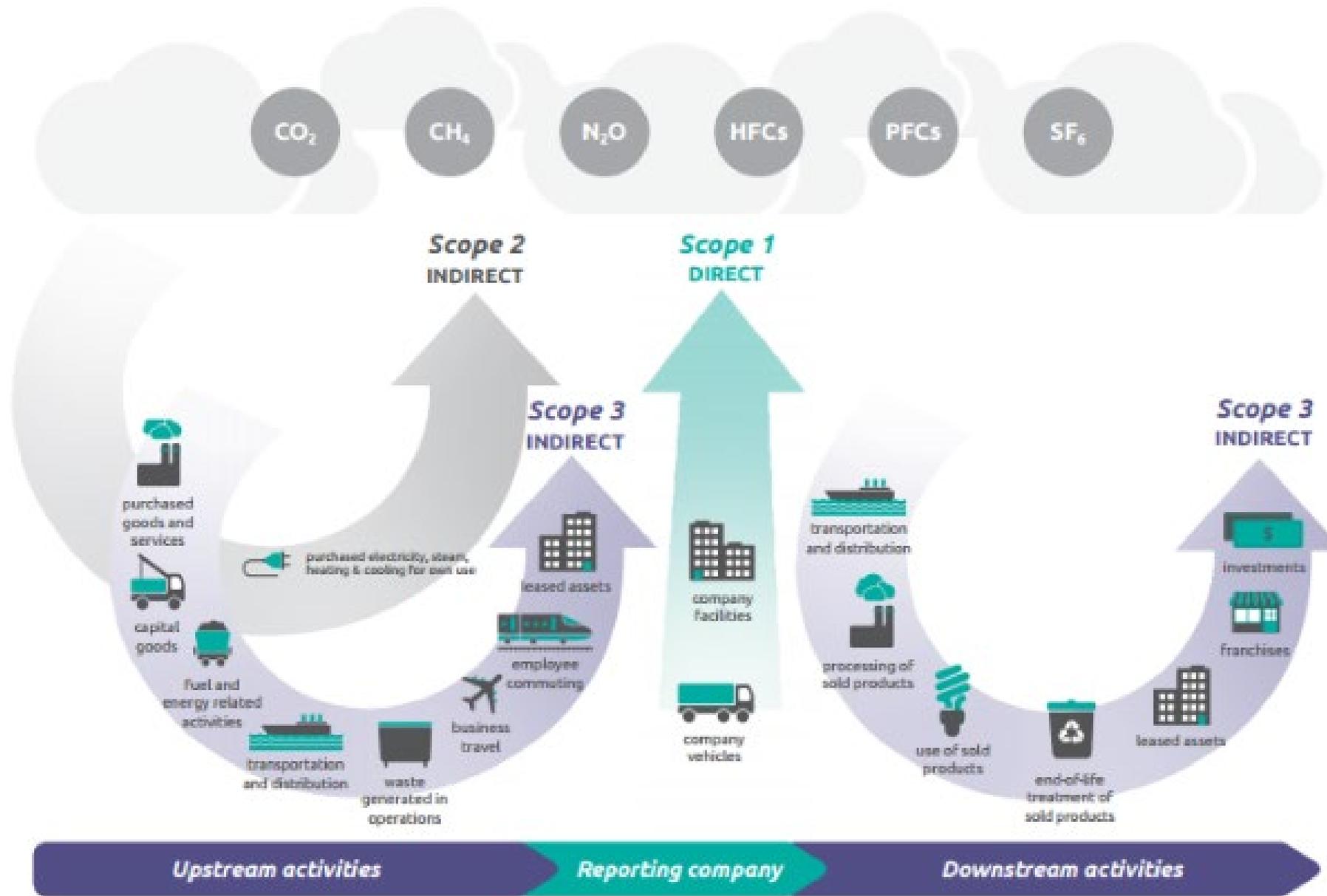
Just **5 of 34** sectors assessed have shown notable progress

No sector is scoring highly in lowering its risk

Figure 1 Changes in UK emissions by sector



Source: BEIS (2021) 2020 UK Greenhouse Gas Emissions, Provisional Figures.
Notes: LULUCF = Land use, land-use change and forestry. Estimates of emissions for sectors with large proportions of non-CO₂ emissions are not shown on the right-hand chart. Final estimates of 2020 emissions in these sectors will be published in early 2022. The sectoral emissions for aviation and shipping include the UK's share of international aviation and shipping emissions, and are CCC estimates.



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Willmott Dixon gets £50m green bank loan

Grant Prior 5 months ago



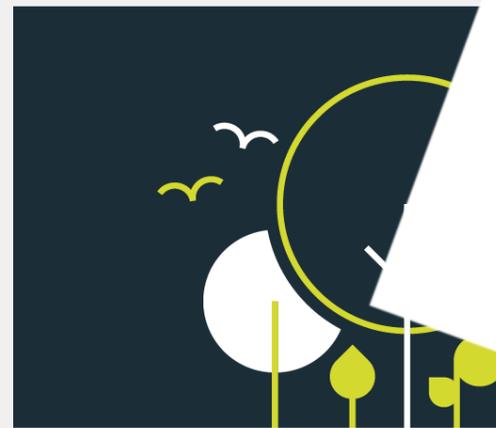
Willmott Dixon has secured a sustainability-linked facility of £50m in a deal led by HSBC. Interest rates on the loan go up or down depending on the company's performance based on the Loan Market Association's 'Sustainability-linked Loan Principles'. HSBC said: "The facility will have a margin linked to Willmott Dixon's sustainability targets and provide liquidity for general corporate purposes."

Balfour Beatty

How we work Expertise Sectors Projects Sustainability Health and safety

- Sustainability
- Beyond Net Zero Carbon
- Generate Zero Waste
- Positively Impact More Than 1 Million People
- COP26
- Governance
- Promoting sustainable outcomes
- Materiality assessment
- Sustainability in the UK

Beyond Net Zero Carbon



<p>2030 target Achieve our science based carbon reduction target³</p>	<p>Measurement Scope 1, 2 and 3 emissions</p>	<p>Primary UN Sustainability Development Goal</p> 
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Perspectives Going carbon neutral by 2022

03.12.18



This article was originally published in 2018, and since then Mace has pushed forward our ambitions on reducing carbon emissions. In January 2020, we announced that we would be Net Carbon Zero by the end of the year. To find out more about our new commitment, please [click here](#).

3 min read

Severfield signs up to SteelZero

🕒 23 Apr Structural steelwork contractor Severfield has joined the ranks of companies trying to encourage steel mills to go green.



WHERE ARE YOU NOW?

Do you, as a business ?

- ⚡ Measure Scope 1, 2 & 3 emissions
- ⚡ Understand Embedded Carbon
- ⚡ Purchase based on LCA of the product
- ⚡ Understand recycling of your purchases
- ⚡ Provide your customers with information so they can measure their emissions
- ⚡ Cost in the penalties on your P&L for NOT making a change
- ⚡ Have a plan to be accredited for your carbon output and record keeping

Every single one of these points should be happening in your business today.

If not then you need to adopt this approach rapidly to avoid excessive cost in the future.

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WHAT DOES IT
MEAN FOR YOU,
RIGHT NOW?



RENTAL RATES ARE UNDER PRESSURE

ONS Construction report Oct 2021

Materials have increased in price
Labour has increased in price
Output prices have increased

RENTAL RATES ?



Figure 8: Rental and leasing services of construction and civil engineering machinery and equipment annual growth rates

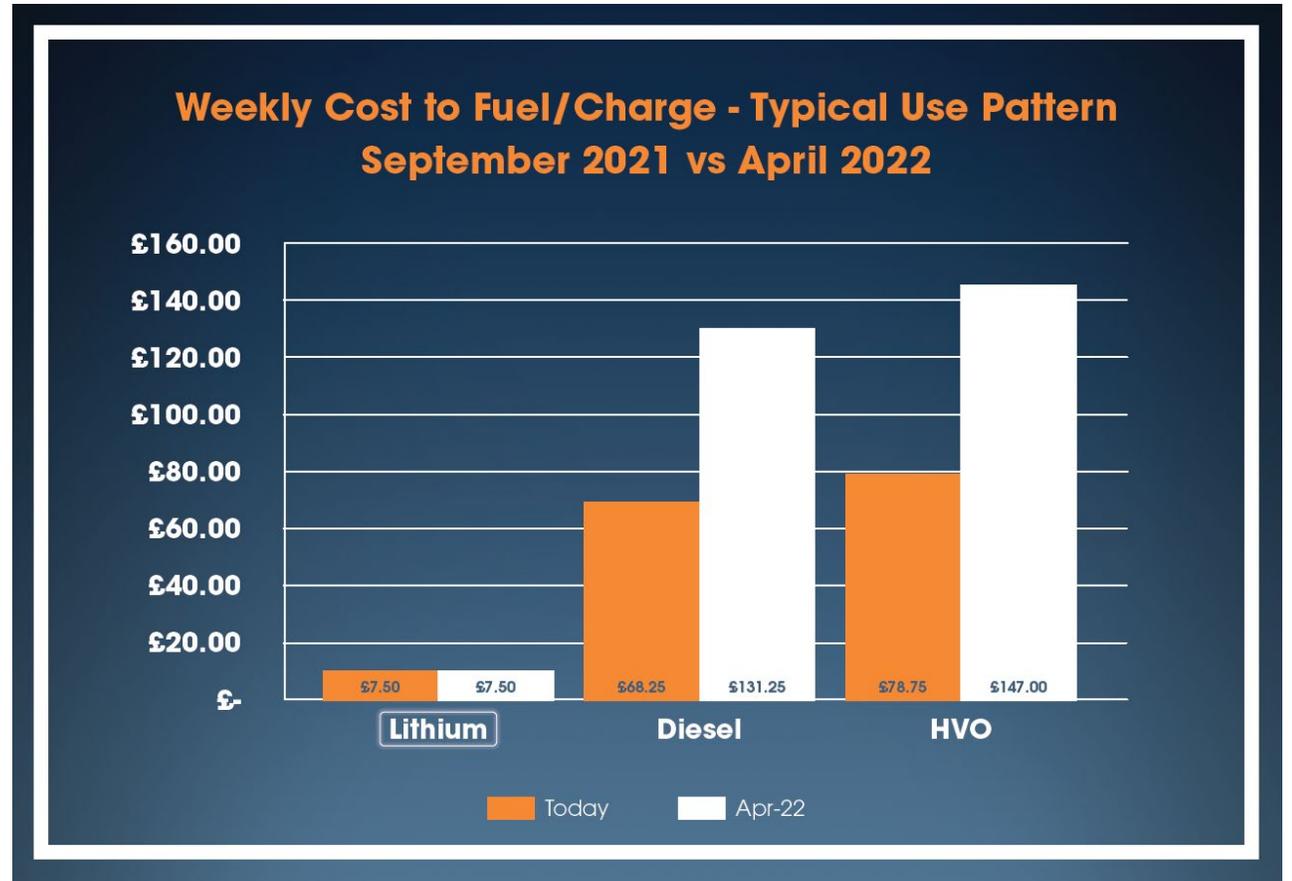
Rental and leasing services of construction and civil engineering machinery and equipment, UK, Quarter 1 (Jan to Mar) 2015 to Quarter 3 (July to Sept) 2021



Source: Office for National Statistics - Services Producer Price Index



RENTAL RATES ARE ABOUT TO COME UNDER MORE PRESSURE



Its not just CO₂
Focus on all emissions that affect air quality

ZERO MEANS ZERO



IMPROVING AIR QUALITY: BRADFORD, UK

Bradford has recognised its air quality issues

- ⊕ 22% of children report a wheezing condition
- ⊕ High levels of childhood asthma
- ⊕ Reduces ability to partake in Physical Education
 - ⊕ Further impacting on health
- ⊕ Overloading health services
- ⊕ Many areas above legal limits for NO_x (see image)



DIESEL vs BIOFUELS vs LITHIUM EMISSIONS



CO₂

Diesel Fuel

No reduction

PM (fine particulates)

No reduction

Hydrocarbons (HC)

No reduction

Carbon Monoxide (CO)

No reduction

Nitrogen Oxide (NO_x)

No reduction

VS

HVO Fuel *

Up to 90% reduction

Up to 30% reduction

Up to 30% reduction

Up to 25% reduction

Up to 10% reduction

VS

Snorkel Lithium-ion

100% reduction

100% reduction

100% reduction

100% reduction

100% reduction

Only with Snorkel does ZERO MEAN ZERO

*HVO figures provided by Crown Oils. Figures stated are the absolute maximum reductions under perfect operating & climatic conditions

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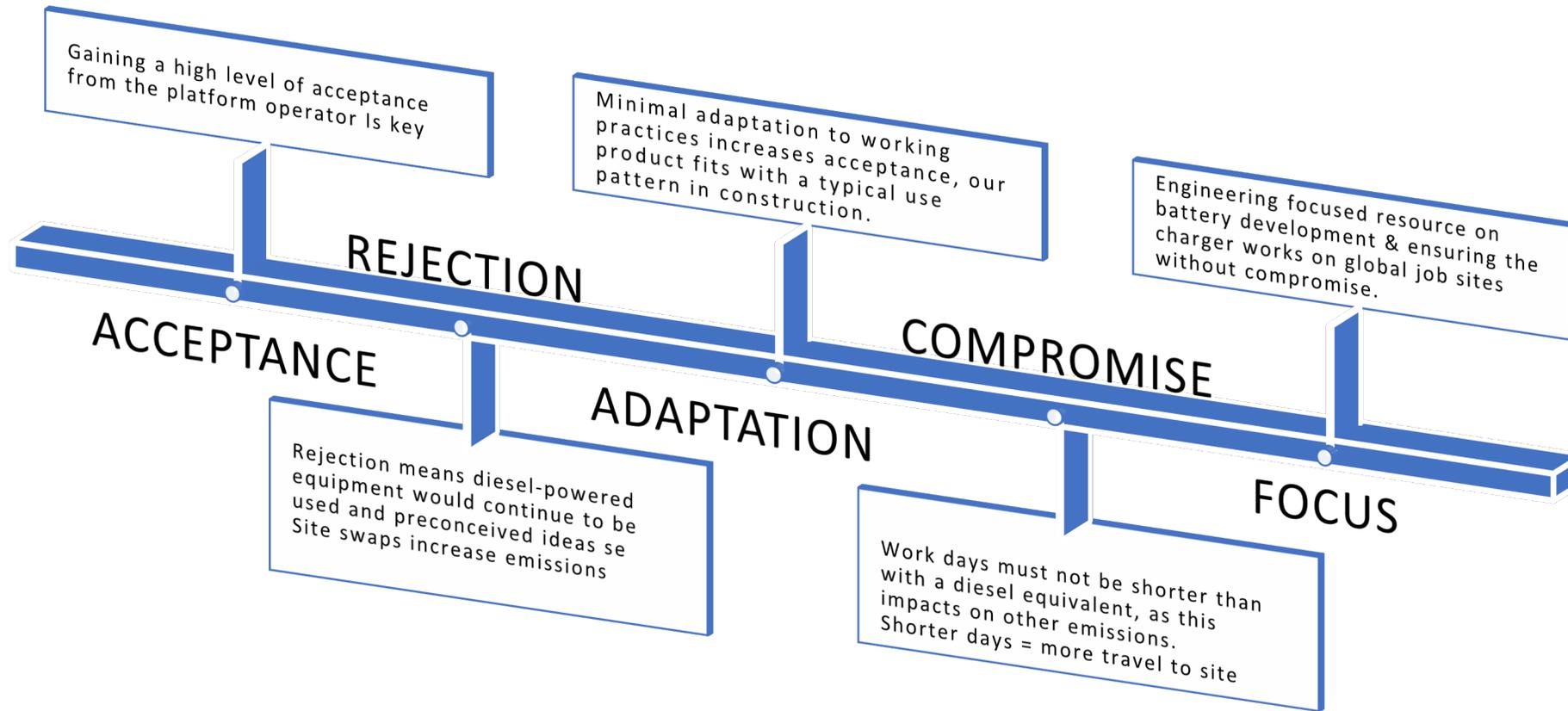




YOUR NEXT STEPS



CHOOSE A PRODUCT THAT FITS YOUR FLEET



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CHOOSE YOUR SOURCE OF POWER ITS NOT VHS v BETAMAX

ONE SOLUTION DOES NOT FIT ALL

ACCEPT THAT THERE WILL BE MULTIPLE
SOLUTIONS – ADOPT EARLY NOT LATE

TAKE TIME TO UNDERSTAND TECHNOLOGY
AND THEIR ENVIROMENTAL IMPACT

Beta
B



VHS



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ELECTRIFICATION: A VIABLE DIESEL ALTERNATIVE

Compact diesel telehandlers and mid-size aerial lifts are ideal for electrification

- ⚡ Intermittent use
- ⚡ Travelling within a work site
- ⚡ Low energy consumption in work position
- ⚡ Optimum weight to power ratio
- ⚡ Typically used in areas with power supply
- ⚡ Commercially viable



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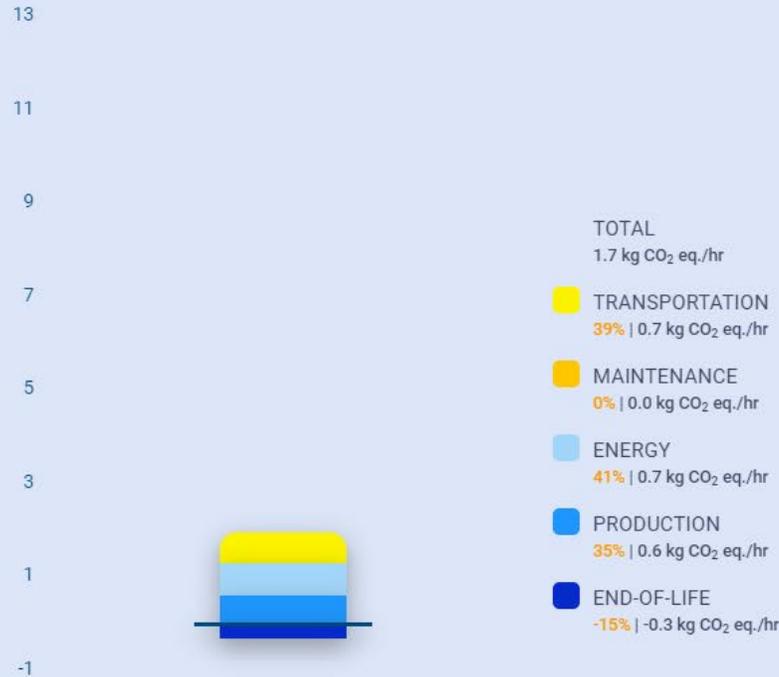
This overview provides the possibility to compare two different user scenarios.

Edit and change any value of the alternative scenario to immediately see the impact on the carbon footprint, in comparison with the original calculation.

ORIGINAL SCENARIO

CARBON FOOTPRINT BREAKDOWN

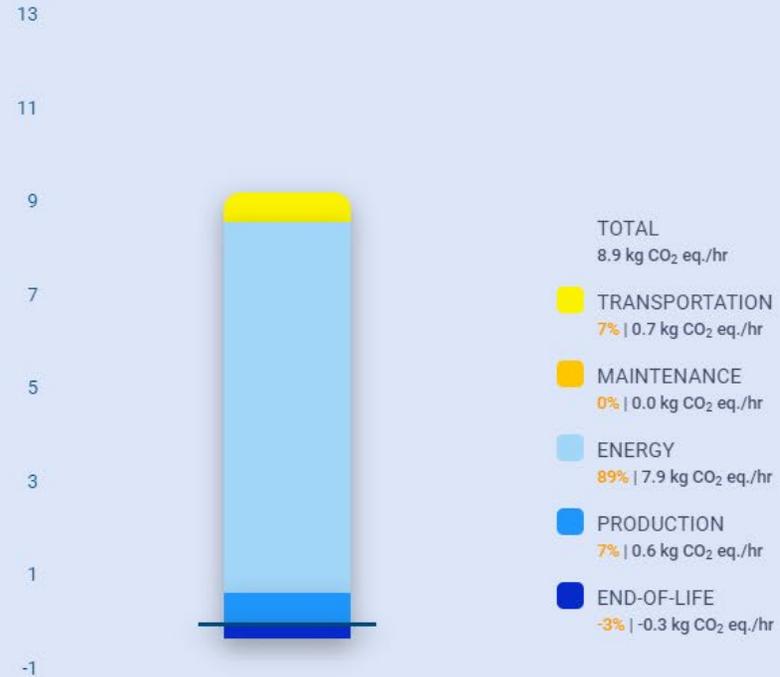
1.7 kg CO₂ eq./hr



ALTERNATIVE SCENARIO

CARBON FOOTPRINT BREAKDOWN

8.9 kg CO₂ eq./hr



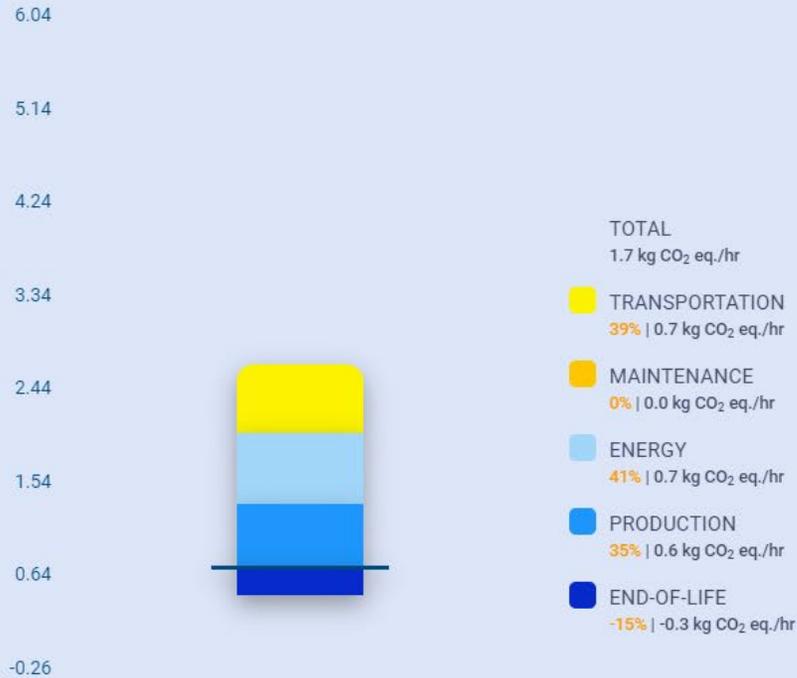
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ORIGINAL SCENARIO

CARBON FOOTPRINT BREAKDOWN

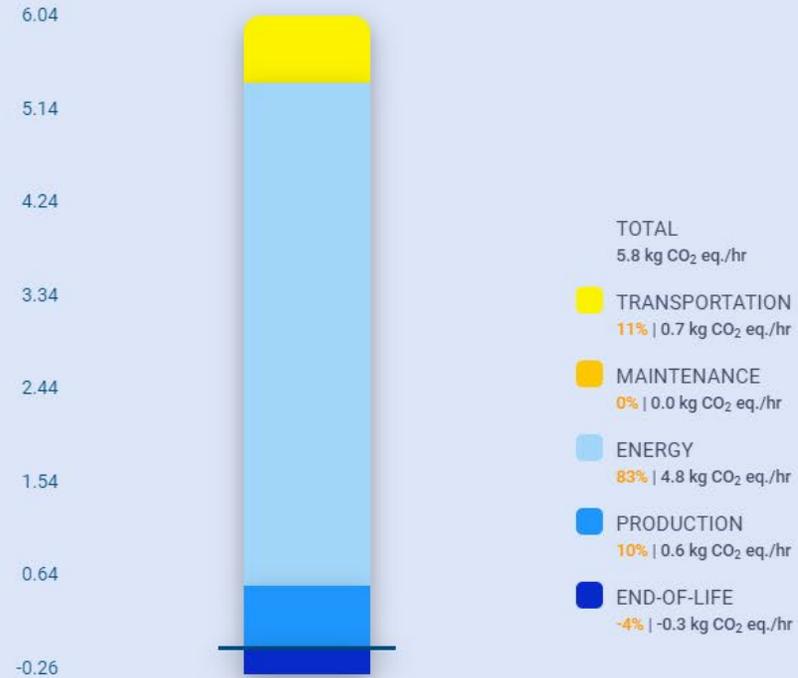
1.7 kg CO₂ eq./hr



ALTERNATIVE SCENARIO

CARBON FOOTPRINT BREAKDOWN

5.8 kg CO₂ eq./hr



RTE FAMILY FROM SNORKEL – LITHIUM-ION POWER



S2255RTE
S2755RTE

**Narrow Rough
Terrain Scissor Lifts**



SL26RTE
SL30RTE

**Speed Level
Lifts**



S2770RTE
S3370RTE
S3970RTE

**Compact Rough
Terrain Scissor Lifts**



A46JRTE

**Articulated Rough
Terrain Boom Lift**



SR626E

**Compact 4WD 4WS
Telehandler**

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UNLEASH THE POWERFUL POTENTIAL

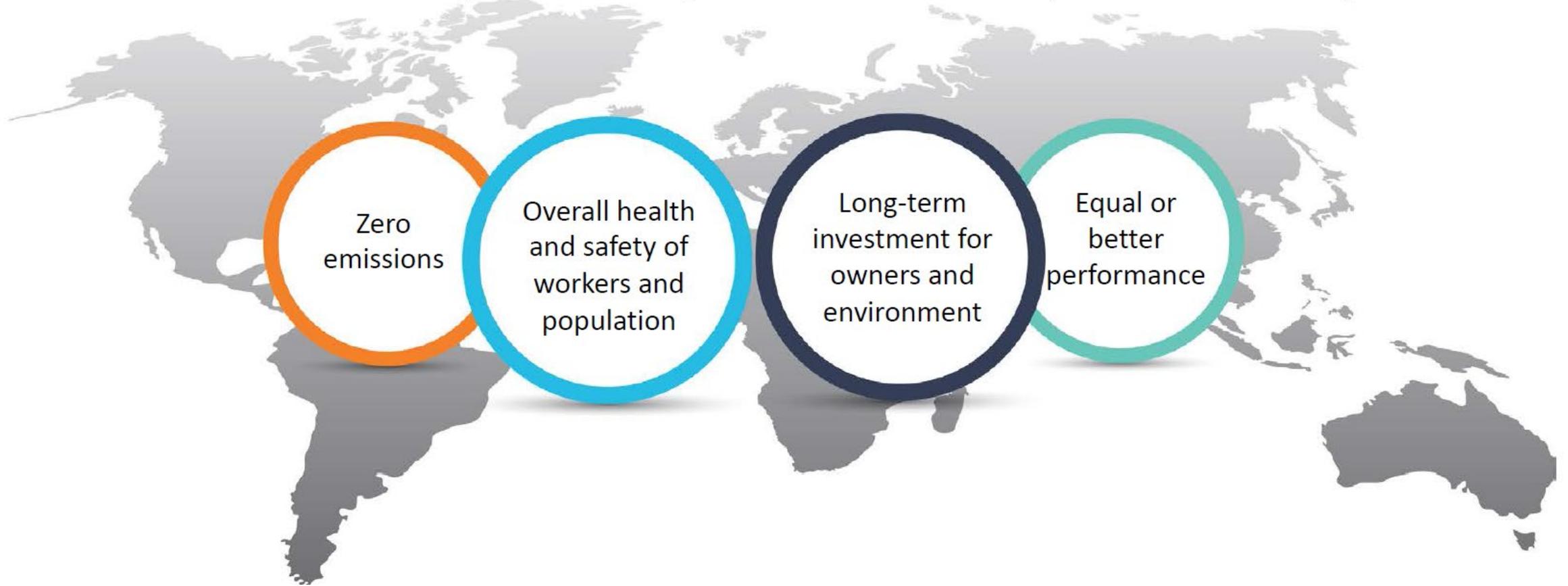
Only with Snorkel



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PROVEN TECHNOLOGY

Lithium-ion is an industry-first, viable and proven alternative that can replace mid-size diesel engines.



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For more information visit
our dedicated website
www.snorkelnetzero.com

