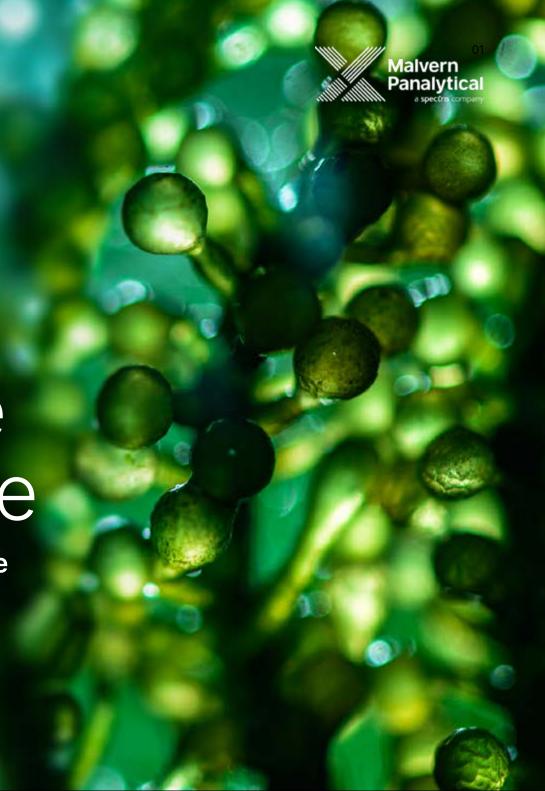
# Delivering Value Beyond Measure

Our roadmap to Net Zero and a sustainable world for future generations

September 2021





# We are committed to Net Zero





# We have set a clear ambition

Our operations: Net Zero by 2030 (Scope 1 and 2 emissions)

Our value chain: Net Zero by 2040 (Scope 3 emissions)

# Our science-based targets support this ambition

The 85% absolute reduction in Scope 1 and 2 emissions by 2030

The 42% absolute reduction in Scope 3 emissions by 2030

Both targets are aligned to a 1.5 degree warming scenario and have been validated by the Science Based Targets initiative.



"We recognize that the greatest difference we can make to a Net Zero world is through our products and solutions which support our customers to make the world cleaner, healthier and more productive and this remains the purpose at the heart of our strategy".

Mark Fleiner President

Climate change is one of society's greatest challenges. Solving it requires all of us to act with urgency. As a leader in providing analytical systems and services, we are committed to reduce our Greenhouse Gas (GHG) Emissions – and by doing so, we will mobilize the entire value chain, work with our customers and suppliers and inspire our employees to take collective action.

We are committed to achieving Net Zero in our own operations by 2030 and across our value chain by 2040. But what does Net Zero mean? Put simply, Net Zero refers to the balance between the amount of greenhouse gas produced and the amount removed from the atmosphere. We reach net zero when the amount we add is no more than the amount taken away.

So that our progress in reducing our footprint is transparent, we have set interim science-based targets which are aligned to a 1.5°C warming scenario. Together with the 220+ employees of Malvern Panalytical, we will take action towards our Net Zero goals, a challenging job but rewarding as our company makes progress toward Net Zero. The areas of internal opportunity to realize the benefits toward our Net Zero ambitions include our operations, processes, products, and transportation.

To achieve our Net Zero ambitions, we will work with our suppliers to help them improve their input materials, production processes, and logistics. At the other end of the value chain, we will also work with our customers to help them achieve their own sustainability goals. We also need action from governments and regulatory organizations to create clear guidance for companies to make progress.

But Malvern Panalytical must first lead by example. It's only by taking actions that can be measured that we can convince others to do the same. And it's only together, taking small steps, that we will make a big difference for future generations.

2040



### Our Net Zero roadmap

2021

#### Scope 1 and 2 Scope 3 To support our Our baseline Measuring our To support This work will be Living our ambition, we our ambition, supported by the values progress Engaging our Exploring a Developing Undertaking we are: "greening of the global energy workforce - we material shift both the grid" which means Beyond these targets, circularity and efficiency audits will actively away from we will continue to that, over time, to reduce promote air-logistics efficiency of more of our prioritize our strategy routing by 2030 our products, Aligning emissions at our information and Undertaking a of developing products products will be with RE100 manufacturing activities to global supplier and working building off a and services that powered by - committing sites by 20% keep our engagement with our air pilot program support our customers renewable energy to 100% by 2030 freight carriers undertaken by employees process with on their own EcoVadis Servomex in renewable aware of our to deliver decarbonization suitable 2021 electricity environmental journey. This is part footprint and abatement and across our of our broader ambition operations Building on our give them tools offsetting to make the world by 2030 current solar so they can be Committing to where this is cleaner, healthier and generation part of the zero waste to not possible Using more productive. capability solution landfill before technology to 2030 limit the return Aligning of frequent with EV100 business travel - committing Sourcing to a fully natural electric global refrigerant Malvern Panalytical 4 8 1 By 2030 we will have reached By 2040 we will Key have decreased all Net Zero across Scope 1 and 2 • • • Business as usual possible emissions emissions and decreased 42% across our value Scope 3 chain and balanced of our Scope 3 emissions remaining emissions to reach Net Zero Across the Spectris Group, beyond abatement activity, 15% of Scope 1 and 2 emissions and 26% of Scope 3 emissions will be balanced through offsetting.

2030



# Our total emissions by scope

Emissions from our direct operations, known as Scope 1 and Scope 2, accounted for just 8% of our GHG (Greenhouse Gas) emissions. The vast majority of our GHG emissions (92%) come from activities in our supply chain and so we will focus most of our efforts here.

#### Total GHG emissions by Scope

(Tonnes of  $C0_{2e}$ , in 2020)

Scope 1Emitted directly

**2%** (3,149)

from sources we own or control such as on-site combustion (natural gas, fuel for company's vehicle fleet).

Scope 2 (market emissions)

**2%** (4,264)

**Emitted indirectly** 

from the generation of purchased energy like electricity and heating/cooling network.

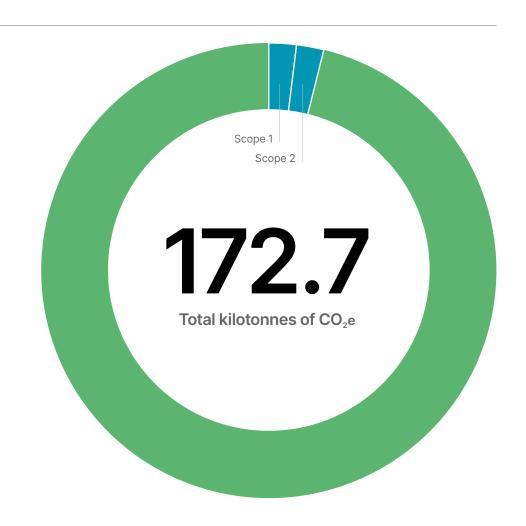
Scope 3

96%

(165,302)

All other indirect emissions

in our value chain, both upstream and downstream, such as sourcing and use of sold products.

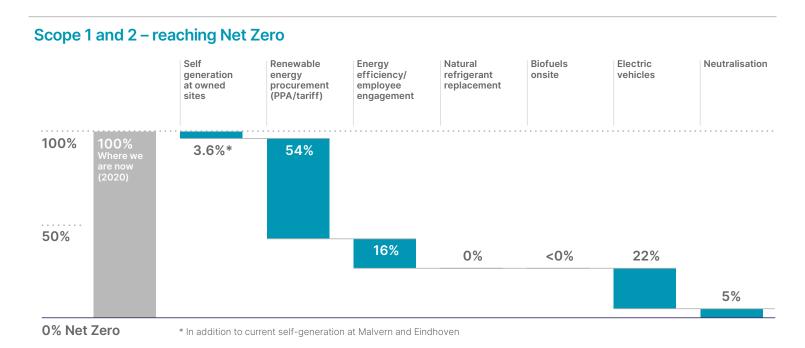




# Scope 1 and 2 emissions

We have committed to reach Net Zero in our Scope 1 and 2 emissions by 2030 with a science-based target of 85% abatement, set against a 1.5°C warming scenario. The chart to the right explains how we will do this, with a core focus on renewable energy, employee engagement and electric vehicles.

Our onsite solar generation capability at our offices in the UK and the Netherlands produced 457.76 MWh of electricity in 2020. We will build on this solar capability, and we have established the potential to generate 13,323 MWh onsite at seven key manufacturing sites. This capability will be sufficient to generate c.28% of our current total electricity consumption. Our EV100 commitment will see us move to a fully electric fleet by 2030. As part of our commitment to building employee engagement, we are gifting our employees the Giki Zero app to emphasize the role they can play individually and as a team in lowering our footprint.



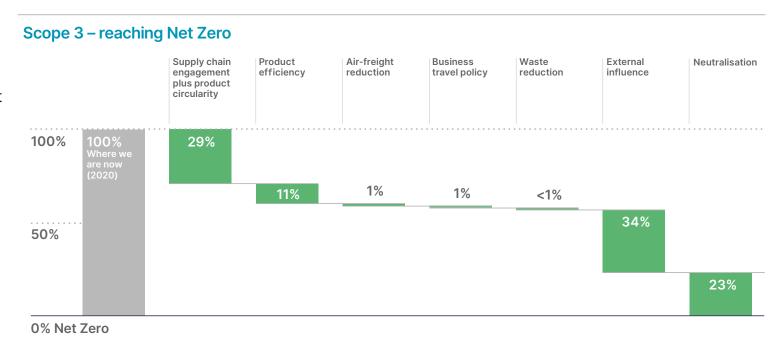


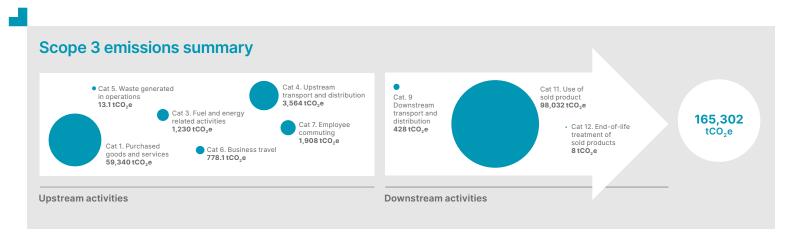


# Scope 3 emissions

We have committed to reach Net Zero across our Scope 3 emissions by 2040 with an interim science-based target of 42% abatement by 2030 against a 1.5°C warming scenario.

To achieve this, our key focus will be on supplier engagement, partnering with our suppliers to strengthen the environmental performance of our supply chain. Our ambition will be supported by the progressive "greening of the grid" which means that, over time, more of our products will be powered by renewable energy during their use.







## **Glossary**

#### What is Net Zero?

Net Zero is a state where we add no incremental greenhouse gases to the atmosphere. This means achieving a balance between carbon emissions and carbon sinks through a combination of emissions reduction within our business activities and carbon sequestration.

Attaining Net Zero requires the abatement of our emissions output to as close to zero as possible, consistent with a 1.5°C warming scenario and then balancing any remaining emissions via removal/sequestration of an equivalent quantity of carbon from the atmosphere.

#### What are carbon emissions?

Carbon emissions are the release of carbon into the atmosphere. Otherwise known as greenhouse gas emissions; these are the main contributors to climate change.

#### What is a carbon sink?

Carbon sinks are reservoirs (natural or artificial) that absorb carbon circulating in the biosphere. By helping to reduce the amount of atmospheric CO<sub>2</sub>, carbon sinks influence the climate by slowing global warming. Natural carbon sinks include oceans, soil and flora (forests, peat bogs, grasslands) while artificial carbon sinks refer to technologies that actively extract carbon from the atmosphere.

# Carbon dioxide equivalent (CO<sub>2</sub>e)

The universal unit of measurement to indicate the Global Warming Potential (GWP) of each Greenhouse Gas Emission (GHG), expressed in terms of the GWP of one unit of carbon dioxide. It is used to evaluate the climate impact of releasing (or avoiding releasing) different greenhouse gases on a common basis.

Most typically, the  $\mathrm{CO_2}$  – equivalent is obtained by multiplying the emission of a GHG by its GWP for a 100-year time horizon. For a mix of GHGs, it is obtained by summing the  $\mathrm{CO_2}$  – equivalent of each gas.

#### What is carbon neutralization?

Neutralization offsets are activities that 'remove' carbon emissions from the atmosphere. By investing in, or developing neutralization projects we will be taking measures to counterbalance/remove and permanently store the impact of unabated emissions.

# What is a 1.5°C warming scenario?

A scenario of emissions of greenhouse gases and other climate forcers that provides an approximately one-in-two to two-in-three chance, given current knowledge of the climate response, of global warming either remaining below 1.5°C or returning to 1.5°C by around 2100 following an overshoot. This is the long-term temperature goal included in the Paris Agreement which establishes 1.5°C as the

warming limit in the long term. The purpose of the goal is to 'reduce the risks and impacts of climate change' as assessed in the science of the time, not to achieve a mere objective in terms of a temperature number.

## What does our Net Zero Ambition cover?

Our ambition covers our Scope 1, 2 and 3 emissions.

#### Scope 1 emissions

Our direct greenhouse gas emissions resulting from our fuel combustion, vehicles and fugitive emissions.

#### Scope 2 emissions

Our indirect greenhouse gas emissions which result from the procurement of electricity, steam, heating, or cooling from a third party.

#### Scope 3 emissions

The indirect greenhouse gas emissions which occur in our value chain, not included in Scope 2 emissions, related to the emissions from our supply chain ('upstream') and our customers ('downstream').

# Which initiatives are we aligning with to support our ambition?



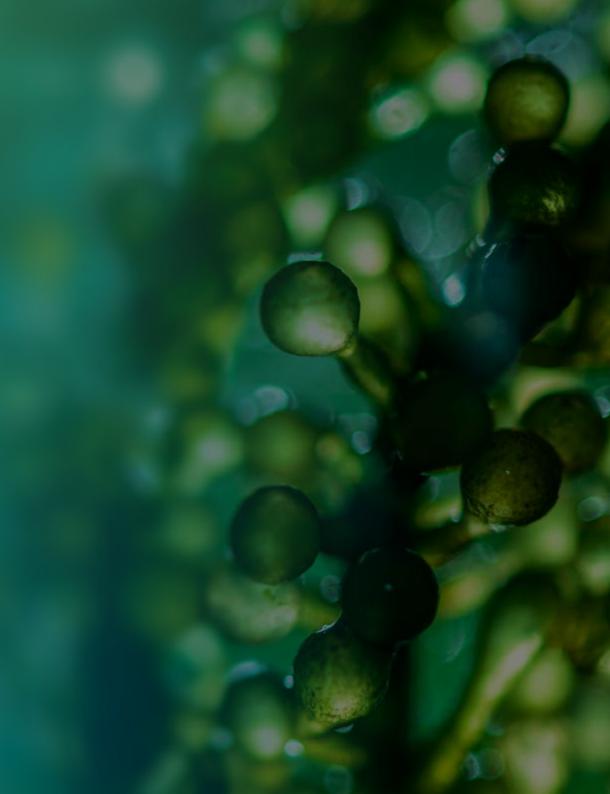
RE100 is a global initiative bringing together the world's most influential businesses committed to 100% renewable electricity. Led by the Climate Group and in partnership with CDP, their mission is to accelerate change towards zero carbon grids at scale. RE100 member companies are already driving enough renewable electricity demand to power a medium sized country.



EV100 is a global initiative led by the Climate Group and in partnership with CDP to bring together forward-looking companies committed to accelerating the transition to electric vehicles, who commit to transition their fleets to EV and install EV charging for staff and customers by 2030.



The Science-Based Target initiative (SBTi) is a partnership between CDP, the United Nations Global Compact (UNGC), World Resources Institute (WRI) and the World Wide Fund for Nature (WWF). SBTi facilitates a third-party validation process which assesses whether corporate climate targets are in line with the emissions reductions required by climate science.





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