Radii
Planet
Group

SUSTAINABILITY AND NET ZERO CARBON ROADMAP

Foreword

At Radii Planet Group, we recognise that we have a legal and moral responsibility to manage our business operations and reduce any detrimental impact on climate change. We are committed to sustainability and environmental stewardship, integrating these principles into every facet of our organisation.

Our mission at Radii Planet Group is to lead by example in the pursuit of a sustainable future. By embedding these values into our core operations and decision-making processes, we aim to inspire others in our industry and beyond to join us in making a positive difference. Together, we can create a more sustainable world for future generations.

We understand that an organisation such as ours has the opportunity to make a significant difference. This means taking proactive steps to minimise our environmental footprint and promoting practices that contribute to a healthier planet. For our employees, this involves fostering a culture of sustainability, providing education and resources to encourage eco-friendly practices both in the workplace and at home. We believe that empowering our staff with the knowledge and tools to make sustainable choices is essential for creating a collective impact.

For our stakeholders, we are dedicated to transparency and accountability, regularly reporting on our environmental initiatives and progress. We strive to build strong partnerships with suppliers and clients who share our commitment to sustainability, ensuring that our entire supply chain operates with the highest environmental standards. This collaborative approach helps to amplify our efforts and create a broader positive outcome.

Carole Smith
Risk, Compliance and Sustainability Director

Radii Planet Group

“Together, we can create a more sustainable world.”

Introduction

Through the Paris Climate Agreement (2015), Governments have committed to reducing global temperature rise to well below 2°C above pre-industrial levels and pursuing efforts to limit warming to 1.5°C. In 2018, the Intergovernmental Panel on Climate Change warned that global warming must not exceed 1.5°C to avoid catastrophic impacts. To achieve this, GHG emissions must halve by 2030 – and drop to net zero by 2050[1].

Climate change has significant implications for the construction industry, with rising global temperatures and extreme weather events impacting various aspects of construction projects. This necessitates a shift towards sustainable practices, including reducing greenhouse gas emissions associated with building materials production and energy consumption. Additionally, other aspects of sustainability, such as waste reduction, circularity enhancement, and water conservation, play crucial roles in mitigating environmental impact. Embodied carbon from the construction and refurbishment of buildings is a key focus area, making up 20% of built environment emissions[2]. By transitioning to materials with lower carbon footprints and implementing energy-efficient designs, the industry can significantly contribute to reducing overall carbon emissions.

The Sustainability and Net Zero Roadmap presented in this document outlines our commitment to addressing climate change and achieving net zero. It highlights the actions we have already taken and our plans for the future, taking into account the evolving landscape of sustainability in the UK. We acknowledge the ambitious nature of achieving net zero but recognise the importance and urgency of addressing climate change. We understand that incremental steps are crucial in reaching this objective. By setting clear targets and implementing sustainable practices across our operations, we aim to make significant progress towards reducing our carbon footprint. Through continuous improvement, transparency, and accountability, we believe that every step contributes to the larger goal of combating climate change and creating a more sustainable future.

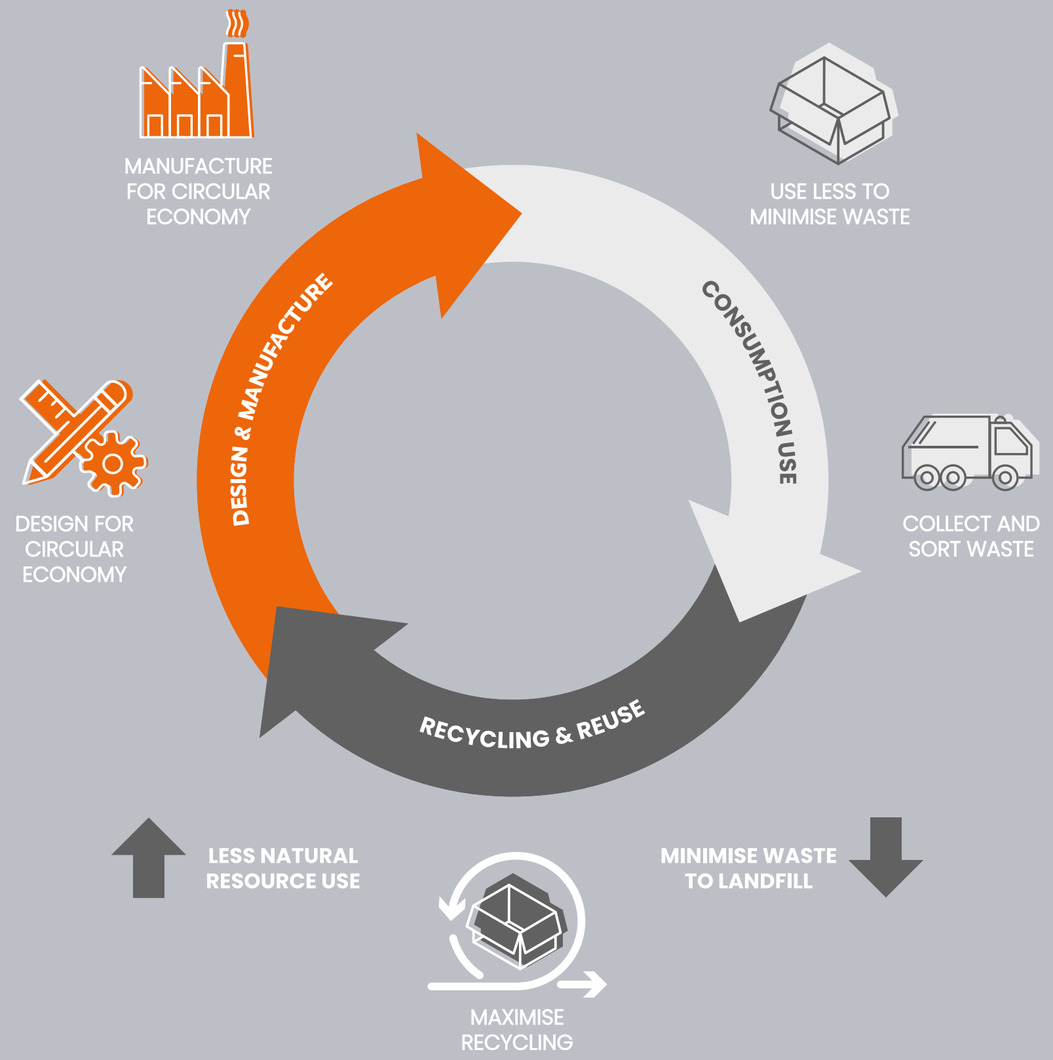
"By setting clear targets and implementing sustainable practices across our operations, we aim to make significant progress towards reducing our carbon footprint."

[1] https://sciencebasedtargets.org/
[2] ukgbc.org

Radii Planet Group

This document is split into 8 sections:

1. Values
2. Sustainability strategy
3. Our achievements so far
4. Our emissions
5. Aims
6. Carbon reduction targets
7. Roadmap
8. Closing thoughts



1 Values

Radii Planet Group has helped hundreds of clients in the construction industry improve buildings and workspaces. As working cultures and environments continue to evolve, we aim to be a valuable client partner — able to mould glass and metal as the project requires to create the perfect technical and aesthetic solution.

We have adopted a circular economy framework to ensure that we meet not only the needs of our clients, in terms of excellence, but also the aim of our society to tackle the global challenges of climate change, biodiversity loss, waste and pollution.

At all locations, our aim is to implement more sustainable building practices, reduce energy consumption, and minimise waste. Each project we undertake is evaluated for its environmental impact, and we aim to incorporate sustainable solutions from design to completion. This includes using materials with lower environmental impact, optimising resource use, and reducing emissions throughout the project lifecycle.

With every product we produce, we are committed to innovation and sustainability. Our research and development teams are continuously exploring new ways to create products that are not only high-quality and effective but also environmentally responsible. We prioritise the use of durable materials with a high recycled content where feasible, as well as designing products that have a reduced environmental impact.

Ultimately, we recognise the threat of climate change caused by carbon emissions generated through our activities and, in line with our environmental and sustainability goals, are committed to continual improvement in the management and reduction of our business impacts.

“At all locations, our aim is to implement more sustainable building practises, reduce energy consumption and minimise waste.”

2 Sustainability strategy

Care for the environment and the impacts of climate change is the responsibility of everyone within our business.

Our mission is to reduce the detrimental effects of our operations on our planet through the adoption of robust carbon management principles, including:

- Implementing the Net Zero Carbon Roadmap as a framework to reduce carbon emissions generated by our energy use, business travel, waste and water
- Establishing and promoting procedures for carbon management and reduction
- Collecting and disseminating carbon emission data in relation to the organisation's energy intensive operations
- Seeking to influence the design and specification of construction projects so as to ensure their environmental impact is minimised as far as is reasonably practical
- Promoting the use of sustainable materials and equipment within our activities, including the use of durable materials with a high recycled content and low embodied impact
- Ensuring efficient use of resources, re-using rather than disposing where possible and promoting the use of recycled materials
- Considering the locations of prospective projects and external meetings with a view to reducing the effects of travel; utilising public transport wherever practicable
- Where possible, using local suppliers to reduce carbon emissions through the reduction of transportation distances
- Actively sourcing local trades and subcontract labour to reduce travel distances to site
- Capping carbon emissions on our vehicle fleet
- Promoting waste minimisation and recycling
- Procuring renewable energy throughout our operations
- Measuring and monitoring our physical and operational performance against key performance indicators
- Driving continuous improvements by setting strategic targets aligned to our products, services and activities
- Educating our employees and raising awareness within our supply chains
- Communicating progress to interested parties internally and externally
- Supporting our clients and our supply chain to take action on climate change and meet their own carbon reduction strategies.

"Our mission is reduce the detrimental effects of our operations on our planet through the adoption of robust carbon management principles."

3 Our achievements so far

Radii Planet Group

Implemented ISO14001 Compliant Environmental Management System

ISO 14001 serves as the globally recognised benchmark for environmental management systems (EMS), offering organisations a structured framework to plan, implement and consistently enhance environmental performance.

This standard provides a framework to identify, manage, monitor and control environmental responsibilities in a systematic manner; focusing on continual improvement, compliance with legal requirements and consideration of environmental impacts in decision-making processes.

Our constant dedication to obtaining and maintaining this accreditation over the years underscores our commitment to environmental excellence, showcasing our continuous efforts to meet environmental standards and expectations.

Implemented Toitu Carbon Reduce Programme (aligned to ISO 14064-1)

We are dedicated to ensuring accurate and reliable reporting of our emissions. We are proud to announce that we have joined the Toitū Carbon Reduce Programme through Achilles and are now a Toitū Carbon Reduce certified organisation. This involves measuring, managing and verifying the operational emissions of our organisation, including business travel, electricity, vehicles and offices[3], in accordance with ISO 14064-1 and the GHG Protocol. By adhering to the ISO14064-1 standards, which specifically focus on greenhouse gas measurement and reporting, we demonstrate our commitment to transparency and accountability in our sustainability efforts.

Moving forward, we will continue to undergo this verification process annually. This means that our emissions reduction initiatives and progress towards achieving net zero will be supported by robust and verifiable claims. By maintaining a transparent approach to reporting and verifying our emissions, we aim to uphold the highest standards of accountability while actively contributing to global efforts in combating climate change.

Transition to REGO and RGGO backed energy consumption

Throughout 2024, we reviewed our energy procurement strategies and renewed our electricity and gas contracts for all locations, transitioning away from fossil fuel-based energy sources to renewable alternatives.

From November 2024, 100% of the electricity supplied to our operations is renewable, backed by certificates of Renewable Energy Guarantees of Origin (REGO), and 100% of the gas supplied to our operations will be 10% backed by Renewable Gas Guarantees of Origin (RGGO) and 90% backed by carbon offsets.

Renewable Gas Guarantees of Origin (RGGO) provide a reliable and effective means for reducing our organisation's carbon emissions, and they certify that energy has been generated from renewable sources.
This helps lower our carbon footprint and contributes to our sustainability objectives while supporting the transition to a cleaner, low-carbon energy future.

[3] This includes all of our Scopes 1 and 2 and partial Scope 3. Scope 3 includes business travel, waste, and all 3rd party transport purchased by the company. This aligns with our verifier's required reported emissions scope.

3 Our achievements so far

Radii Planet Group

Manufacturing improvements

At the heart of our operations is a continuous commitment to manufacturing efficiency, which is integral to both the quality of our products and our sustainability goals. We recognise that optimising every facet of our production process enhances the final product and minimises our environmental impact. In line with this, our manufacturing facilities constantly undergo extensive efficiency reviews to ensure we use energy and resources effectively. This ongoing focus on efficiency has allowed us to reduce the energy used per material output unit. In 2024, we achieved a 22% overall reduction in energy use across our manufacturing facilities compared to the previous year. By enhancing our energy efficiency, we contribute to operational excellence and the broader goal of reducing our carbon footprint. Improving energy efficiency supports operational performance and contributes to emission reduction targets. Our production systems have incorporated advanced technologies such as Flight Path Pro and AkzoNobel's Coating AI. These tools support consistent powder application, leading to more efficient use of energy and materials and helping to reduce waste. These upgrades have contributed to a 6% reduction in powder waste and a 9% improvement in product uniformity. We have also optimised CNC paths using various tools, reducing energy use per profile while increasing manufacturing capacity. Such advancements ensure we use fewer materials and achieve better results with each production run, ensuring consistent, high-quality outputs. These are just examples of our improvements over the last year, but they clearly demonstrate how efficiency is key to driving economic and environmental value.

Our approach is to produce the same high-quality products while using fewer resources, reducing waste, and lowering emissions. This will continue to guide our operations as we work towards a more sustainable future.

"Whilst we know our processes are efficient, we are pleased with our progress so far and are continuously looking at ways to improve further, year on year"

Alex Vlase
Production Manager

18%
Reduction in electricity used in manufacturing
2024 vs. 2023

23%
Reduction in gas used in manufacturing
2024 vs. 2023

5%
Reduction in gas used per kg of aluminium
2024 vs. 2023

3 Our achievements so far

Introduction of aluminium with lower GHG emissions

We are excited to announce that we are transitioning our Radii aluminium profiles to a new billet that emits only 2.0kgCO2e/kg of aluminium. This is a significant achievement as it represents a 39% reduction compared to the average European Aluminium[4] and an 84% reduction compared to the world average[5]. By making this change, our Radii non-fire-rated products will showcase significantly lower embodied carbon, further enhancing their sustainability credentials.

Furthermore, our lower carbon aluminium guarantees a minimum of 75% of post-consumer recycled aluminium. Post-consumer scrap is aluminium that has been used and discarded by consumers. This includes items such as beverage cans, car parts, and construction materials that are collected, processed, and recycled into new aluminium products. Recycling aluminium requires significantly less energy to process, compared to primary aluminium. Consequently, this means significantly less GHG emissions and environmental impacts to produce the same amount of material.

We are proud to lead the way in reducing carbon emissions within our industry and remain committed to continuously improving our environmental performance.

Introduction of lower carbon glass options

We are committed to reducing the carbon footprint of products with the introduction of lower carbon glass options. Lower-carbon glass is a revolutionary product designed to reduce the carbon footprint associated with traditional glass manufacturing.

Lower-carbon glass is manufactured using a higher recycled content in the float glass production, helping reduce the consumption of raw materials and energy. These options are currently available as a base for toughened or laminated glass. It offers the same performance as traditional glass while helping to achieve sustainability goals.

We are committed to integrating lower-carbon materials, like lower-carbon glass, into our product offerings to help clients reach their high standards in terms of performance and aesthetics, whilst also helping them meet their sustainability targets.

These lower-carbon glass options are covered by Guardian's third-party verified Environmental Product Declarations. Using lower-carbon glass greatly reduces the carbon footprint of our partitions and doors without compromising performance or aesthetics.

Hydro

LOW-CARBON ALUMINIUM

Certified and transparent

[4] Inventory of Carbon & Energy (ICE) database V3.0. Aluminium General, European Mix, Inc. imports of 6.67kgCO2e/kg
[5] Inventory of Carbon & Energy (ICE) database V3.0. Aluminium General, Worldwide, 13.1kgCO2e/kg

4 Our emissions

The net zero landscape

Through the Paris Climate Agreement (2015), Governments committed to reducing global temperature rise to well-below 2°C above pre-industrial levels and pursuing efforts to limit warming to 1.5°C. In 2018, the Intergovernmental Panel on Climate Change warned that global warming must not exceed 1.5°C to avoid the catastrophic impacts of climate change. To achieve this, GHG emissions must halve by 2030 – and drop to net-zero by 2050[6].

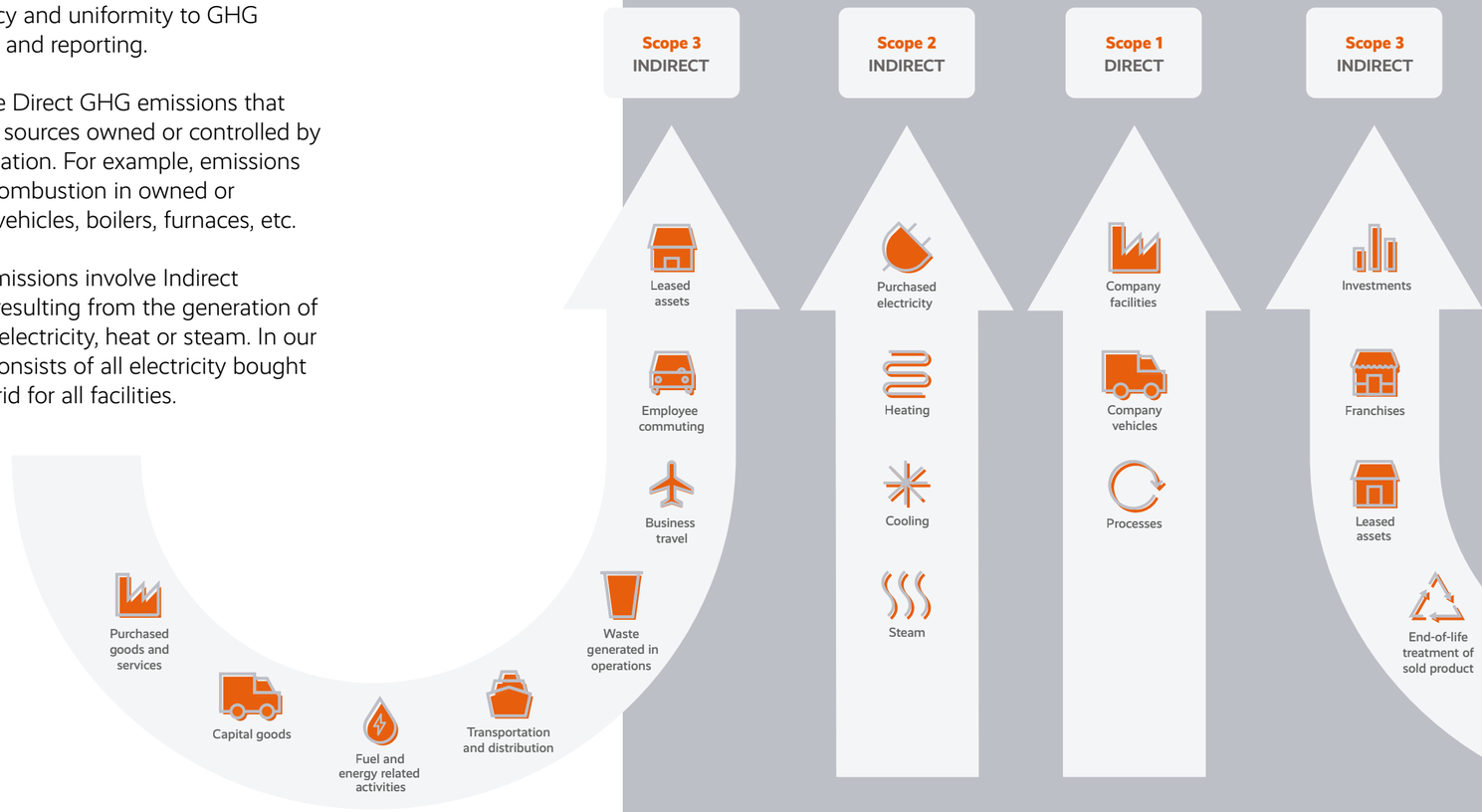
Following the Climate Change Committee recommendation in 2019, the UK Government committed to becoming net zero by 2050. This is "to ensure the UK reduces its greenhouse gas emissions by 100% from 1990 levels by 2050. If met, this would mean the amount of greenhouse gas emissions produced by the UK would be equal to or less than the emissions removed by the UK from the environment"[7].

A carbon footprint assessment measures an organisation's footprint by quantifying all of the direct and indirect greenhouse gas emissions (GHG) it generates. To help outline Direct and Indirect emission sources, the Greenhouse Gas Protocol[8] defined three "Scopes": Scope 1, Scope 2 and Scope 3, each capturing different aspects of an organisation's carbon footprint. This is to provide more transparency and uniformity to GHG accounting and reporting.

Scope 1 are Direct GHG emissions that occur from sources owned or controlled by the organisation. For example, emissions from fuel combustion in owned or controlled vehicles, boilers, furnaces, etc.

Scope 2 emissions involve Indirect emissions resulting from the generation of purchased electricity, heat or steam. In our case, this consists of all electricity bought from the grid for all facilities.

Scope 3 includes the broadest spectrum, incorporating indirect emissions from sources not owned or controlled by the organisation but associated with its activities. These are other upstream and downstream indirect emissions that are consequences of the organisation's activities but are emitted at sources not owned or controlled by the organisation.



[6] https://sciencebasedtargets.org/
[7] https://lordslibrary.parliament.uk/mission-zero-independent-review-of-net-zero/#:~:text=The%20'net%20zero%20target'%20refers,the%20UK%20from%20the%20environment.
[8] https://ghgprotocol.org/corporate-standard

4 Our emissions

Radii Planet Group

Where we are

Having joined the Toitu Carbon Reduce Programme in 2024 and verifying our 2023 emissions in accordance with ISO14064-1 and the GHG Protocol, we have decided to set 2023 as the baseline year for our Group emissions.

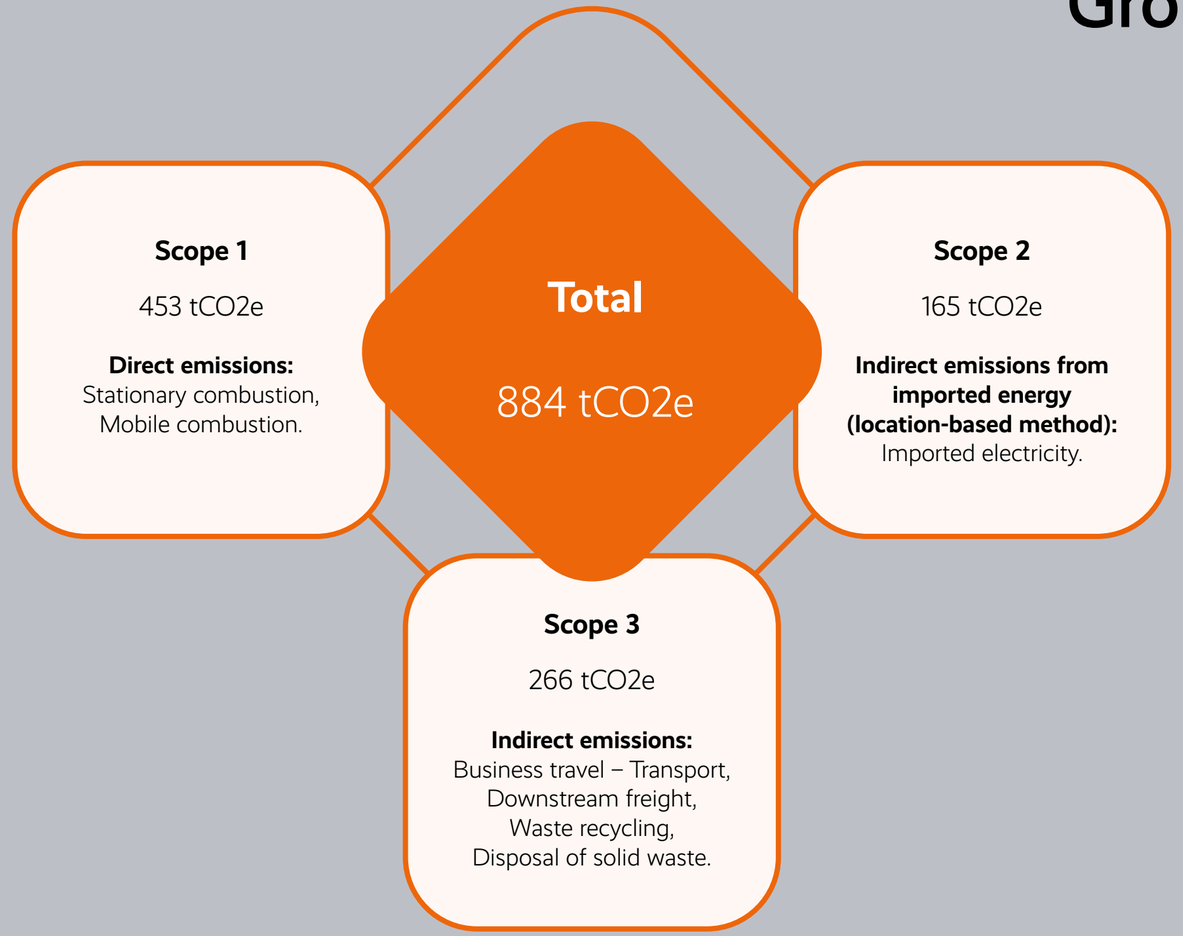
Establishing an accurate baseline year is an important step in our sustainability journey, as it provides us with a clear reference point from which we can measure future emissions and track our progress in reducing them. By determining a baseline, we can effectively assess the impact of our initiatives and strategies over time. With this, we are better equipped to make informed decisions and achieve our long-term environmental and carbon reduction goals.

In establishing the organisational boundary, we have adopted a control approach in accordance with the GHG Protocol. The emissions reporting is considered for the entire Radii Planet Group, including manufacturing facilities and all offices. This includes our different operations, encompassing Radii, Radii AG, Radii Planet and Radii Planet Group.

Our inventory includes direct emissions (Scope 1), indirect emissions from imported energy (Scope 2), indirect emissions from transportation (Scope 3) and other indirect emissions associated with products used by the organisation, as per the ISO 14064-1 Standard. It also shows the total direct emissions, total indirect emissions, total gross emissions, direct removals, purchased emission reductions and net emissions.

We have measured the entirety of our Scopes 1 and 2 emissions: Direct emissions from fuel, electricity, business travel and deliveries. The most significant contribution of scope 1 is the stationary combustion, namely gas use for the manufacturing process. Regarding Scope 2, we have used a location-based method which captures all electricity used in our premises.

Scope 3 includes business travel, waste and all 3rd party transport purchased but not controlled by the organisation. Like many organisations, we recognise the need for ongoing efforts to measure and account for the additional Scope 3 emissions in the future. This is to ensure a more comprehensive understanding of our environmental impact.



5 Aims

Radii Planet Group

As part of our roadmap, we have set aims to guide our efforts, encompassing various aspects of our operations.

In relation to our emissions, and although we have aligned our ambitions with Science-Based Targets, we have the most significant amount of Scope 3 emissions to measure and later reduce. We strive to have all emissions quantified; nonetheless, the extensive amount of information required for Scope 3 emissions represents a significant challenge. Therefore, part of our plan is to increase the amount of Scope 3 emissions we measure and verify to ISO 14064. This verification process ensures the accuracy and credibility of our reported emissions but also enables continuous improvement in the accuracy of our emissions data.

Following this, we aim to submit our Science-Based Targets near-term commitment letter by 2026. These targets undergo an independent assessment and approval process based on criteria established by the Science Based Targets Initiative (SBTi). Achieving validation for these targets provides concrete proof of our ongoing commitment and active steps towards climate action, adopting leading sustainability practices aligned with the Paris Climate Agreement.

To reduce water consumption by 13% by 2030, we will conduct a thorough review of our water usage across all locations to identify areas where reductions can be made. This includes assessing manufacturing processes and implementing more efficient practices to minimise water waste. Additionally, we recognise the importance of raising awareness among our employees about the significance of responsible water use. To accomplish this, we will launch an awareness campaign that educates and engages our workforce on the importance of conserving water in both their professional and personal lives. By fostering a culture of consciousness and providing practical tips for water conservation, we aim to empower our employees to actively contribute towards achieving our target.

Another objective is to have an additional three product ranges covered by Environmental Product Declarations (EPDs) by the end of 2025. EPDs provide transparent information about a product's environmental performance throughout its lifecycle. By obtaining EPDs for additional product ranges beyond those already covered, we can facilitate comparisons between different materials' environmental impacts while meeting client requirements for sustainable options.
Another goal is to collaborate with clients and designers to promote circularity and improve carbon efficiency. This involves actively engaging with them during the early design stages to assess opportunities for re-use or design optimisation that would enable future re-use or recycling. Additionally, we are committed to enhancing our capabilities in providing project-specific carbon information, allowing us to offer more detailed insights into the environmental impact of our products and projects. By encouraging these partnerships and expanding our knowledge in this area, we aim to contribute to a construction industry where circular economy is encouraged and emissions can be more accurately estimated.

Overall, these goals reflect our dedication to reducing environmental impact across various aspects of our operations while aligning with global sustainability efforts outlined in international agreements such as the Paris Climate Agreement.

Reduce our emissions by 40% by 2030 Reduce our Scope 1, Scope 2 and partial Scope 3 by 40%, in line with Science-Based Targets

Reduce our Scope 3 freight and business travel emissions by 30% by 2030

Work with Clients to enhance circularity and carbon efficiency

13% water reduction by 2030

- Increase the number of Scope 3 emissions categories 3rd party verified to ISO14064
- Submit commitment to Science-Based Targets by 2026
- Add three product ranges covered by EPDs by 2025

6

Carbon reduction targets

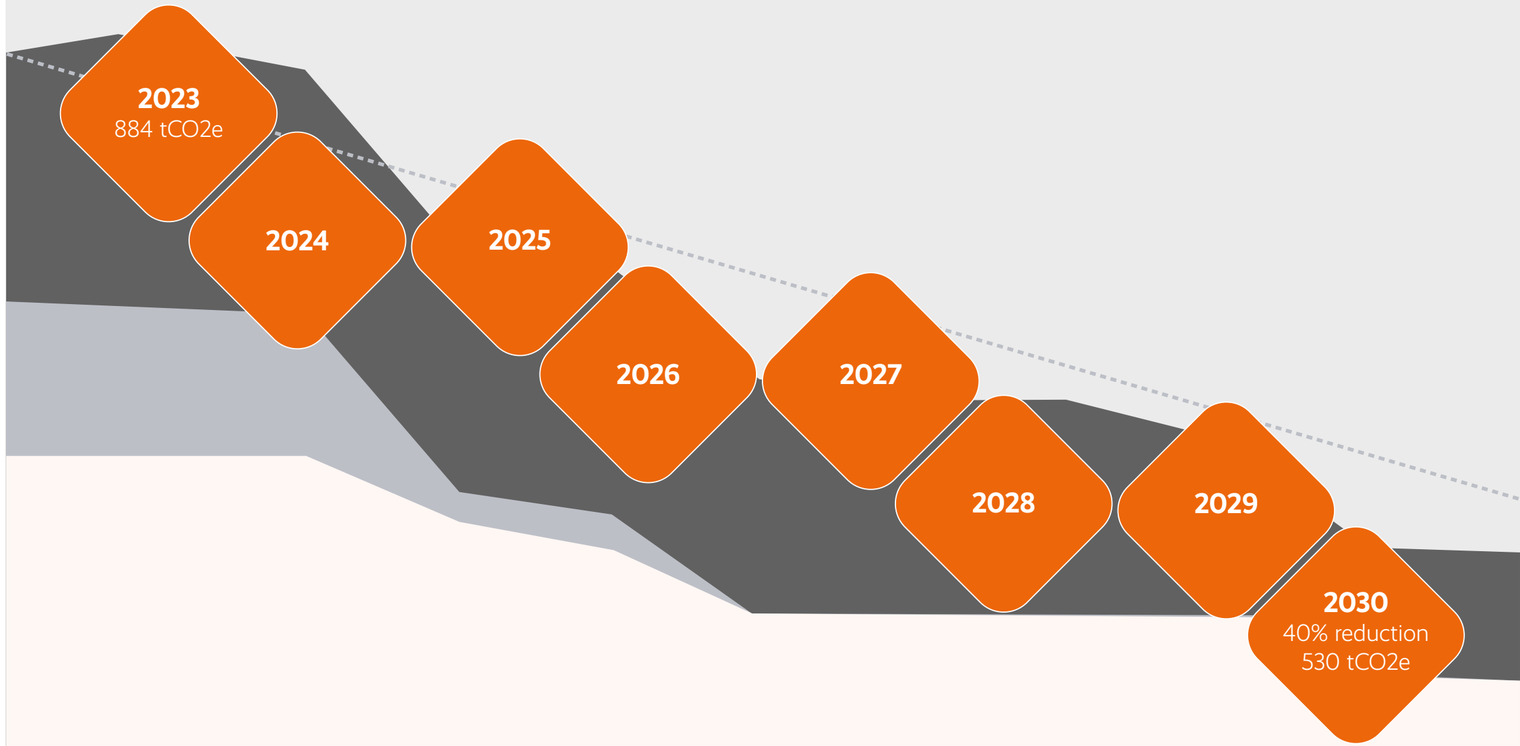
Radii Planet Group

As we acknowledge the critical urgency to reduce greenhouse gas emissions in order to combat the escalating impacts of climate change, achieving net zero stands as a foundational element of our long-term sustainability strategy.

To meet this global challenge, we have committed to ambitious reduction targets that align with the latest climate science and the most stringent environmental standards. Specifically, we aim to reduce our Scopes 1 and 2 emissions by 40% by 2030, ensuring that our targets are consistent with the latest climate science through the Science-Based Targets initiative (SBTi), which is designed to help organisations contribute to global efforts in limiting temperature rise to 1.5°C.

The graph on the right demonstrates that, we recognise the road to achieving our net zero goals is unlikely to be linear. We understand that it will require a significant effort and the path ahead won't be straightforward. However, despite these challenges, we have already begun our journey towards net zero and are committed to enhancing our efforts on a continuing basis.

This commitment underscores our dedication to making measurable progress toward net zero emissions, positioning us to be part of the solution in the global transition to a more sustainable and resilient future. By embedding these targets within our roadmap, we are not just addressing climate risks, but actively contributing to the transformation needed to protect the planet for future generations.



7

Roadmap

Radii Planet Group

To guide our overall sustainability initiatives, we have classified our efforts into five areas of interest shown below. These areas encompass various aspects of our operations where we can make meaningful contributions to reducing our environmental impact.

Energy

- Increase renewable energy
- Plant equipment to electric
- Gas to electric
- Energy performance data visualisation and additional meters
- Manufacturing and buildings energy efficiency

Transport and Travel

- Electrify delivery fleet
- Decarbonise company fleet
- Promote the use of public transport and virtual meetings
- EV charging points

R&D/Design & Manufacture

- Decarbonise products
- Work with clients to promote circularity
- Carbon R&D: LCA for products and projects
- BIM & product sustainability integration

Land, Air & Water

- Manufacturing waste review
- Office waste review
- Further improve packaging design
- RPG volunteering days

Governance

- Net zero implementation & monitoring
- Science-Based Targets Initiative (SBTi)
- Carbon/environmental reporting & emissions verification
- ISO14001 Environmental Management System
- Maintaining and updating products and project-specific EPDs

7 Roadmap

Radii Planet Group

Energy

Energy sits at the core of our environmental plans, given its impact and, particularly, its connection to GHG (Carbon) emissions. Understanding, monitoring and optimising energy sources is integral to mitigating our environmental impact.

Increase Renewable Energy

Throughout 2023, emissions from our Group's electricity consumption totalled 165 metric tonnes of CO2 equivalent (tCO2e). Reducing these emissions is a critical component of our sustainability strategy, and one of the key approaches we are implementing is transitioning to renewable energy sources. This shift will significantly lower our carbon footprint and help us move toward our net zero goal. To support this transition, we have already made meaningful progress by securing Renewable Energy Guarantees of Origin (REGO) and Renewable Gas Guarantees of Origin (RGGO) certificates for all our premises, including manufacturing sites. These ensure that the energy from our suppliers is backed up by renewable energy certificates, reinforcing our commitment to sustainability. Moving forward, we will continue to explore renewable energy solutions, further enhancing our efforts to reduce our environmental impact.

Plant Equipment to Electric

LPG (liquified petroleum gas) previously used for non-road machinery has already been phased out as part of our broader efforts to reduce our carbon emissions and improve our environmental performance. This transition marks an important step toward minimising the use of fossil fuels in our operations. Looking ahead, we are committed to ensuring that all future equipment renewals fully align with our sustainability goals. Specifically, we will mandate the exclusive use of electric machinery for any new or replacement equipment. This shift to electric-powered machinery not only reduces our reliance on non-renewable energy sources but also contributes to lowering emissions across our operations.

Gas to Electric

Although we are already transitioning our gas supply to be backed by Renewable Gas Guarantees of Origin (RGGO), our longer-term goal is to further reduce fossil fuel use by shifting a portion of our gas consumption to electricity.

This transition will help us phase out fossil fuel reliance as much as possible and move closer to achieving our net zero targets. However, it is important to recognise that switching from gas to electricity or electrifying certain equipment could be more complex than initially anticipated, and may require thorough analysis to ensure feasibility. As we continue on our sustainability journey, we will carefully evaluate our current gas sources and assess the practicality of these transitions, ensuring they align with our overall environmental objectives.

Additionally, while offices contribute to a smaller proportion of emissions, many are heated using gas. Altering this setup might pose challenges. Nonetheless, investigating small-scale alternatives for future consideration remains on our agenda.

7 Roadmap

Energy Performance Data Visualisation and Additional Meters

While energy monitoring alone does not directly reduce energy consumption, it plays a crucial role in providing detailed insights into energy usage patterns. This data allows us to better understand how energy is being used, plan for more efficient and cost-effective energy consumption, evaluate different options, and take informed action. Having granular and clear information on the energy use of every premises and piece of equipment is essential for embarking on the journey of reducing energy consumption. It serves as the foundation for identifying areas where improvements can be made.

To enhance our efforts, we aim to increase the data we currently have available by making it more visual and accessible. This will allow us to more easily identify hotspots and anomalies in energy usage, enabling us to take proactive measures to optimise efficiency. Additionally, we plan to expand the number of metering points across our operations, ensuring that we have a comprehensive and accurate view of energy consumption at all levels. With this enhanced monitoring system in place, we will be better equipped to make data-driven decisions and drive meaningful reductions in energy use.

Manufacturing and Buildings Energy Efficiency

Energy use is, in the main, directly related to manufacturing activities, and we have made significant efforts to reduce operating energy consumption by refining and improving the efficiency of our processes. This focus on process optimisation will continue as part of our ongoing commitment to continuous improvement. We are dedicated to exploring a range of solutions to better manage our energy use, ensuring that we remain proactive in identifying and implementing new strategies for energy efficiency.

In addition to our manufacturing activities, we also prioritise the efficient use of energy within our buildings. While the energy consumption of our buildings is less substantial, our aim is to continuously encourage an efficient use of our buildings. Although they are operated in an efficient way, cyclical reviews ensure that processes are updated and coordinated.

7 Roadmap

Radii Planet Group

Transport and Travel

As essential components of daily activities for our business and their interconnectivity with GHG emissions, these segments hold a key position in sustainable practices.

Electrify Delivery Fleet

Beyond the primary objective of reducing carbon emissions, transitioning to electric, or hybrid to a lesser extent, holds an additional benefit for air quality. Electric vans produce significantly fewer pollutants compared to traditional combustion engine vans. By embracing electric vehicles, we not only contribute to the broader goal of lowering our carbon footprint but also actively work towards creating cleaner and healthier air environments. We will trial electric delivery vans, with a plan of gradually rolling this out across the rest of our fleet.

The transition to some form of electric vehicles, whether Plug-in Hybrid Electric Vehicles (PHEVs), Battery Electric Vehicles (BEVs), or a combination of both, stands as a necessary step to reduce our organisation's carbon emissions.

Embracing electric vehicle technology is pivotal in our commitment to curbing our environmental impact and adopting a more sustainable operational framework.

Decarbonise Company Fleet

Decarbonising company cars aligns with the broader strategy and will likely follow a similar trajectory as previously outlined. In this context, Plug-in Hybrid Electric Vehicles (PHEVs) are a probable focus due to their capacity to accommodate longer distances and provide flexibility, particularly in regions with limited electric infrastructure. Moreover, the transition to PHEVs is anticipated to be gradual and staged, mirroring the process observed in other areas.

A portion of our organisation's vehicle fleet has already transitioned to electric models, marking an initial shift towards more sustainable transportation options. We have also introduced a salary sacrifice scheme for electric vehicles (EVs) to make EVs more accessible to our employees. The phase-out towards PHEVs and EVs will be implemented gradually and in stages. This approach is essential to ensure a smooth transition, allowing for a balanced integration of electric vehicles while considering operational needs and maximising environmental benefits.

Promote the Use of Public Transport and Virtual Meetings

As part of our ongoing commitment to environmental sustainability, the action plan includes encouraging employees to use public transport for business meetings and arranging for virtual ones whenever feasible. While we acknowledge that physical meetings are sometimes necessary or preferred, encouraging virtual meetings aims to prompt thoughtful consideration of daily choices rather than enforcing a strict policy. By opting for virtual meetings when suitable, we aim to minimise unnecessary travel, thus reducing our carbon footprint. This approach aligns with our environmental goals, fostering a culture of conscious decision-making regarding the environmental impact of our actions. While recognising the practicality and necessity of in-person meetings in certain circumstances, embracing virtual alternatives whenever possible contributes to our collective efforts to reduce emissions and promote sustainability. For any of the in-person meetings, the idea is to encourage either the use of public transport, or lower-emitting individual transportation where feasible.

This endeavour also involves sending informational reminders to raise awareness among employees about the impact of our daily commute on personal emissions. By highlighting these factors, we aim to encourage more sustainable commuting habits among our workforce.

EV Charging Points

Another proposed action includes the installation of Electric Vehicle (EV) charging points for company and employee cars. This initiative aims to encourage and facilitate the adoption of electric vehicles among our workforce. By providing a convenient and accessible EV charging infrastructure, we aim to support and incentivise employees who choose to drive electric cars. This may be different for each office, based on their location and access to public transport.

7 Roadmap

R&D/ Design & Manufacture

Research and Development plays a key role in adapting products to specific and changing needs. Our proposal is to consider the sustainability aspects of different processes to achieve innovative products that also enhance buildings' sustainability goals.

Decarbonise Products

We recognise that decarbonising the products we offer is an essential step towards net zero.
We are already transitioning our Radii aluminium profiles to a new billet that emits only 2.0kgCO2e/kg of aluminium. By making this change, these non-fire-rated products will showcase significantly lower embodied carbon, further enhancing their sustainability credentials. We are also already offering lower-carbon glass as a sustainable option, helping to reduce the carbon footprint of our materials.
We will then shift our focus to enhancing other components within our systems, working to further reduce their carbon footprint. This ongoing effort will involve carefully evaluating each element of our products and processes to identify opportunities for improvement. By prioritising sustainable design and material choices, we aim to make every part of our offering more environmentally friendly. Ultimately, these improvements will provide our clients with the opportunity to reduce their own carbon footprints. By selecting products with lower embodied carbon, our clients can play an active role in supporting sustainability goals, contributing to the reduction of global emissions.

Work with Clients to Promote Circularity

This initiative aims to engage with our clients to consider circularity during the early design stages of construction projects. The main objective is to promote re-use and closed-loop recycling processes whenever feasible. By initiating proactive discussions with clients, we encourage them to explore the potential for re-using our systems, as well as highlighting the challenges they may face when trying to re-use different materials. This involves incorporating re-use possibilities into building designs from the initial stage, allowing for flexibility and adaptability throughout the project's lifecycle.
The goal is to foster a mindset that prioritises sustainability and encourages the integration of circular practices into construction projects right from the design phase.

BIM

Carbon R&D: LCA for Products and Projects

This initiative is aimed towards expanding our understanding of the carbon and environmental impacts associated with our products and obtaining accurate information about our materials. We are committed to expanding the range of products that are covered by third-party verified Environmental Product Declarations (EPDs). These EPDs provide critical, transparent information about the environmental footprint of our products, offering clients a clear view of their overall environmental impacts throughout the entire lifecycle. By increasing the availability of EPDs across a broader selection of products, we aim to support our clients with the knowledge they need to make more informed and sustainable purchasing decisions. This initiative reflects our dedication to transparency, as well as our ongoing efforts to reduce the environmental impact of our products from production through to disposal. By ensuring that our products are backed by credible, verified data, we help clients better understand the environmental implications of their choices and support them in achieving their own sustainability goals.

While EPDs provide valuable insights into the carbon footprint of products, they may not always offer the level of precision needed for custom projects with unique material configurations and specific requirements. To address this gap, we are working towards incorporating Life Cycle Analysis (LCA) into our strategy for such projects. LCA will enable us to assess and generate tailored estimates of carbon footprints, taking into account the distinct materials, processes, and conditions of each project.
This approach will not only allow us to evaluate and compare various options more effectively but also ensure that we can provide our clients with the most accurate, data-driven advice for their specific needs. This will help our clients make more informed decisions, ultimately supporting their sustainability goals and contributing to more sustainable project outcomes.

BIM & Product Sustainability Integration

We recognise that accessing information is key to sustainability endeavours. This initiative aims to investigate the prospect of integrating product sustainability information with Building Information Modelling (BIM) tools. This has the potential to become an invaluable resource, updating the way we disclose and manage environmental impact within construction and design.
This integration could offer architects, engineers and builders a dynamic platform for accessing information and making informed decisions about material selection, construction methods and overall project sustainability.

Radii Planet Group

7 Roadmap

Radii Planet Group

Land, Air & Water

Land, air and water resources play a vital role in sustaining life on Earth, and it is important for us to understand how our actions and operations are connected to these.

Manufacturing Waste Review

The objective of this initiative is to explore opportunities to minimise waste within our operational processes. Currently, none of the waste from our manufacturing processes goes to landfill. We have implemented recycling processes for the main waste streams.
Additional improvement involves reviewing how we can further reduce or reuse our packaging. An important step in this effort involves assessing the extent of plastic being disposed of within our operations; the predominant source of this waste stream is the packaging of the products we acquire. While the majority of this plastic is recyclable, it needs processing through specialised services. Our objective is to conduct a review of this waste stream, with the aim of increasing the percentage that undergoes recycling. The next step is to collaborate with our suppliers to explore possibilities for minimising the volume of packaging they employ. By actively engaging with our suppliers, we aspire to collectively reduce the environmental footprint associated with packaging materials, encouraging a more sustainable approach to our waste management.

Office Waste Review

We have successfully implemented an enhanced recycling station at our Consort Way and Edward Way offices. Apart from the standard dry mixed and glass recycling, we also recycle metalised and soft plastics. We intend to review our recycling in the other offices, extending our action to these locations.
As part of our initiative, we're focusing on raising employee awareness about waste reduction. At Consort Way and Edward Way, we distributed informative leaflets on minimising waste. We plan to expand this effort to all offices, providing educational materials to empower employees in fostering a sustainable workplace. This approach emphasises both organisational waste management practices and individual contributions to our sustainability goals, aiming to create a culture that considers resource efficiency.

Further Improve Packaging Design

This initiative's objective is to conduct a reassessment of our product's packaging. We have taken steps to increase the recycled content of our packaging and optimise the amount of material being used while preventing damage to materials on-site as much as possible. The bespoke nature of our business presents significant challenges when it comes to packaging. Nonetheless, a further review remains on our list to analyse whether we can replace some non-recyclable materials. The goal is to continue exploring alternative materials that are both recyclable and cost-effective, potentially replacing the existing non-recyclable components. Where direct substitution proves unfeasible, the focus will shift towards innovative packaging design that enables easy recovery from project sites, to be re-used on other projects.

RPG Volunteering Days

The proposed volunteering days are an opportunity for our entire organisation to actively participate in actions that bring environmental benefits. This may involve diverse activities, ranging from tree planting and community cleanups, to habitat restoration. The intention is not only to foster a collective commitment to environmental objectives but also to provide teams with the flexibility to contribute to causes to which they might have an affiliation.

7 Roadmap

Governance

This section plays a role in ensuring adherence to established standards and regulations and tracking progress. This not only cultivates responsible practices, but also enhances credibility and competitiveness in an industry progressively focused on environmental responsibility.

Net Zero Implementation & Monitoring

In response to the Climate Change Committee's 2019 recommendation, the UK Government formally pledged to achieve net zero status by 2050. This commitment mandates a reduction of greenhouse gas emissions by 100% from 1990 levels[11].

Setting early targets for net zero not only prepares us for future regulations but also demonstrates our commitment to climate change efforts.

The objective of this action item is to implement and monitor the effectiveness of the Group's Net Zero Plan. Annual carbon reporting will play an essential role in this initiative, serving as the framework for validating our annual emissions and tracking reductions. By diligently reporting on our progress and outlining specific strategies, we aim to uphold our commitment to sustainable practices and contribute significantly to the broader global effort to combat climate change.

Radii Planet Group.

Science-Based Targets Initiative (SBTi)

The SBTi (Science Based Targets Initiative) is a collaborative effort involving CDP, the United Nations Global Compact, the World Resources Institute (WRI) and the World Wide Fund for Nature (WWF). The SBTi provides a standardised methodology for organisations to establish carbon emissions reduction targets aligned with the Paris Climate Agreement. These are scientifically substantiated emissions targets that align with the latest advancements in climate science.

Participating in the Science Based Targets Initiative and having these targets officially approved represents an industry-recognised and credible demonstration of a firm commitment to adopting leading sustainability practices. Our aim is to have our science-based targets submitted for validation by 2026.
From this point, our aim is to achieve the yearly emissions reduction established in the SBTI. This will provide concrete steps towards our ongoing commitment towards climate action.

[11] https://lordslibrary.parliament.uk/mission-zero-independent-review-of-net-zero/#:~:text=The%20'net%20zero%20target'%20refers,the%20UK%20from%20the%20environment.

Radii Planet Group.

Carbon/Environmental Reporting & Emissions Verification

We are proud to announce that we have joined the Toitū Carbon Reduce Programme through Achilles and are now a Toitū Carbon Reduce certified organisation. This involves measuring, managing, and later verifying the operational emissions of our organisation, including business travel, electricity, vehicles and offices, in accordance with ISO 14064-1 and the GHG Protocol. By adhering to the ISO14064-1 standards, which specifically focus on greenhouse gas measurement and reporting, we demonstrate our commitment to transparency and accountability in our sustainability efforts.

Currently, our emissions data does not include all indirect Scope 3 emissions. Our objective is to include more emissions categories to be 3rd party verified, enhancing our tracking and reporting capabilities. This means that our emissions reduction initiatives will be more comprehensive, encompassing all our emissions, and progress towards achieving net zero will be supported by robust and verifiable claims. By maintaining a transparent approach to reporting and verifying our emissions, we aim to uphold the highest standards of accountability while we take active steps towards net zero.

7 Roadmap

ISO14001 – Environmental Management System

ISO 14001 serves as the globally recognised benchmark for environmental management systems (EMS), offering organisations a structured framework to plan, implement and consistently enhance their environmental performance. Adhering to this standard allows organisations to proactively reduce their environmental impact, maintain compliance with pertinent legal requirements and achieve their environmental objectives. The framework addresses various facets, ranging from resource utilisation and waste management and the ongoing monitoring of environmental performance with active involvement of stakeholders in environmental commitments[12].

Our constant dedication to obtaining and maintaining this accreditation over the years underscores our commitment to environmental excellence.

This commitment will persist as part of our plan, showcasing our continuous efforts to meet environmental standards and expectations.

Maintaining and Updating Products and Project-specific EPDs

Our goal is to expand the coverage of Environmental Product Declarations (EPDs) across our product ranges. This means adding more product ranges that are covered by EPDs and ensuring that the EPDs we currently have are maintained and updated.

EPDs provide transparent information about a product's environmental performance throughout its lifecycle, allowing for comparisons between different materials' environmental impacts. By obtaining EPDs for additional product ranges beyond those already covered, we can provide information for informed decision-making regarding material selection. Additionally, maintaining and updating our existing EPDs ensures that they remain accurate and up-to-date, reflecting any changes or improvements in our products' environmental performance over time.

[12] https://www.iso.org/standard/60857.html

8 Closing thoughts

This document signifies our commitment to reducing our carbon impact and highlights the roadmap we aim to follow to achieve this goal. It outlines our strategic approach across various sustainability aspects, including energy, transport and travel, design and manufacture, and land, air, and water. By setting clear objectives and actionable milestones, we are taking deliberate steps to address our environmental footprint, ensuring that our efforts are comprehensive, measurable, and aligned with our broader sustainability goals.

Our near-term objectives provide the foundation from which we will take deliberate and impactful steps to reduce our carbon footprint. However, we recognise that achieving net zero is not a static process, and the pathway will require continuous refinement and adaptation. Therefore, we will regularly review and assess our progress, ensuring that the objectives we set remain relevant, achievable, and aligned with our overarching environmental goals.
This journey requires collaboration, transparency, and resilience, and we will engage all levels of the organisation and key stakeholders in driving our goals forward.

Our commitments are more than a set of targets — they reflect our values and dedication to a sustainable future.
We are confident that, through our strategic approach and ongoing commitment to improvement, we will not only meet our near-term goals but also drive lasting, meaningful change that contributes to a healthier planet for future generations.

Beth Zotti
Environmental and Sustainability Manager

Radii Planet Group

If you want to get in touch please contact us at

T. 01444 237 300
E. sustainability@radiiplanetgroup.com
W. www.radiiplanetgroup.com

Head Office
Radii Planet House, Edward Way
Burgess Hill, West Sussex RH15 9TZ