

The background of the advertisement is a photograph of a modern building with a large, cantilevered upper section. The building is dark, and the sky is a clear, deep blue. In the bottom left corner, the masts and rigging of several sailing ships are visible against the horizon. Overlaid on the right side of the image is a large, semi-transparent graphic consisting of a grid of blue lines that form a series of overlapping, stylized 'X' or 'Z' shapes, creating a sense of depth and architectural structure.

ARO

Climate and Net-Zero Solutions

Start your journey towards
Net-Zero with us today

ARO Climate and Net-Zero Solutions

About ARO

We are grounded in the belief that every business has the responsibility to minimise its carbon footprint and adopt sustainable energy practices. At ARO we operate on the principles of innovation, striving to provide cutting-edge, customised solutions that can not only reduce your environmental impact, but also enhance operational efficiency.

We are fostering a collective dedication to a greener, more sustainable future for all.



The pursuit of a Net-Zero economy is not an option, but a necessity.

The urgency of preventing the worst extremes of a changing climate is driving investors, companies, financial intermediaries and policymakers across the world to sharpen their focus on efforts to drive down greenhouse gas (GHG) emissions to Net-Zero.

The UK was the first major economy to set a legally binding commitment to reach Net-Zero by 2050. This only means that companies of all sizes are required to take more meaningful actions to reduce their enterprise-wide emissions and adopt more sustainable business standards and procedures.

With mounting pressures to act, your company is now faced with numerous environmental standards, protocols, and criteria related both to the identification and strategic reduction of emissions but also the challenging task of managing supply chain operations.

This can all be overwhelming, especially when it is hard to know where to start, what should be prioritised and how to ensure financial resilience along the way. We know it is not an easy journey, but we are here to guide you through a Net-Zero journey which doesn't disturb but improves your operations.

This is a process that takes time and requires specialised expertise – **at ARO we take this burden away from you, just so you can focus on running your business.**

We explore the meaning of Net-Zero and explain how we can help your business to devise and implement its own decarbonisation plan in six practical steps.

What is 1.5° C and why is this essential?

There is so much drive and focus around sustainability topics such as Net-Zero, but little understanding around the practical application of what it means, how to begin a decarbonisation journey and how to accelerate towards it.

Through modelling several climate transition scenarios, the UN Intergovernmental Panel on Climate Change (IPCC) has shown that global emissions need to be reduced by 30–50% no later than 2030, for us to have a chance of limiting global temperature increases to 1.5°C. This means that if the Paris Agreement objectives are to be taken seriously, we need to start making substantial progress now.

What are the risks of climate change for my company?

According to the Government's *Task Force on Climate Related Financial Disclosures* (TCFD), climate risks can refer to:



Transitional Risks

A reduced carbon economy can involve legal, technology, policy and market changes that may pose a variety of financial and reputational risks.



Physical Risks

Direct and indirect impacts on your supply chain, assets and people through extreme weather conditions (ie. storms, floods and other natural disasters) or longer-term changes in climate patterns.

Efforts to mitigate and adapt to these risks also produce opportunities for organisations.

These can include:

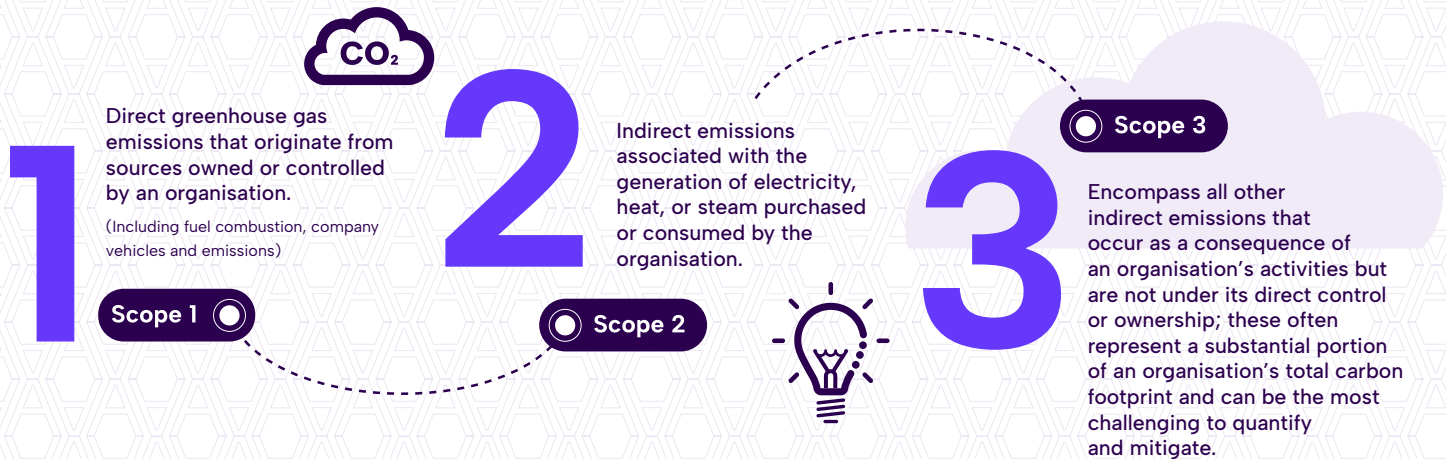
- Resource efficiency and cost savings.
- The adoption of low-emission energy sources.
- The development of new products and services.
- Access to new markets, building resilience along the supply chain.

All while meeting the Scope 1, 2 & 3 emission requirements.

ARO Climate and Net-Zero Solutions



What are Scope 1, 2 and 3 emissions?



Net-Zero vs Carbon Neutral

Often used interchangeably, the terms carbon neutral and Net-Zero could represent very different approaches to decarbonisation and combatting climate change.

With the rapid rise in companies and governments announcing various forms of setting Net-Zero goals, you may be thinking, which one is better and how to choose the most suitable approach?

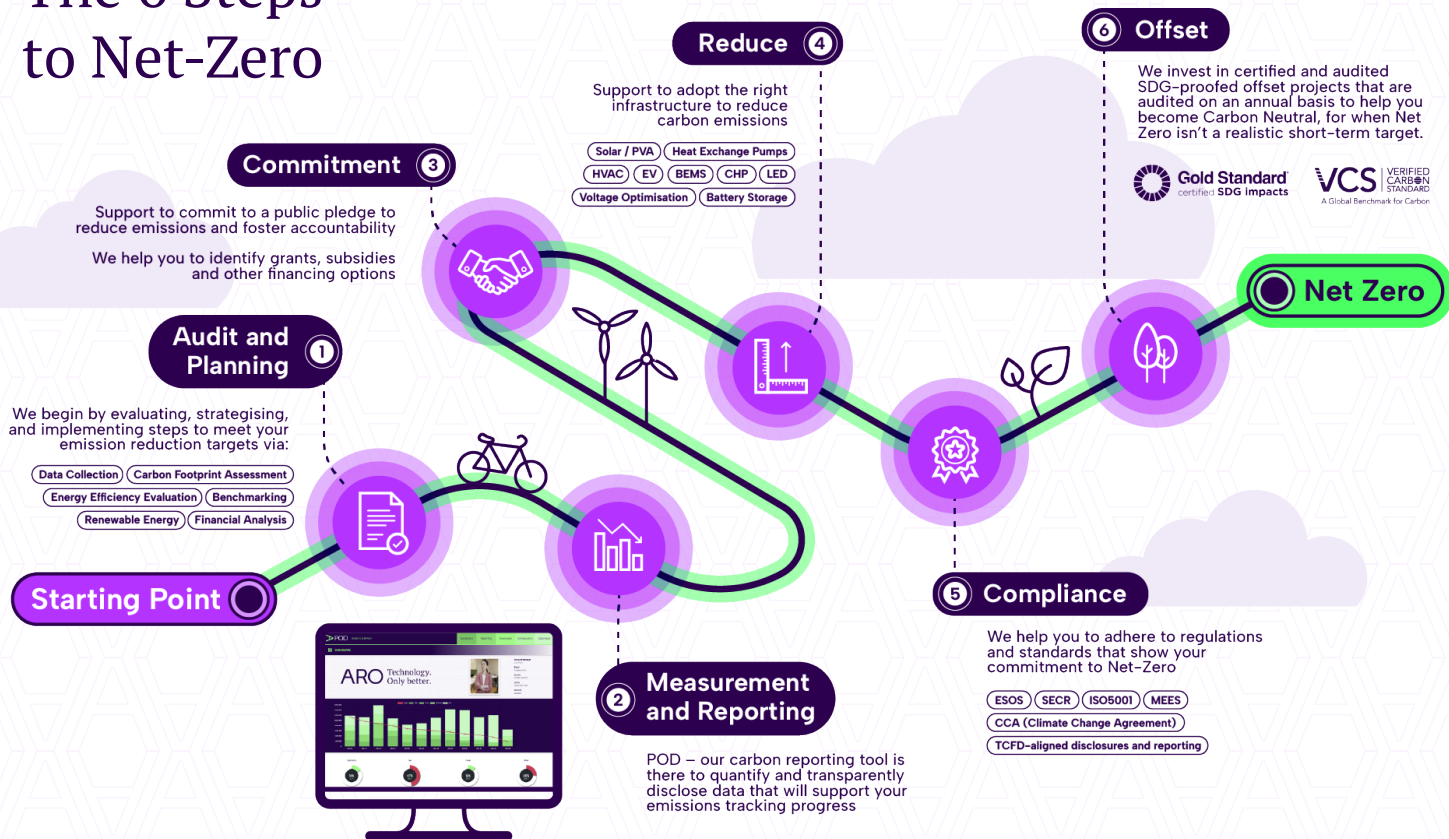


Carbon Neutral refers to balancing the amount of carbon dioxide emissions produced with an equivalent amount of carbon dioxide removed from the atmosphere or prevented from being released, resulting in a Net-Zero carbon footprint.



Net-Zero occurs when an entity or system emits no more greenhouse gases into the atmosphere than it removes or offsets, effectively resulting in a balance between emissions and emissions reductions.

The 6 Steps to Net-Zero





① Audit and Planning

Data collection

We gather data on your company's energy consumption, including electricity, heating, cooling, transportation, and other relevant sources.

Carbon Footprint Assessment

We calculate the carbon footprint by quantifying GHG emissions associated with your operations, including direct emissions (Scope 1) and indirect emissions from energy consumption (Scope 2) and value chain (Scope 3).

Energy Efficiency Evaluation

We assess the efficiency of equipment, systems, and processes within the company and identify areas where energy efficiency improvements can be made by setting both short and long-term goals.

Benchmarking

We compare your company's energy consumption and efficiency metrics with industry benchmarks to understand its performance relative to peers.



Renewable Energy

We explore options for purchasing renewable energy from external sources, such as Power Purchase Agreements (PPAs) or Renewable Energy Certificates (RECs).

Financial Analysis

We perform a financial analysis to assess the potential costs and benefits of different sustainability initiatives. This includes estimating energy cost savings, payback periods, return on investment, and available incentives.



We will deliver a quantified starting point and a realistic plan of action to cover both your organisation and the relevant elements of your upstream supply chain.



ARO Climate and Net-Zero Solutions



② Commitment

We work closely with companies to understand their operations, goals, and challenges, and then develop a tailored Net-Zero strategy that aligns with their unique circumstances, such as energy consumption, supply chain, transportation, and waste management.

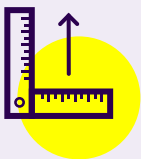
Financial Support

We offer guidance to identify available grants, subsidies, and financing options that can support the implementation of emission reduction projects.

Public Commitments

Support to establish a public commitment to Net-Zero via initiatives such as the Taskforce Climate Financial Disclosures (TCFD) and Climate Change Agreements (CCA) following Science Based Targets (SBTs) or a different initiative that helps companies to set emission reduction targets in line with climate science and Paris Agreement goals:

- Account for GHG emissions across the value chain.
- Include achievable, short-term targets as well as a long-term goals.
- Limit carbon offsets to cover no more than 5-10% of GHG emissions.



③ Measurements and Reporting

Your progress: We establish key performance indicators (KPIs) to track progress toward Net-Zero goals by setting up systems to regularly monitor energy consumption, emissions, and other relevant metrics.

POD – Our real-time carbon reporting tool gives you full access to energy data, management and analysis and is instrumental in your Net-Zero journey.





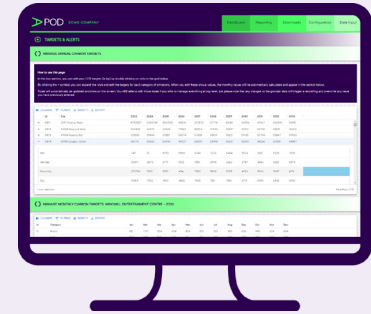
Consumption Reporting

Detect and eliminate energy waste and gain a detailed and broad picture of where, how much and when your organisation is using energy – across all utilities. You will gain access to detailed consumption reports that can drill down to 30-minute segments



Carbon Reporting

POD collects carbon data from energy meters and data sensors across all of your commercial sites and stores. It is also linked to airline, hotel and vehicle databases which make it easier for you to record the other carbon scopes.



Performance vs Target

Targets can be set over any period (at site or element level) that is matching your sustainability goals. The reports will show progress vs targets over time and are automatically updated on a monthly basis.



Scope 1,2,3 representation

POD is configurable to be a central depository for all your other carbon recording. Data is displayed showing the largest contributors towards your carbon emissions and can also be downloaded categorised into Scope 1,2 and 3 emissions

Contracts

All energy management documentation automatically stored in one place, ready for you whenever you need it.

Reporting Pack available for stakeholders

POD stores all carbon data in easily accessible databases, ready to be used for government submissions or management reporting.



④ Reduce •

We work with the UK's leading suppliers of Energy Efficient and Carbon reducing infrastructure that will make significant improvements to your plans via:

Solar / PVA

Access to a sustainable and cost-effective energy solution that:

- Aligns with advanced technology and energy storage solutions, ensuring a stable and uninterrupted power supply.
- Reduces reliance on the grid, so businesses can become more resilient to power outages ensuring uninterrupted operations even during emergencies.
- Stands for long-term investments with a typical lifespan of 25–30 years; we provide expertise in system maintenance and performance monitoring, ensuring the solar infrastructure's longevity.

Heat Exchange Pumps

Provide your business with efficient heating and cooling systems, while lowering energy bills, reducing GHG emissions, and improving indoor comfort. Our support covers:

- Identifying suitable systems and incentives or rebates to ensure substantial savings on utility bills.
- Regular maintenance that not only prolongs the system's lifespan but also prevents unexpected breakdowns, reducing downtime and associated business disruptions.

Heating, Ventilation, and Air Conditioning (HVAC)

It can play a crucial role in enhancing the productivity and wellbeing of businesses:

- It creates a comfortable indoor environment, ensuring employees work efficiently without being affected by extreme temperatures.
- Quality can improve by filtering out pollutants and regulating humidity.
- Can be pivotal for maintaining optimal conditions for sensitive equipment, such as servers and electronics, preventing overheating and ensuring their longevity.
- Significantly lower utility bills, contributing to cost savings and improved financial sustainability.

Electric vehicles (EVs)

EVs provide businesses with reduced fuel and maintenance costs, tax incentives, leading to increased operational efficiency and savings:

- Opportunity to align your business to eco-friendly practices, reduced carbon emissions, and enhanced corporate social responsibility.
- Be acknowledged as a forward-thinking, socially responsible organisation, that attracts environmentally conscious customers.

Building Energy Management Systems (BEMs)

Multifaceted benefits for your business:

- Enable real-time monitoring and control of energy usage, allowing companies to optimise their HVAC, lighting, and other systems based on occupancy patterns, leading to substantial energy savings and reduced operational costs.
- Facilitate data-driven decision-making by providing insights into energy consumption trends enabling you to identify inefficiencies and implement targeted solutions.
- Prolongue equipment lifespan through predictive maintenance, by reducing repair costs, and maintain a reliable and efficient operational environment.

Combined Heat and Power (CHP)

CHP can simultaneously generate electricity and useful heat from a single energy source, leading to increased energy efficiency, reduced costs, and enhanced sustainability:

- Reduce energy costs and save money, making CHP a financially attractive option, especially in industries with high and continuous energy demands.



LED

Access to enhanced lighting quality, leading to reduced electricity bills and lower maintenance expenses.

We can help with:

- Analysis of energy usage patterns and recommendations of tailored LED solutions to optimise energy efficiency.
- Detailed financial analyses, including cost-benefit projections, ROI calculations, and available incentives, helping you to make informed decisions about the implementation of LED technology.
- We oversee the entire implementation process, from procurement and installation to testing and maintenance.

Voltage Optimisation

Energy storage optimisation services enable businesses to store excess energy during off-peak hours or when renewable sources are abundant. This stored energy can be used during peak demand periods, reducing reliance on the grid and minimising electricity costs.

We can assist with:

- Designing tailored solutions, to match your unique requirements and budget constraints.
- Navigating the complex landscape of regulations and incentives via cost projections, payback periods, and potential savings.

Battery Storage

Store excess energy during low-demand periods, reduce reliance on the grid during peak hours and consequently lower electricity costs.

Our support will cover:

- Backup power during grid outages, to cater for uninterrupted operations, data security, and customer service even in emergencies.
- Design of resilient energy storage systems, guaranteeing seamless integration with existing infrastructure and reliable backup power.
- Assistance to sell surplus stored energy back to the grid and generate additional revenue.

Results from partners we work with to deliver bespoke solutions:

49%

reduction in energy usage in offices resulting in **£163,000 saved per year** and **39 tonnes CO2e saved**

30%

reduction in energy usage in schools and **£103,644 saved per year** and **356 tonnes CO2e saved**

20%

reduction in energy usage in concert halls resulting in **£66,000 saved per year** and **41 tonnes CO2e saved**



⑤ Compliance •

We keep pace with evolving environmental regulations and standards and can guide companies in staying compliant with reporting requirements and emissions targets set by regulatory bodies.

Energy Savings Opportunity Scheme

(ESOS) Mandatory energy assessment and reporting program for large enterprises. It requires eligible organisations to conduct energy audits of their operations, identify energy-saving opportunities, and report compliance to the government to promote energy efficiency and reduce greenhouse gas emissions.

Streamlined Energy Carbon Reporting

(SECR) Government framework that mandates companies to disclose their energy consumption, carbon emissions, and energy efficiency measures in their annual reports. SECR applies to a broader range of organisations than its predecessor, the Carbon Reduction Commitment (CRC), and aims to increase transparency and encourage businesses to reduce their carbon footprint.

ISO5001

The international standard for energy management systems that provides a framework for organisations to establish, implement, maintain, and continually improve their energy performance. It helps businesses and institutions systematically manage energy use, reduce consumption, and lower greenhouse gas emissions while promoting energy efficiency and sustainability.

“
Navigating the complex landscape of energy compliance, ESOS in particular, would have been complicated without the expertise and guidance provided by ARO. They are not only ensuring our adherence to regulations, but are also outlining ways in which we can streamline our processes seamlessly.”

Minimum Energy Efficiency Standards

(MEES) A UK legal requirement that prohibits the rental of commercial and residential properties with an Energy Performance Certificate (EPC) rating below a specified minimum level (usually an E rating). MEES aims to improve the energy efficiency of buildings, reduce carbon emissions, and lower energy bills for tenants by setting a baseline standard that landlords must meet before renting out their properties.

Taskforce on Climate Related Financial Disclosures

(TCFD) A global initiative that provides recommendations for organisations to disclose climate-related financial risks and opportunities in their public financial reports helping investors and stakeholders make informed decisions in a changing climate landscape.

Climate Change Agreements

(CCA) Voluntary agreements between the government and energy-intensive industries to reduce energy consumption and carbon emissions. In exchange for meeting specified energy efficiency and emissions reduction targets, participating companies receive certain exemptions and reductions in energy-related taxes, providing an incentive for industrial sectors to improve their environmental performance.



⑥ Offset •-----

Carbon offsetting is being widely challenged, with the negative press around it, making it somewhat a non-desirable strategy for companies, but we believe, if managed transparently, it can play a vital role in the journey to Net-Zero.

At ARO we invest in projects certified to international standards that are audited on an annual basis and are contributing to achieving UN's Sustainable Development Goals (SDGs).

We establish a baseline for your company's emissions, providing a starting point against which progress toward Net-Zero can be measured including the:

- ✓ **Evaluation of the credibility and impact of potential offset projects by assessing factors such as additionality, permanence, verifiability, and community benefits.**
- ✓ **Allocation of a suitable budget for offsetting initiatives, considering factors such as emission reduction costs and the price of offset credits.**
- ✓ **Ensure that your company accurately reports its offset activities and emissions reductions in accordance with relevant reporting frameworks and regulations.**

In partnership with Climate Partner we can offer training sessions or educational materials to help employees understand the concept of offsetting, its importance, and your company's commitment.



A Net-Zero journey is crucial for businesses in the UK due to its potential to drive significant cost savings through energy efficiency measures and sustainable practices, thus improving their bottom line and competitiveness. Embracing sustainability aligns with changing consumer preferences and investor expectations. It can enable your business to attract a growing base of eco-conscious customers and secure financing from green investors.

Pursuing Net-Zero goals will put your business in a favourable position to navigate evolving environmental regulations, mitigating the risks while enhancing long-term business resilience.

Start your Net-Zero
Journey with ARO today

More details available [here](#)

ARO Climate and Net Zero Solutions



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Digital & App Innovation
Azure

 **Microsoft**
Solutions Partner
Modern Work

 **Microsoft**
Solutions Partner
Infrastructure
Azure




GOLD PARTNER


DIAMOND PARTNER


Secure First • Platinum •



 **Gamma**
Platinum Partner

 **Dell Technologies**
PLATINUM PARTNER

