



Net Zero Roadmap

For Sustainable Construction

Contents

01

Measurement of Energy in Offices

02

Measurement of Transport

03

Measurement of Fuel

04

Measurement of Materials

05

Verification

06

People

07

Net- Zero Targets

Background

HARTE CIVIL ENGINEERING was founded in by Patrick Harte in 2005 with offices in Roscommon, Dublin and Birmingham.

Harte Civil Engineering operates across all sectors in both the UK and Ireland. We specialise in site development, groundworks, pipeline construction, utilities installation. We operate a large in-house plant fleet to adapt to all projects.

Harte Civil Engineering employs a team of Civil Engineers and skilled civil workers. We pride ourselves on our ability to complete complex projects in Ireland and the UK.

Harte Civil Engineering can offer you a cost-effective, flexible, professional service for all of your project requirements.

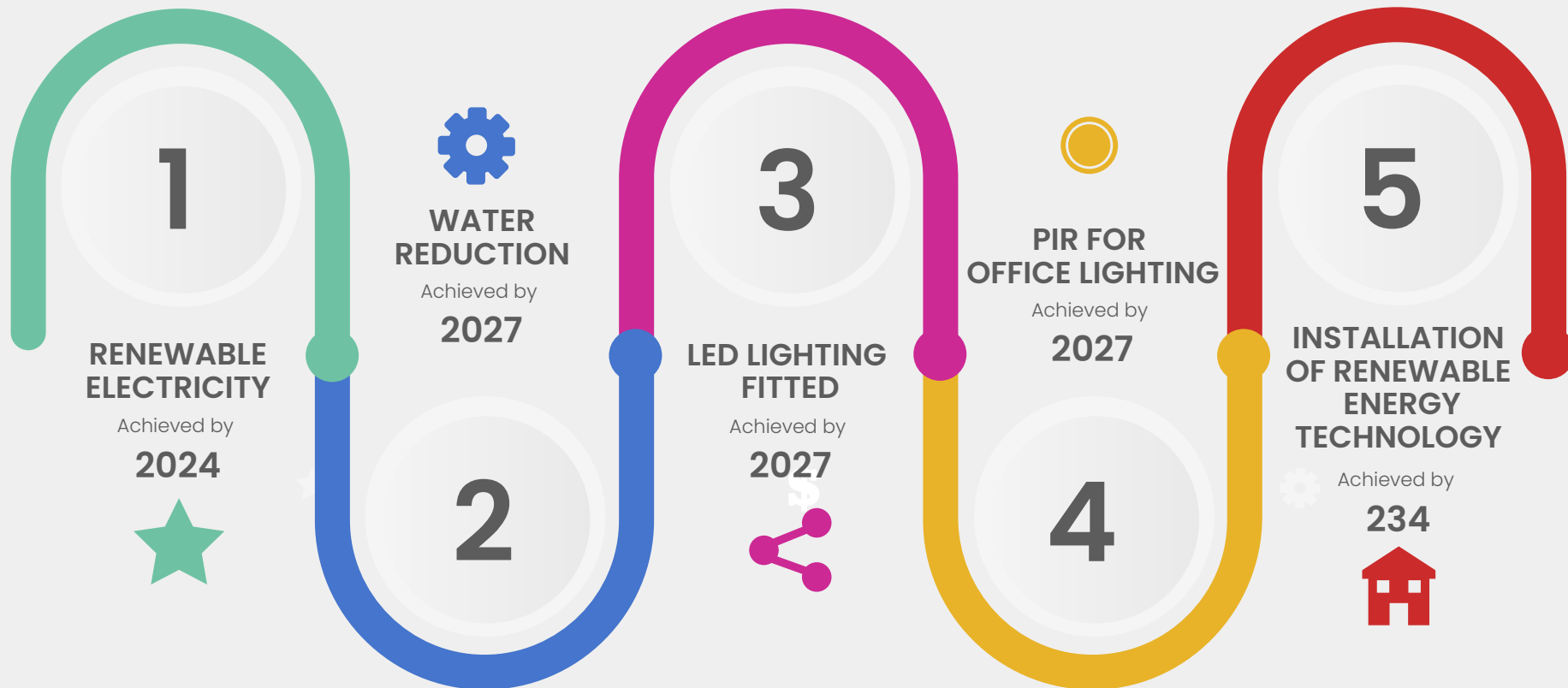


Measurement of Energy in Offices

Harte Civil Engineering’s net zero plan for office energy measurement focuses on reducing energy consumption and maximizing efficiency. The strategy includes the implementation of smart meters to monitor and analyze energy

use in real-time, enabling the identification of areas for improvement. The company will prioritize energy-efficient lighting, heating, and cooling systems, alongside renewable energy sources such as solar panels.

Regular energy audits will ensure that offices operate at peak efficiency, contributing to the overall goal of reducing carbon emissions and achieving net zero.



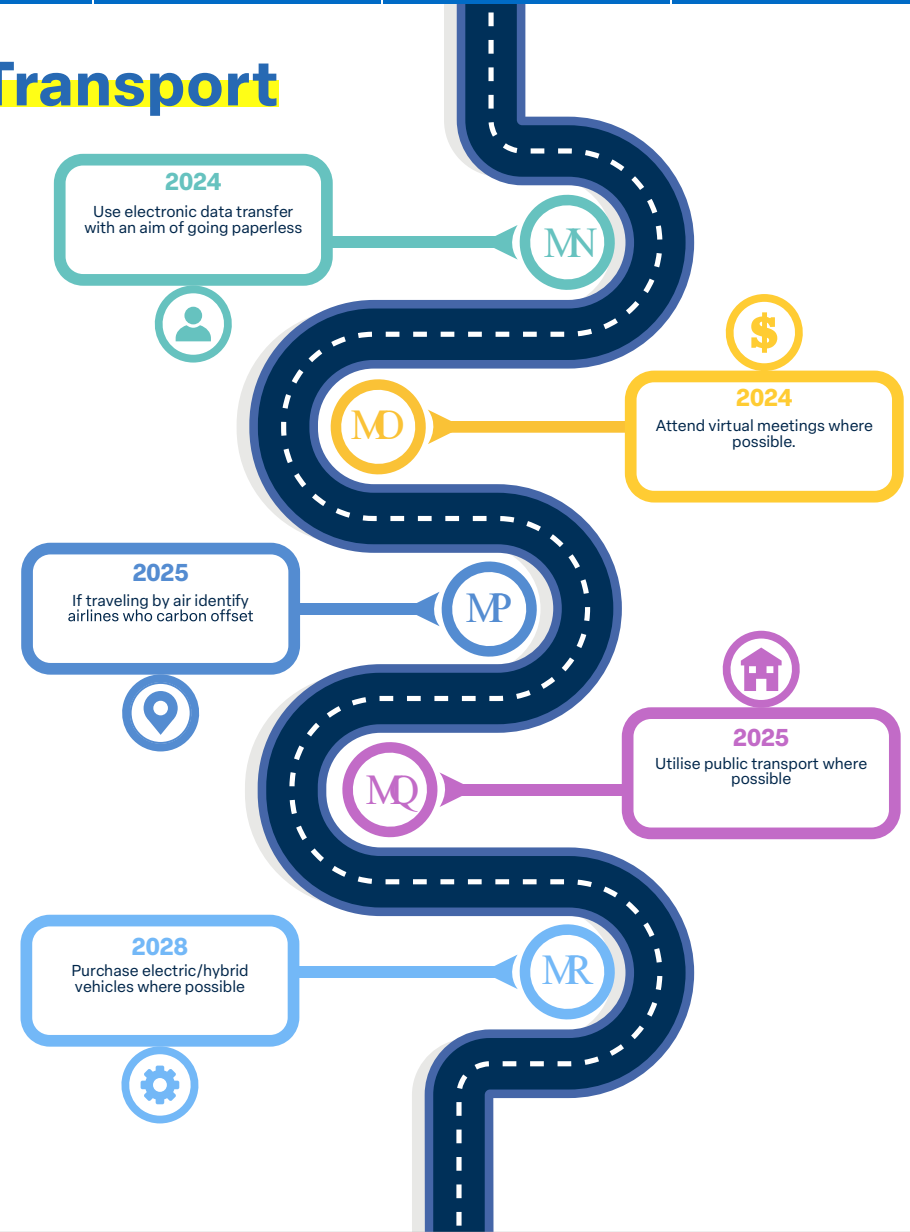


Measurement of Transport

Harte Civil Engineering’s net zero plan for measuring usage of transport, aiming to significantly reduce carbon emissions associated with employee commuting and business travel. The plan includes tracking and analyzing transportation data, such as fuel usage and mileage, to identify opportunities for improvement.

Measurement of Company Transport

The company will prioritize purchasing electric or hybrid vehicles, using public transport, and choosing airlines that offer carbon offset programs for necessary air travel. To further minimize environmental impact, Harte will encourage virtual meetings and aim to go paperless by adopting electronic data transfer systems. These initiatives align with the company’s commitment to achieving net zero emissions.



Measurement of Fuel

Harte Civil Engineering's net zero incentives include adopting electric or hybrid vehicles. Our new plant will meet at least Euro 6 standards, for plant and off-road machinery. The company will leverage the latest technologies and utilize drones for efficient project inspections and surveys. Trial the usage of Hydrotreated Vegetable Oil (HVO), which is a fossil free alternative to mineral diesel, resulting in up to 90% reduction in Greenhouse Gas emissions.

By prioritizing the employment of local labour this will also reduce the fuel usage travelling to and from work. These measures collectively drive the company towards its net zero goals while enhancing operational efficiency and sustainability.

Key Benefits



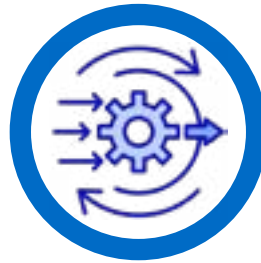
Benefit 1

Environmental Impact



Benefit 2

Enhanced Reputation and Compliance



Benefit 3

Energy Independence



Measurement of Materials

Harte Civil Engineering’s net zero plan for material measurement focuses on sustainable sourcing and efficient use. The company prioritizes purchasing local recycled materials and ensures all timber is sourced from FSC or PEFC-certified suppliers. By identifying local stockists, Harte reduces transportation emissions

and supports regional economies. Additionally, the company collaborates with asset owners and clients to explore alternative designs that minimize material use and environmental impact. These practices help Harte Civil Engineering measure and manage materials in a way that aligns with its net zero objectives.





Verification

Advance from UKAS Standard ISO 14001:2015 to ISO 50001 by 2030

Harte Civil Engineering has successfully achieved accreditation to the UKAS Standard ISO 14001:2015, demonstrating its commitment to effective environmental management. This certification underscores the company's dedication to minimizing its environmental impact through a structured approach to sustainability. By adhering to ISO 14001:2015, Harte ensures that its operations meet rigorous environmental standards, reflecting its ongoing efforts to reduce waste, conserve resources, and manage environmental risks.

Building on this achievement, Harte Civil Engineering has set an ambitious goal to obtain ISO 50001 certification by 2030. ISO 50001 focuses on energy management, and achieving this standard will further enhance the company's ability to optimize energy use, reduce costs, and lower its carbon footprint. This commitment to energy efficiency aligns with Harte's broader sustainability objectives and demonstrates a proactive approach to managing energy resources responsibly.

To reach ISO 50001, Harte Civil Engineering plans to implement comprehensive energy management practices, including detailed energy audits, monitoring systems, and strategic energy-saving initiatives. The company will integrate these practices into its existing environmental management framework, leveraging insights gained from ISO 14001:2015 to drive continuous improvement in energy performance. This strategic approach will ensure that the transition to ISO 50001 is seamless and effective.

Harte Civil Engineering's pursuit of ISO 50001 by 2030 represents a significant step forward in its sustainability journey. By achieving this certification, the company will not only enhance its energy management capabilities but also reinforce its commitment to reducing environmental impact. This goal reflects Harte's dedication to leading by example in the industry, showcasing its proactive stance on both environmental and energy management challenges.

People

To ensure stakeholder engagement

Keeping stakeholders engaged in a net zero plan is vital for ensuring alignment, support, and collaboration. Active engagement builds trust, fosters transparency, and encourages collective responsibility, making it easier to overcome challenges and refine the strategy. By involving stakeholders, Harte Civil Engineering can secure valuable insights and widespread commitment, turning the plan into a shared mission for success.



Customer Engagement:

Objective: Inform and engage customers in net-zero initiatives.

Support customers aims and objectives.
Issue documented evidence of our map and strategy.



Feedback Mechanisms:

Objective: Establish channels for stakeholders to provide feedback and suggestions.

Client satisfaction surveys, internal feedback and improvement programmes.



Local Community Engagement:

Objective: Collaborate with local communities to foster support and cooperation.

Identify local forums to enable engagement.
Attend local meetings in regard to government and client incentives



Transparency and Trust Building:

Objective: Build trust through transparent communication and actions.

Agenda items on management meetings. Website adaption. Social media updates. Open communications with employees and stakeholders



Net-Zero Targets

Harte Civil Engineering is making significant strides toward meeting its net zero targets through a comprehensive approach that integrates sustainable practices across all operations. The company has adopted electric and hybrid vehicles, utilizes advanced technologies like drones, and prioritizes the use of recycled materials and locally sourced resources. Additionally, Harte ensures all timber meets FSC or PEFC standards and seeks innovative design solutions in collaboration with clients to minimize environmental impact. These efforts, coupled with ongoing commitments to energy efficiency and environmental management, position Harte Civil Engineering as a leader in sustainability, driving the company closer to its net zero goals.

