

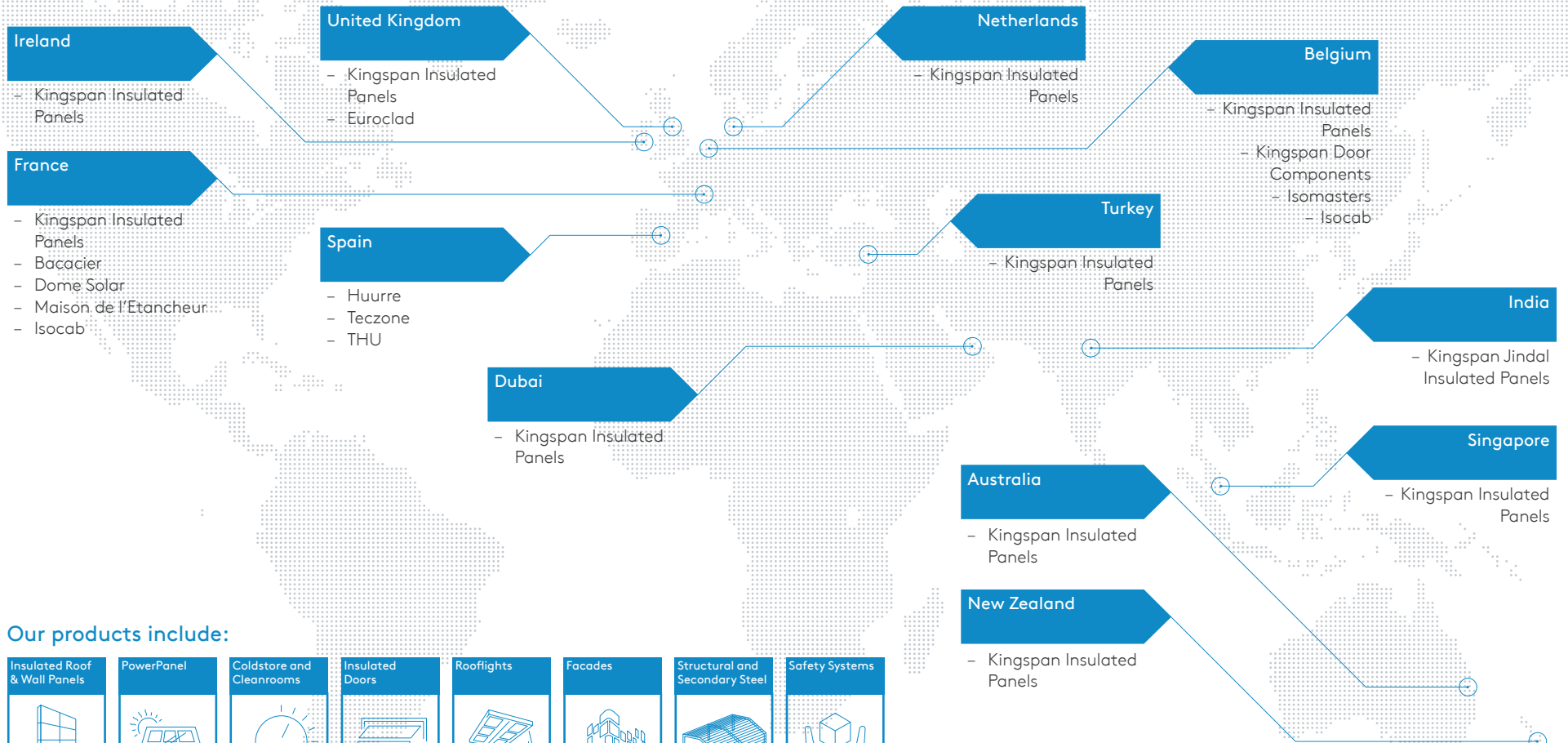


PLANET
PASSIONATE

A Passion for Change

Kingspan Insulated Panels – West region
Sustainability Report 2021
Executive Overview

Overview of Our Business in 2021



Our products include:

<p>Insulated Roof & Wall Panels</p>	<p>PowerPanel</p>	<p>Coldstore and Cleanrooms</p>	<p>Insulated Doors</p>	<p>Rooflights</p>	<p>Facades</p>	<p>Structural and Secondary Steel</p>	<p>Safety Systems</p>
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Overview of Our Business

Kingspan Insulated Panels – West region in numbers:

3347 

Employees

2 

Business Acquisitions

8 

Product & Solution Ranges

37 

Manufacturing Sites

12 

Countries

9 

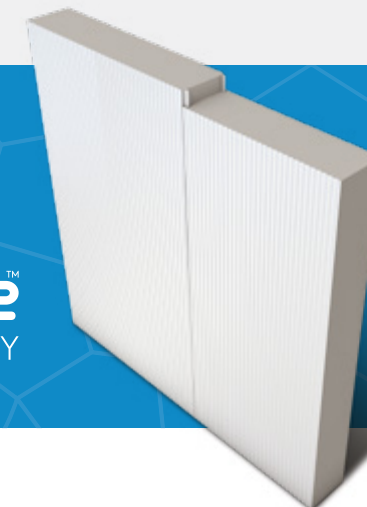
Business Brands

5 

Sales Offices

QuadCore™ is the next generation of insulation core, unique to Kingspan, that delivers the highest performance of any closed cell insulation core across four performance metrics: thermal, fire, environmental and longevity.

POWERED BY
QuadCore™
TECHNOLOGY



A Word From Our Managing Director

“““

At Kingspan, we are committed to operating a more sustainable business that delivers sustainable solutions to help tackle some of the global challenges that we are now facing.

Gilbert McCarthy
Divisional Managing Director



We're pioneering new technologies and better ways of building for a low carbon future. Improving building performance, construction methods and ultimately people's lives is what drives our teams across the world.

I am delighted to introduce our Kingspan Insulated Panels Sustainability Report 2021 for the West region. Reflecting on the landscape of the last year, I want to take this opportunity to thank our employees for pulling together to deliver what was not only an excellent year for the business, but a real step change when it comes to our sustainability programme, Planet Passionate.

Now, 2 years into our ambitious Planet Passionate programme, we are beginning to see real progress against our targets. This has been achieved through building our in-house sustainability team and focussing on data collection and accuracy, ensuring the groundwork is in place.

Despite 2021 being a second year of lockdowns and supply chain disruption, we've seen a lot of progress; 5 major CAPEX submissions for on site generation were approved over the 12 month period and on site generation projects installed in 2021 will see 1.7 GWh more energy generated on our sites in 2022. In total, 95.3% of our waste was diverted from landfill and we hope that in 2022 we will see around a third of our facilities achieve our Zero Waste to Landfill target.

We can't talk about sustainability without also talking about innovation and 2021 also saw the development of a new Insulate+Generate technology, PowerPanel, a next generation PV integrated insulated panel in one single factory-manufactured component, which allows our customers to generate power from day one whilst also adopting a 'fabric first' approach.

At this stage in the climate crisis, players in the built environment sector should be well aware of the significant contribution of buildings to global greenhouse gas emissions. PowerPanel can help our customers to reduce the carbon impact of their buildings; firstly through removing energy demand through insulation and secondly by generating energy on site. This is just the first step in our journey to develop innovative solutions and we recognise it is incumbent on us to provide our customers with more efficient, more circular, lower impact products. In particular over the next year we are focussing on reducing the embodied carbon of our QuadCore™ range, our roadmap shows the step changes we will make to deliver this over the next few years.

As I write this in 2022, Kingspan Insulated Panels – West region remains as focused as ever on our business mission to accelerate a Net-Zero Emissions future, with the well-being of people and our planet at its heart, I hope this report provides good insight into both our progress and challenges. Once again, thank you for supporting us on our journey.

Strategy: We Are Planet Passionate

Targets

We believe that clear targets drive action. We have set 12 measurable targets to drive change at speed throughout our business.

Energy



Maintain our **Net-Zero** energy status

60% direct renewable energy use by 2030

20% on site renewable energy generation by 2030

Solar PV systems on **all wholly owned facilities** by 2030

Carbon



Net-Zero carbon manufacturing by 2030

50% reduction on product CO₂ intensity from our primary supply partners by 2030

Zero emission company funded cars by 2025

Circularity



Zero company waste to landfill by 2030

Recycle **1 billion** PET bottles into our processor by 2025

QuadCore™ products utilising recycled PET by 2025

Water



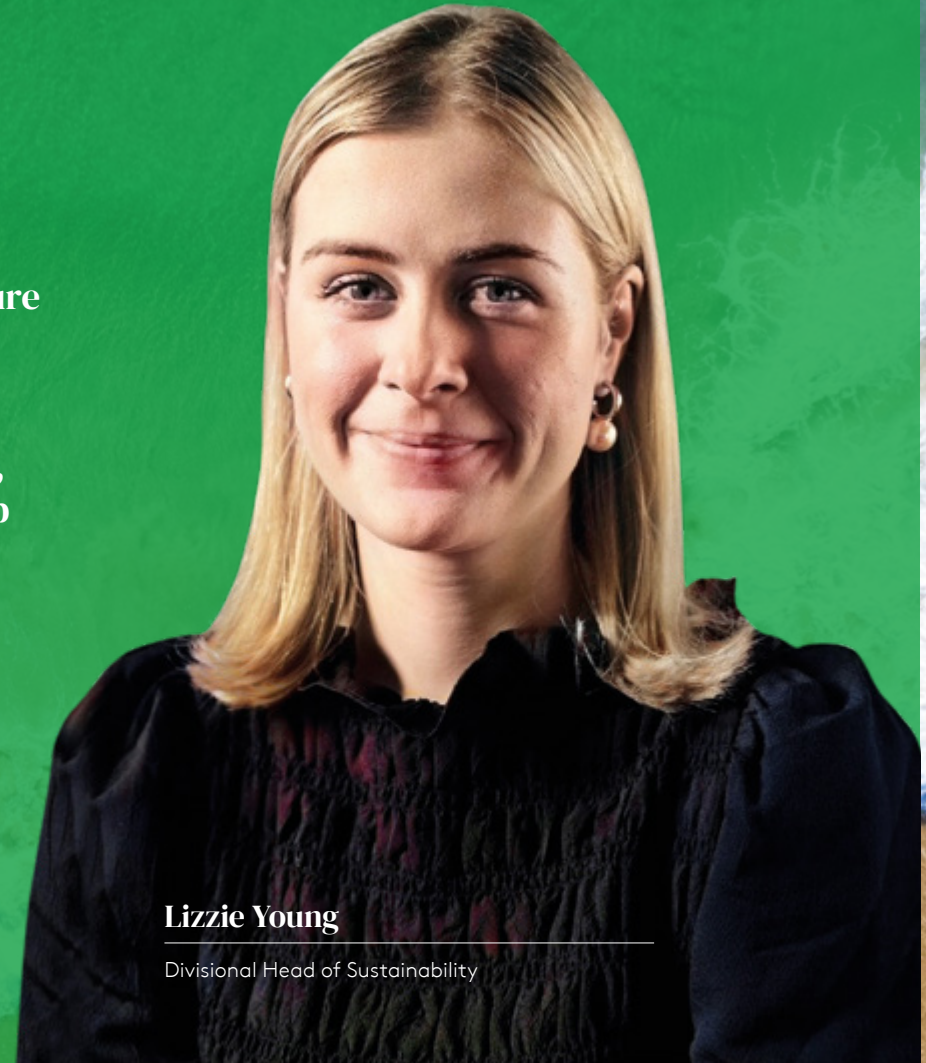
Harvest **100 million** litres of rainwater by 2030

5 active ocean clean-up projects by 2025

““

Planet Passionate is Kingspan's ambitious 10-year global sustainability strategy that aims to impact on three big global issues, climate change, circularity and the protection of the natural world. Our mission is to accelerate a Net-Zero emissions future with the well-being of people and planet at its heart. Through Planet Passionate Kingspan will: contribute to the world's renewable energy mix, reduce carbon emissions, divert waste from landfill, conserve water, provide upcycling solutions for plastic waste and help clean the world's oceans and protect biodiversity.

To learn more about our global Planet Passionate commitments, visit kingspan.com/planetpassionate.



Lizzie Young

Divisional Head of Sustainability

Progress Against Our Targets

Over the last two years we have made strong progress against all four of our Energy targets and over achieved against our Zero emission company funded cars target.

Whilst we failed to achieve our Waste and Water targets in 2021, the ground work has been laid for 2022 and Q1 analysis at point of writing this report shows we are on track to hit our divisional targets by the calendar year end.

The pandemic certainly slowed progress on a few large on site projects such as solar PV at our Spanish and Irish facilities and rainwater harvesting projects in the UK. However, 2021 saw a bank of engineering projects including energy efficiency programmes in partnership with Siemens and new low carbon technology alternatives to standard heating which we hope will be delivered in 2022 and greatly impact on our Scope 1 and 2 emissions.

Equally, ongoing work with our existing supply partners has seen trials and concept products developed in partnership with Kingspan Group's IKON Innovation Centre. The trials will see lower embodied carbon raw materials coming from decarbonised supply chains and will start the decrease in product CO₂ intensity.

Kingspan is committed to collecting and presenting accurate and reliable information. To this end, the energy data presented in this Report, is reviewed on an ongoing basis by our Internal Audit function. To further strengthen the credibility and reliability of the Report, we have also sought independent, external assurance for our carbon footprint, our total energy use and three additional Key Performance Indicators. The results of this engagement can be found in the external assurance statement.

		Metric
Energy		Direct renewable energy use (%)
		On site renewable energy generation (%)
		Wholly owned facilities with rooftop solar PV (%)
		Net-Zero Energy (%)
Carbon		Carbon emissions scope 1 and 2 (tCO ₂ e)*
		Decrease in product CO ₂ intensity from supply partners (%)
		Zero emission cars (%)
Circularity		Company waste to landfill (t)
		PET bottles recycled into our processes (million bottles)
		QuadCore™ products utilising PET (no. sites)
Water		% of water
		Ocean clean-up projects supported (no.)

* Our definition of Net-Zero Carbon Manufacturing is to remove GHGs as far as is practicable from our Scope 1 & Scope 2 and offset what remains.

Kingspan Group has a Science Based Target (SBT) that commits to a 90% reduction in Scope 1 & 2 emissions by 2030 therefore 90% reduction is the figure we are tracking ourselves against in the progress chart. For more information about Kingspan Group's progress or the Group's SBT please see the Group Planet Passionate report, available online.

2021 target	2021 actual	Target year	Progress against 2021 target (%)
32	32.5	2030	100
5	8.5		100
12.5	25		100
100	100		100
N/A	17,098	2030	N/A
0	0		Supplier engagement has been ongoing since 2019 and progress will be reported in 2022.
22	45*	2025	100
1,094	1,246	2030	Improved data accuracy saw this increase in waste recording in 2021.
0	0	2025	This target requires recertification of all QuadCore™ products the rPET will be included in and therefore is not anticipated to be incorporated until 2023 due to the time it takes to certify a product to the appropriate standards.
0	0		
6	1	2030	16.7
0	0	2030	This target is managed by Kingspan Group. In the next Kingspan Insulated Panels – West region report this target will be replaced with the number of projects supported by the Divisional Planet Passionate Community Fund.

Since the Planet Passionate targets were launched across Kingspan Group in 2020, we have implemented a data management software, *Diligent*, to track and audit our progress against targets. Each of the 39 manufacturing sites within the Kingspan Insulated Panels – West region Division has a data writer who is responsible for uploading invoices and inputting data into *Diligent* which is then audited annually by Kingspan Group’s chosen auditor.

Whilst the reporting procedures in place are strong the quality of the data, in particular across the water and waste categories requires improvement, a Divisional Planet Passionate Data Manager has been appointed to combat this and a large programme of engagement with contractors and suppliers is ongoing to ensure the data supplied into *Diligent* is accurate, timely and granular enough to provide meaningful comparisons.

This report covers the full calendar year 2021.

*Conversion rate of electric vehicles approved for purchase in 2021.

Our Sustainability Journey

At Kingspan Insulated Panels – West region we are dedicated to improving sustainability across all aspects of our business. To match this vision, in 2011 we announced our target to become Net-Zero Energy by 2020. We felt this target was vitally important and relevant, due to the manufacturing industry being responsible for around 36% of greenhouse gas emissions. As this was an ambitious task, it was decided that we would take a three tonged approach to tackle this across all sites in the division.



Save More:

The first step we took to move towards Net-Zero Energy was to significantly reduce out energy use across our sites. This was done by:

- insulating all office and manufacturing buildings to reduce heat loss/gain;
- installing low energy LED lighting to buildings;
- carrying out emissions training to make employees more aware of energy usage; and
- optimising daylight and reducing use of artificial lighting in and around sites.



Generate More:

The next step involved generating renewable energy on site to cover what energy could not be saved. The divisional highlight was the commission of a 1.5 MW wind turbine in 2018 at our Holywell production site. This machine is expected to generate over 1.5 GWh in energy every year, enough to meet the energy demand of 250 UK homes. In 2020, we were able to exceed this expectation by generating over 2.3 GWh.



Buy More:

Finally, where we are unable to generate or save energy usage, we look to purchase renewable energy from the grid. We aim to purchase certified renewable energy from suppliers directly. However, where not possible due to factors such as site location. 'Guarantees of Origin' or 'International Renewable Energy Certificates' are purchased to offset remaining energy emissions.

“““

In 2020, we achieved our incredibly ambitious Net-Zero Energy target. Our NZE journey has delivered financial benefits and has acted as a case study for more investment in energy efficiency and renewable on site energy generation. The Planet Passionate initiative further builds on these achievements and demonstrates the start of a pioneering sustainability transformation process for the benefit of our business, our stakeholders and our planet.

Mark Harris

Divisional Technical Director

Kingspan Insulated Panels, Holywell, UK

A More Sustainable Future

The climate challenge is clear, in order to hit the target set at COP 21 of no more than 1.5°C global temperature rise we must half our global greenhouse gas emissions by 2030 and hit a global Net-Zero by 2050. According to the World Green Building Council (WGBC) just 10% of these emissions came from embodied carbon in 2020 but its clear as we decarbonise our grids the balance will shift towards upfront carbon emissions – a prediction reinforced in the Advancing Net-Zero (ANZ) Status Report that we are proud to be a Global Project Partner of.

At Kingspan we are proud that our products can be part of the solution – helping our customers to drive down the energy their buildings consume whilst our Planet Passionate targets ensure that we will be manufacturing lower embodied carbon products in factories that are operating using Net-Zero Energy. It is clear that the most sustainable energy is the energy you don't use and when it comes to Net-Zero frameworks it also becomes clear that on site generation, where possible, is a clear pathway to lower impact building. We are looking at the triple threat of climate change, rising cost of living and increased demand for buildings and using this urgency to bring new, innovative products to market such as Kingspan PowerPanel* and new business models, such as Rooftricity***, to make these a reality for our customers.

When it comes to decarbonisation we have an ambition to provide our customers with lower carbon building solutions and put in place end of life solutions to promote the circular economy. 2021 was the year that we had some breakthroughs following years of supply chain engagement and we hope 2022 will be the year we launch products with lower embodied carbon***, that include more recycled materials so that our customers can build better buildings for a more sustainable future. supply chain to provide alternative raw materials that would lower our products embodied carbon and increase their percentage of recycled content and in some cases renewable materials.

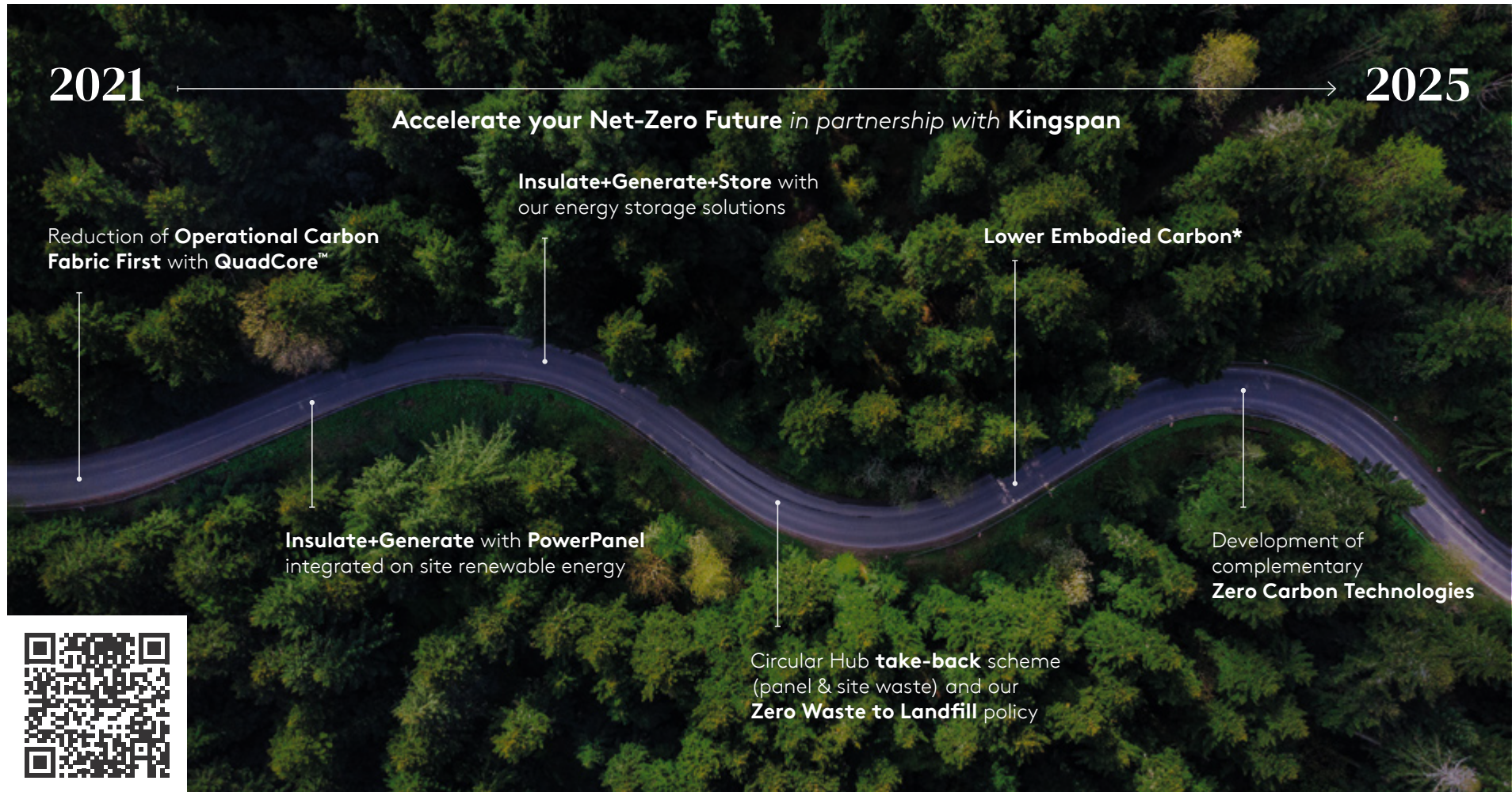


* <https://www.kingspan.com/gb/en-gb/products/insulated-panel-systems/the-solution-is-kingspan-powerpanel>.

** <https://www.kingspan.com/gb/en-gb/products/insulated-panel-systems/the-solution-is-kingspan-powerpanel/introducing-rooftricity>.

*** When compared to existing QuadCore™ products.

Our Journey to Reducing Embodied Carbon



* When compared to existing QuadCore™ EPDs.

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