Our Mission

To drive awareness and take action on the highest impact aspect of energy consumption in the building industry.
Drive Awareness, Share Methodology, Take Action, Expand Partnership

We are members of the global building industry that are ready to ACT on the smart prioritization of embodied carbon in building materials.

We will:

• Drive embodied carbon awareness via client, industry, and external partnerships
• Create a methodology for how to prioritize embodied carbon in specifications and share externally
• Highlight case studies on low carbon, carbon neutral, and carbon sequestering interiors
• Broaden our reach of members and partners
Embodied Carbon in Construction Calculator (EC3) Tool

Key Features of the EC3 Tool

1. Plan and Compare Buildings Feature
   Simple visualization of your project’s potential and realized embodied carbon emissions, with the ability to see conservative baselines and set achievable reduction targets.

2. Find and Compare Materials Feature
   Simple sorting and visualization of material supply chain EPD and embodied carbon data, with the ability to see material category baselines and set material category reduction targets.

3. Declare Your Product Feature
   Digitized EPD platform and EPD automation
Data & Flooring Technology: 4%
Light & Air: 7%
Insulation Boards: 20%
Water & Energy: 5%
Insulation Panels: 64%
OUR GLOBAL PRESENCE

100+
Commercial & Service Centers

130+
Manufacturing Facilities

€4.7bn
Revenue in 2019

15,000+
Employees Worldwide
OUR INDUSTRY IS AT A TIPPING POINT
LESS THAN 1/3 OF ALL CONSTRUCTION AND DEMOLITION WASTE IS RECOVERED AND REUSED
2,000 people migrating to urban areas daily are dependent on the provision of affordable housing and infrastructure.
WHAT IF?

SOLAR PANELS WERE INTEGRATED INTO

ALL BUILDINGS
CARBON POSITIVE MANUFACTURING FOR ALL BUILDINGS WAS WHAT IF?
WHAT IF?

ALL CARS ON THE ROAD WERE

ZERO EMISSIONS
WHAT IF?

NO WASTE
GENERATED FROM OUR BUSINESSES WAS SENT TO LANDFILL?
RECYCLED
PLASTIC BOTTLES AND OTHER RAW MATERIALS WERE TO INSULATE BUILDINGS AND MAKE THEM MORE ENERGY EFFICIENT?
What if?
WHAT IF?
OUR INDUSTRY COMMITTED TO SUPPORTING SUSTAINABILITY INITIATIVES TO HELP TRANSFORM OUR WORLD?
CHALLENGING TRADITIONAL METHODS AND MATERIALS

HOW DO WE DO THIS?

PIONEERING NEW TECHNOLOGIES THAT ENHANCE PERFORMANCE AND EMBRACE OUR DIGITAL FUTURE
WE ARE NOT MOVING FAST ENOUGH...

BUT WHAT IF WE COULD CHALLENGE OURSELVES TO CHANGE?
PLANT PASSIONATE
Our mission is to accelerate a net zero emissions future with the wellbeing of people and planet at its heart.
OUR SUSTAINABILITY JOURNEY SO FAR

2002: GRI sustainability reporting
2006: Began Product LCA
2010: EnviroCare Technical Services

2011: Net Zero Energy Target
2012: Carbon reporting to CDP
2013: CDP Forestry reporting
2015: CDP Climate A list
2016: CDP Climate A list
2017: Interim NZE target exceeded – 57%
2018: Verified science based targets
2019: Joins CE100
2020: World GBC Net Zero Carbon Buildings Commitment

EU Energy Performance of Buildings Directive (EPBD)
EU Energy Efficiency Directive (EED)
COP 21: Paris Agreement
UN Sustainable Development Goals
Revised EU EPBD & EED
IPPC special report 1.5c
7 million global Climate strikes

OUR NET ZERO ENERGY
2020 GOAL:

To match 100% operational energy with renewable energy through a three-step approach.
HOW DID WE ACHIEVE THIS?

1

Save More

We have implemented significant energy-saving projects across our sites.
HOW DID WE ACHIEVE THIS?

2

Generate More

In 2018, 5.9% of our total energy use was generated from renewable sources on our own manufacturing sites.
HOW DID WE ACHIEVE THIS?

3

Buy More

In 2018 we bought renewable energy directly from the grid and from certified renewable sources.
Through our Net Zero Energy programme, we have achieved significant energy carbon intensity improvements over time.

Energy Carbon Intensity CO2 tonnes per €’000 of turnover

- 0.053 in 2012
- 0.049 in 2013
- 0.04 in 2014
- 0.034 in 2015
- 0.014 in 2016
- 0.012 in 2017
- 0.009 in 2018

83% Reduction
Let comparing different envelope options using Tally
Envelope options from Cradle to Grave
INTRODUCING OUR NEW GLOBAL GROUPWIDE SUSTAINABILITY PROGRAMME

Planet Passionate is Kingspan’s ambitious 10-year global sustainability strategy that aims to impact on three big global issues: climate change, circularity and protection of our natural world.
OUR TARGETS

Energy
- Maintain our net zero energy target
- Increase our direct use of renewable energy to 60% by 2030
- Increase our on-site generation of renewable energy to 20% by 2030
- Install solar PV systems on all owned facilities by 2030

Carbon
- Net zero carbon manufacturing by 2030
- 50% reduction in product CO₂ intensity from our primary supply partners by 2030
- Zero emission ready company cars by 2025

Circularity
- 1 billion PET bottles upcycled into our manufacturing processes by 2025
- All Quadcore™ insulation to utilise upcycled PET by 2025
- Zero company waste to landfill by 2030

Water
- 5 active ocean clean-up projects by 2025
- 100 million litres of rainwater harvested by 2030
COLLABORATION
WHAT WILL IT DELIVER?

By being Planet Passionate in our operations we aim to:

- Contribute to the world’s renewable energy mix
- Accelerate the shift to zero emission cars and reduce air pollution
- Divert waste from landfill and keep materials in the economy
- Reduce carbon emissions (including in our value chain)
- Provide upcycling solutions for consumer plastic waste
- Conserve precious water
- Help to clean our oceans and protect wildlife
WHAT WILL IT DELIVER?

By being Planet Passionate our products will be:

- Manufactured using **renewable energy** and harvested rainwater
- Manufactured in **zero waste** facilities
- Packaged in **recyclable materials**
- Lower in **embodied carbon**
- Containing **recycled materials** and recycled production waste
WE HAVE INVESTED IN A NEW €10M GLOBAL INNOVATION CENTRE

IKON

IKON, our new global innovation center and our center of excellence for Research and Development, is focused on advanced material science and the digitalization of construction.
LET’S CHALLENGE OURSELVES AND OUR INDUSTRY...

TO COLLABORATE

TO INNOVATE

TO ACCELERATE OUR WORLD TOWARDS A SUSTAINABLE FUTURE
Technology that interconnects the world must also respect it
Who is Superior Essex?

One of the largest cable manufacturers in North America

Copper and Optical Fiber Premises wire and cable products

Fiber & Copper Outside Plant (OSP) wire and cable products

Smart Building Technology

http://sustainability.superioressexcommunications.com/
#whatsbehindyourwalls?
Everywhere You Live and Work®
SUPERIOR ESSEX CAT6+ LSHF CABLE
LIVING PRODUCT CHALLENGE v 1.1
IMPERATIVE CERTIFIED

How can we reduce our impacts?
1. Add Life Cycle & Chemistry Considerations into our Product Development Process
2. Continue to implement conservation measures at manufacturing facilities
3. Further Engagement with our Supply Chain to reduce our impacts
4. Analyze end of life opportunities
5. Communication of Holistic Sustainability
6. Support the EC3 Tool to enable cabling as a product category to assess lowering building environmental impact
What’s next?
THANK YOU!

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