



# ENVIRONMENTAL IMPACT REPORT

## OUR SERVICES

Furness Partnership



# OUR COMMITMENTS

At Furness Partnership, we are committed to addressing and drastically reducing our environmental impacts, at home and within our industry.

We understand that as structural engineers we have a huge responsibility to mitigate carbon emissions within the built environment. We have therefore assessed the embodied carbon in our structural designs and set ambitious targets for reduction.

This report sets out our learnings and targets so far.



**Mike Furness**  
Director  
**Katy Gunter**  
Sustainability Lead



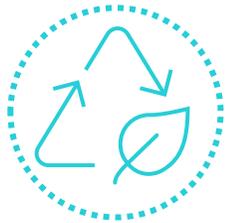


# OUR TARGETS



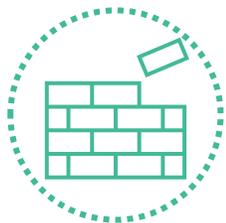
## Raise Awareness of Embodied Carbon in Structures

Having incorporated embodied carbon calculations as a basic scope of our work, we endeavor to share our learnings and raise awareness of carbon mitigation measures amongst clients.



## Reduce the Embodied Carbon in all Projects by 10% YoY

By quantifying our emissions, we can target impact areas for effective reduction and continuous improvement.



## Achieve the LETI Average Design Target of A by 2030

Following effective reduction techniques, we will be on track to improving our performance to industry targets by 2030.





# OUR PERFORMANCE



We have calculated the embodied carbon on a range of projects over the last 5 years and benchmarked our performance against industry averages and targets using data published by IStructE (2020).

Due to our large proportion of refurb, we have a good quantity of A and above ratings, but still have room for improvement across all projects, especially new builds.

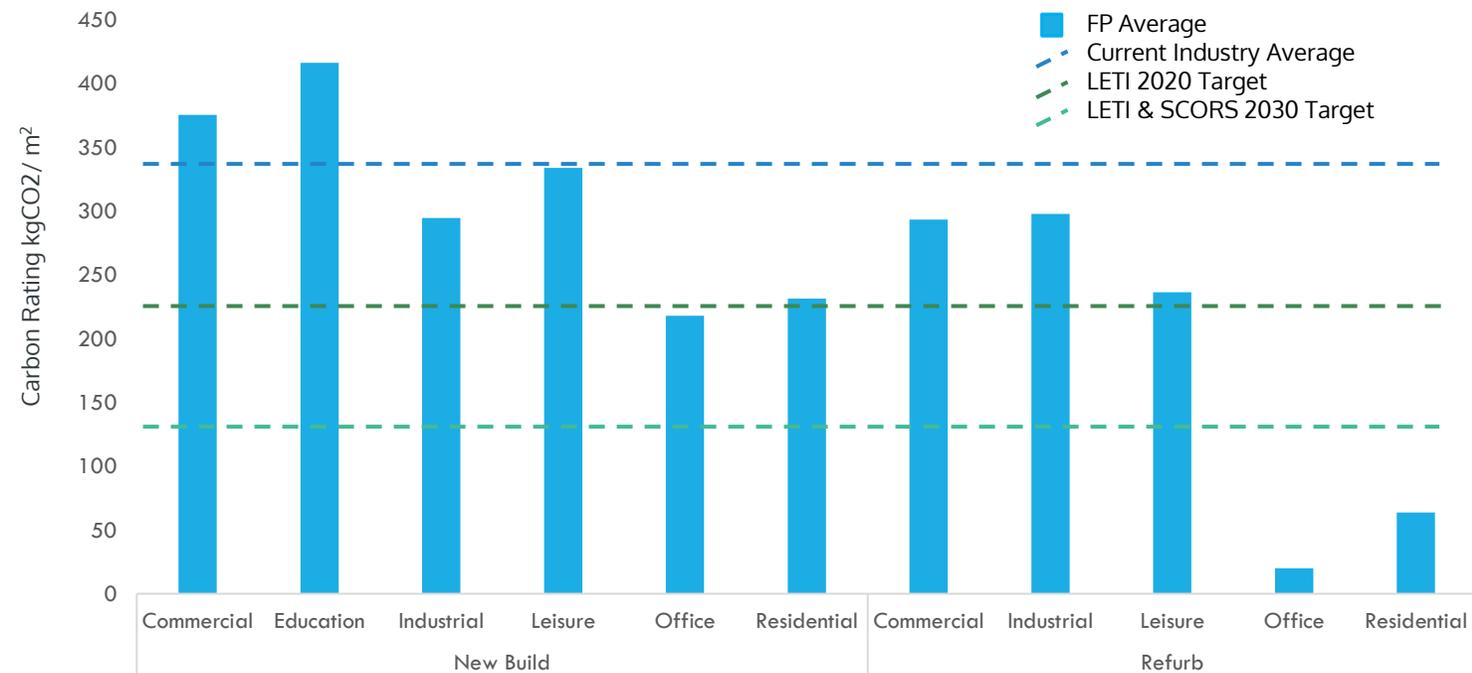
Currently good performance is considered a C, with average projects sitting between G and E. In order to shift the peak towards lower embodied carbon we must reconsider the resources used in all projects and embrace lean design principles where new construction is unavoidable.

The projects in this data set were selected at random from the last 5 years. It is unavoidable that there will be variations to true averages but provides a good benchmark to work from.

## References:

Arnold, W., Cook, M., Cox, D., Gibbons, O., & Orr, J. (2020). Setting carbon targets: An introduction to the proposed SCOR scheme. *IStructE*.

Embodied Carbon by Project Type (2016-2021)



# AWARDED FOR SUSTAINABILITY



IstructE David Alsop Sustainability Award  
Visitors Centre  
at Waters Edge Country Park

BCIA Awards- Small Building of the Year  
Dunraven School Sports Hall commended for the reuse of  
shipping containers





# THE IMPORTANCE OF RETROFITS

At Furness Partnership we have developed extensive knowledge in the restoration of historic and listed buildings, which is key in the ultimate endeavour to reduce embodied carbon in construction.

Working closely with Historic England, we have developed many specialist repair and strengthening techniques that are both sympathetic to the existing structure, whilst providing the client with the longevity and serviceability required to conserve the existing built environment.

# CONTACT US



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