

❖ **Why is making progress on Net Zero important to your business?**

Climate change is a critically important issue for the planet. If the businesses that are responsible for the majority of emission don't take it on board, then we will never succeed in mitigating the effects of climate change.

❖ **Which of the 9 priorities are more relevant to your business and clients and why?**

1- *"Accelerating the shift of the construction workforce to zero emission vehicles and onsite plant",*

2 - *"Maximising use of Modern Methods of Construction and improved onsite logistics, reducing waste and transport to sites",* and

3 - *"Championing developments and infrastructure investments that both enable connectivity with low carbon modes of transport and design to incorporate readiness for zero emission vehicles"* are all important to Jackson Civil Engineering.

4-6 less important as the kind of work we have has very little in-use energy consumption.

7 - *"Implementing carbon measurement, to support our construction projects in making quantifiable decisions to remove carbon",*

8 - *"Become world leaders in designing out carbon, developing the capability of our designers and construction professionals to develop designs in line with circular economy - reducing embedded and operational carbon, shifting commercial models to incentivise and reward measurable carbon reductions.",* and

9 - *"Support development of innovative low carbon materials (prioritising concrete and steel), as well as advancing low carbon solutions for manufacturing production processes and distribution"* are the most important. We are a civil engineering contractor so the construction activity and the elements around that are particularly important to us. We have undertaken significant work to tackle these issues.

❖ **What are doing to make progress against the relevant priorities (of the 9) in the short and long-term? (Could include targets or milestones)**

We have a series very detailed net zero carbon targets focussing on our scope 1 and 2 emissions. We have also been pioneering carbon reduction in concrete – that is the biggest part of our scope 3 emissions. We are also reducing the carbon impact of our steel. When it comes to logistics and plant use in our supply chain, we also have detailed targets and are making good progress.

We have more case studies in low carbon concrete than any other contractor in the UK, because we identified in 2010 that concrete is a major contributor to climate change in our sector of the industry. We have funded programmes through the Environment Agency to get the cement out of the concrete that we pour for them.

❖ **How have you helped your supply chain understand what is required against the 9 priorities?**

We are members of the Supply Chain Sustainability School and we encourage our supply chain to be a part of that. At the moment we are developing a set of protocols for our supply chain – we realise that the solutions to climate change will come from our supply chain. Where we have an opportunity in frameworks for EA and M25, we have very early involvement from our subcontractors. On a 2.5km cycle path, by bringing three suppliers together we have cut 93 per cent of the carbon out of that project. We are expanding this to cover other elements of our work.

❖ **As a business leader what do you think the biggest challenge is and how are you working to overcome it?**

Our biggest challenge is that the industry is not innovation friendly. We work to specifications. If we are not involved in deriving the specification, the opportunity to change it and to include low carbon alternatives diminishes. On framework we are successful, outside frameworks we are less successful. We are working with design partners as early as we can because designing the carbon out is where the real wins will be made.

❖ **In your view what is the one innovation or change that is going to have the biggest impact on carbon or progress in our industry?**

If we can get the carbon out of concrete and steel there will be a massive change. If we can move to a hydrogen economy, we can start to drive the carbon out of our plant too, as that is the third biggest contributor to our carbon. There are some encouraging movements in the plant sector with regard to moving to hydrogen.

## **Case Studies**

<https://www.jackson-civils.co.uk/news/item/367-jackson-s-supply-chain-come-together-to-build-low-carbon-cycle-path>

<https://www.jackson-civils.co.uk/news/item/100-67-carbon-reduction-is-a-uk-first>

<https://www.jackson-civils.co.uk/news/item/320-volumetric-mixers-expand-possibilities-for-ultra-low-carbon-concrete-on-the-m25>

<https://www.jackson-civils.co.uk/news/item/172-supply-chain-collaboration-saves-730-tonnes-of-carbon-and-eliminates-27-000-lorry-movements>