Sustainability through collaboration

HEYSHAM TO M6 LINK ROAD IN LANCASHIRE

PROJECT OVERVIEW

The £104m Heysham to M6 link road project was one of Lancashire's highest priority transport projects.

Costain and Tarmac set out to realise the full potential of genuine collaboration, enabled by early engagement, to deliver complete transparency and informed specification decisions based on whole-life performance.

Working together two years ahead of the project being spade-ready provided a unique opportunity to gain a deeper understanding of each other's operations. This helped identify potential logistical, cost and sustainability benefits. Collaborative working was embedded in the approach of both businesses from the outset, as teams worked together to understand each other's operations.

Via early engagement partners gained a deeper understanding of each other' businesses to drive efficiency and sustainability

Collaborative working helped ensure delays were avoided, waste minimised, and a focus on the re-use of materials

Tarmac provided strategic information on the impact of site decisions on quarrying, deliveries and routes to site. As a result, the team could aim for zero wastage at the quarry supplying the project. This would ensure that all materials produced would be used on the scheme or by planning in advance, where excess could go to avoid landfill. In addition, a logistics plan was put in place that provided an optimal route to site and minimised the impact on local traffic. This working relationship model is having a marked impact on the project.

The overall new design produced at Early Contractor Involvement (ECI) stage has reduced the aggregate tonnage by nearly 25%, saving over 200,000 tonnes of raw materials, and enabled a reduction of nearly 9,000m^3 of readymix concrete, just over 26%. This translates into a 21% saving of CO_2e from the original design, exceeding the 20% KPI.

"Tarmac's Sustainability Department provides us with a monthly carbon tracking service, capturing carbon data that shows both waste reduction and environmental benefits as outlined in our desired criteria, as well as the inherent cost savings in reducing the carbon footprint of materials".

Damien Canning,
Group Carbon Manager at Costain

21%
CARBON SAVING

26%
REDUCTION IN CONCRETE

23%
REDUCTION IN AGGREGATES

88%
REDUCTION IN PART LOADS & STANDING TIME

ZERO
MINERAL WASTAGE AGAINST A KPI OF

<2%
CONCRETE

<3%
AGGREGATES