



SPECIALTY

# SUSTAINABILITY

RLB's sustainability consultancy service covers all aspects of the sustainability agenda including carbon assessments and green building project certifications. Our services are tailored to sustainable project delivery, with expert knowledge provided at every stage of the project lifecycle.

RLB's approach is to identify key sustainability improvements and implement project specific solutions that consider client goals and industry best practice, market drivers, and potential legislative changes.

The built environment sector is always focused on the future. But with the world's buildings responsible for nearly 40% of global carbon emissions, the future is sharply in focus.

Regulation and rating systems, consumer expectations and investor demands, as well as advancing technology and resource constraints are transforming what we build, where we build, and how we build it.

As one of the world's oldest and largest construction consultancy firms, RLB knows that cost is just one measure of value. How we measure and manage carbon emissions, alongside other economic, environmental, health, and wellbeing imperatives, is a global opportunity.

RLB has established a global carbon policy that aligns our business with international targets set out in the Paris Agreement. We have committed to achieve net zero emissions by 2030 as a global business.

We have also established a suite of services to support our clients as we work together to drive down emissions and uncover new value.

## LINKING CARBON & ESTIMATING

Measuring, mitigating, and managing climate change is the responsibility of every industry. Much of the mitigation efforts fall with high-emitting sectors, including the building and construction sector. With this comes the challenge of decarbonizing buildings, supply chains, and effectively collaborating across the sector to better forecast and reduce climate-related risks.

Embodied carbon emissions – the emissions that are integral to the materials used in construction – are particularly difficult to abate. Upfront emissions generated during manufacture, construction, transportation, and demolition will constitute an estimated 85% of the industry's carbon footprint by 2050 as energy generation emissions decline.

RLB is helping our clients to quantify these hidden emissions with a methodology that assesses upfront embodied carbon impacts and offers concise, accurate and informative end-to-end advice to limit carbon across the building's lifecycle.

## OUR CARBON ASSESSMENT PROCESS

RLB's carbon assessment approach is your solution to mitigating embodied carbon. Our lifecycle process includes detailed analysis of the embodied carbon content of materials and the construction process to identify the lowest lifecycle impacts. RLB can combine this carbon information with a detailed cost estimate to allow our clients to make truly informed decisions on their projects.

## OUR CARBON ASSESSMENT APPROACH

### 1. Initial Design



Establish initial embodied carbon benchmarking to inform and establish project carbon and cost expectations

### 2. Design Development



Prepare baseline carbon assessments and work collaboratively with the project team to identify opportunities for reducing carbon and cost in a whole project approach

### 3. Contract Documentation



Complete the collaborative process with a final design phase carbon assessment to be used during construction to limit carbon emissions

### 4. Construction



Work collaboratively with the project team and contractor to achieve lowest possible carbon using actual as-built information to assess the final embodied carbon values