MVRDV Carbon Guidelines

At MVRDV, our mission is both practical and exploratory as we seek ways to address and alleviate the urgent climate challenges. The building industry is responsible for 39% of greenhouse gas emissions. As designers of the built environment, we recognize our crucial role in providing impactful responses to the climate crisis.

The road to zero carbon is a complex one. Challenges and opportunities vary per typology, brief, regulation and country. However, a targeted application of one or more carbon reduction strategies can lead to lowering emissions.

When it comes to decarbonizing our projects, we can have the most impact early on in the process. The "MVRDV Carbon Guidelines" help to inspire and target strategies for active carbon reduction in early design stages. They are not sequential steps or rules; rather, you can combine one or several of these guidelines into a customized strategy for your project.



Small / Medium Scale - Bio-based materials - Alternative construction - Re-use **Large Scale** - Reduce structure - Future Adaptability

PublicInteriors- Material showcase- Demour- Programmatic Synergies- Recycle- kia kase- kia kase

 Demountable elements
Recycled / fast growing bio-based materials



Embodied Carbon in the Structure: detailing the 55% Source: ARUP, Net-zero buildings: halving construction emissions today



Embodied carbon must be considered throughout the design process, with a particular focus on the Life Cycle Assessment (LCA) gates A1 - A3.

Integrate what is already in site

2 Build Less & Flexible Use





Skin

Emphasizing designing buildings

that can evolve over time.

Structure Services Space plan

7 Rethink Openings



Glass facade with very high amount of embodied carbon High cooling demand, therefore high amount of operational carbon



8 Build Simple & Clean



Clean and reduced floorplans, less hallways, straight shafts...



10 Design for Reusability



