

Current situation: Sustainability

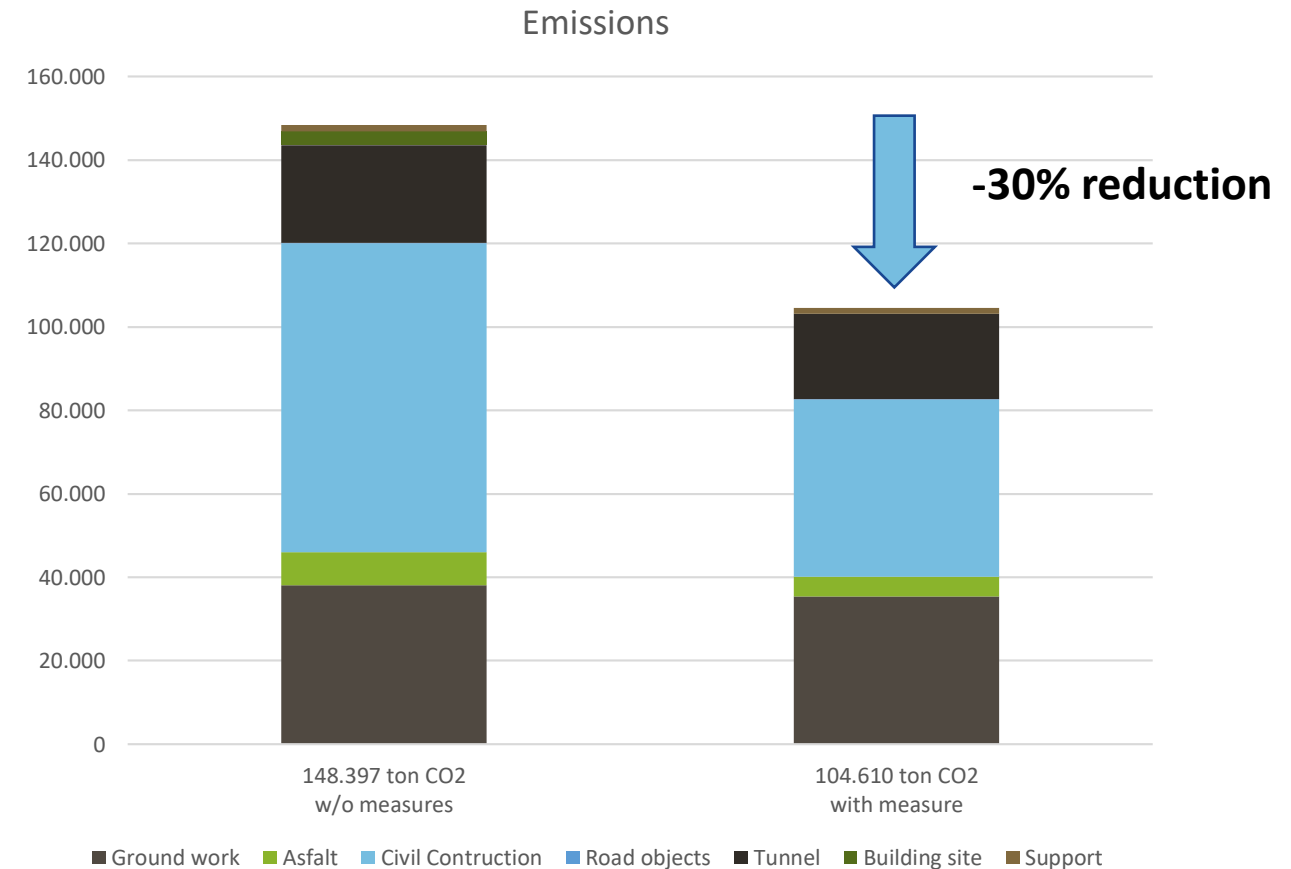
Q3 2020

CO₂ emissions

Emissions from start of work till Q3 2020

Goal: Reducing the emissions of the realisation phase with **23%***

*true emissions compared to the planning without reduction measures.

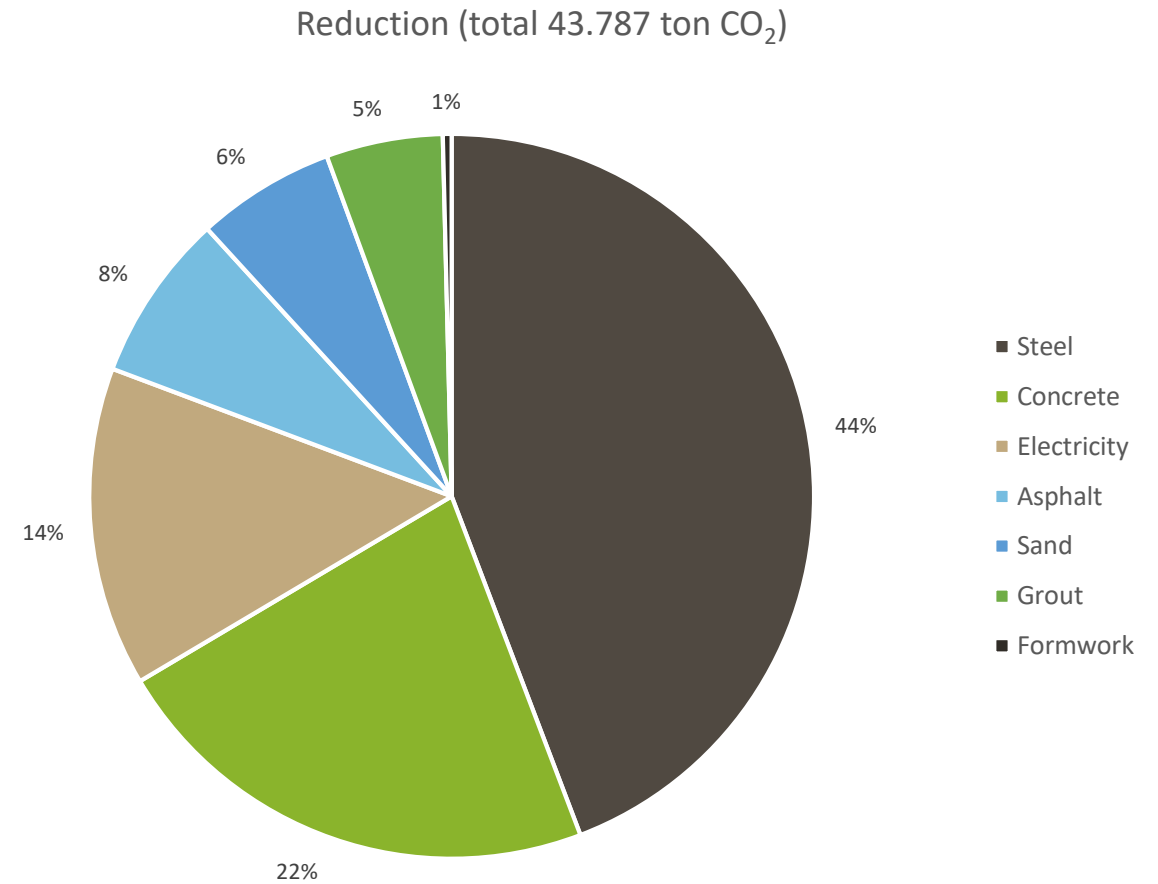


CO₂ reduction

True emissions compared to industry standard

Measures include:

- Reusing sheet piling
- Alternative fuel
- More sustainable cement (less CEMI)
- Green electricity
- Use of EURO 5/6 trucks
- More local sand
- More sustainable ingredients of grout



CO₂ goal scope 3: usage



CO₂-PRESTATIELADDER[®]

To reduce our CO₂ footprint, we have set the following goal:

Reducing the emissions of the exploitation phase with **50%***

*planned emissions including measures compared to the original planning without reduction measures.



SOLAR OPTIC FIBRE

Around 50% of the electricity use of a tunnel, comes from the entrance lighting. Using Solar Optic Fibre, almost **25%** less electricity is needed for the entire tunnel!

The RijnlandRoute is the first project in which this technique is used for a tunnel. The electricity that is still required for the tunnel will be Dutch wind energy, which makes it free of CO₂ emissions.

Let's talk about CO₂!

Do you have any questions, ideas or comments, let us know via duurzaamheid@mobilis.nl



Air filtration

Fine dust concentrations

- Something different from CO₂, but important for (local) air quality is the BESIX Clean-Air barrier. This barrier is installed at the N434 in July 2019. The BESIX Clean Air moss covered barrier filters PM₁₀ and 2,5 out of the air in a natural way.
- This barrier combines mosses and technology to get a reduction of up to 43% in PM₁₀ and 22,8% for PM_{2,5}.





Materials passport

- The basis for a circular economy
 - We use this passport to map necessary information of materials
 - If we know the characteristics of the materials, there is a greater opportunity for high-value reuse
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- COMOL5 and the Province of Zuid Holland were part of a national pilot project: the Materials Expedition
 - Most important lessons learned (for all lessons learned click [here](#); in Dutch):
 - It is hard to implement the Materials passport in an ongoing project; therefore start working on a Materials Passport at the beginning of a project. Make sure the structure is known and the tasks and responsibilities are allocated in the organisation.
 - Ensure that the request for documentation is standardized (preferably sector-wide, connect to existing systems such as the OTL and ILS).
 - Most often, it is not worth the time/investment to make a materials passport for existing infrastructure. This might be a different case when demolition and (possible) reuse are on the agenda.

