

REDUCING CARBON EMISSION IN INFRASTRUCTURE CONSTRUCTION



CONSTRUCTION
USERS

WE ARE PART OF THE PROBLEM, BUT WE ARE ALSO A PART OF THE SOLUTION.

Obstacle:

Buildings and construction sector
have a big impact on climate



Construction Climate Challenge



- Consume more than **40%** of the world's energy
- Accounts for over **30%** of the world's CO2 emissions.

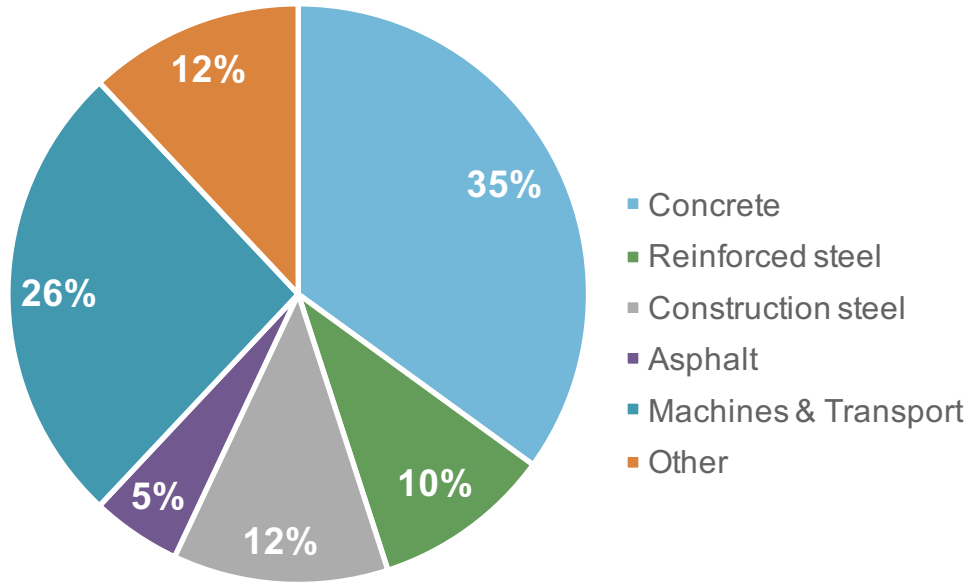
OUR SCOPE

The scope of the CCC stretches the length of the construction industry's value chain across its life cycle:

- 1 Production of building materials
- 2 Infrastructure
- 3 Construction
- 4 Utilisation & Maintenance
- 5 Demolition
- 6 Recycling

Major sources for climate gas emissions from infrastructure projects

- We see a growing demand on integrating Climate Calculations in major project procurement



Source: Carbon and energy calculation for National Transport Plan 2014 – 2025, Sweden, WSP



10X

EFFICIENCY

0

DOWNTIME

ACCIDENTS

EMISSIONS

**INTELLIGENT
MACHINES**

ELECTRIC MACHINES

CONNECTED MACHINES

QUALITY

SAFETY

ENVIRONMENT

Think exponential ...



**Intelligent
Machines**



**Electric
Machines**



**Connected
Machines**

Electric, Intelligent, Connected



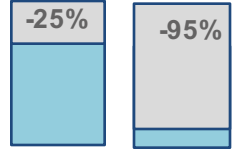
Electric site project

TCO GHG

-25% -95%

Today

Future

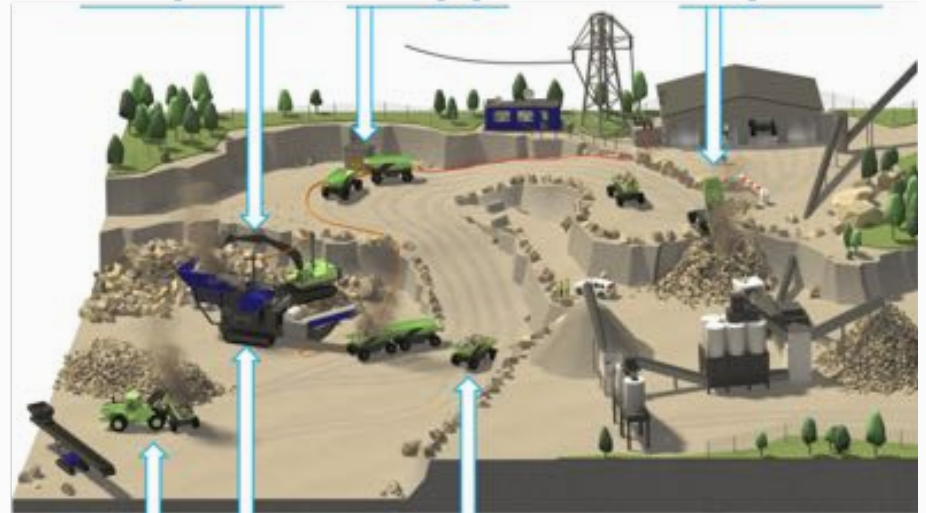


Feeding crusher Transport Feeding 2nd crusher




Stockpiling (small) Truck loading

Feeding crusher Charging Feeding 2nd crusher



Truck loading Direct loading Transport

A silhouette of a Volvo excavator on a trailer being towed by a truck, set against a bright sunset sky with a city skyline in the background. The sun is low on the horizon, creating a strong glow and long shadows.

Building the world we want to live in

HOSTED BY VOLVO CONSTRUCTION EQUIPMENT

