

Cement and Concrete



First Movers
Coalition

Cement and concrete commitment

The First Movers Coalition (FMC) has set ambitious commitments for purchasers and specifiers of cement and concrete:

- **Construction and engineering:** “We commit to purchasing at least 10% (by volume) of our cement/concrete per year as near-zero cement/concrete inclusive of any SCMs by 2030 and excluding fossil-based SCMs by 2035.”
- **Real estate, developers and advisory:** “We commit to ensuring/specifying that at least 10% (by volume) of the cement/concrete procured for our projects per year is near-zero carbon cement/concrete inclusive of any SCMs by 2030 and excluding fossil-based SCMs by 2035.”

Commitment details

Members of the FMC commit to purchasing near zero-emissions cement or concrete satisfying the following criteria:

- Cement with embodied carbon below 184kg CO₂e/ton¹
- Concrete that meets the embodied carbon limits below²

Specified compressive strength (f'c in psi)	Embodied carbon (kg CO ₂ e/m ³)
0 - 2500 psi	70
2501 - 3000 psi	78
3001 - 4000 psi	96
4001 - 5000 psi	117
5001 - 6000 psi	124
6001 - 8000 psi	144

These commitments do not include carbon offsets or cement/concrete that does not meet the FMC thresholds.

Leading analysis identifies that our goals are most likely to be accomplished with cement or concrete produced using breakthrough technologies – such as CCUS (carbon capture use and storage) to capture process-related emissions at source, clinker substitution using non-fossil-based SCMs (i.e., SCMs other than ground granulated blast-furnace slag and fly ash), and alternative cement chemistries based on binders from alternative production pathways.

Voluntary commitments made by joining the FMC are subject to the availability of technology supply that enables companies to meet their 2030 and 2035 purchase pledges and acknowledge that these technologies may come at a premium cost.

The FMC will facilitate a range of collaborations and mechanisms to support companies in fulfilling their purchasing commitments.

Design committee sector contributors

[Concrete Action for Climate initiative \(Mission Possible Partnership\)](#) and [Global Cement and Concrete Association](#)

1. Includes emissions from modules A1, A2, A3 in lifecycle analysis (cradle-to-gate) as per EPD standards for portland cement; Scope 1 and 2 emissions

2. Includes emissions from modules A1, A2, A3 in lifecycle analysis (cradle-to-gate) as per EPD standards for ready mix concrete; Scope 1 and 2 emissions