

Carbon dioxide removal



First Movers Coalition – Carbon removal commitment

The First Movers Coalition has set ambitious commitments for companies to purchase **durable and scalable** carbon removal solutions by 2030:

Companies joining the FMC take the following pledge:

“In addition to our maximal direct emissions reduction efforts, we commit to contract for at least 50,000 tons of **durable and scalable** (see definitions) net carbon dioxide removal to be achieved by the end of 2030.”

As an alternative to contracting for 50,000 tons, companies joining the FMC can contract for at least \$25 million of durable and scalable (see definitions) net carbon dioxide removal to be achieved by the end of 2030.

Commitment details

Carbon removal solutions that satisfy the following criteria are **in-scope**:

1. **Durable** solutions that can demonstrably store captured carbon for a minimum of 1,000 years
2. **Scalable** solutions that have the potential to reach MT scale by 2030 and GT scale by 2050

Solutions with the potential to meet these durability and scalability requirements can come from the following categories:

- Engineered solutions such as DACCS¹ and BECCS²/BICRS³
- Hybrid natural processes such as enhanced weathering and mineralization

Technologies considered in-scope as per the above criteria will be periodically reviewed.

Solutions that are **out of scope** include impermanent or unscalable solutions as per the above criteria, as well as solutions that do not satisfy the FMC's environmental externality and risk mitigation criteria.

Detailed environmental externality and risk mitigation criteria will be developed by the FMC Secretariat and sector champions, in consultation with members and ecosystem partners, and will accord with the following principles:

- Solutions must **minimize environmental harm**, including deforestation, over-consumption of natural resources and land, and continued reliance on fossil fuel energy.
- Solutions must **minimize social harm**, including adverse impacts to local ecologies, indigenous socioeconomic communities, and marginalized groups, **while equitably distributing social benefits** including jobs, investment, and financial benefits across communities and landowners.
- Solutions must adhere to credible, science-based measurement, reporting, and verification (MRV) methodology.
- Biomass based solutions must not promote monoculture and/or use arable land and native biomass.
- Carbon removal potential carbon removal process, all solutions accounting for must be quantified as net during GHG emissions incurred transportation, conversion, and utilization.

Voluntary commitments made by negative emissions [e.g.] biomass production, joining the First Movers Coalition are subject to the availability of technology supply that enables companies to meet their purchase pledges.

The First Movers Coalition will facilitate a range of collaborations and mechanisms to support companies in fulfilling their purchasing commitments, including partnerships with carbon removal purchasing facilities.

1. Direct Air Capture and Storage 2. Bioenergy with Carbon Capture and Storage 3. Biomass Carbon Removal and Storage