



## GEOENGINEERING

AMR develops technology for cooling the climate which can be categorized as «GeoEngineering» (GE). Therefore it is necessary for us to describe our position regarding GE and the climate crisis.

### The Cause of Global Warming (GW)

GW is caused by greenhouse gases (GHG) which have been emitted into the atmosphere by humans since the industrial revolution.

### How to Cure Global Warming

GW can be cured by removing the GHG responsible for GW from the atmosphere. The most important are carbon-dioxide (CO<sub>2</sub>), methane (CH<sub>4</sub>), ozone (O<sub>3</sub>) and nitrous oxide (N<sub>2</sub>O). Removing them would restore the climate to its pre-industrial state. For the future it is also necessary to reduce anthropogenic emissions of these GHG to their preindustrial level.

### Other GE methods

Some other GE methods, namely cooling the earth by dimming the sun (Stratospheric Aerosol Injection or SAI), do not remove the cause of GW. SAI would introduce a new, unknown climate with a high risk of unpredictable consequences.

AMR is, by definition from the International Panel on Climate Change (IPCC), a negative emission technology (NET)<sup>1</sup>. NET are beneficial GE methods, because they fight the cause of climate change.

## Precautionary principle

AMR supports the precautionary principle which entails

1. The fullest possible scientific evaluation, the determination, as far as possible, of the degree of scientific uncertainty.
2. A risk evaluation and an evaluation of the potential consequences of inaction.
3. The participation of all interested parties in the study of precautionary measures, once the results of the scientific evaluation and/or the risk evaluation are available.<sup>2</sup>

## Conclusion

Climate restoration by GHG removal is – in principle - a safe method with a predictable outcome. It removes the cause of GW and provides a path to a sustainable future.

Deployment of any GE method should observe the precautionary principle.

1) <https://www.mdpi.com/2071-1050/12/21/8858>

2) [EUR-Lex - I32042 - EN - EUR-Lex \(europa.eu\)](#)