

# Responsibility and Governance of Climate Engineering

---

*Nils Matzner, M.A.*

Over the last decade climate engineering (CE) - generally defined as the deliberate large scale manipulation of planetary environment - has emerged as a possible technological response to challenges related to anthropogenic climate change respectively as a means for dealing with the failure of climate policy. More recently debates about CE tend to emphasize risks of this emerging set of technologies. As a consequence questions of responsibility and possibilities of governance occupy both policy makers and researchers alike.

However, framings of climate engineering and responsibility have been rarely compared on a conceptual level. To fill this gap this presentation will examine the CE-specific relation of responsibility and governance and argue that the call for responsible research and innovation is not only induced by fundamental risks and uncertainties of CE, but also by a lack of a governance structure for the emerging technology. To ground this argument it will focus on specific challenges of CE, such as intergenerational, global, and epistemological challenges (see Gardiner 2006).

Facing CE as a powerful but uncertain climate political option the analysis has to go beyond individual responsibility to discuss approaches of organisational and shared responsibility. These concepts will be compared to 'new forms of technological governance' (Barben 2005, Gibbons et al. 1994), such as anticipatory governance.