

Geoengineering-Existing State Specific Laws

and impacts upon Human Health,

the Eco-system & Economics

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Introduction



Geoengineering:

Deliberate large-scale interventions in the earth's climate system to diminish climate change or its impacts... SCHEMES OR EXPERIMENTS INCLUDE INJECTION OF AEROSOLS, PARTICLES, CHEMICALS, GASES, VAPORS, SULFUR, BARIUM, **ALUMINUM OXIDE (ALUMINA)**, CHAFF, SALT OR OTHER COMPOUNDS INTO THE ATMOSPHERE



Aerosol Pollution:

"Solar geoengineering is the idea that you could, in principle, reduce the rate of climate change or reverse it, by making the earth more reflective, reflecting away more sunlight. For example, by putting reflective particles, **aerosol pollution** if you like in the upper atmosphere... An over-riding fact, of course, of any of these technologies is that no technology alone will enable environmental protection or social protection..." **By: David Keith, Geoengineer from his speech at the May 21-22, 2012 National Academy of Sciences meeting in Washington, DC.**

Human Health Impacts



- Fine particulate sulfate and alumina nano-size particulates can enter the cardiovascular & respiratory systems, resulting in disease or even death
- Aerosols could deplete the ozone layer leading to higher levels of UVB radiation and contribute to air pollution. UVB causes non-melanoma skin cancer and plays a major role in malignant melanoma development.
- Negatively impacting the protective ozone layer and by decreasing sunlight/opacity which would cause Vitamin D deficiencies, which are linked to rickets, asthma, allergies, increased cancer, hyperparathyroidism, osteoporosis, depression, diabetes, and other health problems, according to Mayo Clinic.
- Nano sized aluminum causes neurodegenerative & development disease including Alzheimer's, dementia, ALS, Parkinson's, causes birth or developmental effects, brain and nervous system effects, reproduction and fertility problems.

Eco-system & Economic Impacts

Air quality impact

 Brighter clouds that are less efficient at releasing precipitation. Aerosol effects can lead to a weaker hydrological cycle, suppression of rainfall, droughts, reductions in regional rainfall, decreased precipitation and evaporation, altered monsoon rains and winds, less efficient removal of pollutants.

 Impact to forests, changes in stand density, decreased growth, increased tree mortality & susceptibility to disease. Loss of forests will further prevent overall reduction of greenhouse gas emissions, because trees and plants absorb CO2 & aluminum is a known fire accelerant, thus more forest fires.

 Economic impact to agriculture, & farming, trees, water supplies, property, life, direct sunlight, fish populations, wild life, game, all natural resources, tourism & recreation and electric supplies.

 Illnesses could overburden the health care system through decreased worker productivity, increased sick days and pharmaceutical costs.



State Statutes on Air Pollution

Arizona

Title 49 Chapter 3 Article 1 49.401.01 12
Title 49 Chapter 3 Article 2 49.421.1
Title 49 Chapter 3 Article 2 49.421.2
Title 49 Chapter 3 Article 1. 49.401.01 .2.3

Florida

Florida Statute XXIX Chapter 403, Environmental Control. 403.031 Definitions 7., 8.

California

HSC DIVISION 26. AIR RESOURCES PART 1. GENERAL PROVISIONS AND DEFINITIONS CHAPTER 2. Definitions. 39013.
HSC DIVISION 26. AIR RESOURCES PART 2. STATE AIR RESOURCES BOARD CHAPTER 3.5. Toxic Air Contaminants. ARTICLE 2. Definitions .39665.

Montana

75.2.103: Definitions (1), (2) (3)
49-1-101 Right of protection from personal injury 50-1-101.
Definitions, (2), (5) a, b, c & 11 (a)

Oregon

ORS Chapter 468-A AIR QUALITY 468A.005
Definitions for air pollution laws (4) & (5)

Georgia

Georgia Rules for Air Quality Control- Chapter 391-3-1-.01
Definitions (c)) and (d) Code Title 12, Conservation and Natural Resources, Chapter 9, Prevention and Control of Air Pollution Article 1. Air Quality- 12-9-3. Definitions (3) and (4)

Conclusions

The general public is unaware of the risks associated with Geoengineering. Geoengineering violates existing laws. Air quality must be monitored to ensure such programs are not implemented without public consent due to the secrecy surrounding this issue to date. The public should be included in all proposed decisions to implement, restrict, or prevent SRM, Geoengineering, weather modification, and other schemes. We, the people, due to the risks involved, require participation, review, and oversight over these rules and regulations along with Environmental Impact Statements for each proposed scheme, along with their cumulative and synergistic impacts.