

Solar scattering

~ \$1 billion per year, 2 orders of magnitude less than limiting fossil fuel energy

Resonance scattering seems most effective method (\$.3-.75 billion per year)

three methods of deployment

- Terrestrial stratosphere

 - least expensive

 - 5 year residence time

- Low Earth Orbit

 - longer term

 - less cost effective at this point

- Earth-sun lagrange point

 - less material needed

 - could deflect light towards or away from earth as needed

Proposals

- Sub-microscopic oxide particulates (SO₂)

- Conducting sheets in stratosphere or low earth orbit

- Quasi-resonant scatterers (stratosphere)

- Fine-grained insolation modulation

 - differentiate cooling and heating based on latitude`

Stanford Environmental law Journal-basically states that geoengineering should be looked at because if carefully researched and done with caution it is low-risk. It is potentially economically and socially cost effective compared to reduction of greenhouse gases. Additionally, since more developed countries would probably foot most of the bill it fixes the tragedy of the commons and uses a "polluter pays" solution, keeping developing nations happy.