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sentthe amount of sunlight reaching the earth's surface in order to counteract any warming effect of greenhouse gases. It is not a new concept and certainly not a complex one. Nature does this routinely: In 1991, the large Philippine volcano Mount attubo threw myriad fine particles into the upper atmosphere, where they scattered small fractions of the sun's light and heat back into oce. We already know that the eruption of Mexico's El Chichon a decade earlier induced cooling in the Northern Hemisphere by about quarter as much as the average prediction of the global warming expected by 2100 (assuming no politically imposed limits on ssions). 1979, physicist Freeman Dyson, in his characteristically prescient manner, proposed the deliberate, large-scale introduction of such fine icles into the upper atmosphere to offset global warming, which he thought even then would eventually become a human concern. The of my colleagues and I have recently surveyed the current technological prospects for such an introduction. We estimated the costs olived and presented our results last August at the Twenty-second International Seminar on Planetary Emergencies. The most ensive such "geoengineering" option appears to be the one long ago proposed by Mr. Dyson, which may cost as much as \$1 billion a r. More technologically advanced options along the same lines might cost \$100 million.							TOOLS: ☑ EMAIL THIS ☑ PRINT THIS ☑ SAVE THIS ☑ MOST POPULAR FOLLOW THE HOON INSTITUTION:
It's between 0.1 and 1.0 percent of the \$100 billion a year it is estimated would be required to price-ration fossil fuel usage back down 990 levels in the United States alone. As the National Academy of Sciences commented a few years ago in a landmark report, et us play to our uniquely American strengths in innovation and technology, offsetting any global warming by the least costly means							facebook
erhaps one of the surprises of this analysis is the relatively low costs at which some of the geoengineering options might be oblemented." Indeed, the director of the U.S. Global Change Research Program's Coordination Office has been promoting such pengineering for three decades. But for some reason, this option isn't as fashionable as all-out war on fossil fuels and the people who e them.							You Tube"
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