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true. A congressional investigation called on by Senator Inhofe from Oklahoma will determine the truth of the matter sooner or later. The emails show that climate change evidence was doctored, cherry picked and rearranged to support the AGW viewpoint. In addition, discussions were had on how to avoid Freedom of Information requests from incredulous scientists and journalists, how to prevent the publication of deferring research, discredit legitimate critics and use the mass media to support the agenda. We should all be appalled at the perversion of the scientific method in order to support a political agenda. It is our duty now to make sure the truth comes out and that we get serious about solving our energy problems. The following is what I believe to be scientific fact in regards to our climate.

The following table takes into account all the major greenhouse gases and details their characteristics in terms of GWP (Greenhouse Warming Potential), Concentration in the atmosphere, Source of GHG (% Natural, % Man Made).

Greenhouse Gas	Greenhouse Warming Potential *	Concentration in the Atmosphere **	Source	
			Natural	Man Made
Carbon Dioxide - CO <sub>2</sub>	1	3.62%	96.80%	3.20%
Methane - CH <sub>4</sub>	21	0.36%	81.70%	18.30%
Nitrous Oxide - N <sub>2</sub> O	310	0.95%	95.10%	4.90%
Fluorocarbons - Various	12 to 22,200	0.07%	65.70%	34.30%
Water Vapour - H <sub>2</sub> O (gas)	Not Calculated	95.00%	100.00%	0.00%

\* Based on Carbon Dioxide as the baseline

\*\* Based on concentrations (ppb) adjusted for heat retention characteristics

Source: US Department of Energy, Dr. S. Fred Singer, atmospheric physicist and former director of the US Weather Satellite Service, Letter to the editor WSJ, Sept 10, 2001

When you sum the product of the concentration in the atmosphere with the man made source you find out that less than 0.3% of all GHG are attributed to man made sources. In fact, on further review it seems clear to me that volcanic activity and water vapour, especially the formation of clouds are the key terrestrial factors that determine global warming or cooling. The sun's energy output and sun spot activity, our orbital distance around the sun (it can vary by up to 3% from a perfect circle) and the tilt of our axis (21° to 24° range) are the key extraterrestrial factors.

Why did I bring this up? The answer is quite simple. I have a deep seeded belief that the production of energy will not keep up with future anticipated demand and that Canada's oil sands will be a key stop gap while we transition to alternative energy sources. I don't want to see any politically driven pseudo-



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science derail what I believe will be the greatest energy investment of our lifetime. "Climategate" revelations that are sure to come will support my viewpoint.

Derek Gates, CFA

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