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The Mayor
Tasman District Council
Private Bag 4
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attention Richard Kempthorne

Dear Sir

Re: Countering the Government's Nero Act

On 26 February, I addressed a meeting of the councillors and mayor of the South Taranaki District Council to explain a few facts of life relating to global warming and climate change. Each person at the meeting had before them the sheet I have attached entitled 'Some Ideas Relating to an Alternative Theory of Climate Change'. During my address, limited by protocol to only 10 minutes, I introduced the other sheet attached showing the strong geographic skewing of the Earth's surface warming and giving four references from among the many I have collected.

There is virtually no chance whatsoever that our global warming and climate change problem is due to the greenhouse gases in the atmosphere. While it may be tolerated to engage in a charade for the purposes of conserving fossil fuel resources, the concomitant ignoring of the likely real cause is not something we should be taking lightly. When the plug was pulled on the Pouto Point electricity generating station, the government should have begun a process of international consulting with the end in mind of a proceedings at the International Court of Justice. The abominable state of the energy-balance accounting for the Pouto Point turbines almost certainly reflects a similar weakness with respect to the underlying physics pertaining to other tidal turbines.

As you may know the government plans a period of public consultation, slated for May and June this year. After that it wants to introduce, through legislation, a program designed to get us down to par in our net greenhouse gas emissions. All the while, if we judge by the current rhetoric, it will be peddling a canard about the evil of the atmospheric greenhouse gas concentration. In order that we should see some commonsense come to light, I am proposing that one or more of the District and City Councils of New Zealand should commence a legal proceedings before the proposed period of public consultation begins in May.

At the end of my 10-minute address to the South Taranaki District Council there was only one question asked. Afterwards on reflection I decided that this question showed a slight estrangement from general knowledge about the gravitational potential energy. So in case this is more widely shared, herewith a little nugget from general science and some information out of the relevant portion of my speech.

Type *gravitational potential energy* into an internet search engine and many references will come up. At study.com we can get the main idea compressed into one sentence, viz: "The higher up an object is placed, the more GPE it has." (Quote)

When wind blows atmospheric gas molecules upwards, energy is taken out of the wind to feed the gravitational potential energy of the molecules. However gas molecules in the atmosphere rise up and contribute energy to gravitational potential in two other cases of note. In these cases the origin of the energy is found in patchy sensible heat. Tiny little patches of the atmosphere become hotter than their surroundings and rise up because their heat energy is momentarily exceptional. This reduces their heat.

In case one, the patchy sensible heat arises from the release of the latent heat of evaporation. Clouds are made of tiny little water droplets and with the formation of each droplet, with the condensation of some water vapour, a patch of sensible heat is introduced to the atmosphere.

In case two, the patchy sensible heat arises from the absorption of infrared photons of Earth's thermal radiation. In this case indeed only the greenhouse gases are active. However the result is, for our current intents and purposes, identical to what happens with the formation of clouds.

Among the many irreverent protestations we can hear in support of the greenhouse effect is a comparison between Earth and Venus. However the atmosphere on Venus is about one hundred times more dense than the atmosphere on Earth. The reason why we are not already burnt to a crisp from all the patchy sensible heat, from the formation of clouds and from the absorption of Earth's thermal radiation, is that our atmosphere is very active with vertical movements, with the conversion of patchy sensible heat into gravitational potential and thence into wind energy and other forms of latent energy. We have a lovely balance between the force of gravity and the density of the atmosphere on Earth and with this balance a capacity to support a considerably greater concentration of greenhouse gases than we currently have. It is only less than one tenth of one percent at the moment.

If you would like to do something positive about the looming debacle of climate change, please consider starting a legal proceedings. The South Taranaki District Council will be giving this some consideration and your initial contact there can be with Becky Wolland, Team Leader Governance and Support. Following the Cave Creek tragedy legislation was introduced to make government entities more awake and accountable. Now it appears we may need to take some advantage of this.

There are some illustrious names in global governance behind the canard of the greenhouse effect but in retrospect it may seem that the canard was useful. It has prepared us at least to understand that we have a man-made problem on our hands.

Sorting out man-made problems has been something of a thing for me. Most of my career has been in manufacturing - the kind where we're always trying to make something a bit unusual and where mistakes somewhat abound. While there are many scientists we can find who do not believe in the greenhouse effect, as indeed the nugget given above is based on fairly elementary science, it was my fate to be investigating some relevant fundamental areas when it was announced in 2011 that tidal turbines would be installed at Pouto Point. Then due to our Official Information provisions I was able to determine how terrible had been the science presented to the Environment Court when Resource Consent was granted.

When things go wrong at the frontier in manufacturing, it is almost always just one person who initially finds out. It is then their duty to inform the powers that be. While working in Australia once I watched a mistake finding go from a very low level of worker up to the top of a company employing about two hundred people. Within twenty-four hours action was taken and a major catastrophe was avoided.

In the case of my finding out that the energy-balance accounting for a tidal turbine does not pass muster, it appears that the government took enough notice to stop our own tidal electricity station from proceeding but could not muster the moral courage for any warnings at an international level. Consequently the weight has been left on my shoulders. This would be very much a no-no in manufacturing. One supposes that a similar ethic of stewardship and leadership would apply in construction and in medical facilities.

Rather than treating the issue as a technical one, to be addressed by keen and honest engagement with the issues in science, the government has treated the issue as a political nuisance, apparently trusting that it will go away. In so far as they were trusting however, their trust has been in ticky-tacky and therefore unwise.

Please do not let them douse you with ticky-tacky weights. It does not matter how many so-called experts are loosely ready to put their names behind the greenhouse effect. What matters is whether you can see that the questions arising have been answered in a manner befitting. You may find them wanting to put your heads in cotton wool and, if so, this should be as a red flag to the proverbial bull.

I am looking at a sufficient weight of argument and evidence to swing a proceeding at the International Court of Justice. This could be placed at your disposal should you wish to get the ball rolling with some action in our local New Zealand jurisdiction.

Thank you for any service you may give.

Yours faithfully



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Director
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Some Ideas Relating to an Alternative Theory of Climate Change

by Russell Z Christensen (RZC) of Eltham, NZ (produced Feb 2018 for the STDC)

Law of Energy Conservation

Energy cannot be created or destroyed, only converted from one form into another form. The law was first discovered in the mid-nineteenth century.

Energy-Balance Accounting

Commonly required for industrial chemistry. Because of the law of energy conservation it should be required for all industrial processes. Balances energy inputs and energy outputs.

Pouo Point Saga

RZC determined that the energy-balance accounting, as presented to the Environment Court for the Resource Consent pertaining to the Kaipara Harbour tidal turbines, was flawed. RZC complained to developer and government. The project was canned and it appears the public may have been lied to about the reason.

Three Types of Turbine

Hydro-electric turbines, wave turbines and tidal turbines are three types of turbine with three distinctly different sets of consideration relating to energy-balance accounting.

Cycles Arithmetic

The three types above-mentioned all take advantage of the force of gravity. Gravity is a conservative force (Physics I) and therefore the energy-balance accounting needs to refer to a cycle of action. Tidal turbines are unique in lacking a clean accounting after the proper references are made.

Asking the Questions about Potential Draining

Tidal turbines have been draining the gravitational potential energy on an industrial scale since 1966. What might we expect to have resulted from this? (If we could take away all of the Earth's surface warming since 1966, there would be nothing to worry about.)

Geographic Skewing of Earth's Surface Warming

Measurements from a variety sources, reputable publications and eye-witness reports all concur: the Earth's surface warming is very pronounced in the Northern Hemisphere. (But the greenhouse gases are evenly distributed!)

A Virtuous Canard

The theory of the greenhouse effect, as set forth, for example, in *Introduction to Atmospheric Physics* by David Andrews, a professor at Oxford University, is based upon irreverent hypothesis, omission and misconstruction of the laws of nature. The idea that greenhouse gases emit substantial back radiation heating the Earth's surface is a fabrication not conceived before the 1980s.

The Rolling Stone of Virtue

For the rolling stone to gather moss, an instrument called pyrgeometer was invented to provide bogus confirmation of the atmospheric back radiation. Also helpful was that university campuses are like mushroom farms with respect to new ideas that are backed by illustrious names and intergovernmental bodies.

International Court of Justice

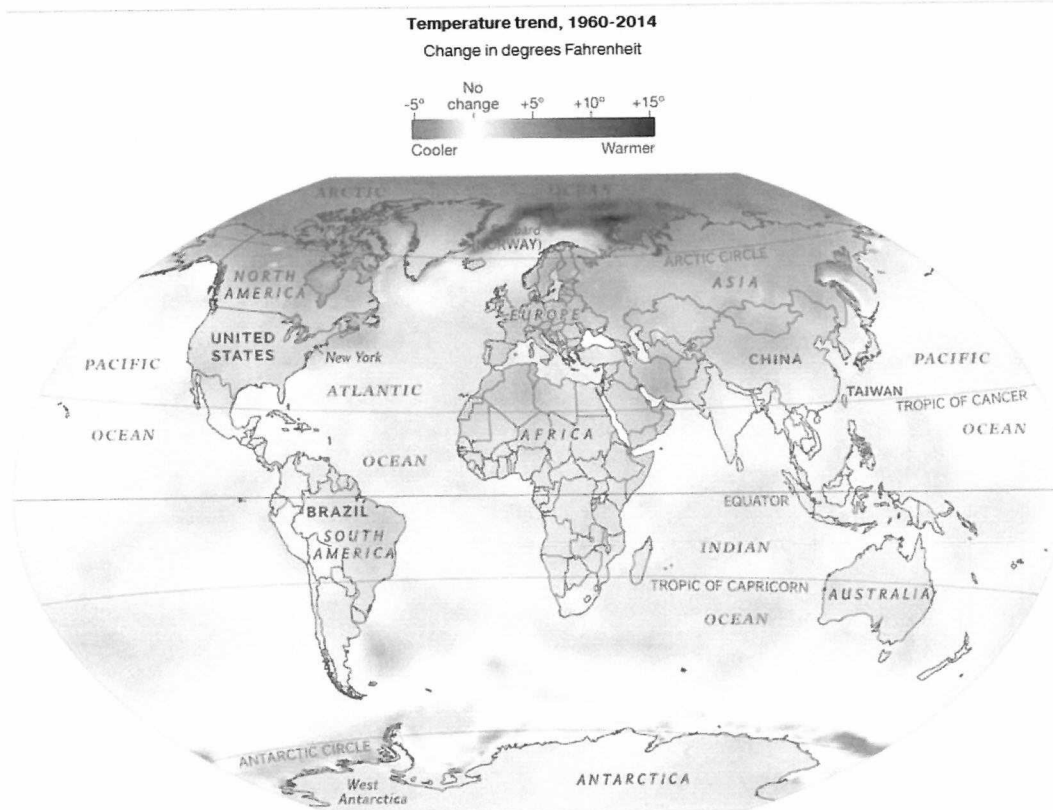
How else will Mankind come to its senses?

Negligence in New Zealand

The tort of negligence requires that a duty of care exists. It is possible that the government will claim they have turned a blind eye because there is no duty of care that would oblige them to do otherwise. However their bowed-head mode of addressing the issue of climate change prevents us, as a community, from knowing that a cause can be found in the draining of the gravitational potential energy. The world over there are very few tidal turbine generating stations and Mankind could well do without them.

(1) National Geographic's Climate Change Issue of November 2015

<http://ngm.nationalgeographic.com/2015/11/climate-change/introduction-text>



(2) NASA's Global Climate Change Write-up - Surface Temperature Section

<https://climate.nasa.gov/vital-signs/global-temperature/>

See the graph at the right of the page and the time series 1884 - 2016 below the graph. When the selector control is moved to the right under the time series, one sees the current situation wherein the warming is much more pronounced in the Northern hemisphere, similar to the situation portrayed in the National Geographic magazine as shown in the graphic above.

(3) British Hydropower Association's Description for La Rance Tidal Power Plant as prepared for the Annual Conference in Liverpool - 14 and 15 October, 2009.

This document gives a glimpse into the inventive process for La Rance. There is no mention of an energy balance accounting in the environmental impact assessment.

(4) The EDF Group's web page on tidal power.

<https://www.edf.fr/en/the-edf-group/industrial-provider/renewable-energies/marine-energy/tidal-power>

Please note the stated posture in relation to energy balance accounting -

“tides are a perfectly predictable phenomenon (unique for a renewable energy source), they are inexhaustible and carbon-free, and they have low environmental impact” (Quote)

This is a rough apologetics for the system, the sort of thing that the wallflowers might like to hear. There is a confusing of tidal recurrence with energy renewability, possibly because the gravitational potential energy has not been carefully put on the map.