

A Geologist's Perspective on Climate Change - Summary

Kauri Oil & Gas has undertaken a review of the current Climate Change science being used by the IPCC and New Zealand Government to guide policy direction. The full report is on our website (www.kaurioilandgas.co.nz) and the main conclusions are summarised below.

1. The Greenhouse model was developed in the 1850s as a possible explanation for the warmth of the atmosphere. The theory states that shortwave electromagnetic radiation from the sun is transformed into long wave (infrared) radiation at the earth's surface and re-radiated back into space. A portion of the longwave radiation is trapped by so-called Greenhouse gases (mainly water, carbon dioxide and methane) in the atmosphere, warming the planet.
2. Subsequent measurements by satellite confirm that incoming shortwave radiation is matched by outgoing short and longwave radiation. **The Greenhouse Model is not supported by measurements.**
3. Climate science (as presented by the IPCC) disregards crustal heat flow and attempts to balance the energy budget via storage of energy in greenhouse gases (GHG). New Zealanders are surrounded by evidence of crustal heat – Taupo, Rotorua, Hot Water Beach, Hanmer Springs, and literally hundreds more geothermal sites. Climate models assume 100% of the energy that warms the atmosphere is provided by the sun. The earth actually contributes around 40% of the energy.
4. The best analogy for earth's climate is a house with a heated concrete pad. The pad (the earth) emits constant, low intensity warmth. In the house a wood burner (the sun) is used for a few hours each day and emits high intensity heat. On average, they are both producing similar amounts of energy, but in very different forms.
5. For each 1ppm increase in carbon dioxide the temperature increases by 0.00002275% . **This has been measured.** Decarbonisation is futile and will have no impact on climate.
6. Destruction of ozone by chlorofluorocarbons (CFCs) has a major impact on temperatures as it increases the high intensity UV radiation entering the atmosphere and striking the earth. The Ozone hole is now the same size as it was in the 1970s. Ozone depletion has been occurring since the 1950s. A pause following the Montreal Protocol can be traced through the datasets – ozone concentration, water vapour, methane concentration, and ultimately temperature.
7. China resumed production of CFCs around 2012 and has been increasing its emissions each year. The current warming trend can be stopped, and reversed, by stopping the emission of CFCs, as agreed by all nations in 1987 Montreal Protocol. The repair of the ozone can be accelerated by producing ozone in the stratosphere.
8. Carbon dioxide is not responsible for ocean acidification either. Hydrochloric acid is a byproduct of the atmospheric interactions of ozone, freon, methane and uv light.

This, of course, has significant implications in a world where trillions of dollars are being invested to transition to carbon-free economies. This is a futile objective and capital could be directed elsewhere (health, housing, education, infrastructure).

I welcome feedback on any factual errors in this review. Statements such as “but thousands of climate scientists agree” and “but there are thousands of peer-reviewed papers supporting it” do not constitute evidence. Telling me I’m not a Climate Scientist has the opposite effect to that intended.

I agree this provides a nuclear-free moment. New Zealand once again has an opportunity to lead the world in correcting this historical detour and directing efforts back to understanding the real controls on climate change.

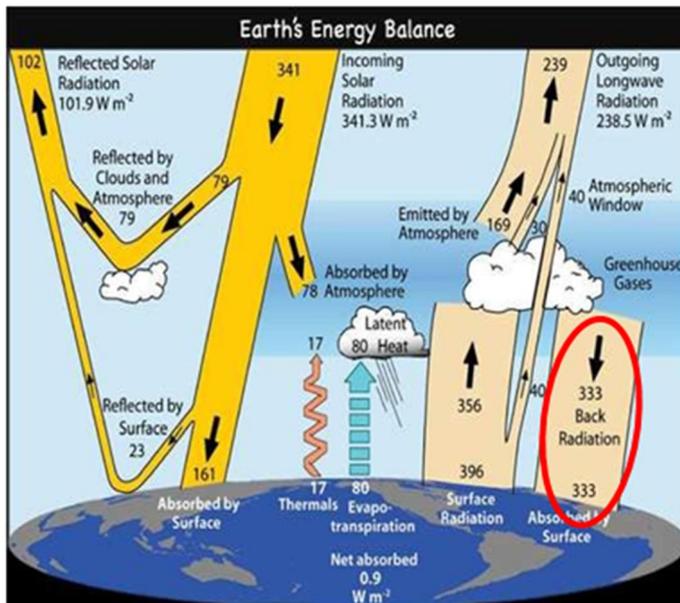
This review is also intended to provide a reality check for the current generation and counter the relentless negative and emotive messages from climate scientists and media that are generating the anxiety, despair and hopelessness being experienced by so many. The temperature problem can be solved, it can be solved quickly, there is no climate crisis and they should be optimistic about the future and the opportunities they have.

If you are interested in New Zealand’s future, please invest the time to read the review. If you agree with the conclusions, share with your family, friends, and colleagues. It is only pressure from an informed population that will swing the politicians and leaders and prevent New Zealand’s inevitable demise to a debt-ridden third world nation. If you wish to help, please support via the donation button on the website.

Mark Webster

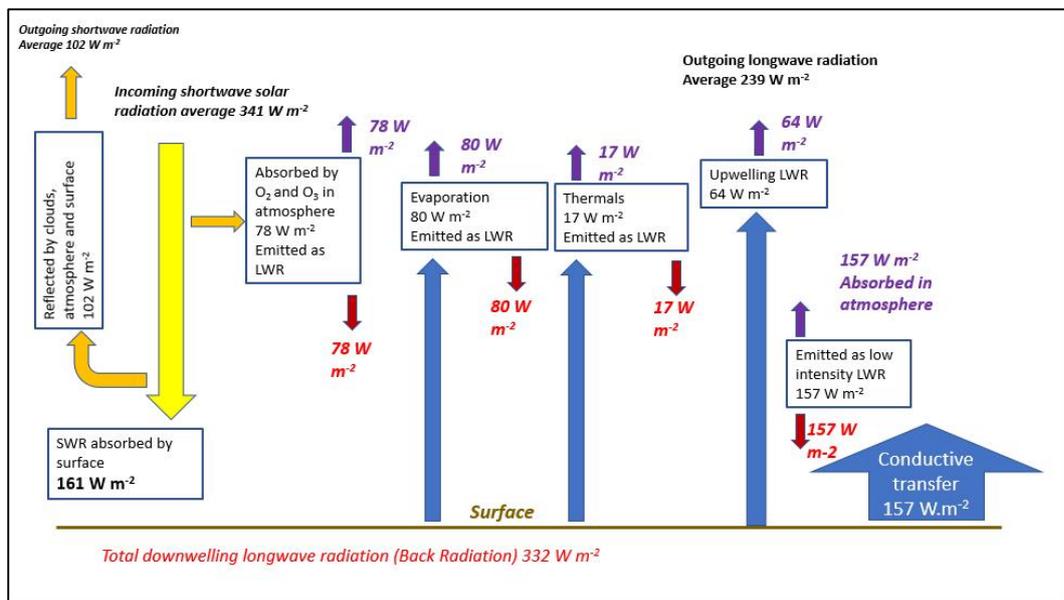
4 December 2020

The IPCC Energy Balance

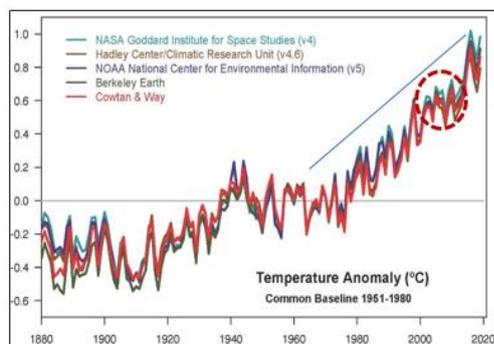
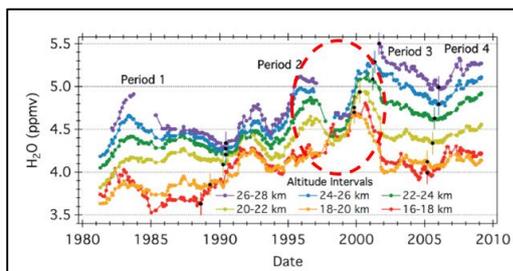
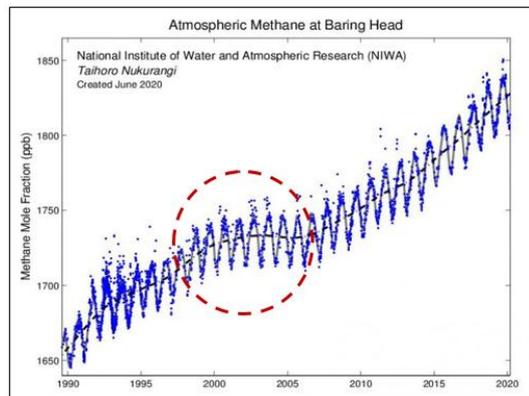
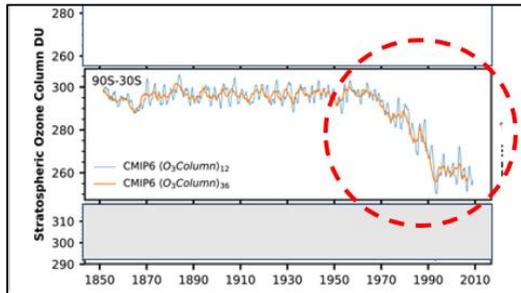
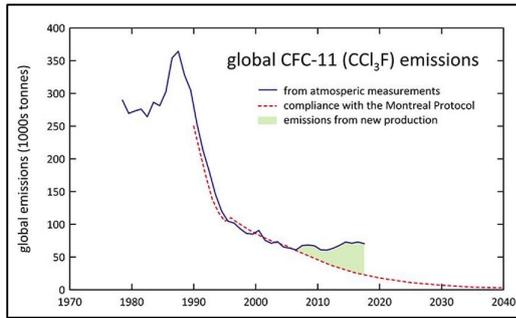


- Disregards heat from the earth
- Energy into atmosphere is equal to energy out
- Creates 333 W.m⁻² in atmosphere
- Attributes warming to GHGs
- Leads to decarbonisation strategy costing trillions

Kauri Oil & Gas Energy Balance



- Atmosphere warmed by low intensity heat from earth and high intensity solar UV.
- Post-1950s warming caused by ozone depletion due to CFCs
- Strategy is to ensure compliance with 1987 Montreal Protocol



CHLOROFLUOROCARBONS (CFCs)

- CFC emissions peaked in the 1980s
- Damage to ozone recognised
- 1987 Montreal Protocol banned harmful CFCs
- Emissions dropped until around 2010
- Renewed production and emissions detected in China (*figure Paul Crumell, CSIRO*)
- Stratospheric ozone depletion in southern hemisphere 1960s-1990s
- Increase in high intensity shortwave radiation entering atmosphere (*figure Checa-Garcia et al 2018*)
- Methane reacts with ozone
- As ozone depleting, methane increasing
- Reduction in CFC emissions reflected in pause in methane concentrations (*figure NIWA*)
- Increasing UV radiation led to increased evaporation and higher water vapour concentrations
- Reduction in CFCs mirrored by reduction in water vapour (*figure Hurst et al 2011*)
- Pause in CFC emissions appears as temperature hiatus (*figure NASA*)