

# Consultation on setting New Zealand's post-2020 climate change target



Copy of your submission

## Contact information

Name Chris Bathurst

Organisation (if applicable) Solvent Rescue (1999) Ltd

Address [REDACTED]

Telephone [REDACTED]

Email [chris@solventrescue.co.nz](mailto:chris@solventrescue.co.nz)

## Objectives for the contribution

Do you agree with these objectives for our contribution? Yes

1b. What is most important to you?

The objective set by New Zealand must be what is fair per capita on the New Zealand population compared with the world population. It is what is required to keep or exceed the average temperature below 2 deg C by 2030

What would be a fair contribution for New Zealand?

2. What do you think the nature of New Zealand's emissions and economy means for the level of target that we set?

Whatever it costs, the fair level will be less expensive than the costs of the climate changes even now being incurred by the economy by floods, storms, and droughts.

How will our contribution affect New Zealanders?

3. What level of cost is appropriate for New Zealand to reduce its greenhouse gas emissions? For example, what would be a reasonable reduction in annual household consumption?

The target must be a minimum of 40%.

This is what is needed to stop the world average temperature rise exceeding 2 deg C by 2030 if we do not make any changes, then the world average temperature rise which is presently at about 0.9 deg C, will climb to above 4 deg C, and probably to 4.5 deg C by 2030. This will be disastrous to the human race and our present economy.

4. Of the opportunities for New Zealand to reduce its emissions (as outlined on page 15 of the discussion document), which do you think are the most likely to occur, or be most important for New Zealand?

What is not mentioned on page 15 box 9 is making direct crude oil from hydrothermal reaction of any organic feedstock. We at Solvent Rescue (1999) Ltd are making crude oil to the same specification as West Texas International Sweet Crude oil with our Supercritical Water Reactor. We have made crude oil from fresh water algae grown in the Christchurch Waste water treatment plant. We have also made crude oil from wood and our Australian associates, Muradel Pty Ltd, are making crude oil to the same spec from seawater algae. We in New Zealand are presently making the same spec crude oil from Dry Cleaning Waste and Woolscour Waste. We have also made crude oil as a trial from agricultural waste chemicals. Just this year we completed successfully making crude oil from treated waste wood after first removing the chemicals of Copper Chrome, and Arsenic in a WMF project managed by the Ministry for the Environment. All of these mentioned are made at a profit for crude oil at prices below \$80.00 per barrel. At larger scale this crude oil could be made At a price of lower than present international Brent Crude price. The advantage of making crude oil compared with other biofuels, is that no change whatever

# Consultation on setting New Zealand's post-2020 climate change target



Copy of your submission

---

needs to be made to any of the downstream infrastructure from existing oil refineries, to present internal combustion engines. Therefore the cost of meeting a 40% target would cost NOTHING and even may be a saving in cost compared with conventional mining of fossil crude. Side benefits are the conversion of effluent as described above into a useable crude oil product thereby recovering cleaned water which can be recycled into farming enterprises.

## Summary

5. How should New Zealand take into account the future uncertainties of technologies and costs when setting its target?

The technology of climate change is NOT uncertain. It is certain that climate change is caused by anthropogenic (human) effects. The costs of achieving target will be trivial compared to the costs of the effects of not achieving a target of 2 deg C average temperature rise by 2030

## Other comments

6. Is there any further information you wish the Government to consider? Please explain.  
Representatives from the Government may visit our factory in Sydenham Christchurch and view the SCWR plant processing Dry Cleaning Waste into crude oil at present.