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Email	
A Zero Carbon Act is important to me because...	<p>I am a glaciologist that sees first hand the effects of climate change. Though these effects are sad, and effect me personally, they are minuscule relative to the longer term climate change.</p> <p>Every issue on our planet will be amplified by climate change - development, conflict, environmental degradation. I am terrified for the effects of rising sea levels on low lying countries like bangladesh or indonesia, the increasing fickle weather and droughts that will hit Africa and South America, and worldwide loss of biodiversity and habitat. Even if we are selfish, global crises of poverty, and mass migration will impact NZ severely. And in our home, new tropical invasive species will wreck havoc, storms will smash us, and an unstable global community will rock our island security.</p> <p>The only way to mitigate climate change is to stop greenhouse gas emissions now. The only way this is possible is through strong government intervention. The pollution market is not free or fair without regulations taxes or costs.</p>
Q1. What process should the Government use to set a new emissions reduction target in legislation?	<p>The Government should set a target for 2050 in legislation now.</p> <p>Don't consult with the public. Don't consult industry, we've had enough time to do that. We need action.</p>
Q2. If the Government sets a 2050 target now, which is the best target for New Zealand?	<p>The most ambitious target: reducing total greenhouse gases to net zero by 2050.</p> <p>I also support taking a science-based approach to ensure our efforts to reduce emissions are as impactful as possible: we should aim for negative levels of long-lived gases, while reducing short-lived gases to sustainable levels.</p>
Q3. How should New Zealand meet its targets?	<p>By using domestic emissions reductions only (including from new forest planting).</p> <p>I would favour an emissions trading scheme.</p>
Q4. Should the Zero Carbon Bill allow the 2050 target to be revised if circumstances change?	<p>The 2050 target should not be altered in response to "economic changes" as this undermines its long-term certainty. However, the ability to revise the 2050 target in light of major changes in scientific understanding or international agreements should be permitted.</p>
Q5. The Government proposes that three emissions budgets of five years each (i.e. covering the next 15 years) be in place at any given time. Do you agree with this proposal?	<p>yes - I agree with 5-year budgets set 10-15 years in advance, so that 3 are in effect at all times.</p>
Q6 - Q7. Should the Government be able to alter emissions budgets?	<p>No - emissions budgets should not be altered in response to "economic changes" as this undermines their long-term certainty. However, the ability to revise budgets in light of major changes in scientific understanding or international agreements should be permitted.</p>

<p>Q8. Do you agree with the proposed considerations that the Government and the Climate Commission will need to take into account when advising on and setting budgets?</p>	<p>I agree that the Government and the Climate Commission should take the following factors into consideration when advising on and setting budgets:</p> <ul style="list-style-type: none"> • scientific knowledge regarding climate change • technology relevant to climate change • fiscal circumstances and the likely impact of the decision on taxation, public spending and public borrowing • social circumstances and the likely impact of a decision on fuel poverty • energy policy and the likely impact of a decision on energy supplies and the carbon and energy intensity of the economy. <p>However,</p> <ul style="list-style-type: none"> • economic circumstances and effects must only be considered in the long term (over centuries not decadal). This is a long term problem, it needs long term thinking. There is no worth in maintaining a sector of the economy if it is negative in the over a longer period.
<p>Q9. Should the Zero Carbon Bill require Governments to set out plans within a certain timeframe to achieve the emissions budgets?</p>	<p>Yes - we must learn from the mistakes of the UK's Climate Change Act and specify a strict time frame for producing a plan.</p>
<p>Q10. What are the most important issues for the Government to consider in setting plans to meet budgets? For example, who do we need to work with, what else needs to be considered?</p>	<p>The Government's policy plans to meet emission budgets should be comprehensive, fair, cost-effective, environmentally sustainable, and reflect a commitment to Te Tiriti o Waitangi.</p>
<p>Q11. The Government has proposed that the Climate Change Commission advises on and monitors New Zealand's progress towards its goals. Do you agree with these functions?</p>	<p>Yes - the Commission should not be a decision-making body.</p>
<p>Q12. What role do you think the Climate Change Commission should have in relation to the New Zealand Emissions Trading Scheme (NZ ETS)?</p>	<p>The Commission should advise the Government on policy settings in the NZ ETS. It should not make decisions itself with respect to the number of units available in the NZ ETS, or its implementation.</p>
<p>Q13. The Government has proposed that Climate Change Commissioners need to have a range of essential and desirable expertise. Do you agree with the proposed expertise?</p>	<p>I agree with the following collective expertise:</p> <ul style="list-style-type: none"> • science of the world, and it's connections with climate change. • climate change policy (including emissions trading) • resource economics and impacts (including social impacts, labour markets and distribution) • te Tiriti o Waitangi, te reo me ona tikanga Māori and Māori interests • climate and environmental science including mātauranga Māori • experience with addressing adaptation challenges like planning, insurance and local government • risk management • engineering and/or infrastructure • community engagement and communications. • business competitiveness • knowledge of the public and private innovation and technology development system.
<p>Q14. Do you think the Zero Carbon Bill should cover adapting to climate change?</p>	<p>Yes. This may require a separate adaptation sub-committee within the Climate Commission.</p>

Q15. The Government has proposed a number of new functions to help us adapt to climate change. Do you agree with the proposed functions?

I agree with the proposed functions below, but recognise that nuance is required in terms of how local councils are involved:

- a national climate change risk assessment
- a national adaptation plan including just transition plans for communities, economies and workers.
- regular review of progress towards implementing the national adaptation plan
- an adaptation reporting power

Q16. Should the Government explore setting up a targeted adaptation reporting power that could see some organisations share information on their exposure to climate change risks?

Yes

Further comments