

Make Submission

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Event Name	Long-Term Plan 2018-28 Consultation
Submission by	Dr. Michael Mautner (77378)
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Status	Submitted
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Whole Plan Support/Oppose	
Please select one of the following:	I generally agree with the activity proposed for the Long-Term Plan.

Whole Plan Comments

Please provide any comments.

Submission to ECAN Long Term Plan

18-March-2018

General Comments

The 2018 Long Term Ecan Plan addresses many important issues for the next decade that are related to climate change. For example, the plan affects the availability of fresh water, biodiversity, and agriculture, and emissions by cars and other transport. In particular, the proposed Climate Change Integration Program is welcome. It will help understanding how these effects interact with each other, and how can we minimize carbon emissions and adapt to climate changes.

Soil Organic Matter and Climate Change

- However, the plan does not seem to address some major sources and sinks for atmospheric carbon. One such factor is soil, that stores more carbon globally than the oceans and atmosphere combined. In Canterbury, large areas are farmlands and tussock lands that store substantial carbon as organic matter. The storage and emission of greenhouse gases of these soils need to be studied.

- This information will help maximizing the storage, and minimizing emission of greenhouse gases such as carbon dioxide, methane and nitrous oxide. Increased information on soil carbon will also help adapting to climate change here and in similar soils globally.

Conservation Land

- Ecan can encourage the Christchurch City Council to purchase more land for conservation. Areas adjacent to existing nature reserves are especially important when they become available for sale by private owners. Using these areas as natural reserves will help preserving terrestrial biodiversity.

Preserving Biodiversity

- Gullies in the Port Hills and Banks Peninsula should be planted with local native plants to manage these transport processes. The transport of fertilizers pesticides and toxic effluents from soil to water should be also studied and minimized.

Sincerely,

Dr. Michael Mautner 15A Kidson Terrace Christchurch 8022 m.mautner@xtra.co.nz