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**From:** no-reply@mbie.govt.nz  
**Sent:** Monday, 2 September 2019 3:01 p.m.  
**To:** [REDACTED]; Hydrogen  
**Subject:** Hydrogen green paper - submission

Submission on Hydrogen green paper received:

## **Introduction**

### **Name**

Kingi Gilbert

### **Email**

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### **Business name or organisation (if applicable):**

### **Position title (if applicable):**

### **Is this an individual submission or on behalf of a group or organisation?**

Individual

### **Please give the name of the group or organisation this submission is on behalf of.**

### **What is the role of Government in developing hydrogen for storage and distribution?**

Outline, safety mechanisms and procedures for equipment and transmission. Ensure New Zealanders, have equal access to opportunities. In particular the Māori engagement strategy. We need KPI's in terms of quality of engagement with Maori when developing plans for storage, hydrogen and renewable electricity.

### **What are the challenges for using hydrogen for storage and distribution?**

Capital outlay for infrastructure and technology (IP) acquisition. Know-how to work with Māori and tap into Māori aspirations at the strategic level - kind of missed the mark on this paper, but it can be massively improved if the Government truly wants this.

### **What are the opportunities for using hydrogen for storage and distribution?**

I would like to see each Iwi, hapu, marae and businesses have the option to develop a node on the distribution network. These opportunities need to be extended to those trusts, incorporations and corporates that have capital.

How can we ALL see an opportunity to become part of the future solution?

A detailed engagement strategy needs to be created multiple levels:

- a. at the foundational treaty partner level (not a sub-category of strategy inquiry) with larger boards focussed empirically on economics, social health and stewardship principles such as Kaitiakitanga.
- b. at the corporate level looking at savings and impacts on businesses.
- c. at a social level for everyday residents knowing the changes that are coming.

### **What is the role of Government in developing the complementary role of electricity and hydrogen?**

Opportunities for generation, distribution and retail. Please ensure canvas the full spectrum of Māori community, not just Iwi Chair Forum.

**What are the challenges for achieving this complementary role of electricity and hydrogen?**

For electric grid utilities - how network infrastructure, software and load balancing will meet expected demands until 2050.

For hydrogen - how supply of vehicles, software and distribution nodes will meet expected demands until 2050.

The challenge is for MBIE to properly engage the three strata of Māori community to ensure that there is a proper representation of voices that reflect the diversity in the community.

**What are the opportunities for this complementary role of electricity and hydrogen?**

The biggest upside with having Māori engaged at three levels is that a transition has a better chance of success because:

- a. there are more Māori engaged at every level
- b. capital can be unlocked by Māori
- c. Māori partnerships with offshore companies can be brought to the table (just look at Tuaropaki and H2 Taranaki and how many Māori contribute to those partnerships).

**What is the role of Government in supporting hydrogen use for the transport sector?**

Ensuring regional availability. If you want this to be proper regional transport sector the Government need Māori partners who are spread all over. If it is about working for ALL then engage all the strata of the community.

**What are the challenges when using hydrogen for mobility and transport?**

**What are the opportunities for using hydrogen for mobility and transport?**

Import cars and repair of cars. What are the base level jobs that will literally power the hydrogen and renewable energy economy?

**What is the role of Government in encouraging the use of hydrogen for industrial processes including process heat supply?**

**What are the challenges for using hydrogen in industrial processes?**

Stewardship of the land (that is not Māori owned).

**What are the opportunities for the use of hydrogen in industrial processes?**

**What is the role of Government in encouraging hydrogen uptake for decarbonisation of our natural gas uses?**

Scientific research into decarbonisation pathway and timeline for introduction of new technologies.

**What are the challenges for hydrogen to decarbonise the applications using natural gas?**

**What are the opportunities for hydrogen to decarbonise our gas demand?**

**What is the role of Government in producing hydrogen in sufficient volume for export?**

Ok, just remember that our planet is small. New Zealand is smaller. We should NEVER export more than our systems can handle. We have to cap it out. Intensification of production should NEVER happen at the cost of the environment. Never, never, never.

**What are the challenges for hydrogen if produced for export?**

Price and demand from other markets. I fail to see how we will have any power in global markets all pumped up to sell hydrogen, we will have a small market and unable to control price against bigger player - it's not like we can say "NZ Green Hydrogen is better" and charge a 10% premium? Or can we?

**In addition, we welcome your feedback about the opportunities of hydrogen to Māori and how this will support their aspirations for social and economic development.**

This document does not illustrate a true partnership between Crown & Māori. In the next round (and especially the Renewable Energy Strategy) I hope to see a marked improvement in building meaningful, sustainable relationships.

Think of Māori organisations and communities as being co-authors of the paper. I'm afraid that while tokenistic engagement practices are adopted we will continue to see the widening gap instead of bridging a transition to a new NZ.

Please do not Fast Track these projects using 'technical' and 'scientific' bases, the future market will not be robust, fast tracking only creates opportunities for those with either scale or track record. We want to avoid the establishment of oligopolies and then have to undertake some weird kind of privatisation strategy like the 1980's.

Sustainable Track = diversity + brokerage + trust (otherwise known as innovation). Please pursue an innovative mantra when MBIE think about engagement.

Really think about MBIE being a Convenor, Co-Author and Co-Contributor. The final strategy should be Co-Authored by Treaty Partners.

**What are the opportunities for hydrogen if produced for export?**

**If you wish to, you can attach a document to this submission.**

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No

**Can we include your position title?**

No

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