

[REDACTED]

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**From:** no-reply@mbie.govt.nz  
**Sent:** Tuesday, 3 September 2019 9:11 p.m.  
**To:** [REDACTED]; [REDACTED]; Hydrogen  
**Subject:** Hydrogen green paper - submission

Submission on Hydrogen green paper received:

## **Introduction**

### **Name**

Gareth Young

### **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?**

Vital because it's pre-commercial Development

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

Hydrogen delivery through existing piping will be a problem because hydrogen gas is so light there may be unacceptable leakage

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

Hydrogen can be produced and used in a closed cycle we're the 'waste product', is clean water.

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

Financing pre-commercialisation phase

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

Numerous

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

Displace oil and natural gas

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

Providing finances

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

Leakage, low density,  
Liquefaction

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

Closed cycle clean energy

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

Finance

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

As above

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

As above

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

Finance

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

None

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

Huge

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

Finance

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

None

**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.**

Job opportunity

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

Very large

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

**Use and release of information**

**We intend to upload submissions to our website at [www.mbie.govt.nz](http://www.mbie.govt.nz). Can we include your submission on the website?**

Yes

**Can we include your name?**

Yes

**Can we include your email address?**

Yes

**Can we include your business name or organisation?**

Yes

**Can we include your position title?**

Yes

**Can we include the group or organisation your submission represents (if submitting on behalf of a group or organisation)?**

**If there are any other parts to your submission that you do not want public on the website please note them below:**

**OIA warning**

**If there is information in your submission that you wish to remain confidential, please note them below:**