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From: no-reply@mbie.govt.nz
Sent: Friday, 18 October 2019 10:33 p.m.
To: [REDACTED]; Hydrogen
Subject: Hydrogen green paper - submission
Attachments: Online-submission-form-uploadsHydrogen-green-paperHydrogen.docx

Submission on Hydrogen green paper received:

Introduction

Name

Stephen Press

Email

[REDACTED]

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?

without the help of the government to grow the availability of hydrogen it will stagnate and people will take the easy, familiar choices. The longer we take the worse things will get.

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

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

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

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

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

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

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

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

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?

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?

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?

What are the challenges for hydrogen if produced for export?

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.

What are the opportunities for hydrogen if produced for export?

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

[REDACTED]

Use and release of information

We intend to upload submissions to our website at 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?

No

Can we include your business name or organisation?

No

Can we include your position title?

No

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

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To the Committee.

In 1997 I was a freelance cameraman working in London for a small television production company that was trialing Hydrogen Fuel Cell batteries for broadcast cameras and a replacement for NiCd (nickel cadmium) batteries. The Hydrogen batteries were lighter, lasted longer and didn't have the "memory" issues, also thanks to the fast filling/charging hydrogen station we needed less of them. Instead of the 6 to 8 NiCd we could use 2 to 3 Hydrogen. I was a big fan.

Then Lithium-ion batteries came on the scene, they were as light as hydrogen, almost as long lasting without the "memory" issue and were cheaper and ironically regarded as safer. You still needed 4 to 6 of them as they took up to 2 hours to charge and flying has become another safety problem.

Looking back I think my industry made the wrong but easy, familiar choice to go Lithium-ion and not hydrogen.

I am very excited by the Green paper and think it is well thought out. I do think that once there is a proper hydrogen delivery system they will be a lot more opportunities for the average consumer to use it in ways that are not obvious at this point in time.

"If you build it, they will come." May sound trite but without the help of the government to grow the availability of hydrogen it will stagnate and people will take the easy, familiar choices. The longer we take the worse things will get.

I realize the timelines in the Green paper are realistic and sensible but with the current climate emergency movement maybe it's time to harness that sense of urgency and get things moving.

Tokyo Olympics will be the hydrogen games, we should be looking to take advantage of the publicity and push hydrogen along faster.

New Zealand is a fantastic place for a hydrogen solution, we could be 100% renewable but we can't wait for industry. The government with the good will of the people are the only way this will happen in time to make a difference to the planet. Do it and do it now.

Thank you

Stephen Press