



Ref. No. DOIA 2021-2210

8 July 2021

Phil Pennington
Phil.Pennington@rnz.co.nz

Dear Phil Pennington

Thank you for your email of 4 May 2021 to the Ministry of Business, Innovation and Employment (MBIE) requesting, under the Official Information Act 1982 (the Act), the following information:

- *Any notes or minutes or similar linked to Fortescue's discussions or briefings with MBIE about Tiwai Pt aluminium smelter site*
- *Any communications between MBIE and Fortescue re this – excluding merely administrative comms such as arranging mtgs – re this since start of 2021.*

On 7 May 2021, you clarified the time range for the two parts of your request, noting the first part of your request applied to the period mid-2020 through to 4 May 2021 (the date of which you made your request). You noted the date range for the second part of your request was from 1 January 2021 to 4 May 2021.

On 31 May 2021, MBIE notified you of a 20 day extension to respond to your request, made under 15A(1)(b) of the Act.

Please find attached a document bundle that covers all information within scope of your request. Please note that some information from within these documents has been withheld under the following sections of the Act:

- 9(2)(a) to protect the privacy of nature persons
- 9(2)(b)(ii) to protect information where the making available of the information would be likely unreasonably to prejudice the commercial position of the person who supplied or who is the subject of the information
- 9(2)(ba)(i) protect information which is subject to an obligation of confidence or which any person has been or could be compelled to provide under the authority of any enactment, where the making available of the information would be likely to prejudice the supply of similar information, or information from the same source,

- and it is in the public interest that such information should continue to be supplied
- 9(2)(g)(i) to maintain the effective conduct of public affairs through the free and frank expression of opinions by or between or to Ministers of the Crown or members of an organisation or officers and employees of any public service agency or organisation in the course of their duty
- 9(2)(j) enable a Minister of the Crown or any public service agency or organisation holding the information to carry on, without prejudice or disadvantage, negotiations (including commercial and industrial negotiations)

I am satisfied that, in the circumstances, the withholding of this information is not outweighed by other considerations that render it desirable to make it available in the public interest.

You have the right to seek an investigation and review by the Ombudsman of my response to your request. Information about how to make a complaint is available at www.ombudsman.parliament.nz or freephone 0800 802 602.

Yours sincerely



Andrew Hume
Policy Director, Energy and Resource Markets
Building Resources and Markets

From: Suzannah Toulmin
Sent: Tuesday, 21 July 2020 2:56 pm
To: Bertrand Ngai
Subject: FW: Fortescue update

Suzannah Toulmin
TEAM LEADER – ENERGY TRANSITION

Energy & Resource Markets Branch
Hikina Whakatutuki

Īmera: suzannah.toulmin@mbie.govt.nz | Waea: +64 (4) 901 3879 | Waea pūkoro: s 9(2)(a)
15 Stout St, PO Box 1473, Wellington, 6140
www.mbie.govt.nz

From: Suzannah Toulmin
Sent: Tuesday, 21 July 2020 9:52 AM
To: James Shannon [TSY] <James.Shannon@treasury.govt.nz>; Mark Pickup <Mark.Pickup@mbie.govt.nz>; Fiona.Stokes@treasury.govt.nz; George Wibberley [TSY] <George.Wibberley@treasury.govt.nz>; Scott Russell [TSY] <Scott.Russell@treasury.govt.nz>
Subject: FW: Fortescue update

Hi James –

I'll also forward you the briefing that we sent to Minister Woods pre her catchup with FMG.

Note the below is commercially sensitive. FMG is a listed company.

Mark Pickup also has some notes that he took during the meeting so can add to this thread as needed.

- s 9(2)(ba)(i); s 9(2)(j)
- s 9(2)(ba)(i); s 9(2)(b)(ii)
- s 9(2)(ba)(i); s 9(2)(j)
- They have not had any engagement with iwi, Rio Tinto or local govt, but they have had continued engagement with Meridian.
- They are aiming for production of hydrogen from 2023.

BR,
Suzannah

Suzannah Toulmin
TEAM LEADER – ENERGY TRANSITION

Energy & Resource Markets Branch
Hikina Whakatutuki

Īmera: suzannah.toulmin@mbie.govt.nz | Waea: +64 (4) 901 3879 | Waea pūkoro: s 9(2)(a)
15 Stout St, PO Box 1473, Wellington, 6140

From: Julie Shuttleworth <jshuttleworth@fmgl.com.au>
Sent: Wednesday, 15 July 2020 4:48 PM
To: Suzannah Toulmin <Suzannah.Toulmin@mbie.govt.nz>
Cc: David Darby <David.Darby@parliament.govt.nz>; Tom Weaver <tweaver@fmgl.com.au>
Subject: Fortescue update

Hi Suzannah

It was great to speak to you again on the call with Minister Woods this morning. Thanks David for helping to organise the call.

When you have time it would be great to receive information/introductions on the Overseas Investment body that the Minister mentioned. I would also be happy to have a call with you and the team at a suitable time to discuss further, including potential next steps.

s 9(2)(ba)(i); s 9(2)(b)(ii)

s 9(2)(ba)(i); s 9(2)(b)(ii)

s 9(2)(ba)(i)

Some insights into our background information and proposed next steps for meetings are outlined below.

If you or the team have anything else to add, that would be appreciated. We are looking forward to any feedback you have.

Regards
Julie

Next Meetings & Background Research:

s 9(2)(ba)(i)

s 9(2)(ba)(i)

s 9(2)(ba)(i)

New Zealand Local Government

NZ has two levels of regional government: 11 regional councils and territorial authorities.

Manapouri and Tiwai Point fall under Southland Regional Council (now called Environment Southland), based in Invercargill. Responsible for sustainable management of Southland's natural resources – land, water, air, coast – in partnership with the community.

<https://www.es.govt.nz/>

Includes Invercargill, Gore, Lumsden, Winton, Mataura, Te Anau

- Chair: Nicol Horrell
- Chief Executive: Rob Phillips

Manapouri is within Fjordland Constituency

- Councillor: Allan Baird, allan.baird@es.govt.nz

Tiwai Point is within Invercargill-Rakiura Constituency

- Councillors: Neville Cook neville.cook@es.govt.nz, Lloyd Esler lloyd.esler@es.govt.nz, Robert Guyton robert.guyton@es.govt.nz, Lyndal Ludlow lyndal.ludlow@es.govt.nz, Bonnie Mager bonnie.mager@es.govt.nz, Eric Roy eric.roy@es.govt.nz

Territorial Authorities within Southland Region: Southland District, Invercargill, Gore District

Manapouri is within Southland District Council, based in Invercargill

<https://www.southlanddc.govt.nz/>

Southland District Council manages roads, water supplies, sewerage, cemeteries, community halls, community housing, libraries, parks

Southland District has a mayor and 12 councillors for 5 wards.

- Mayor: Gary Tong gary.tong@southlanddc.govt.nz
- Chief executive: Steve Ruru steve.ruru@southlanddc.govt.nz

Manapouri is within Mararoa Waimea ward, Te Anau area

- Councillors: John Douglas john.douglas@southlanddc.govt.nz, Ebel Kremer ebel.kremer@southlanddc.govt.nz, Rob Scott robin.scott@southlanddc.govt.nz

Bluff and Tiwai Point fall within Invercargill City Council

<https://icc.govt.nz/>

- Mayor: Sir Tim Shadbolt mayor@icc.govt.nz
- Chief Executive: Clare Hadley via michelle.sievwright@icc.govt.nz

Iwi Groups

Ngai Tahu is the principal Maori iwi for the southern region of New Zealand. Nagi Tahu

info@ngaitahu.iwi.nz, +64 3 366 4344

15 Show Place, Addington, Christchurch 8024

- Chair: Lisa Tumahai
- CEO: Arihia Bennett

Four governance areas in Southland:

- Waihopai Runaka (Invercargill)
- Te Runanga o Arawura (Bluff)
- Te Runanga o Oraka Aparima (Colac Bay)

- Hokonui Runanga (Gore)

Regards
Julie

Julie Shuttleworth
Deputy Chief Executive Officer

Fortescue Metals Group Ltd
Level 2, 87 Adelaide Terrace East Perth WA 6004

M: s 9(2)(a)

Twitter: @FortescueNews | www.fmgl.com.au



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From: James Shannon [TSY] <James.Shannon@treasury.govt.nz>
Sent: Tuesday, 21 July 2020 3:22 pm
To: Suzannah Toulmin; Bertrand Ngai
Subject: Fortescue meeting read-out and observations

Kia ora Suzannah and Bertrand

For internal consumption, my read out and observations from our conversation with Fortescue just now.

s 9(2)(ba)(i); s 9(2)(b)(ii)

s 9(2)(ba)(i)

- *Consultation:* they have engaged with Minister Woods, Meridian Energy and Transpower. Was unclear to me whether they have engaged with NZAS/Rio. Are yet to, but about to, engage with Overseas Investment Office, Councils and Iwi. And have expressed interest in engaging with MFE (to understand the consenting landscape).
- *Support from government:* They are looking for introductions and insights at this stage (see below). s 9(2)(j)
s 9(2)(j) s 9(2)(g)(i)

We encouraged them, and should continue to encourage them, to engage their own advisors on RMA and other specific issues. s 9(2)(g)(i)

Actions (for MBIE):

- Provide contact details / introductions to:
 - MFE
 - Ngai Tahu
 - Immigration email (for a potential high-level site visit)

We expect to have another update meeting in 3-4 weeks.

Cheers
James

James Shannon | Te Tai Ōhanga – The Treasury

Mobile: s 9(2)(a) | Email: james.shannon@treasury.govt.nz

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From: Adrian Tweeddale
Sent: Wednesday, 19 May 2021 3:16 pm
To: Jodi Percy
Subject: FW: Change of date [UNCLASSIFIED]

From: Mark Pickup <Mark.Pickup@mbie.govt.nz>
Sent: Monday, 22 February 2021 10:07 AM
To: Andrew Millar <Andrew.Millar4@mbie.govt.nz>; Adrian Tweeddale <Adrian.Tweeddale@mbie.govt.nz>; Malcolm Schenkel <Malcolm.Schenkel@mbie.govt.nz>
Cc: Conrad Edwards <Conrad.Edwards@mbie.govt.nz>
Subject: RE: Change of date [UNCLASSIFIED]

Yes worthwhile

From: Andrew Millar <Andrew.Millar4@mbie.govt.nz>
Sent: Monday, 22 February 2021 10:00 AM
To: Adrian Tweeddale <Adrian.Tweeddale@mbie.govt.nz>; Malcolm Schenkel <Malcolm.Schenkel@mbie.govt.nz>
Cc: Conrad Edwards <Conrad.Edwards@mbie.govt.nz>; Mark Pickup <Mark.Pickup@mbie.govt.nz>
Subject: FW: Change of date [UNCLASSIFIED]

Hi all,

s 9(2)(a) from Fortescue Metals has got in touch seeking as meeting. Seems they are big into hydrogen and have some pretty serious plans for hydrogen development down in Southland.

Could be worth meeting to understand their business model.

AM

From: s 9(2)(a) <[s9\(2\)\(a\)@fmgl.com.au](mailto:s9(2)(a)@fmgl.com.au)>
Sent: Monday, 22 February 2021 9:45 AM
To: Andrew Millar <Andrew.Millar4@mbie.govt.nz>
Subject: Change of date

Hi Andrew

Thanks for the reply this morning. Looks like my meetings at the Beehive have been changed to Thursday, so hopefully this day works well for you and your team.

Morning looks the best at this stage.

Ahead of our meeting, you might like to review and share a recent Boyer lecture given by our Chairman, Dr Andrew Forrest regarding the work we're doing, and the energy transition we are driving.

https://youtu.be/GwfS3A_IXYc

Please let me know if Thursday works.

s 9(2)(a)

Level 2, 87 Adelaide Terrace East Perth WA 6004

P: 08 6218 8888 I M: s 9(2)(a)

Twitter: @FortescueNews I www.fmgf.com.au

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From: Malcolm Schenkel
Sent: Wednesday, 19 May 2021 11:09 am
To: Jodi Percy
Subject: FW: Scan Data from WLGPHF11FX1 [UNCLASSIFIED]
Attachments: 19052021110453-0001.pdf

Hi Jodi

A scan of my scant notes from the meeting with s 9(2)(a) of Fortescue In February.

Cheers

Malcolm

-----Original Message-----

From: WLGPHF11FX1 <scan.to.email@ciga.ict.govt.nz>
Sent: Wednesday, 19 May 2021 11:05 AM
To: Malcolm Schenkel <Malcolm.Schenkel@mbie.govt.nz>
Subject: Scan Data from WLGPHF11FX1

Sent by: [Malcolm.Schenkel@mbie.govt.nz] Number of Images: 1 Attachment File Type: PDF

Device Name: WLGPHF11FX1
Device Location:

25/2/21

Photo ID ?

FORTESCUE
FUTURES

s 9(2)(a)

NZ country mgr.

s 9(2)(b)(ii)

design & consenting for H₂ plant
in STMLD by 2025.
~600MW?

Jpn. 10Mt pa by 2030 for green H₂
(not blue or any
other colour)

[Bell Bay 250mw green ammonia.]

commercial arrangement necessary
for long term interruptible
load - pseudo battery.

From: Adrian Tweeddale
Sent: Wednesday, 19 May 2021 3:17 pm
To: Jodi Percy
Subject: Fortescue Meeting Notes 25/02/21 [UNCLASSIFIED]
Attachments: Fortescue AT P2.pdf; Fortescue AT P1.pdf

Adrian Tweeddale
Technical Project Manager (NZ Battery), Energy Projects & Programmes

Energy & Resource Markets, Building Resources and Markets Group
Hīkina Whakatutuki, Ministry of Business, Innovation & Employment

adrian.tweeddale@mbie.govt.nz | Waea pukoro: s 9(2)(a)
Level 11, Te Puāwai o te Aroha, 25 The Terrace, PO Box 1473, Wellington 6140

NZBN 942900010607



**MINISTRY OF BUSINESS,
INNOVATION & EMPLOYMENT**
HIKINA WHAKATUTUKI



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Fortescue Future Industries

25/02/21

Handwritten notes on the left margin.

s 9(2)(a)

- Tech - L, H, 2L - depend on context
- SIZC (Storage & gen)
- Commercial (interoperability)
- E
- transport mech? - liquid NH3

→ Part of Fortescue needs to talk to ^{\$60 B} market for ^{coal} rail to

Dr. Forest
"Boyer?" - lecture

Bell By NH3
25/02/21

Design, 1st phase currently manufacturing plant in south land

s 9(2)(b)(ii)

- Green vs Blue - market doesn't want blue
- Mining equipment (China)
- Mining ships (ore) → the

s 9(2)(b)(ii)

Project - 2028 - the market

Key to how well we can to export
50% capacity that can then expand

Parent got focused on storage, but as established
export plug

~~Green~~ Green en

s 9(2)(b)(ii)

Green Steel plant WA.

s 9(2)(a)

- Fortescue

25/03

Hydrogen → First purchase in 2025.

Start in Feb 2020

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Deep water Pms. ~~11~~
 → (Kang)
 * Transmitters - upgrader (ostee)
 * been aware - significant densit...
 * been steel → via plant (dorsal).

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From: Adrian Tweeddale
Sent: Wednesday, 19 May 2021 3:16 pm
To: Jodi Percv
Subject: FW: Recent Carbon Neutral and Green Energy Announcements

From: Andrew Millar <Andrew.Millar4@mbie.govt.nz>
Sent: Thursday, 18 March 2021 9:44 AM
To: Adrian Tweeddale <Adrian.Tweeddale@mbie.govt.nz>; Conrad Edwards <Conrad.Edwards@mbie.govt.nz>; Malcolm Schenkel <Malcolm.Schenkel@mbie.govt.nz>; Carl Walrond <Carl.Walrond@mbie.govt.nz>; Jodi Percy <Jodi.Percv@mbie.govt.nz>
Subject: FW: Recent Carbon Neutral and Green Energy Announcements [IN-CONFIDENCE]

FYI

From: s 9(2)(a) <[REDACTED]@fmgl.com.au>
Sent: Thursday, 18 March 2021 9:35 AM
To: Andrew Millar <Andrew.Millar4@mbie.govt.nz>; Suzannah Toulmin <Suzannah.Toulmin@mbie.govt.nz>
Subject: Recent Carbon Neutral and Green Energy Announcements

Kia ora Andrew and Suzannah

I'm pleased to pass on two significant announcements from Fortescue, and the Fortescue Future Industries team.

Our first exciting announcement is that FFI have recently signed an MOU with Port of Açu, Brazil for a project which, subject to the outcome of ongoing studies, envisages construction of a 300 megawatt capacity green hydrogen plant at the port, with potential to produce 250,000 metric tons of green ammonia per year.

Excitingly, the MOU also lays the groundwork for ongoing growth and development of green energy through onsite solar power development projects, as well as offshore wind development projects in the states across multiple Brazilian states. As we've discussed, we hope to have the opportunity to replicate this model of follow-on green energy developments here in New Zealand as well. Please find full details [here](#).

Our second significant announcement (refer to ASX release attached), is that Fortescue has set a target to achieve carbon neutrality by 2030, ten years earlier than the previous target. The team at Fortescue Future Industries (FFI) has accepted that challenge, and are a key enabler of this target through the development of green electricity, green hydrogen and green ammonia projects.

I'm likewise excited to be able to share that these green energy projects are not just limited to green hydrogen, wind, solar and hydro plants and their supporting technologies, but we have been developing, trialling and demonstrating green hydrogen technologies in global-scale commercial environments.

Further demonstrating our commitment, we are undertaking to deliver several of these key projects by the stretch target of 30 June 2021, that will underpin our pathway to decarbonisation (and we hope, that of many other companies and industries, including many here in New Zealand).

Some of the projects we can discuss include:

- Developing a ship design powered by green ammonia and trialling that design in new ammonia engine technology, at scale
- Testing large battery technology in our haul trucks
- Trialling hydrogen fuel cell power for our drill rigs
- Trialling technology on our locomotives to run on green ammonia
- Conducting trials to use renewable energy in the Pilbara to convert iron ore to green iron at low temperatures, without coal (Green Steel).

As our CEO, Elizabeth Gaines outlined, “Fortescue will establish that the major steel, truck, train, ship and mobile plant industries can be operated with renewable, environmentally friendly energy. This will be possible as a result of these ground-breaking Fortescue trials. Each will be tested by Fortescue using commercial-scale equipment to prove that the demand for direct green electricity, green hydrogen and green ammonia could one day be as large as the fossil fuel industry.”

I believe our Chairman, Dr Andrew Forrest, summarised our position succinctly by outlining “Our commitment to demonstrate green hydrogen’s economic value in world-scale operations, and become a major energy exporter, while implementing the considerable facilities to support both, means that Fortescue has emerged not simply as a thought-leader and investor, but uniquely as an executor of major green hydrogen projects.”

With Fortescue’s pedigree of investment and development of large scale projects, we remain excited at the potential to work with our developed local partners and investors, to enable and deliver large scale renewable energy and green hydrogen production capacity projects in New Zealand.

Ngā mihi - Kind regards,

s 9(2)(a)

M: s 9(2)(a)

Twitter: @FortescueNews | www.fmgl.com.au



Out of Scope

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Cheers,
Adrian

From: s 9(2)(a) <[redacted]@fmgl.com.au>
Sent: Wednesday, 28 April 2021 10:08 AM
To: Adrian Tweeddale <Adrian.Tweeddale@mbie.govt.nz>
Cc: Malcolm Schenkel <Malcolm.Schenkel@mbie.govt.nz>; Andrew Millar <Andrew.Millar4@mbie.govt.nz>
Subject: RE: Meeting follow-up [UNCLASSIFIED]
Importance: High

Kia ora Adrian

My apologies for the delay in getting back to you. We've been dealing with a number of impactful issues locally while at the same time rapidly developing our global projects.

Good news is I have our s 9(2)(a) [redacted] in Wellington on the afternoon of the 12th and morning of the 13th May. We'd be more than happy to sit with you and discuss the below ideas, and any other more technical questions or ideas. s 9(2)(a) [redacted]
s 9(2)(a) [redacted]

She is leading several of our new energy projects and can talk in detail about the current and future capabilities.

We are just waiting to confirm flight times etc, however I wanted to pencil these times / dates in with you guys so we can hopefully arrange a time to meet.

Ngā mihi - Kind regards,

s 9(2)(a) [redacted]

New Zealand Fortescue Future Industries Ltd

M: s 9(2)(a) [redacted]
E: s 9(2)(a) <[redacted]@fmgl.com.au>
Twitter: @FortescueNews | www.ffi.com.au | www.fmgl.com.au



From: Adrian Tweeddale <Adrian.Tweeddale@mbie.govt.nz>
Sent: Thursday, 18 March 2021 10:37 am
To: s 9(2)(a) <[redacted]@fmgl.com.au>
Cc: Malcolm Schenkel <Malcolm.Schenkel@mbie.govt.nz>; Andrew Millar <Andrew.Millar4@mbie.govt.nz>
Subject: RE: Meeting follow-up [UNCLASSIFIED]

Hi s 9(2)(a) [redacted]

Have you had any thoughts on this?

Thanks,
Adrian

From: Adrian Tweeddale
Sent: Monday, 8 March 2021 5:44 PM
To: s 9(2)(a) <[REDACTED]@fmgl.com.au>
Cc: Malcolm Schenkel <Malcolm.Schenkel@mbie.govt.nz>; Andrew Millar <Andrew.Millar4@mbie.govt.nz>
Subject: RE: Meeting follow-up [UNCLASSIFIED]

Hi s 9(2)(a)

Thanks for the interesting discussion the other day!

As discussed at the end of our meeting, we are interested in better understanding your thoughts on the potential commercial models that would support hydrogen development, either in the context of large long term storage (TWhs for years), or materially large and long term interruptible supply (in the order of a 6 months shutdown, with 2-3 months warning, providing >1TWh savings) . These are of course possible, but we are interested in some more details of how these might work, and how we would work through the clear issues associated with them.

Would some of your team be available to discuss these issues?

Thanks,
Adrian

From: Andrew Millar <Andrew.Millar4@mbie.govt.nz>
Sent: Sunday, 7 March 2021 1:42 PM
To: s 9(2)(a) <[REDACTED]@fmgl.com.au>
Cc: Adrian Tweeddale <Adrian.Tweeddale@mbie.govt.nz>; Malcolm Schenkel <Malcolm.Schenkel@mbie.govt.nz>
Subject: RE: Meeting follow-up [UNCLASSIFIED]

Kia ora s 9(2)(a)

Thank you for your email and your time to come in and talk to us about Fortescue.

Apologies for the delay in getting you those list of questions. Malcolm and Adrian will put their heads together on Monday will we will come back to you shortly.

Ngā mihi

Andrew

From: s 9(2)(a) <[REDACTED]@fmgl.com.au>
Sent: Friday, 5 March 2021 1:58 PM
To: Andrew Millar <Andrew.Millar4@mbie.govt.nz>
Subject: Meeting follow-up

Kia ora Andrew

Great to meet you and some of the team last week. Appreciate the chat and very much looking forward to informing your future thinking where best we can.

I've been eagerly waiting for the details for your team so I can arrange requested calls. Also, I think it was Adrian I was chatting to at the end and he was going to send me through a list of questions that I can prep our team with, to make sure I'm connecting the right people.

Looking forward to hearing from you in due course.

Ngā mihi - Kind regards,

s 9(2)(a)

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Out of Scope

From: David Darby <David.Darby@parliament.govt.nz>
Sent: Friday, 2 October 2020 12:32 PM
To: Shane Wilson <Shane.Wilson@mbie.govt.nz>
Subject: Fortescue

Hi Shane,

Hope all is well. I have just passed your details to s 9(2)(a) of Fortescue Metals Group, who are quite far advanced with plans for Tiwai for hydrogen. Suzannah Toulmin has met them, as has Minister Woods. They are keen to engage with the JTU for the post-NZAS future of Southland. Expect a call!

Cheers

Dave

David Darby

Private Secretary (Energy & Resources) | Office of Hon Dr Megan Woods | Minister of Energy and Resources
6.1 Executive Wing | Parliament Buildings | Wellington | New Zealand
T: 04 817 8881 | M: s 9(2)(a) | E: David.Darby@parliament.govt.nz

Out of Scope

From: Shane Wilson
Sent: Thursday, 5 November 2020 10:58 AM
To: s 9(2)(a) <[redacted]@fmgl.com.au>
Subject: RE: Introduction chat [UNCLASSIFIED]

Kia ora s 9(2)(a)

It was great to catch up and hear all about your organisation! I would be very keen to hear updates and how you progress. That would be greatly appreciated and always keen for a coffee ☺

Ngā mihi

Shane

From: s 9(2)(a) <[redacted]@fmgl.com.au>
Sent: Thursday, 5 November 2020 10:07 AM
To: Shane Wilson <Shane.Wilson@mbie.govt.nz>
Subject: RE: Introduction chat [UNCLASSIFIED]

Hi Shane

Many thanks for your time on Tuesday. It was great to chat and get you advice and guidance.

Please let me know if you'd benefit from updates along the way, and indeed, as we progress, we'd love to understand the support we can gain from the Just Transition Unit.

Ngā Mihi | Kind regards,

s 9(2)

s 9(2)(a)

s 9(2)(a)

Fortescue Future Industries Pty Ltd (FFI)

M: s 9(2)(a)
Twitter: @FortescueNews | www.fmgl.com.au



From: Shane Wilson <Shane.Wilson@mbie.govt.nz>
Sent: Monday, 2 November 2020 1:31 pm
To: s 9(2)(a) <fmgf.com.au>
Subject: RE: Introduction chat [UNCLASSIFIED]

Thanks s 9(2)(a)

I can do 2pm?

I'll send an invite

From: s 9(2)(a) <fmgf.com.au>
Sent: Monday, 2 November 2020 1:07 PM
To: Shane Wilson <Shane.Wilson@mbie.govt.nz>
Subject: RE: Introduction chat [UNCLASSIFIED]
Importance: High

Hi Shane

I've just been asked to meet the s 9(2)(b)(ii) then, but I'll actually be at Astoria for a meeting with s 9(2)(b)(ii) until about 12.30pm, then free until my next meeting at 3pm.

Does anytime between 12.30pm and 3pm work?

Thanks

s 9(2)(a)

s 9(2)(a)
s 9(2)(a)

Fortescue Future Industries Pty Ltd (FFI)

M: s 9(2)(a)
Twitter: @FortescueNews | www.fmgf.com.au



From: Shane Wilson <Shane.Wilson@mbie.govt.nz>
Sent: Monday, 2 November 2020 12:16 pm
To: s 9(2)(a) <fmgf.com.au>
Subject: RE: Introduction chat [UNCLASSIFIED]

Kia ora s 9(2)(a)

I can do 10am if you a free?

If we could meet somewhere by Stout street (such as Astoria) that would be even better!

Thanks

Shane

From: s 9(2)(a) <[redacted]@fmgl.com.au>
Sent: Monday, 2 November 2020 9:38 AM
To: Shane Wilson <Shane.Wilson@mbie.govt.nz>
Subject: RE: Introduction chat
Importance: High

Hi Shane

I'm in Wellington tomorrow at short notice. I have some time in the morning and hopefully you might have 30 mins spare to for us to meet, and for me to brief you on the rapidly developing plans for the Southland region.

Many thanks

s 9(2)(a)
[redacted]

s 9(2)(a)
[redacted]
s 9(2)(a)
[redacted]

Fortescue Future Industries Pty Ltd (FFI)

M: s 9(2)(a) [redacted]
Twitter: @FortescueNews | www.fmgl.com.au



From: s 9(2)(a) [redacted]
Sent: Friday, 16 October 2020 8:25 am
To: Shane.Wilson@mbie.govt.nz
Subject: Introduction chat

Hi Shane

I hope this email finds you well. I've been provided your details by David Darby, Private Secretary (Energy & Resources), as well as Suzannah Toulmin who have suggested we have an introduction chat around our continuing plans within Southland.

If you've got 10 minutes today, perhaps we can quickly connect via phone.

Many thanks

s 9(2)(a)
[redacted]

s 9(2)(a)
[redacted]
s 9(2)(a)
[redacted]

Fortescue Metals Group Ltd
Level 2, 87 Adelaide Terrace East Perth WA 6004

M: s 9(2)(a) [redacted]
Twitter: @FortescueNews | www.fmgl.com.au



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From: s 9(2)(a) fmgf.com.au>
Sent: Friday, 18 December 2020 9:25 AM
To: Suzannah Toulmin <Suzannah.Toulmin@mbie.govt.nz>; Shane Wilson <Shane.Wilson@mbie.govt.nz>
Subject: FW: Recent announcements

Kia ora Suzannah and Shane

It has been a big week for our green hydrogen aspirations at Fortescue.

Following on from recent planned announcements I mentioned during our recent meetings, we announced on Monday our collaboration (below) with Kawasaki Heavy Industries Ltd and Iwatani Corporation of Japan, to jointly develop liquid hydrogen projects and transportation solutions – critical to the decarbonisation of transportation fleets in Japan (and globally) and meeting their target of 10 million tonnes of hydrogen p/annum by 2030. We are very excited about the coming foundation of our Global LH2 Consortium, enabling collaboration for the establishment of large scale, liquid hydrogen production and supply capabilities.

Additional to this, we can now share the additional announcement by POSCO in Korea, to jointly develop the green hydrogen and green steel solutions they will need as they pursue their net zero emissions targets <http://www.ajudaily.com/view/20201215152123693> . Another 5 million tonnes by 2050.

We're certainly looking forward to 2021, and your continued support.

Ngā Mihi - Kind regards,

s 9(2)(a)

s 9(2)(a)

s 9(2)(a)

M: s 9(2)(a)

Twitter: @FortescueNews | www.fmgf.com.au



[View web version](#)

Global liquid hydrogen consortium established to develop supply chain between Australia and Japan

14 December 2020: Fortescue Metals Group (Fortescue) today announced that it has signed a Memorandum of Understanding (MOU) with Kawasaki Heavy Industries (Kawasaki) and Iwatani Corporation (Iwatani) to develop a business model for the supply of liquid hydrogen into Japan.

Under the MOU, the three parties will establish the Global LH2 Consortium to facilitate collaboration for the establishment of large scale, liquid hydrogen production and supply capabilities.

The Consortium will focus on joint activities associated with the development of renewable hydrogen projects in Australia and overseas, with a view to establishing liquid hydrogen supply chains and the distribution and offtake of liquid hydrogen within Japan.

Fortescue Chief Executive Officer Ms Elizabeth Gaines said, "The world's transition to a clean energy future represents a major growth opportunity and this partnership with Kawasaki and Iwatani will help position Fortescue at the forefront of the establishment of a global renewable hydrogen industry."

"Japan has been identified as one of the priority north Asian markets for hydrogen exports. By leveraging our value chain and market access as well as the skills and capability of our people to rapidly develop complex projects, we believe Fortescue is well placed to meet the future demand of green hydrogen," Ms Gaines said.

Kawasaki Executive Officer Dr Eiichi Harada said, "Kawasaki is a world leader in the production, storage, shipping and handling of liquid hydrogen. In order to contribute to securing a stable energy supply and the preservation of the global environment, Kawasaki is excited to enter into a relationship and business partnership with Fortescue and Iwatani for the establishment of the Global LH2 Consortium."

Iwatani Board Member Mr. Manabu Tsuyoshi said, "Iwatani is the number one hydrogen supplier and only liquefied hydrogen supplier in Japan. Since we started in the hydrogen business in 1941, we have built a nationwide hydrogen network from manufacturing to transportation, storage, supply and safety. In order to expand our hydrogen supply capabilities and to develop new business models, Iwatani is pleased to partner with Fortescue and Kawasaki to establish future global hydrogen supply chains."

Background

Fortescue has a portfolio of projects underway associated with renewable hydrogen production, including:

1. A partnership with the CSIRO for the development of new hydrogen technologies, including a world first membrane technology which provides the potential for large scale hydrogen extraction from ammonia

2. A \$32 million hydrogen mobility project at Christmas Creek comprising the construction of a renewable hydrogen refuelling facility and the deployment of a fleet of hydrogen fuel cell passenger coaches from mid-2021
3. A partnership with ATCO Australia to build and operate the first combined green hydrogen production and refuelling facility in Western Australia
4. A Memorandum of Understanding with Hyundai Motor Co and CSIRO to advance renewable hydrogen technology for domestic transport
5. A feasibility study into a 250MW green hydrogen plant in Tasmania, with a green ammonia production capacity of 250,000 tonnes per annum for domestic use and international exports

About Kawasaki Heavy Industries

Kawasaki Heavy Industries is a world leader in the production, storage, shipping and handling of liquid hydrogen. Since 2010, Kawasaki has backed the building on a hydrogen energy supply chain, using its history and expertise of the technology in the fields of extremely low temperatures, LNG ships, plant engineering and gas turbines. In 2019, Kawasaki launched the Suiso Frontier, the world's first liquified hydrogen carrier.

About Iwatani Corporation

A leading company in the production and distribution of hydrogen, Iwatani Corporation is Japan's only liquid hydrogen supplier with an annual production capacity of 120 million m3 across six plants and 10 compressed hydrogen plants across Japan, supplying 70 per cent of the country's hydrogen market.

Media contact:

s 9(2)(a) **Fivemark Partners**

E: mediarelations@fmgl.com.au

s 9(2)(a)

Fortescue Metals Group Ltd ABN 57 002 594 872
PO Box 6915, East Perth, Western Australia 6004

Level 2, 87 Adelaide Terrace, East Perth, Western Australia 6004
P +61 8 6218 8888 E fmgl@fmgl.com.au W www.fmgl.com.au

This email was sent to JSHUTTLEWORTH@FMGL.COM.AU from mediarelations@fmgl.com.au

Receive in Plain Text

Out of Scope

From: s 9(2)(a) @fmgl.com.au>
Sent: Friday, 5 March 2021 11:18 AM
To: Shane Wilson <Shane.Wilson@mbie.govt.nz>
Subject: RE: Trying to find the café [UNCLASSIFIED]

Hi Shane

Apologies for missing this email. Yes, would love to video chat. I've got availability before 2pm today if you've got 20 mins free?

Ngā mihi - Kind regards,

s 9(2)(a)

s 9(2)(a)
s 9(2)(a)

M: s 9(2)(a)
Twitter: @FortescueNews | www.fmgl.com.au



From: Shane Wilson <Shane.Wilson@mbie.govt.nz>
Sent: Friday, 26 February 2021 10:44 am
To: s 9(2)(a) @fmgl.com.au>
Subject: RE: Trying to find the café [UNCLASSIFIED]

Kia ora s 9(2)(a)

I'm sorry I missed you the other day and I hope your other meetings went a lot smoother than ours! And apologies again that I should have thought you may have been meeting MBIE staff at another building!!

Definitely keen to catch up again when you are free – alternatively we could do something via Teams/zoom if that suits you?

Ngā mihi

Shane
s 9(2)(a)

From: s 9(2)(a) <[redacted]@fmgl.com.au>
Sent: Thursday, 25 February 2021 11:43 AM
To: Shane Wilson <Shane.Wilson@mbie.govt.nz>
Subject: Re: Trying to find the café

Thanks Shane. Yes, I was in the other building!

I don't have your number, so please call and we can chat. I've got time again at 1215 back near Pastoral House if that works.

Regards

s 9(2)(a)

s 9(2)(a)

s 9(2)(a)

Level 2, 87 Adelaide Terrace East Perth WA 6004

P: s 9(2)(a)

Twitter: @FortescueNews I www.fmgl.com.au

From: Shane Wilson <Shane.Wilson@mbie.govt.nz>

Sent: Thursday, February 25, 2021 11:17:47 AM

To: s 9(2)(a) <[redacted]@fmgl.com.au>

Subject: Re: Trying to find the café

Thanks s 9(2)(a)

Its in the MBIE building at 15 stout street. I just thought now that you may have met in one of the other MBIE buildings.

Maybe we reschedule if that's easier?

nga mihi

Shane

From: s 9(2)(a) <[redacted]@fmgl.com.au>

Sent: Thursday, 25 February 2021 11:12 AM

To: Shane Wilson <Shane.Wilson@mbie.govt.nz>

Subject: Trying to find the café

s 9(2)(a)

s 9(2)(a)

Level 2, 87 Adelaide Terrace East Perth WA 6004

s 9(2)(a)

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s 9(2)(b)(ii), s 9(2)(ba)(i)

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Jon Little

From: Julie Shuttleworth <jshuttleworth@fmgl.com.au>
Sent: Wednesday, 15 July 2020 4:48 pm
To: Suzannah Toulmin
Cc: David Darby; Tom Weaver
Subject: Fortescue update

Hi Suzannah

It was great to speak to you again on the call with Minister Woods this morning. Thanks David for helping to organise the call.

When you have time it would be great to receive information/introductions on the Overseas Investment body that the Minister mentioned. I would also be happy to have a call with you and the team at a suitable time to discuss further, including potential next steps.

s 9(2)(ba)(i) 9(2)(b)(ii)

s 9(2)(ba)(i)

Some insights into our background information and proposed next steps for meetings are outlined below.

If you or the team have anything else to add, that would be appreciated. We are looking forward to any feedback you have.

Regards
Julie

Next Meetings & Background Research:

s 9(2)(ba)(i)

s 9(2)(ba)(i)

New Zealand Local Government

NZ has two levels of regional government: 11 regional councils and territorial authorities.

Manapouri and Tiwai Point fall under Southland Regional Council (now called Environment Southland), based in Invercargill. Responsible for sustainable management of Southland's natural resources – land, water, air, coast – in partnership with the community.

<https://www.es.govt.nz/>

Includes Invercargill, Gore, Lumsden, Winton, Mataura, Te Anau

- Chair: Nicol Horrell
- Chief Executive: Rob Phillips

Manapouri is within Fjordland Constituency

- Councillor: Allan Baird, allan.baird@es.govt.nz

Tiwai Point is within Invercargill-Rakiura Constituency

- Councillors: Neville Cook neville.cook@es.govt.nz, Lloyd Esler lloyd.esler@es.govt.nz, Robert Guyton robert.guyton@es.govt.nz, Lyndal Ludlow lyndal.ludlow@es.govt.nz, Bonnie Mager bonnie.mager@es.govt.nz, Eric Roy eric.roy@es.govt.nz

Territorial Authorities within Southland Region: Southland District, Invercargill, Gore District

Manapouri is within Southland District Council, based in Invercargill

<https://www.southlanddc.govt.nz/>

Southland District Council manages roads, water supplies, sewerage, cemeteries, community halls, community housing, libraries, parks

Southland District has a mayor and 12 councillors for 5 wards.

- Mayor: Gary Tong gary.tong@southlanddc.govt.nz
- Chief executive: Steve Ruru steve.ruru@southlanddc.govt.nz

Manapouri is within Mararoa Waimea ward, Te Anau area

- Councillors: John Douglas john.douglas@southlanddc.govt.nz, Ebel Kremer ebel.kremer@southlanddc.govt.nz, Rob Scott robin.scott@southlanddc.govt.nz

Bluff and Tiwai Point fall within Invercargill City Council

<https://icc.govt.nz/>

- Mayor: Sir Tim Shadbolt mayor@icc.govt.nz
- Chief Executive: Clare Hadley via michelle.sievwright@icc.govt.nz

Iwi Groups

Ngai Tahu is the principal Maori iwi for the southern region of New Zealand. Nagi Tahu

info@ngaitahu.iwi.nz, +64 3 366 4344

15 Show Place, Addington, Christchurch 8024

- Chair: Lisa Tumahai
- CEO: Arihia Bennett

Four governance areas in Southland:

- Waihopai Runaka (Invercargill)
- Te Runanga o Arawura (Bluff)
- Te Runanga o Oraka Aparima (Colac Bay)

- Hokonui Runanga (Gore)

Regards
Julie

Julie Shuttleworth
Deputy Chief Executive Officer

Fortescue Metals Group Ltd
Level 2, 87 Adelaide Terrace East Perth WA 6004

M: s 9(2)(a)

Twitter: @FortescueNews | www.fmgl.com.au



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Jon Little

From: Suzannah Toulmin
Sent: Tuesday, 6 October 2020 8:51 am
To: s 9(2)(a)
Subject: Re: A local introduction

Hi s 9(2)(a)

Apologies for the delay, I'd be happy to catch up with you for an intro and quick discussion.

How are you placed for 15-30 minutes in the following windows:

- today 2 - 3pm NZT (9am-10am Perth time),
- today 4pm NZT / 11am Perth
- Weds 3pm - 5pm NZT / 10am - 12 noon Perth

If none of those work we can find time later in the week.

Best regards,
Suzannah

Sent from my iPhone

On 1/10/2020, at 3:22 PM, s 9(2)(a) <[redacted]@fmgl.com.au> wrote:

Hi Suzannah

I hope this email finds you well in what is likely a very busy time for everyone in Wellington.

By way of introduction, I'm working with s 9(2)(a) [redacted] as the New Zealand based lead for our engagement and advancement of our Green Hydrogen plans.

I understand you met them both when they visited earlier in the year, and that you've had an update chat a couple of months ago.

It would be great if you've got 15 minutes sometime soon to get together on Teams for a virtual introduction chat.

Many thanks

s 9(2)(a)
[redacted]

Fortescue Metals Group Ltd
Level 2, 87 Adelaide Terrace East Perth WA 6004

M: s 9(2)(a)
Twitter: @FortescueNews | www.fmgl.com.au

<image001.png>

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Jon Little

From: s 9(2)(a) <[redacted]@fmgl.com.au>
Sent: Wednesday, 7 October 2020 5:42 pm
To: Suzannah Toulmin
Subject: Great to meet

Follow Up Flag: Follow up
Flag Status: Flagged

Hi Suzannah

Thanks for your time on the phone yesterday, and really looking forward to meeting next Tuesday. I'm in Britomart, so hopefully you're near that for the day. Please let me know what works best for you and we can sit down and do some deep diving on a number of topics (depending on how much time you have naturally!).

I would appreciate the introduction to the Ministry of Environment contacts you mentioned, as I'd love to establish a working relationship with them and keep communications active as we progress.

Let me know about Tuesday.

Regards

s 9(2)(a)

Fortescue Metals Group Ltd
Level 2, 87 Adelaide Terrace East Perth WA 6004

M: s 9(2)(a)
Twitter: @FortescueNews | www.fmgl.com.au



Jon Little

From: Vidushi Challapali
Sent: Tuesday, 3 November 2020 2:21 pm
To: s 9(2)(a) Suzannah Toulmin
Subject: RE: Meeting follow-up [UNCLASSIFIED]

Hi Kevin,

The contact for Department of Conservation is s 9(2)(a) located in Dunedin.
s 9(2)(a) @doc.govt.nz.

Please feel free to contact Suzannah or myself for any further information.

Thank you. Have a great week.

Kind Regards,
Vidushi

Vidushi Challapali
POLICY ADVISOR

Energy Markets Policy
Energy & Resource Markets Branch
Ministry of Business, Innovation & Employment

Vidushi.challapali2@mbie.govt.nz

Telephone: +6448975316

15 Stout St, PO Box 1473, Wellington 6011

www.mbie.govt.nz



Please note that I only work on Monday, Tuesday and Wednesday (on Wednesday, I work till 12pm). I do not work Thursday and Friday.

From: Suzannah Toulmin
Sent: Monday, 2 November 2020 10:47 a.m.
To: s 9(2)(a) Vidushi Challapali
Subject: RE: Meeting follow-up [UNCLASSIFIED]

Hi s 9(2)(a)

I've just heard from Dave that you are planning to be in Wellington tomorrow afternoon – I have some time available after 3pm if you would like to catch up?

Re: Ara Ake – The CEO is Cristiano Marantes, his email address is Cristiano.Marantes@araake.co.nz – if we're catching up tomorrow we can discuss further then about your preferences for introduction etc.

Best regards,
Suzannah

Suzannah Toulmin

TEAM LEADER – ENERGY TRANSITION

Energy & Resource Markets Branch
Hikina Whakatutuki

Īmera: suzannah.toulmin@mbie.govt.nz | Waea: +64 (4) 901 3879 | Waea pūkoro: +s 9(2)(a)
25 The Terrace –Te Puāwai o te Aroha (Pastoral House), Wellington, 6011
PO Box 1473, Wellington, 6140
www.mbie.govt.nz

From: s 9(2)(a) [fmg.com.au](mailto:s 9(2)(a)@fmg.com.au)
Sent: Monday, 2 November 2020 9:31 AM
To: Vidushi Challapali <Vidushi.Challapali2@mbie.govt.nz>; Suzannah Toulmin <Suzannah.Toulmin@mbie.govt.nz>
Subject: RE: Meeting follow-up [UNCLASSIFIED]

Thanks Vidushi.

Appreciate the contact.

Regards

s 9(2)(a)

Fortescue Future Industries Pty Ltd (FFI)

M: +64 (0) 297700851
Twitter: @FortescueNews | www.fmg.com.au



From: Vidushi Challapali <Vidushi.Challapali2@mbie.govt.nz>
Sent: Monday, 2 November 2020 9:28 am
To: s 9(2)(a) [fmg.com.au](mailto:s 9(2)(a)@fmg.com.au); Suzannah Toulmin <Suzannah.Toulmin@mbie.govt.nz>
Subject: RE: Meeting follow-up [UNCLASSIFIED]

Hi Kevin,

Our apologies for the delayed response.

The contact for Ministry for the Environment (MFE) is s 9(2)(a) [@mfe.govt.nz](mailto:s 9(2)(a)@mfe.govt.nz) s 9(2)(s) the manager in charge of the fast track consenting process implementation team at MFE.

I am waiting on some information on the contact person for the Department of Conservation. I will email you with the information as soon as I receive it.

Thank you,

Kind Regards,

Vidushi

Vidushi Challapali
POLICY ADVISOR

Energy Markets Policy
Energy & Resource Markets Branch
Ministry of Business, Innovation & Employment

Vidushi.challapali2@mbie.govt.nz

Telephone: +6448975316

15 Stout St, PO Box 1473, Wellington 6011

www.mbie.govt.nz



Please note that I only work on Monday, Tuesday and Wednesday (on Wednesday, I work till 12pm). I do not work Thursday and Friday.

From: s 9(2)(a) [redacted] fmgl.com.au]

Sent: Tuesday, 27 October 2020 9:01 a.m.

To: Suzannah Toulmin

Cc: Vidushi Challapali

Subject: RE: Meeting follow-up

Importance: High

Hi Suzannah

I hope this email finds you well.

I was wondering if you were able to support the below requests as discussed in our meeting.

Regards

s 9(2)(a)

Fortescue Future Industries (FFI)

M: +64 s 9(2)(a)

Twitter: @FortescueNews | www.fmgl.com.au



From: s 9(2)(a)
Sent: Friday, 16 October 2020 8:34 am
To: Suzannah Toulmin <Suzannah.Toulmin@mbie.govt.nz>
Cc: Vidushi Challapali <Vidushi.Challapali2@mbie.govt.nz>
Subject: Meeting follow-up

Hi Suzannah

Thanks to yourself and Vidushi for taking the time on Tuesday to meet and further discuss our plans, and where your team can assist. As always, we appreciate the guidance as we progress.

It would be fantastic if you were able to provide those introductions to the Dept of Conservations and the Ministry of Environment. I would also value your thoughts on discussions and introductions to Ara Ake (congrats on the role there!).

I'll definitely keep you in the loop as things progress, and naturally, if we are facing any regulatory (or other) roadblocks, it would be great to discuss with you both as we progress.

Regards

s 9(2)(a)

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From: s 9(2)(a) <[redacted]@fmgl.com.au>
Sent: Friday, 27 November 2020 1:59 pm
To: Suzannah Toulmin
Subject: Ara Ake and others

Hi Suzannah

I hope all's going really well. I was just wondering how you went with that introduction for me to Ara Ake? Would be great to meet them soon.

Also, as per my text message, I'm in town next Wednesday and Thursday and would love to meet with you, and any other people you think it's time to bring into the conversation.

Give me a call when free if you can, but I'll try you later as well.

Ngā Mihi - Kind regards,

s 9(2)(a)
[redacted]

M: s 9(2)(a)

Twitter: @FortescueNews | www.fmgl.com.au



From: s 9(2)(a) <[redacted]@fmgl.com.au>
Sent: Wednesday, 2 December 2020 5:15 pm
To: Cristiano Marantes; Suzannah Toulmin; Caroline Gunn
Subject: RE: Introduction to FFI [IN-CONFIDENCE:RELEASE EXTERNAL]

Thanks Suzannah and Cristiano

Looking forward to a discussion. Thanks for coordinating Caroline

Ngā Mihi - Kind regards,

s 9(2)(a)
[redacted]

M s 9(2)(a)
Twitter: @FortescueNews | www.fmgl.com.au



From: Cristiano Marantes <Cristiano.Marantes@araake.co.nz>
Sent: Wednesday, 2 December 2020 2:23 pm
To: Suzannah Toulmin <Suzannah.Toulmin@mbie.govt.nz>; s 9(2)(a) <[redacted]@fmgl.com.au>; Caroline Gunn <Caroline.Gunn@araake.co.nz>
Subject: Re: Introduction to FFI [IN-CONFIDENCE:RELEASE EXTERNAL]

Many thanks, Suzannah.

Kia ora Kevin,

It would be great to meet up. @Caroline Gunn will liaise with you to arrange a suitable time for us to connect.

Ngā mihi,

Cristiano

Cristiano Marantes
Chief Executive | Ara Ake
s 9(2)(a) | cristiano.marantes@araake.co.nz | www.araake.co.nz



From: Suzannah Toulmin <Suzannah.Toulmin@mbie.govt.nz>
Date: Wednesday, 2 December 2020 at 11:26 AM
To: Cristiano Marantes <Cristiano.Marantes@araake.co.nz>, s 9(2)(a) <[REDACTED]> <[\[REDACTED\]@fmgl.com.au](mailto:[REDACTED]@fmgl.com.au)>
Subject: Introduction to FFI [IN-CONFIDENCE:RELEASE EXTERNAL]

Hi Cristiano,

I wanted to take the opportunity to introduce you to s 9(2)(a) <[REDACTED]>, from Fortescue Future Industries, which is [moving aggressively into the clean energy space](#) .

I think there would be a lot of value in you having an in-confidence discussion with s 9(2)(a) <[REDACTED]> To see where your interests align, and what the opportunities are for Ara Ake to work alongside FFI on their plans for New Zealand.

s 9(2)(a) <[REDACTED]> is ordinarily based in Auckland.

Best regards,

Suzannah

Suzannah Toulmin

TEAM LEADER – ENERGY TRANSITION

Energy & Resource Markets Branch

Hikina Whakatutuki

Īmera: suzannah.toulmin@mbie.govt.nz | Waea: +64 (4) 901 3879 | Waea pūkoro: s 9(2)(a) <[REDACTED]>

25 The Terrace –Te Puāwai o te Aroha (Pastoral House), Wellington, 6011

PO Box 1473, Wellington, 6140

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From: s 9(2)(a) <[redacted]@fmgl.com.au>
Sent: Friday, 18 December 2020 9:25 am
To: Suzannah Toulmin; Shane Wilson
Subject: FW: Recent announcements

Kia ora Suzannah and Shane

It has been a big week for our green hydrogen aspirations at Fortescue.

Following on from recent planned announcements I mentioned during our recent meetings, we announced on Monday our collaboration (below) with Kawasaki Heavy Industries Ltd and Iwatani Corporation of Japan, to jointly develop liquid hydrogen projects and transportation solutions – critical to the decarbonisation of transportation fleets in Japan (and globally) and meeting their target of 10 million tonnes of hydrogen p/annum by 2030. We are very excited about the coming foundation of our Global LH2 Consortium, enabling collaboration for the establishment of large scale, liquid hydrogen production and supply capabilities.

Additional to this, we can now share the additional announcement by POSCO in Korea, to jointly develop the green hydrogen and green steel solutions they will need as they pursue their net zero emissions targets <http://www.ajudaily.com/view/20201215152123693> . Another 5 million tonnes by 2050.

We're certainly looking forward to 2021, and your continued support.

Ngā Mihi - Kind regards,

s 9(2)(a)
[redacted]

s 9(2)(a)
Twitter: @FortescueNews | www.fmgl.com.au



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Global liquid hydrogen consortium established to develop supply chain between Australia and Japan

14 December 2020: Fortescue Metals Group (Fortescue) today announced that it has signed a Memorandum of Understanding (MOU) with Kawasaki Heavy Industries (Kawasaki) and Iwatani Corporation (Iwatani) to develop a business model for the supply of liquid hydrogen into Japan.

Under the MOU, the three parties will establish the Global LH2 Consortium to facilitate collaboration for the establishment of large scale, liquid hydrogen production and supply capabilities.

The Consortium will focus on joint activities associated with the development of renewable hydrogen projects in Australia and overseas, with a view to establishing liquid hydrogen supply chains and the distribution and offtake of liquid hydrogen within Japan.

Fortescue Chief Executive Officer Ms Elizabeth Gaines said, "The world's transition to a clean energy future represents a major growth opportunity and this partnership with Kawasaki and Iwatani will help position Fortescue at the forefront of the establishment of a global renewable hydrogen industry.

"Japan has been identified as one of the priority north Asian markets for hydrogen exports. By leveraging our value chain and market access as well as the skills and capability of our people to rapidly develop complex projects, we believe Fortescue is well placed to meet the future demand of green hydrogen," Ms Gaines said.

Kawasaki Executive Officer Dr Eiichi Harada said, "Kawasaki is a world leader in the production, storage, shipping and handling of liquid hydrogen. In order to contribute to securing a stable energy supply and the preservation of the global environment, Kawasaki is excited to enter into a relationship and business partnership with Fortescue and Iwatani for the establishment of the Global LH2 Consortium."

Iwatani Board Member Mr Manabu Tsuyoshi said, "Iwatani is the number one hydrogen supplier and only liquefied hydrogen supplier in Japan. Since we started in the hydrogen business in 1941, we have built a nationwide hydrogen network from manufacturing to transportation, storage, supply and safety. In order to expand our hydrogen supply capabilities and to develop new business models, Iwatani is pleased to partner with Fortescue and Kawasaki to establish future global hydrogen supply chains."

Background

Fortescue has a portfolio of projects underway associated with renewable hydrogen production, including:

1. A partnership with the CSIRO for the development of new hydrogen technologies, including a world first membrane technology which provides the potential for large scale hydrogen extraction from ammonia
2. A \$32 million hydrogen mobility project at Christmas Creek comprising the construction of a renewable hydrogen refuelling facility and the deployment of a fleet of hydrogen fuel cell passenger coaches from mid-2021
3. A partnership with ATCO Australia to build and operate the first combined green hydrogen production and refuelling facility in Western Australia
4. A Memorandum of Understanding with Hyundai Motor Co and CSIRO to advance renewable hydrogen technology for domestic transport

5. A feasibility study into a 250MW green hydrogen plant in Tasmania, with a green ammonia production capacity of 250,000 tonnes per annum for domestic use and international exports

About Kawasaki Heavy Industries

Kawasaki Heavy Industries is a world leader in the production, storage, shipping and handling of liquid hydrogen. Since 2010, Kawasaki has backed the building on a hydrogen energy supply chain, using its history and expertise of the technology in the fields of extremely low temperatures, LNG ships, plant engineering and gas turbines. In 2019, Kawasaki launched the Suiso Frontier, the world's first liquified hydrogen carrier.

About Iwatani Corporation

A leading company in the production and distribution of hydrogen, Iwatani Corporation is Japan's only liquid hydrogen supplier with an annual production capacity of 120 million m3 across six plants and 10 compressed hydrogen plants across Japan, supplying 70 per cent of the country's hydrogen market.

Media contact:

s 9(2)(a), Fivemark Partners

E: mediarelations@fmgl.com.au

s 9(2)(a)

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This email was sent to JSHUTTLEWORTH@FMGL.COM.AU from mediarelations@fmgl.com.au

[Receive in Plain Text](#)

From: s 9(2)(a) @fmgl.com.au >
Sent: Thursday, 18 March 2021 9:52 am
To: Andrew Millar; Suzannah Toulmin
Subject: RE: Commercial-in-Confidence: Recent Carbon Neutral and Green Energy Announcements
Attachments: FMG-FFI 2030 Carbon Neutral Release.pdf

Kia ora - please find the missing attachment from the previous email.

Ngā mihi - Kind regards,

s 9(2)(a)

s 9(2)(a)

Twitter: @FortescueNews | www.fmgl.com.au



From: s 9(2)(a)
Sent: Thursday, 18 March 2021 9:35 am
To: andrew.millar4@mbie.govt.nz; Suzannah Toulmin <Suzannah.Toulmin@mbie.govt.nz>
Subject: Commercial-in-Confidence: Recent Carbon Neutral and Green Energy Announcements

Kia ora Andrew and Suzannah

I'm pleased to pass on two significant announcements from Fortescue, and the Fortescue Future Industries team.

Our first exciting announcement is that FFI have recently signed an MOU with Port of Açu, Brazil for a project which, subject to the outcome of ongoing studies, envisages construction of a 300 megawatt capacity green hydrogen plant at the port, with potential to produce 250,000 metric tons of green ammonia per year.

Excitingly, the MOU also lays the groundwork for ongoing growth and development of green energy through onsite solar power development projects, s 9(2)(b)(ii)

s 9(2)(b)(ii) As we've discussed, we hope to have the opportunity to replicate this model of follow-on green energy developments here in New Zealand as well. Please find full details [here](#).

Our second significant announcement (refer to ASX release attached), is that Fortescue has set a target to achieve carbon neutrality by 2030, ten years earlier than the previous target. The team at Fortescue Future Industries (FFI) has accepted that challenge, and are a key enabler of this target through the development of green electricity, green hydrogen and green ammonia projects.

I'm likewise excited to be able to share that these green energy projects are not just limited to green hydrogen, wind, solar and hydro plants and their supporting technologies, but we have been developing, trialling and demonstrating green hydrogen technologies in global-scale commercial environments.

Further demonstrating our commitment, we are undertaking to deliver several of these key projects by the stretch target of 30 June 2021, that will underpin our pathway to decarbonisation (and we hope, that of many other companies and industries, including many here in New Zealand).

Some of the projects we can discuss include:

- Developing a ship design powered by green ammonia and trialling that design in new ammonia engine technology, at scale
- Testing large battery technology in our haul trucks
- Trialling hydrogen fuel cell power for our drill rigs
- Trialling technology on our locomotives to run on green ammonia
- Conducting trials to use renewable energy in the Pilbara to convert iron ore to green iron at low temperatures, without coal (Green Steel).

As our CEO, Elizabeth Gaines outlined, "Fortescue will establish that the major steel, truck, train, ship and mobile plant industries can be operated with renewable, environmentally friendly energy. This will be possible as a result of these ground-breaking Fortescue trials. Each will be tested by Fortescue using commercial-scale equipment to prove that the demand for direct green electricity, green hydrogen and green ammonia could one day be as large as the fossil fuel industry."

I believe our Chairman, Dr Andrew Forrest, summarised our position succinctly by outlining "Our commitment to demonstrate green hydrogen's economic value in world-scale operations, and become a major energy exporter, while implementing the considerable facilities to support both, means that Fortescue has emerged not simply as a thought-leader and investor, but uniquely as an executor of major green hydrogen projects."

With Fortescue's pedigree of investment and development of large scale projects, we remain excited at the potential to work with our developed local partners and investors, to enable and deliver large scale renewable energy and green hydrogen production capacity projects in New Zealand.

Ngā mihi - Kind regards,

s 9(2)(a)

M:s 9(2)(a)

Twitter: @FortescueNews | www.fmgl.com.au



15 March 2021

The Companies Officer
Australian Securities Exchange Ltd
Level 40, Central Park
152-158 St Georges Terrace
Perth WA 6000

Dear Madam or Sir,

FORTESCUE STRENGTHENS ITS TARGET FOR CARBON NEUTRALITY BY 2030

For and on behalf of the Board, Dr Andrew Forrest, Chairman of Fortescue Metals Group Ltd (Fortescue, ASX: FMG) has today announced Fortescue's target to achieve carbon neutrality by 2030, ten years earlier than the previous target.

Fortescue Future Industries (FFI), a wholly owned subsidiary of Fortescue, will be a key enabler of this target through the development of green electricity, green hydrogen and green ammonia projects in Australia.

Dr Forrest said, "We have joined the global battle to defeat climate change. We are trialling and demonstrating green hydrogen technologies in global-scale commercial environments, while also rapidly evolving into a green hydrogen and electricity producer of similar scale."

"Our commitment to demonstrate green hydrogen's economic value in world-scale operations, and become a major energy exporter, while implementing the considerable facilities to support both, means that Fortescue has emerged not simply as a thought-leader and investor, but uniquely as an executor of major green hydrogen projects."

"Our aim is to provide the two "missing links" in the climate change battle, to create both the demand and the supply of green hydrogen. Due to its high energy performance and environmental neutrality, green hydrogen and direct green electricity has the potential to eliminate fossil fuels from supply chains. Once established, these advances will also substantially reduce Fortescue's operating costs."

"Fortescue's strong focus on green energy and our carbon neutrality targets will sit alongside our continuing excellence in, and commitment to, our iron ore business. While our green energy and industry initiatives may one day significantly outscale our iron ore business due to the global demand for renewable energy, our commitment to iron ore and resources globally remains infeasible," said Dr Forrest.

Fortescue Chief Executive Officer, Elizabeth Gaines, said, “Fortescue has a proud history of setting ambitious stretch targets and we are pleased to announce this new industry-leading target, with detailed planning underway and projects identified to support our operational emissions reduction goals, building on the industry leading initiatives that have previously been announced. We are working towards decarbonising our entire mobile fleet and fixed plant through the next phase of hydrogen and battery electric energy solutions.”

Fortescue is seeking to move from being a major consumer of fossil fuel with a current trajectory of more than 1 billion litres a year of diesel being used across the operations if no remedial action is taken – to a major clean and renewable energy exporter.

FFI is advancing projects across Australia including Tasmania, to build large-scale renewable energy and green hydrogen production capacity. This will expedite the substitution of green hydrogen and green ammonia for carbon-based fuels. These projects will, with the support of Australia’s governments, contribute to a significant reduction in national carbon emissions.

Through FFI and its highly committed Operations team, Fortescue is undertaking to deliver several key projects by the stretch target of 30 June 2021. This will underpin its pathway to decarbonisation. These projects include:

- Developing a ship design powered by green ammonia and trialling that design in new ammonia engine technology, at scale
- Testing large battery technology in our haul trucks
- Trialling hydrogen fuel cell power for our drill rigs
- Trialling technology on our locomotives to run on green ammonia
- Conducting trials to use renewable energy in the Pilbara to convert iron ore to green iron at low temperatures, without coal.

Ms Gaines “Each of these projects will contribute to the world’s inexorable march to carbon neutrality. Fortescue will establish that the major steel, truck, train, ship and mobile plant industries can be operated with renewable, environmentally friendly energy. This will be possible as a result of these ground-breaking Fortescue trials. Each will be tested by Fortescue using commercial-scale equipment to prove that the demand for direct green electricity, green hydrogen and green ammonia could one day be as large as the fossil fuel industry.”

“These projects are in addition to Fortescue’s significant investment with our partners into energy infrastructure, including the Chichester Solar Gas Hybrid Project and Pilbara Energy Connect program,” Ms Gaines said.

Independent verification will be employed to monitor the Company’s march to carbon neutrality. Fortescue will also incorporate these carbon emissions targets into its formal remuneration structure, including short and long-term incentives across the Company.

Background

In June 2020, Fortescue announced an industry-leading target to achieve net zero operational emissions by 2040. This included a 26 percent reduction in Scope 1 and 2 emissions from existing operations by 2030 relative to 2020 levels.

Fortescue has now set a new target to achieve carbon neutrality by 2030, ten years earlier than its previous aim.

Emissions data and performance against targets will be reported annually as part of Fortescue's annual reporting suite. Baseline and annual emissions data will be calculated on a financial year basis.

Fortescue supports the United Nations Framework Convention on Climate Change, which mandates that individual nations take responsibility for emissions within their own borders. The Company will continue to actively engage with its customers and suppliers to encourage and facilitate the reduction of emissions in its value chain.

FFI is a wholly owned subsidiary of Fortescue that is harnessing the world's undeveloped renewable energy resources to develop green hydrogen and other green industrial products.

Yours sincerely
Fortescue Metals Group Ltd

Authorised by

s 9(2)(a)

Company Secretary

Media contact:

s 9(2)(a)

Investor Relations contact:

s 9(2)(a)

Jon Little

From: s 9(2)(a) @fmgl.com.au >
Sent: Wednesday, 28 April 2021 9:45 pm
To: Suzannah Toulmin
Subject: FFI Global CEO Visit

Kia ora Suzannah

I trust this email finds you both well amidst what has no doubt been a busy year so far!

s 9(2)(b)(ii)

Julie would greatly value the opportunity to meet Minister Wood's to provide an update if appropriate, and to this end I have emailed David Darby and Ben Cunliffe to offer this if the Minister has time (fully appreciate it's pre-budget week!). Our Director of Energy and our Hydrogen Technology Leader are looking to meet with Andrew Millar's team to assist with some further information in support of the battery project, so hopefully I can deconflict meetings to get them there. We can hopefully say hi to you as well while there if you're available. Please let me know if there's anything in particular you'd appreciate an update on.

As a side note, Julie recently contributed to the ABC's Landline story into Green Hydrogen (video can be found [here](#)). It also provides a fantastic summary of what we're delivering across multiple global regions.

Feel free to call.

Ngā mihi - Kind regards,

s 9(2)(a)

s 9(2)(a)

New Zealand Fortescue Future Industries Ltd

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FMG

Tuesday, 13 October 2020
9:51 AM

FMG - Andrew Forrest - what is he doing around the world

s 9(2)(b)(ii)

Intro to MfE - Nationally signification RMA projects

s 9(2)(b)(ii)

- Toxicity of waste

s 9(2)(b)(ii)

s 9(2)(b)(ii)

Environment Southland

- **Contacts**

2/12/2020 10:25 AM

- Trying to quietly do what we can

s 9(2)(b)(ii)

- Timeline around when we're likely to be there

s 9(2)(b)(ii)

- Shane – has said Just Transitions can't help

Going down to region

s 9(2)(b)(ii)

How government can help:

1. Knowing that we are informing the right people (govt - everyone else is well informed)
- Not much direct comms
 - More people need to know whats going on
 - Project - tactical
 - Strategic - global strategy

s 9(2)(b)(ii)

Released under the Official Information Act 1982



Green Energy

February 2020

Global force
Thriving communities

STRICTLY PRIVATE & CONFIDENTIAL

Forward looking statement

Disclaimer

Important Notice

The purpose of this presentation is to provide general information about Fortescue Metals Group Limited ("Fortescue"). It is not recommended that any person makes any investment decision in relation to Fortescue based on this presentation. This presentation contains certain statements which may constitute "forward-looking statements". Such statements are only predictions and are subject to inherent risks and uncertainties which could cause actual values, results, performance or achievements to differ materially from those expressed, implied or projected in any forward-looking statements.

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Fortescue accepts no responsibility to update any person regarding any inaccuracy, omission or change in information in this presentation or any other information made available to a person nor any obligation to furnish the person with any further information.

Additional Information

This presentation should be read in conjunction with the Annual Report at 30 June 2018 together with any announcements made by Fortescue in accordance with its continuous disclosure obligations arising under the *Corporations Act 2001*.

Any references to reserve and resources estimations should be read in conjunction with Fortescue's Ore Reserves and Mineral Resources statement for its Hematite and Magnetite projects at 30 June 2018 as released to the Australian Securities Exchange on 17 August 2018, together with the Iron Bridge Magnetite Mineral Reserves and Resources Report as released to the Australian Securities Exchange on 2 April 2019. Fortescue confirms in the subsequent public report that it is not aware of any new information or data that materially affects the information included in the relevant market announcement and, in the case of estimates of mineral resources or ore reserves, that all material assumptions and technical parameters underpinning the estimates in the relevant market announcement continue to apply and have not materially changed.

All amounts within this presentation are stated in United States Dollars consistent with the functional currency of Fortescue Metals Group Limited, unless otherwise stated. Tables contained within this presentation may contain immaterial rounding differences.

Fortescue

Our history of rapid growth



THE DREAM BEGINS



S&P/ASX 200 index



Hunan Valin becomes major shareholder



Solomon construction begins



Firetail opened at Solomon



Anderson Point Berth 5 completion
Fortescue River Gas Pipeline completion



Expansion of autonomous haulage to Chichester Hub



Fortescue celebrates tug fleet and official opening of the Judith Street Harbour in Port Hedland
Iron Bridge Magnetite Project development approved
First shipment of West Pilbara Fines
Landmark agreement with Alinta Energy for Chichester Solar Gas Hybrid Project

2003	2005	2007	2009	2011	2013	2015	2017	2019
------	------	------	------	------	------	------	------	------

2004

Cloudbreak identified

2006

Port Hedland groundbreaking

2008

First ore on ship

2010

Christmas Creek expanded

2012

Autonomous haulage begins at Solomon

2014

Kings Valley project opened at Solomon

2016

Recognised as lowest cost iron ore supplier into China
Fortescue celebrates arrival of first ore carrier, FMG Nicola into Port Hedland

2018

Eliwana Mine and Rail Project development approved
Partnership with CSIRO to develop and commercialise hydrogen technology

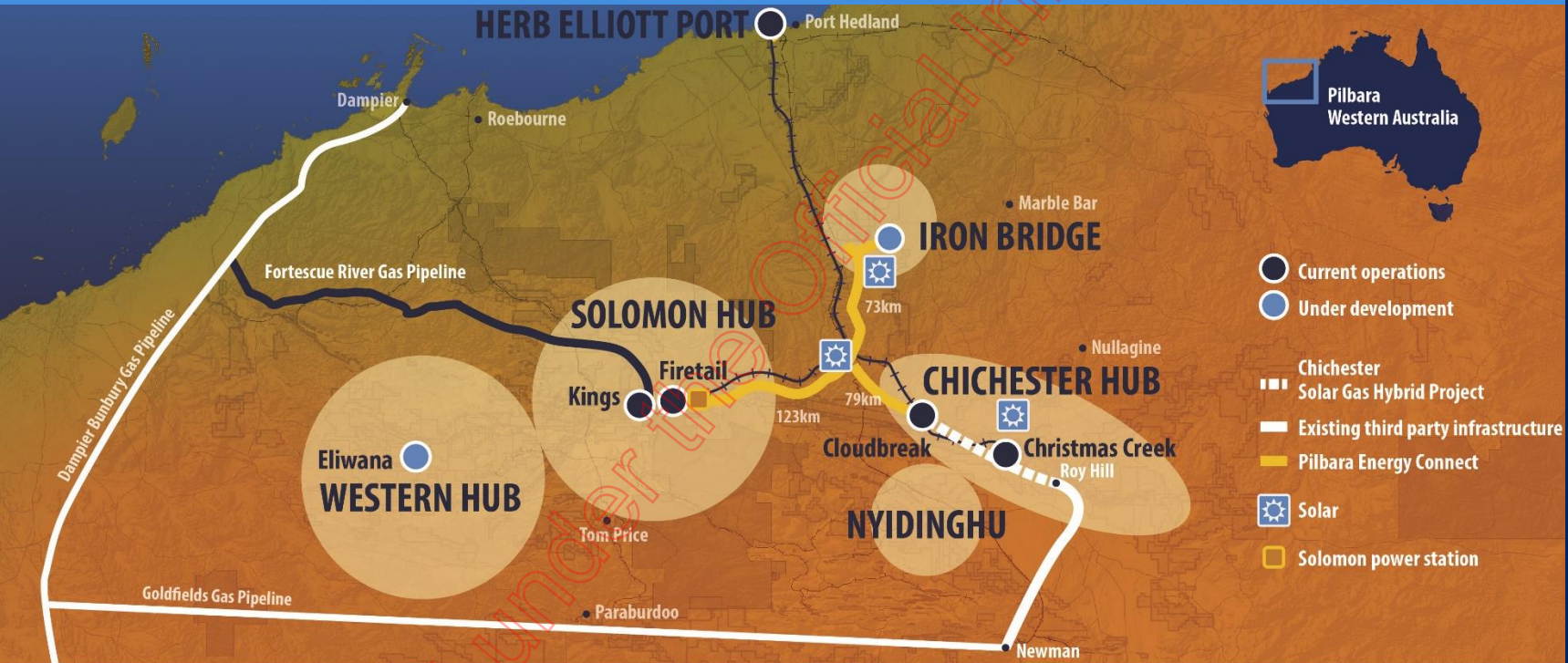
2020

US\$700m investment in Pilbara Energy Connect to provide hybrid solar gas energy solution for Pilbara operations

THE JOURNEY CONTINUES

Driving growth through investment in new projects

Unparalleled track record and capability in safely developing and operating major projects in the Pilbara



An innovative and collaborative company

Experience operating an integrated supply chain

Track record of innovation and pioneering technology

Rapidly identify, develop and use new technologies

Longstanding relationships with customers in Asia

Strong and flexible balance sheet

Experience in joint ventures and partnerships

Our ambition for green energy

Monitor, use and finance technologies that may disrupt the value chain by simplifying processes and costs

Global supply chains
Integrated supply chains supporting export of green commodities

Our operations
Reducing carbon emissions and reliance on diesel fuel

Domestic industry
Supporting the uptake of green energy in domestic industry and mobility



Fortescue and New Zealand

New Zealand has the resources to be a leader in green industry

- Fortescue's ambition is to be a major producer of green energy
- The Manapouri hydro plant is of particular interest given its size and possible availability
- Fortescue can mobilise quickly to develop any opportunity
- Fortescue wishes to engage with the NZ Government, regulators and industry to further our ambitions



Fortescue

Fortescue team



Julie Shuttleworth
Deputy Chief Executive Officer

Julie commenced as Deputy Chief Executive Officer in January 2018, following four years as the General Manager at Cloudbreak and later Solomon operations at Fortescue. She has over 25 years' experience in the mining industry in Australia, China and Tanzania, including 19 years in gold/copper working for Newcrest Mining, Sino Mining and Barrick Gold.

Julie holds a double major in Extractive Metallurgy and Chemistry from Murdoch University. She is a Fellow and Chartered Professional of the Australian Institute of Mining and Metallurgy, a Graduate Member of the Australian Institute of Company Directors and is on the International Committee of the Society of Mining Metallurgy & Exploration.

She has attended INSEAD and Harvard Business School, holds several diplomas in financial markets and management and sponsors the Julie Shuttleworth Prize in Mineral Processing at Murdoch University.



Tom Weaver
Group Manager, Community and Government

Tom has a background in arts and in leading business diversification including in major media and tourism organisations. In 2003 he joined the National Native Title Tribunal departing in 2011 as WA State Manager to join Fortescue Metals Group, as Native Title Manager. Now, as Group Manager, Community and Government, Tom leads a multi-disciplinary team and broad external affairs and Government approvals portfolio including Native Title, Aboriginal heritage, State Agreement Acts, Port authority approvals, Community Development, Aboriginal Business Development and Government Relations. Tom is a sessional lecturer in native title at Murdoch University and has lectured at the University of Tennessee. Tom has tertiary qualifications in law, arts and alternative dispute resolution.



Dr Michael Dolan
Hydrogen Innovation and Development Lead

Michael joined Fortescue in January 2019 as the Hydrogen Innovation and Development Lead.

He joined Fortescue after a distinguished career in research and development with Australia's national science agency, the Commonwealth Scientific and Industrial Research Organisation. He led the development of a membrane-based hydrogen purification technology, culminating in a world-first demonstration of fuel cell vehicle refuelling with hydrogen derived from ammonia.

Michael holds a Bachelor of Science (Honours), PhD and Master of Business Administration.



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