

Flatman, John MAH:EX

From: Teramoto, Leslie JTT:EX
Sent: Tuesday, April 24, 2018 11:49 AM
To: Domench, Martin JTT:EX
Cc: Mercado, Maria JTT:EX
Subject: JTT-2018-82798

As per previous email.

From: Brydon, Stephen EMPR:EX
Sent: Thursday, February 1, 2018 6:53 PM
To: Hickli, Hope A GCPE:EX
Cc: Teramoto, Leslie JTT:EX; Irwin, Paul JTT:EX; Schollen, Tasha GCPE:EX; Stewart, Courtney GCPE:EX
Subject: Re: Chiyoda Hydrogen Project - Information disclosure

Thank you Hope and Leslie.
Stephen

Sent from my iPhone

On Feb 1, 2018, at 5:48 PM, Hickli, Hope A GCPE:EX <Hope.A.Hickli@gov.bc.ca> wrote:

Hi,

Yes, it's the Premier's post-mission wrap-up event tomorrow at 2 p.m. Ministers Ralston and Chow (and Minister Beare) will also be speaking. There will be a 5 minute QA session following their remarks.

Hope

Hope Hickli | Senior Public Affairs Officer
Ministry of Jobs, Trade and Technology
Government Communications and Public Engagement
Office: 778 698-9427 | Cell: 250 886-2684

From: Teramoto, Leslie JTT:EX
Sent: Thursday, February 1, 2018 5:44 PM
To: Hickli, Hope A GCPE:EX; Brydon, Stephen EMPR:EX
Cc: Irwin, Paul JTT:EX
Subject: Fwd: Chiyoda Hydrogen Project - Information disclosure

Hi

Hope, wondering if you could advise Stephen. I believe it's the post mission announcement but wanted to get the correct actual description.

Thanks
Leslie

Begin forwarded message:

From: "Brydon, Stephen EMPR:EX" <Stephen.Brydon@gov.bc.ca>
Date: February 1, 2018 at 5:31:39 PM PST
To: "Teramoto, Leslie JTT:EX" <Leslie.Teramoto@gov.bc.ca>
Cc: "Gensey, Guy EMPR:EX" <Guy.Gensey@gov.bc.ca>, "Green, Dan L EMPR:EX" <Dan.Green@gov.bc.ca>, "Irwin, Paul JTT:EX" <Paul.Irwin@gov.bc.ca>, "Darling, Sean D JTT:EX" <Sean.Darling@gov.bc.ca>, "Sawchuk, Richard JTT:EX" <Richard.Sawchuk@gov.bc.ca>, "Horsman, Jennifer JTT:EX" <Jennifer.Horsman@gov.bc.ca>
Subject: Re: Chiyoda Hydrogen Project - Information disclosure

Thanks Leslie, look forward to receiving further information on the general statement on Chiyoda.

Also, can you provide any context on the planned broader media announcement?

Thanks
Stephen

Sent from my iPhone

On Feb 1, 2018, at 5:07 PM, Teramoto, Leslie JTT:EX <Leslie.Teramoto@gov.bc.ca> wrote:

Good afternoon,

Guy, Stephen and Dan - I wanted to give you a heads up on this as there is a planned media announcement tomorrow. I just checked with Hope from our GCPE team. There is a general statement about Chiyoda and their hydrogen pursuits in the speaking notes for MBR but no specific reference as per Paul's direction to GCPE below.

I've asked Hope to send the info to me, and once received I will forward it to you for your reference. I want to ensure your team is comfortable with what is being released given ITM/Chiyoda/Mitsui's current request with EMPR.

Thanks,
Leslie

From: Irwin, Paul JTT:EX
Sent: Thursday, February 1, 2018 4:13 PM
To: Teramoto, Leslie JTT:EX; Horsman, Jennifer JTT:EX; Hickli, Hope A GCPE:EX
Cc: Sawchuk, Richard JTT:EX; Darling, Sean D JTT:EX
Subject: FW: Chiyoda Hydrogen Project - Information disclosure

FYI – I know that MBR was particularly impressed by his visit with Chiyoda and discussions on a possible hydrogen production facility in

BC. We've confirmed that MBR is able to reference Chiyoda's hydrogen project – a collaboration with Mitsui and Mitsubishi – more broadly (see attached overview) – but not about the specifics of a possible feasibility study leading to an investment in BC! No need to update any MBR speaking notes for the event tomorrow or anything – this is just for info/background.

From: Mizusawa Ichiro -TOKYO [mailto:imizusawa@britishcolumbia.ca]
Sent: Wednesday, January 31, 2018 12:35 AM
To: Irwin, Paul JTT:EX
Cc: XT:Salsberg, Avrom JTT:IN
Subject: Chiyoda Hydrogen Project - Information disclosure

Hi Paul,

I have confirmed with Chiyoda that we can discuss the project publicly except the following pages of the presentation slides “**Introduction of Hydrogen Supply Chain**”:

- 5.1 The World's First Global Hydrogen Supply Chain Demonstration Project – Slide No. 20, 21 and 22
- 6. Potential Feasibility Study – Slide No. 26, 27, 28 and 29

We can also refer attached press release. It should be changed after Chiyoda team would start feasibility study.

If you have any questions, please let me know.

Ichiro Mizusawa

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<AHEAD Project[1].pdf>



National Research and Development Agency,
New Energy and Industrial Technology Development Organization (NEDO)
Advanced Hydrogen Energy Chain Association
for Technology Development (AHEAD)
Chiyoda Corporation
Mitsubishi Corporation
Mitsui & Co., Ltd.
Nippon Yusen Kabushiki Kaisha

The World's First Global Hydrogen Supply Chain Demonstration Project

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Page 005 to/à Page 006

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Flatman, John MAH:EX

From: Teramoto, Leslie JTT:EX
Sent: Tuesday, April 24, 2018 11:50 AM
To: Domench, Martin JTT:EX
Cc: Mercado, Maria JTT:EX
Subject: JTT-2018-82798

As per previous email

From: Hickli, Hope A GCPE:EX
Sent: Monday, February 5, 2018 1:28 PM
To: Teramoto, Leslie JTT:EX
Subject: FW: Chiyoda

Hi Leslie,

Yes, we were limited in what we could say about Chiyoda and the request to include the bullets came after the NR was finalized.

Hope

From: Teramoto, Leslie JTT:EX
Sent: Monday, February 5, 2018 1:18 PM
To: Hickli, Hope A GCPE:EX
Subject: FW: Chiyoda

Hi Hope,

Question from our colleagues at EMPR on the Chiyoda bullets that were being considered for inclusion in the NR on Fri. Please advise.

Thanks,
Leslie

From: Gensey, Guy EMPR:EX
Sent: Monday, February 5, 2018 11:02 AM
To: Teramoto, Leslie JTT:EX
Subject: RE: Chiyoda

Hi Leslie: do you know why the Chiyoda project didn't make it into the final press release?
Guy

From: Teramoto, Leslie JTT:EX
Sent: Thursday, February 1, 2018 5:41 PM
To: Gensey, Guy EMPR:EX; Brydon, Stephen EMPR:EX; Green, Dan L EMPR:EX; Irwin, Paul JTT:EX
Cc: Sawchuk, Richard JTT:EX; Darling, Sean D JTT:EX; Horsman, Jennifer JTT:EX
Subject: Fwd: Chiyoda

Hi

Please see attached.

Thanks
Leslie

Begin forwarded message:

From: "Hickli, Hope A GCPE:EX" <Hope.A.Hickli@gov.bc.ca>
Date: February 1, 2018 at 5:09:22 PM PST
To: "Teramoto, Leslie JTT:EX" <Leslie.Teramoto@gov.bc.ca>
Subject: Chiyoda

Hi Leslie,

As discussed, here is the reference to Chiyoda in the Minister's SN:

- In Japan, Chiyoda Corporation is leading a consortium to explore hydrogen production opportunities – and we want to be first in line.
- Premier Horgan, Minister Chow and I met with Chiyoda and their partner organization, Mitsui, to promote B.C. clean tech solutions, and we will follow up on this opportunity, including through a strong B.C. presence at Fuel Cell Expo Japan.

Hope

Hope Hickli | Senior Public Affairs Officer
Ministry of Jobs, Trade and Technology
Government Communications and Public Engagement
Office: 778 698-9427 | Cell: 250 886-2684

Flatman, John MAH:EX

From: Teramoto, Leslie JTT:EX
Sent: Tuesday, April 24, 2018 11:52 AM
To: Domench, Martin JTT:EX
Cc: Mercado, Maria JTT:EX
Subject: JTT-2018-82798

From: Darling, Sean D JTT:EX
Sent: Monday, March 12, 2018 12:07 PM
To: Teramoto, Leslie JTT:EX
Subject: Status of Funding

Hi Leslie,

Talked to Stephen Brydon about the ICE funding. A quick update:

- Contribution Agreement: will be modelled on ICE documents and be entered into with ITM Power
- Amount: \$230
- Status: Must be signed before March 31, 2018. Currently negotiating with Geoff Budd and ITM for greater specificity on some of the deliverables.
- Announcement: GCPE lead for Energy and Mines is Collin Grewar. Our GCPE lead should connect with Collin regarding any interest we have and coordinating possible announcements. Stephen mentioned there may be concerns with involving Mitsui or Chiyoda as ITM is the agreement holder, but then again it may not be a concern.

Will let you know if I here from Geoff today.

Cheers!

Sean Darling PHDc
Executive Project Director
Major Investments Office
Ministry of Jobs, Trade
and Technology
250-356-7520
Cell: s.17

Flatman, John MAH:EX

From: Teramoto, Leslie JTT:EX
Sent: Tuesday, April 24, 2018 11:53 AM
To: Domench, Martin JTT:EX
Cc: Mercado, Maria JTT:EX
Subject: JTT-2018-82798
Attachments: image001.png; ATT00001.htm; MBK&CYDcomment_18 03 XX ITM Study Evaluating The Export of Renewable H2.docx; ATT00002.htm

From: Gensey, Guy EMPR:EX
Sent: Wednesday, March 14, 2018 5:13 PM
To: Teramoto, Leslie JTT:EX
Subject: Fwd: BC Feasibility Study Funding

Leslie: see attached. Let's discuss Friday, as I'm at globe tomorrow also and don't want to / can't deal with this during the conference.

Regards,
Guy

Begin forwarded message:

From: Stephen Jones <sj@itm-power.com>
Date: March 13, 2018 at 9:10:25 PM PDT
To: Guy Gensey <guy.gensey@gov.bc.ca>, Geoffrey Budd <geoff@gsbuddconsulting.com>
Subject: **FW: BC Feasibility Study Funding**

Hello Guy,
Please find attached draft wording for an announcement ITM would like to make after the contract is signed. As we are a public company we need to make sure we are transparent with our shareholders.

As you can see there is some placeholder language for you to fill in (quote and an 'about' section)
Please review and send me any changes you would like to see.

Thanks

Steve Jones
Managing Director
ITM Power Inc.

Tel: +1 (714) 453 8141
www.itm-power.com
<https://www.linkedin.com/in/stephenjones001>

Connect with ITM Power:
[YouTube](#) [Flickr](#) [Twitter](#) [Facebook](#)

Page 011 to/à Page 012

Withheld pursuant to/removed as

s.21

Flatman, John MAH:EX

From: Teramoto, Leslie JTT:EX
Sent: Tuesday, April 24, 2018 11:58 AM
To: Domench, Martin JTT:EX
Cc: Mercado, Maria JTT:EX
Subject: JTT-2018-82798
Attachments: MBK&CYDcomment_18 03 XX ITM Study Evaluating The Export of Renewable H2.....docx

From: Darling, Sean D JTT:EX
Sent: Friday, March 16, 2018 3:15 PM
To: Teramoto, Leslie JTT:EX
Subject: FW: ITM Power project

Hi Leslie,

FYI.

Also was talking to Guy a few minutes back and he said he sent you a draft this afternoon for review and comment.

I haven't seen what Guy sent you this afternoon but maybe it is the same as what Brad sent to me.

Cheers!

From: Densmore, Brad GCPE:EX
Sent: Friday, March 16, 2018 3:12 PM
To: Darling, Sean D JTT:EX
Subject: FW: ITM Power project

Hi Sean,

Just a quick update – EMPR GCPE has now started looking into this announcement as it was not yet on their agenda.

You may wish to contact to Guy Gensey below if you haven't already about your thoughts for an announcement – he is their usual program contact.

The announcement may have dropped off their radar as the funding was routed through JTT, even though it's an ICE announcement.

I'll keep you posted if I hear anything new – let me know if you have any thoughts our concerns so far.

From: Beaupre, Darren GCPE:EX
Sent: Friday, March 16, 2018 2:55 PM
To: Densmore, Brad GCPE:EX
Subject: FW: ITM Power project

fyi

From: Gensey, Guy EMPR:EX
Sent: Friday, March 16, 2018 1:53 PM
To: Brydon, Stephen EMPR:EX; Platts, Robin GCPE:EX
Cc: Yeh, Will EMPR:EX; Beaupre, Darren GCPE:EX; Grewar, Colin GCPE:EX; Teramoto, Leslie JTT:EX; Green, Dan L EMPR:EX
Subject: RE: ITM Power project

Hi Robin: here is the draft. The content is fine with me except for the wording around this being a grant to ITM s.13
s.13 The chart below shows the timelines for the feasibility study. Key bullets below.

s.17

Guy
s.13,s.16,s.17

Centralized Renewable Hydrogen Production in BC

Background

The proposed project revolves around a partnership of Chiyoda Corporation, Mitsui & Co. and ITM Power (the Consortium). The objective is to produce hydrogen in BC from clean electricity, through electrolysis, and export the hydrogen to Japan and California. Some hydrogen would also be used in BC for low carbon energy use.

s.13,s.16,s.17

s.17 The Consortium has been working with the Ministry of Energy, Mines and Petroleum Resources (EMPR), Electricity and Alternative Energy Division on funding for the feasibility study. They originally approached the Innovative Clean Energy the Ministry of Jobs, Trade and Technology has agreed to direct \$230,000 through EMPR for the feasibility study. The payment is currently being processed.

BC Hydro has committed \$60,000 in-kind support to study plant location, transmission upgrade requirements and interconnection costs.

s.16,s.21

Discussion

It is very encouraging to hear that ITM Power, Chiyoda and Mitsui are seeking to advance this hydrogen production project which utilizes BC clean power. It provides BC with a unique opportunity for renewable hydrogen energy export.

This project is consistent with EMPR's goal of decarbonizing BC's energy use to reduce our impact on climate change and establish a new diversified foundation for our economy.

Hydrogen production is very energy-intensive and generating hydrogen produced from BC's clean electricity is a cost-effective and low-carbon energy solution.

s.17

Conclusion

There is a growing demand for hydrogen in parts of the world that are leading the transition away from conventional energy sources, and clean energy like hydrogen is needed for both motive and stationary power applications.

With BC's clean, low-cost electricity, the province is strongly positioned as a potential producer and exporter of renewable hydrogen generated via electrolysis.

We look forward to seeing firsthand the development of this type of operation, and the impact it can have on diversifying global energy sources.

From: Brydon, Stephen EMPR:EX
Sent: Friday, March 16, 2018 1:43 PM
To: Platts, Robin GCPE:EX; Gensey, Guy EMPR:EX
Cc: Yeh, Will EMPR:EX; Beaupre, Darren GCPE:EX; Grewar, Colin GCPE:EX
Subject: Re: ITM Power project

Guy, please follow up. Thanks

Sent from my iPhone

On Mar 16, 2018, at 1:39 PM, Platts, Robin GCPE:EX <Robin.Platts@gov.bc.ca> wrote:

Hi

We are looking for info about an ITM Power project s.17 . Can you provide more details about timelines for the project, whether it might be a good announceable for us?

Thanks

Robin Platts
EMPR / GCPE
250-213-6451

Flatman, John MAH:EX

From: Teramoto, Leslie JTT:EX
Sent: Tuesday, April 24, 2018 11:59 AM
To: Domench, Martin JTT:EX
Cc: Mercado, Maria JTT:EX
Subject: JTT-2018-82798
Attachments: 139101 - Tour Chiyoda Hydrogen Production Facility Site.pdf

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

From: Mercado, Maria JTT:EX
Sent: Tuesday, March 20, 2018 2:07 PM
To: Teramoto, Leslie JTT:EX
Subject: RE: ITM power

Hi Leslie,

Sorry missed your call...at the finance meeting.

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

From: Teramoto, Leslie JTT:EX
Sent: Tuesday, March 20, 2018 2:00 PM
To: Mercado, Maria JTT:EX
Subject: ITM power

Hi

Please forward me the Jan 2018 BN and also he CHiyoda BN from Premier's misson

Thx
L

Meeting Note

CLIFF: 139101

TITLE: Tour Chiyoda Hydrogen Storage and Production Facility Site

WHO: British Columbia Government

1. Honourable Bruce Ralston, Minister of Jobs, Trade and Technology
2. Honourable George Chow, Minister of State for Trade
3. Fazil Mihlar, Deputy Minister, Ministry of Jobs, Trade and Technology
4. Ichiro Mizusawa, BC Trade and Investment Office Japan

Chiyoda Corporation

1. Mr. Ryosuke Shimizu, Senior Vice President, Operations Director, Technology Development, Investment and Project Operations
2. Mr. Masashi Nagai, Section Leader, Hydrogen Business Planning & Development Section
3. Dr. Shinichi Nakata, Senior Advisor, Hydrogen Supply Chain Development Unit

Mitsui & Co. Ltd.

1. Mr. Takeshi Hokari, General Manager, New Energy Business Development, Energy
2. Mr. Ryosuke Takezawa, Team Leader, New Energy Business Development, Energy

WHERE: Tuesday, January 30 2018 | 1:30 pm – 3:00 pm

Location: Chiyoda demonstration plant, Yokohama

WHY:

- Chiyoda Corporation is leading a consortium seeking to explore hydrogen production opportunities in British Columbia.

GIFT: No gift

ISSUE/DISCUSSION:

- A site visit to Chiyoda's demonstration facility will provide a first-hand opportunity to understand and assess the scope, standards and infrastructure necessary to potentially construct such a plant in British Columbia.

KEY MESSAGES & DISCUSSION QUESTIONS:

- We look forward to seeing the type of operation and impact the Chiyoda's facility has on diversifying global energy sources.
- It is encouraging to hear that Chiyoda, Mitsui and ITM Power are seeking to advance a hydrogen production and transportation project which utilizes BC power, a low-carbon energy solution.

- The Province is committed to advancing BC's clean energy sector and supports pre-commercial clean energy technology projects. BC welcomes investment opportunities for clean and renewable technology between BC and Japan.
- BC's Innovative Clean Energy (ICE) Fund is designed to support the Province's energy, economic, environmental and greenhouse gas reduction priorities, and to advance BC's clean energy sector.
- One of the priorities identified for the Minister of Energy, Mines and Petroleum Resources is to reinvigorate the ICE Fund to boost investments in groundbreaking new energy technologies and climate change solutions.
- British Columbia is a world leader in developing and using hydrogen and fuel cell technology as a clean energy solution.
- BC continues to have a presence at Fuel Cell Expo Japan (as part of World Smart Energy Week). This year, there are nine BC hydrogen and fuel cell companies (e.g. Ballard, Greenlight Innovation, Powertech) exhibiting at the Canada Pavilion. (Organized by the Canadian Hydrogen Fuel Cell Association.) JTT contributes funding to the Pavilion.
- BC encourages Chiyoda and Mitsui to attend GLOBE Forum and Innovation Expo on March 14-16, 2018 in Vancouver.

BACKGROUND:

- Japan's Chiyoda and Mitsui are working with ITM Power to propose a feasibility study to investigate the production of hydrogen for power utilizing clean, renewable energy in British Columbia. BC Hydro has committed to in-kind support to study plant location, transmission upgrade requirements, and interconnection costs. (Attachment I)
- The long-term objective is to consider a demonstration project in BC which would provide cleaner energy solutions to the global market; increase investment into BC; create local jobs and partnerships; and expand BC export markets (Japan, US to start).
- The consortium (Chiyoda, ITM and Mitsui) is in discussion with the Ministry of Energy, Mines and Petroleum Resources (EMPR) on clean energy funding programs, including the ICE Fund. The group is connecting federally with Innovation, Science and Economic Development Canada (ISED) and WED.
- Established in 1948, Chiyoda is a fully-integrated Japanese engineering company with projects in 60 countries. Based in Yokohama, Mitsubishi Corporation is a 33% shareholder in the company. Its main business activities include: consulting, engineering, construction, and facility maintenance for gas, electricity, petrochemical, pharmaceutical, environment, and other services.
- Chiyoda's recent undertakings in BC are as main contractor on the LNG Canada project,

in conjunction with Foster Wheeler, SAIPEM and WorleyParsons on front-end engineering and design.

- Chiyoda has developed a proprietary hydrogen storage and transportation system called the **SPERA Hydrogen** system which utilizes liquid organic hydrogen carrier (LOHC) methods to transport liquid hydrogen at ambient temperatures and pressures, allowing for chemical storage and transport by tanker ship.
- The Ministry of Economy, Trade and Industry (METI) has declared a national mandate to create a 'hydrogen economy' and achieve a carbon-free society. On December 26, METI decided on a Basic Hydrogen Strategy to build a world-leading hydrogen-based society. (Attachment II). Japan aims to have 40,000 fuel cell vehicles and 160 hydrogen stations built by 2020.
- Chiyoda is receiving support from the Japanese Government's Ministry of Economy, Trade and Industry on a hydrogen transportation project from Brunei.

ADDITIONAL INFORMATION:

EVENT SCENARIO

| Time | Details |
|---------|--|
| 1:25 pm | Ministers and staff arrive at the Chiyoda facility. Ministers and staff are directed to meeting area. |
| 1:30 pm | Premier and staff greet Chiyoda staff. |
| 1:35 pm | Meeting begins, including presentation by Chiyoda. |
| 2:30 pm | Meeting concludes. |
| 2:35 pm | Site tour begins. |
| 2:55 pm | Site tour ends. |
| 3:00 pm | Ministers depart for Narita Airport. |

SPEAKING NOTES: No

CONTACT:

Ichiro Mizusawa
Senior Business Development Manager, BCTIO
Japan
Tel: +81-90-6544-9469

Richard Sawchuk
Director, Japan, Korea and Hong Kong
Tel: (604) 617-0378
Email: Richard.Sawchuk@gov.bc.ca

ATTACHMENTS:

Attachment I: Overview - Hydrogen Project Proposal – ITM Power, Chiyoda Corporation, Mitsui & Co.

Attachment II: News Release - Japan's Basic Hydrogen Strategy

Attachment III: Corporate Overview – Chiyoda Corporation

Attachment I**Overview - Hydrogen Project Proposal**

The proposed project revolves around a partnership of Chiyoda Corporation, Mitsui & Co. and ITM Power. The objective is to produce hydrogen in BC from clean electricity, through electrolysis, and export the hydrogen to Japan and California. Some hydrogen would also be used in BC for low carbon energy use.

The partners have first proposed to do a feasibility study to evaluate the technical and economic viability of the project in BC. The outcome of the study could lead to the construction of a small pilot plant for testing purposes, and eventually larger plants for hydrogen export.

The long-term impacts of hydrogen export from BC would be to provide cleaner energy solutions to the global market, increase investment into BC, create local jobs and partnerships and expand BC export markets. It also aligns with provincial and national climate change objectives, including the deployment of zero emission vehicles, decarbonizing industry and strengthening the hydrogen and fuel cell technology cluster in BC.

The consortium (Chiyoda, ITM and Mitsui) has been working with the Ministry of Energy, Mines and Petroleum Resources (EMPR), Electricity and Alternative Energy Division on funding for the feasibility study through the Innovative Clean Energy (ICE) Fund.

Mitsui & Co.

Mitsui & Co. is one of Japan's largest fully-integrated trading houses with operations in 66 countries, 138 offices globally and producing US\$39 billion in revenue (as of March 2017). Their business areas cover nearly every area, including: sales, manufacturing, export/import, investment, metals and minerals, machinery, electronics, chemicals, energy, consumer products and services (retail, food, textiles, etc.), financial markets, and transportation.

Mitsui taps an expanding global network to access strategic information and harness business engineering capabilities.

ITM Power

ITM Power specialises in the manufacture of integrated hydrogen energy systems, including hydrogen electrolyzers. Founded in June 2001, the company floated on the Alternative Investment Market (AIM) in 2004 and was the first United Kingdom-based fuel cell company to go public. ITM Power operates out of two premises in Sheffield, UK with further offices in Germany, France the USA and Canada.

Attachment II**News Release - Japan's Basic Hydrogen Strategy**

Prime Minister of Japan and His Cabinet
News Release
December 26, 2017

Ministerial Council on Renewable Energy, Hydrogen and Related Issues

[Provisional Translation]

On December 26, 2017, Prime Minister Shinzo Abe attended the second meeting of the Ministerial Council on Renewable Energy, Hydrogen and Related Issues at the Prime Minister's Office.

During the meeting, discussion took place on the formulation of the Basic Hydrogen Strategy (draft); the progress of the Action Plan on Ministry and Agency Collaboration Towards the Expansion of Renewable Energy; and the report on the progress of the Fukushima Plan for a New Energy Society.

Based on the discussion, the Prime Minister said,

"Through innovation, hydrogen energy will become a trump card to solve the issues of energy security and global warming. The Basic Strategy that was determined today serves as a guidepost for Japan to lead the way towards decarbonization in the world by providing hydrogen as a new energy option.

I ask that the measures outlined in the Basic Strategy be swiftly implemented. The Fukushima Plan for a New Energy Society, which is the pioneer of this Basic Strategy, has already begun its activities. In Namie Town, a hydrogen production project of the world's largest scale, using renewable energy with zero CO2 emissions, started last summer. In 2020, this clean hydrogen made in Fukushima will be used for the Tokyo Olympic and Paralympic Games. We will show the world a new aspect of Fukushima's recovery as a 'Reconstruction Olympic and Paralympic Games.'

Japan will lead the world in materializing a hydrogen society. With that determination, I would like to ask Minister Seko and other relevant ministers to engage in a united effort across the Government in accordance with the Basic Strategy."

Attachment III**Chiyoda Corporation – Corporate Overview**

- Chiyoda Corporation is a world-leading Japanese engineering company, with wide-ranging business interests in such fields as energy, chemicals and petrochemicals, pharmaceuticals, environmental technology, social infrastructure and industrial facilities.
- Established in 1948, Chiyoda started with domestic projects in petroleum refining, petrochemicals and gas processing. Chiyoda has expanded business into the offshore and upstream sectors, new energy and renewable energies.
- Chiyoda has significant presence in the global gas and oil market, with industrial plants and projects in over 40 countries and customers in more than 60 countries around the world.
- Chiyoda employs 5,367 people (consolidated) and 1,505 people (non-consolidated) (as of March 2017).
- Chiyoda's four business streams are (% revenue):
 - LNG/Gas (71%)
 - Oil/Petrochemical/Metal (17%)
 - Environment/New Energy/Infrastructure/Other (7%)
 - Medicine/Biochemistry/General Chemistry (5%)
- **SPERA Hydrogen^R** is proprietary technology developed by Chiyoda for the storage of hydrogen for long periods of time and long distance transport at large scale, both at ambient temperature and pressure in stable liquid form.
- Chiyoda is the worldwide leading contractor of LNG plants with experience in 35 Front End Engineering Design (FEED) projects and 26 Engineering, Procurement and Construction (EPC) projects to date. Current key projects include Cameron LNG, Papua New Guinea LNG project, Sakhalin 2 LNG Project.
- Chiyoda major group companies include: Chiyoda Kosho Co., Ltd., Chiyoda System Technologies Corporation, Chiyoda TechnoAce Co., Ltd., Chiyoda U-Tech Co., Ltd., Arrow Human Resources Co., Ltd., and Arrowhead International Corporation.
- Total Revenues: (2016) US\$5.5 billion. New Orders (2016): US\$3.2 billion. Backlog of Contracts (2016) US\$7.9 billion.

Flatman, John MAH:EX

From: Teramoto, Leslie JTT:EX
Sent: Tuesday, April 24, 2018 11:59 AM
To: Domench, Martin JTT:EX
Cc: Mercado, Maria JTT:EX
Subject: JTT-2018-82798

From: Mizusawa Ichiro -TOKYO [<mailto:imizusawa@britishcolumbia.ca>]
Sent: Monday, March 26, 2018 1:24 AM
To: Teramoto, Leslie JTT:EX
Cc: Darling, Sean D JTT:EX; Horsman, Jennifer JTT:EX; Kan, Paul JTT:EX; Ommundsen, Eric JTT:EX; Sawchuk, Richard JTT:EX; XT:Salsberg, Avrom JTT:IN
Subject: Re: Chiyoda Feasibility Study

Hi,

I had a meeting with Chiyoda and Mitsui. The project members will gather in Vancouver in the week of April 9 for a kick-off meeting.

<https://na32.salesforce.com/00U3800000Pjsb5>

Ichiro Mizusawa

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Flatman, John MAH:EX

From: Teramoto, Leslie JTT:EX
Sent: Tuesday, April 24, 2018 12:00 PM
To: Domench, Martin JTT:EX
Cc: Mercado, Maria JTT:EX
Subject: JTT-2018-82798

From: Teramoto, Leslie JTT:EX
Sent: Wednesday, April 4, 2018 3:31 PM
To: XT:Mizusawa, Ichiro JTT:IN; XT:Salsberg, Avrom JTT:IN; Sawchuk, Richard JTT:EX; Horsman, Jennifer JTT:EX; Darling, Sean D JTT:EX; Kan, Paul JTT:EX; XT:Potter, Rupert JTT:IN; XT:Hilton, Graham JTT:IN; XT:Fox, William JTT:IN; Lam, Jeanette JTT:EX; Cagic, Nina JTT:EX; Bains, Harbs JTT:EX
Cc: Ommundsen, Eric JTT:EX; Krieger, Brian JTT:EX
Subject: ITM/Chiyoda/Mitsui project

Hi All,

Just wanted to give an update to team Japan, Clean tech team – and also an intro to Will/Jeanette and Rupert/Graham/Greg.

Last week, the BC Gov s.17 announced support for a green hydrogen techno-economic feasibility study with a consortium of companies led by

- UK-based ITM Power (via their Americas - CA-based presence) and Geoff Budd Consulting
- Chiyoda Corporation (technology partner) and
- Mitsui & Co (commercial partner)

As you can see above, this project involves a consortia of companies with impacts in the UK, USA and Japan. As such, I have looped all of you in so that your teams are aware should they encounter members of these companies. We may request your assistance as this study progresses.

Please see the attached news releases which outline the project announcement –
ITM Power - <http://www.itm-power.com/news-item/british-columbia-renewable-hydrogen-study>
BC Gov - <https://news.gov.bc.ca/releases/2018EMPR0008-000523>

BC GOV

Ichiro/Japan team, NRIPS, MIO and EMPR - have been supporting this initiative since 2017.

Ichiro – please add all those in the above distribution to the innovation partnership opportunity team so they can reference the info - <https://na32.salesforce.com/0063800000ICMeJ>

As this is a feasibility study, please note that this opportunity is not the larger potential hydrogen production facility opportunity. The facility opportunity will be determined by the outcome of the study (expected completion 2019 spring).

For now, from the Vancouver/Victoria side, EMPR/Guy Gensey will be lead – and leading BC Government interaction with Geoff Budd (who is the representative leading the project). EMPR/Guy has asked that we handle the international interactions with the companies, particularly on the Japan side.

FEASIBILITY STUDY

On April 11th there will be a kick-off meeting for the project in Vancouver at the Mitsui & Co offices. It is likely to involve the following members:

1. Geoff Budd, Geoff Budd Consulting
2. Steve Jones, ITM Power (CA)
3. Ryosuke Takezawa, Mitsui & Co (Tokyo)
4. Jackie Lee, Mitsui & Co (Calgary)
5. Tadashi Ito, Chiyoda Corporation (Tokyo)
6. Rob Schneider, Chiyoda Corporation (Tokyo)
7. Daisuke Kurosaki, Chiyoda Corporation (Tokyo)
8. BC Hydro – (names unknown)
9. Guy Gensey, EMPR
10. Paul Kan, JTT
11. Sean Darling, JTT, MIO
12. Leslie Teramoto, JTT

We will provide an update to all once the meeting takes place.

In case anyone has further questions, please let us know.

Thanks,
Leslie

Leslie Teramoto
A/ Executive Director, Natural Resources
International Business Development
Ministry of International Trade
730-999 Canada Place
Vancouver, BC V6C 3E1
Mobile: +1.604.992.0550

From: [Steggles, Amy JTT:EX](#)
To: [Beaupre, Darren GCPE:EX](#); [Grewar, Colin GCPE:EX](#)
Cc: [Platts, Robin GCPE:EX](#)
Subject: RE: Tech Strategy
Date: Tuesday, March 20, 2018 2:14:14 PM

Tomorrow is great!

From: Beaupre, Darren GCPE:EX
Sent: Tuesday, March 20, 2018 2:14 PM
To: Steggles, Amy JTT:EX; Grewar, Colin GCPE:EX
Cc: Platts, Robin GCPE:EX
Subject: RE: Tech Strategy

Hi Amy. ^{s.13} . Can we get back to you tomorrow sometime? Robin make a note. Thanks.

From: Steggles, Amy JTT:EX
Sent: Tuesday, March 20, 2018 2:12 PM
To: Beaupre, Darren GCPE:EX; Grewar, Colin GCPE:EX
Subject: Tech Strategy

Hello gentlemen,

Blast from the past here, Amy Steggles. As you've no doubt surmised, ^{s.13} got direction today to include a little blurb on this:

s.13,s.16,s.17

Could you let me know when you're planning on releasing the NR and then I'll just re-use your language to ensure that everything is kosher.

Thanks!
Amy

Amy Steggles
Manager, Investment Capital Strategic Policy & Government Relations
Ministry of Jobs, Trade and Technology
250 507-9833

From: [Little, Christine JTT:EX](#)
To: [Steggles, Amy JTT:EX](#); [Cocco, Angelo JTT:EX](#)
Cc: [Butterworth, Kevin JTT:EX](#)
Subject: FW: Tech strategy
Date: Tuesday, March 20, 2018 10:37:32 AM

Fyi.

Christine Little
Assistant Deputy Minister
Small Business and Regulatory and Service Improvement Division
Ministry of Jobs, Trade and Technology
Phone: 250-387-0661

Warning: This email is intended only for the use of the individual or organization to whom it is addressed. It may contain information that is privileged or confidential. Any distribution, disclosure, copying, or other use by anyone else is strictly prohibited. If you have received this in error, please telephone or e-mail the sender immediately and delete the message.

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

From: Mihlar, Fazil JTT:EX
Sent: Tuesday, March 20, 2018 10:37 AM
To: Butterworth, Kevin JTT:EX
Cc: Little, Christine JTT:EX; Mingay, Rob JTT:EX
Subject: Tech strategy

New: hydrogen feasibility study with Mitsui and Chiyoda S.13
S.13 Thx. Fazil

Sent from my iPhone

Page 029 to/à Page 051

Withheld pursuant to/removed as

s.13

Hourston, Sveah JTT:EX

From: Gensey, Guy EMPR:EX
Sent: Tuesday, February 6, 2018 11:59 AM
To: Mihlar, Fazil JTT:EX
Cc: MacLaren, Les EMPR:EX; Jang, Monica JTT:EX; Brydon, Stephen EMPR:EX
Subject: RE: ICE & Hydrogen

Fazil: we have heard nothing on the budget front regarding funding the Chiyoda feasibility study for BC.

I will follow up shortly on federal regulations around toluene. The consultant has also committed to getting me information on the environmental aspects of their other project in Asia.

Regards,
Guy

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

From: Mihlar, Fazil JTT:EX
Sent: Tuesday, February 6, 2018 11:41 AM
To: Gensey, Guy EMPR:EX
Cc: MacLaren, Les EMPR:EX; Jang, Monica JTT:EX
Subject: ICE & Hydrogen

Hi Guy: Any news on this front that you can share? Thx. Fazil

Sent from my iPhone

Hourston, Sveah JTT:EX

From: MacLaren, Les EMPR:EX
Sent: Friday, February 23, 2018 4:22 PM
To: Jang, Monica JTT:EX
Cc: Gensey, Guy EMPR:EX; Brydon, Stephen EMPR:EX
Subject: RE: ICE & Hydrogen
Attachments: 20171115_Centralised Renewable Hydrogen Production In BC Concept Paper.docx

Hi Monica:

Thanks for your note. I appreciate the financial support from JTT for the Chiyoda project feasibility study. I've attached the feasibility study proposal, which is the extent of the paper work so far. Some further scope related to environmental impacts needs to be added.

On Monday morning, 10-11am, the Chiyoda project consultant will be in our offices to meet with EMPR project lead on this, Guy Gensey, to discuss the environmental aspects of this project. You are welcome to have someone from JTT attend if it is of interest. If so, please have them get in touch with Guy directly.

Les

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

From: Jang, Monica JTT:EX
Sent: Thursday, February 22, 2018 1:24 PM
To: MacLaren, Les EMPR:EX <Les.MacLaren@gov.bc.ca>
Cc: Gensey, Guy EMPR:EX <Guy.Gensey@gov.bc.ca>; Brydon, Stephen EMPR:EX <Stephen.Brydon@gov.bc.ca>
Subject: FW: ICE & Hydrogen

Hi Les,

Fazil said that the Hydrogen feasibility study off your funding list. We can take it from here but would you be able to forward us your paperwork?

Thanks,

Monica.

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

From: Gensey, Guy EMPR:EX
Sent: Tuesday, February 6, 2018 11:59 AM
To: Mihlar, Fazil JTT:EX
Cc: MacLaren, Les EMPR:EX; Jang, Monica JTT:EX; Brydon, Stephen EMPR:EX
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To: Gensey, Guy EMPR:EX

Cc: MacLaren, Les EMPR:EX; Jang, Monica JTT:EX

Subject: ICE & Hydrogen

Hi Guy: Any news on this front that you can share? Thx. Fazil

Sent from my iPhone

Page 055 to/à Page 060

Withheld pursuant to/removed as

s.16;s.13;s.17

s.13,s.16,s.17

s.17,s.21

Page 062

Withheld pursuant to/removed as

s.16;s.13;s.17

From: [Teramoto, Leslie JTT:EX](#)
To: [XT:Salsberg, Avrom JTT:IN](#); [XT:Mizusawa, Ichiro JTT:IN](#); [Sawchuk, Richard JTT:EX](#); [Horsman, Jennifer JTT:EX](#)
Cc: [Darling, Sean D JTT:EX](#); [Irwin, Paul JTT:EX](#)
Subject: Confidential - Chiyoda/ ITM/ Mitsui
Date: Monday, February 26, 2018 4:42:53 PM

Hi

Geoff Budd had requested a meeting with EMPR (Guy Gensey/ Stephen Brydon) to discuss the funding application. The meeting took place today, with Sean included.

**Please keep this extremely confidential / for internal information only - sounds like Chiyoda/ITM/Mitsui project will get their funding – not from EMPR but from JTT. Geoff and the ITM/Chiyoda/Mitsui have not been informed of this yet.

Funding mechanism is TBC. Sean is working on it with our DMO – in coordination with EMPR.

Sean will have Salesforce updated with notes from today's meeting.

Thanks,
Leslie

From: [Teramoto, Leslie JTT:EX](#)
To: [Darling, Sean D JTT:EX](#)
Subject: FW: Chiyoda Feasibility Study
Date: Monday, March 26, 2018 9:26:19 AM
Attachments: [2018.03.25 - Chiyoda meeting notes.pdf](#)

Hi

Attaching report just in case you can't get into Salesforce yet.

Thx

L

From: Mizusawa Ichiro -TOKYO [mailto:imizusawa@britishcolumbia.ca]
Sent: Monday, March 26, 2018 1:27 AM
To: Teramoto, Leslie JTT:EX
Subject: Re: Chiyoda Feasibility Study
Guy will be attending the kick-off from BC Gov side...
Please sort things out in an appropriate way on your end.
Thanks.

From: Ichiro Mizusawa <imizusawa@britishcolumbia.ca>
Date: 2018年3月26日月曜日 17:23
To: "Teramoto, Leslie JTT:EX" <Leslie.Teramoto@gov.bc.ca>
Cc: "Darling, Sean D JTT:EX" <Sean.Darling@gov.bc.ca>, "Horsman, Jennifer JTT:EX" <Jennifer.Horsman@gov.bc.ca>, "Kan, Paul JTT:EX" <Paul.Kan@gov.bc.ca>, "Ommundsen, Eric JTT:EX" <Eric.Ommundsen@gov.bc.ca>, "Sawchuk, Richard JTT:EX" <Richard.Sawchuk@gov.bc.ca>, Salsberg Avrom <asalsberg@britishcolumbia.ca>
Subject: Re: Chiyoda Feasibility Study

Hi,

I had a meeting with Chiyoda and Mitsui. The project members will gather in Vancouver in the week of April 9 for a kick-off meeting.

<https://na32.salesforce.com/00U3800000Pjsb5>

Ichiro Mizusawa

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From: [Teramoto, Leslie JTT:EX](#)
To: [Darling, Sean D JTT:EX](#)
Subject: FW: Chiyoda Feasibility Study
Date: Monday, March 26, 2018 9:21:55 AM

From: Mizusawa Ichiro -TOKYO [<mailto:imizusawa@britishcolumbia.ca>]
Sent: Monday, March 26, 2018 1:27 AM
To: Teramoto, Leslie JTT:EX
Subject: Re: Chiyoda Feasibility Study
Guy will be attending the kick-off from BC Gov side...
Please sort things out in an appropriate way on your end.
Thanks.

From: Ichiro Mizusawa <imizusawa@britishcolumbia.ca>
Date: 2018年3月26日月曜日 17:23
To: "Teramoto, Leslie JTT:EX" <Leslie.Teramoto@gov.bc.ca>
Cc: "Darling, Sean D JTT:EX" <Sean.Darling@gov.bc.ca>, "Horsman, Jennifer JTT:EX" <Jennifer.Horsman@gov.bc.ca>, "Kan, Paul JTT:EX" <Paul.Kan@gov.bc.ca>, "Ommundsen, Eric JTT:EX" <Eric.Ommundsen@gov.bc.ca>, "Sawchuk, Richard JTT:EX" <Richard.Sawchuk@gov.bc.ca>, Salsberg Avrom <asalsberg@britishcolumbia.ca>
Subject: Re: Chiyoda Feasibility Study

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I had a meeting with Chiyoda and Mitsui. The project members will gather in Vancouver in the week of April 9 for a kick-off meeting.

<https://na32.salesforce.com/00U3800000Pjsb5>

Ichiro Mizusawa

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From: [Teramoto, Leslie JTT:EX](#)
To: [Darling, Sean D JTT:EX](#); [Sawchuk, Richard JTT:EX](#); [Horsman, Jennifer JTT:EX](#)
Subject: FW: ITM Power project
Date: Tuesday, March 20, 2018 11:21:39 AM
Attachments: [image001.jpg](#)

FYI

From: Brydon, Stephen EMPR:EX
Sent: Tuesday, March 20, 2018 11:16 AM
To: Platts, Robin GCPE:EX; Gensey, Guy EMPR:EX
Cc: Yeh, Will EMPR:EX; Beaupre, Darren GCPE:EX; Grewar, Colin GCPE:EX; Teramoto, Leslie JTT:EX; Green, Dan L EMPR:EX
Subject: RE: ITM Power project
OK.

One slight edit to the proposed quote:

Michelle Mungall, British Columbia's Minister of Energy, Mines and Petroleum Resources, added:
"This technology has the potential to make British Columbia major player in the worldwide hydrogen economy. This project also a clear indicator that, as we move toward a strong, sustainable energy future, B.C.'s renewable and innovative clean energy resources make us an attractive destination for global investment."

From: Platts, Robin GCPE:EX
Sent: Tuesday, March 20, 2018 10:01 AM
To: Brydon, Stephen EMPR:EX; Gensey, Guy EMPR:EX
Cc: Yeh, Will EMPR:EX; Beaupre, Darren GCPE:EX; Grewar, Colin GCPE:EX; Teramoto, Leslie JTT:EX; Green, Dan L EMPR:EX
Subject: RE: ITM Power project

I think it might work best if we could suggest that to ITM as a paragraph that could be included elsewhere in the news release. But I agree, it would be great to highlight all that.

Let me know if the draft quote looks good to you and then we can see if the minister wants to be included. If she does, then we can go back to ITM with a quote from her and suggest adding an additional paragraph based on what you have below.

Do you know when ITM is planning to issue their NR?

Thanks

Robin

From: Brydon, Stephen EMPR:EX
Sent: Tuesday, March 20, 2018 9:48 AM
To: Platts, Robin GCPE:EX; Gensey, Guy EMPR:EX
Cc: Yeh, Will EMPR:EX; Beaupre, Darren GCPE:EX; Grewar, Colin GCPE:EX; Teramoto, Leslie JTT:EX; Green, Dan L EMPR:EX
Subject: RE: ITM Power project

Thanks Robin, is it too late to include some reference to the global strength of BC's hydrogen and fuel cell cluster either in the quote or elsewhere in the NR?

BC is recognized as a global leader in hydrogen and fuel cell research, development and early stage commercialization. Increasing demand for clean energy products and solutions domestically and worldwide is generating opportunities and investments for BC companies in a broad range of applications, including passenger vehicles, buses, trucks, trains/trams, ships and planes, stationary and back-up power, and material handling. Hydrogen in combination with fuel cell technologies are being used to enhance the performance of clean energy systems by helping to balance fluctuations in energy loads.

From: Platts, Robin GCPE:EX
Sent: Tuesday, March 20, 2018 9:40 AM

Centralized Renewable Hydrogen Production in BC

Background

The proposed project revolves around a partnership of Chiyoda Corporation, Mitsui & Co. and ITM Power (the Consortium). The objective is to produce hydrogen in BC from clean electricity, through electrolysis, and export the hydrogen to Japan and California. Some hydrogen would also be used in BC for low carbon energy use.

s.13,s.16,s.17

The Consortium has been working with the Ministry of Energy, Mines and Petroleum Resources (EMPR), Electricity and Alternative Energy Division on funding for the feasibility study. They originally approached the Innovative Clean Energy

s.17

s.17 the Ministry of Jobs, Trade and Technology has agreed to direct \$230,000 through EMPR for the feasibility study. The payment is currently being processed.

BC Hydro has committed \$60,000 in-kind support to study plant location, transmission upgrade requirements and interconnection costs.

s.16,s.21

Discussion

It is very encouraging to hear that ITM Power, Chiyoda and Mitsui are seeking to advance this hydrogen production project which utilizes BC clean power. It provides BC with a unique opportunity for renewable hydrogen energy export.

This project is consistent with EMPR's goal of decarbonizing BC's energy use to reduce our impact on climate change and establish a new diversified foundation for our economy.

Hydrogen production is very energy-intensive and generating hydrogen produced from BC's clean electricity is a cost-effective and low-carbon energy solution.

s.17

Conclusion

There is a growing demand for hydrogen in parts of the world that are leading the transition away from conventional energy sources, and clean energy like hydrogen is needed for both motive and stationary power applications.

With BC's clean, low-cost electricity, the province is strongly positioned as a potential producer and exporter of renewable hydrogen generated via electrolysis.

We look forward to seeing firsthand the development of this type of operation, and the impact it can have on diversifying global energy sources.

From: Brydon, Stephen EMPR:EX

Sent: Friday, March 16, 2018 1:43 PM

To: Platts, Robin GCPE:EX; Gensey, Guy EMPR:EX

Cc: Yeh, Will EMPR:EX; Beaupre, Darren GCPE:EX; Grewar, Colin GCPE:EX

Subject: Re: ITM Power project

Guy, please follow up. Thanks

Sent from my iPhone

On Mar 16, 2018, at 1:39 PM, Platts, Robin GCPE:EX <Robin.Platts@gov.bc.ca> wrote:

Hi

We are looking for info about an ITM Power project S.17

s.17 Can you provide more details about timelines for the project, whether it might be a good announceable for us?

Thanks

Robin Platts

EMPR / GCPE

250-213-6451

From: [Teramoto, Leslie JTT:EX](#)
To: [Darling, Sean D JTT:EX](#); [Sawchuk, Richard JTT:EX](#); [Horsman, Jennifer JTT:EX](#); [Irwin, Paul JTT:EX](#)
Subject: FW: ITM Power project
Date: Friday, March 16, 2018 3:25:12 PM
Attachments: [MBK&CYDcomment 18 03 XX ITM Study Evaluating The Export of Renewable H2.....docx](#)

Please see the attached trail below and my response.

From: Teramoto, Leslie JTT:EX
Sent: Friday, March 16, 2018 3:24 PM
To: Gensey, Guy EMPR:EX
Subject: RE: ITM Power project

Hi Guy,

Would it be possible to add in a quote from our Minister, after a quote from Minister Mungall? Also, not sure if Sean Darling had mentioned to you, the Consulate General of Japan was interested in this project given the Japanese partnerships it involves.

Please let me know.

Best,
Leslie

From: Gensey, Guy EMPR:EX
Sent: Friday, March 16, 2018 1:53 PM
To: Brydon, Stephen EMPR:EX; Platts, Robin GCPE:EX
Cc: Yeh, Will EMPR:EX; Beaupre, Darren GCPE:EX; Grewar, Colin GCPE:EX; Teramoto, Leslie JTT:EX; Green, Dan L EMPR:EX
Subject: RE: ITM Power project

Hi Robin: here is the draft. The content is fine with me except for the wording around this being a grant to ITM s.13 . The chart below shows the timelines for the feasibility study. Key bullets below.

s.17

Guy

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Background

The proposed project revolves around a partnership of Chiyoda Corporation, Mitsui & Co. and ITM Power (the Consortium). The objective is to produce hydrogen in BC from clean electricity, through electrolysis, and export the hydrogen to Japan and California. Some hydrogen would also be used in BC for low carbon energy use.

s.13,s.16,s.17

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We look forward to seeing firsthand the development of this type of operation, and the impact it can have on diversifying global energy sources.

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To: Platts, Robin GCPE:EX; Gensey, Guy EMPR:EX
Cc: Yeh, Will EMPR:EX; Beaupre, Darren GCPE:EX; Grewar, Colin GCPE:EX
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s.17 Can you provide more details about timelines for the project, whether it might
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Thanks

Robin Platts
EMPR / GCPE
250-213-6451

From: Densmore, Brad GCPE:EX
To: [Darling, Sean D JTT:EX](#)
Subject: FW: ITM Power project
Date: Friday, March 16, 2018 3:12:24 PM
Attachments: [MBK&CYDcomment 18 03 XX ITM Study Evaluating The Export of Renewable H2.....docx](#)

Hi Sean,

Just a quick update – EMPR GCPE has now started looking into this announcement as it was not yet on their agenda.

You may wish to contact to Guy Gensey below if you haven't already about your thoughts for an announcement – he is their usual program contact.

The announcement may have dropped off their radar as the funding was routed through JTT, even though it's an ICE announcement.

I'll keep you posted if I hear anything new – let me know if you have any thoughts our concerns so far.

From: Beaupre, Darren GCPE:EX
Sent: Friday, March 16, 2018 2:55 PM
To: Densmore, Brad GCPE:EX
Subject: FW: ITM Power project

fyi

From: Gensey, Guy EMPR:EX
Sent: Friday, March 16, 2018 1:53 PM
To: Brydon, Stephen EMPR:EX; Platts, Robin GCPE:EX
Cc: Yeh, Will EMPR:EX; Beaupre, Darren GCPE:EX; Grewar, Colin GCPE:EX; Teramoto, Leslie JTT:EX; Green, Dan L EMPR:EX
Subject: RE: ITM Power project

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s.17

Guy

s.13,s.16,s.17

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s.13,s.16,s.17

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From: Brydon, Stephen EMPR:EX
Sent: Friday, March 16, 2018 1:43 PM
To: Platts, Robin GCPE:EX; Gensey, Guy EMPR:EX
Cc: Yeh, Will EMPR:EX; Beaupre, Darren GCPE:EX; Grewar, Colin GCPE:EX
Subject: Re: ITM Power project

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Sent from my iPhone

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We are looking for info about an ITM Power project :S.17
S.17 . Can you provide more details about timelines for the project, whether it might
be a good announceable for us?

Thanks

Robin Platts
EMPR / GCPE
250-213-6451

From: [Teramoto, Leslie JTT:EX](#)
To: [Darling, Sean D JTT:EX](#)
Subject: Fwd: BC Feasibility Study Funding
Date: Thursday, March 15, 2018 2:08:24 PM
Attachments: [image001.png](#)
[ATT00001.htm](#)
[ATT00002.htm](#)

Begin forwarded message:

From: "Teramoto, Leslie JTT:EX" <Leslie.Teramoto@gov.bc.ca>
Date: March 14, 2018 at 6:10:33 PM PDT
To: "Darling, Sean D JTT:EX" <Sean.Darling@gov.bc.ca>, "XT:Mizusawa, Ichiro JTT:IN" <imizusawa@britishcolumbia.ca>, "Sawchuk, Richard JTT:EX" <Richard.Sawchuk@gov.bc.ca>, "Horsman, Jennifer JTT:EX" <Jennifer.Horsman@gov.bc.ca>
Cc: "Ommundsen, Eric JTT:EX" <Eric.Ommundsen@gov.bc.ca>, "Kan, Paul JTT:EX" <Paul.Kan@gov.bc.ca>
Subject: FW: BC Feasibility Study Funding

FYI -

From: Gensey, Guy EMPR:EX
Sent: Wednesday, March 14, 2018 5:13 PM
To: Teramoto, Leslie JTT:EX
Subject: Fwd: BC Feasibility Study Funding

Leslie: see attached. Let's discuss Friday, as I'm at globe tomorrow also and don't want to / can't deal with this during the conference.

Regards,
Guy

Begin forwarded message:

From: Stephen Jones <sj@itm-power.com>
Date: March 13, 2018 at 9:10:25 PM PDT
To: Guy Gensey <guy.gensey@gov.bc.ca>, Geoffrey Budd <geoff@gsbuddconsulting.com>
Subject: FW: BC Feasibility Study Funding

Hello Guy,
Please find attached draft wording for an announcement ITM would like to make after the contract is signed. As we are a public company we need to make sure we are transparent with our shareholders.

As you can see there is some placeholder language for you to fill in
(quote and an 'about' section)
Please review and send me any changes you would like to see.

Thanks

Steve Jones
Managing Director
ITM Power Inc.

Tel: +1 (714) 453 8141

www.itm-power.com

<https://www.linkedin.com/in/stephenjones001>

Connect with ITM Power:

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From: [XT:Mizusawa, Ichiro JTT:IN](#)
To: [Teramoto, Leslie JTT:EX](#); [Darling, Sean D JTT:EX](#); [Horsman, Jennifer JTT:EX](#); [Kan, Paul JTT:EX](#); [Ommundsen, Eric JTT:EX](#); [XT:Salsberg, Avrom JTT:IN](#); [Sawchuk, Richard JTT:EX](#); [Irwin, Paul JTT:EX](#)
Subject: ITM Power News Release : Feasibility Study in BC
Date: Thursday, March 29, 2018 12:46:44 AM

FYI

Just release today.

<http://www.itm-power.com/news-item/british-columbia-renewable-hydrogen-study>

Ichiro Mizusawa

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From: [Teramoto, Leslie JTT:EX](#)
To: [XT:Mizusawa, Ichiro JTT:IN](#); [XT:Salsberg, Avrom JTT:IN](#); [Sawchuk, Richard JTT:EX](#); [Horsman, Jennifer JTT:EX](#); [Darling, Sean D JTT:EX](#); [Kan, Paul JTT:EX](#); [XT:Potter, Rupert JTT:IN](#); [XT:Hilton, Graham JTT:IN](#); [XT:Fox, William JTT:IN](#); [Lam, Jeanette JTT:EX](#); [Cagic, Nina JTT:EX](#); [Bains, Harbs JTT:EX](#)
Cc: [Ommundsen, Eric JTT:EX](#); [Krieger, Brian JTT:EX](#)
Subject: ITM/Chiyoda/Mitsui project
Date: Wednesday, April 4, 2018 3:31:10 PM

Hi All,

Just wanted to give an update to team Japan, Clean tech team – and also an intro to Will/Jeanette and Rupert/Graham/Greg.

Last week, the BC Gov ^{s.17} announced support for a green hydrogen techno-economic feasibility study with a consortium of companies led by

- UK-based ITM Power (via their Americas - CA-based presence) and Geoff Budd Consulting
- Chiyoda Corporation (technology partner) and
- Mitsui & Co (commercial partner)

As you can see above, this project involves a consortia of companies with impacts in the UK, USA and Japan. As such, I have looped all of you in so that your teams are aware should they encounter members of these companies. We may request your assistance as this study progresses.

Please see the attached news releases which outline the project announcement –

ITM Power - <http://www.itm-power.com/news-item/british-columbia-renewable-hydrogen-study>

BC Gov - <https://news.gov.bc.ca/releases/2018EMPR0008-000523>

BC GOV

Ichiro/Japan team, NRIPS, MIO and EMPR - have been supporting this initiative since 2017.

Ichiro – please add all those in the above distribution to the innovation partnership opportunity team so they can reference the info - <https://na32.salesforce.com/0063800000ICMeJ>

As this is a feasibility study, please note that this opportunity is not the larger potential hydrogen production facility opportunity. The facility opportunity will be determined by the outcome of the study (expected completion 2019 spring).

For now, from the Vancouver/Victoria side, EMPR/Guy Gensey will be lead – and leading BC Government interaction with Geoff Budd (who is the representative leading the project).

EMPR/Guy has asked that we handle the international interactions with the companies, particularly on the Japan side.

FEASIBILITY STUDY

On April 11th there will be a kick-off meeting for the project in Vancouver at the Mitsui & Co offices.

It is likely to involve the following members:

1. Geoff Budd, Geoff Budd Consulting
2. Steve Jones, ITM Power (CA)
3. Ryosuke Takezawa, Mitsui & Co (Tokyo)
4. Jackie Lee, Mitsui & Co (Calgary)
5. Tadashi Ito, Chiyoda Corporation (Tokyo)
6. Rob Schneider, Chiyoda Corporation (Tokyo)
7. Daisuke Kurosaki, Chiyoda Corporation (Tokyo)
8. BC Hydro – (names unknown)
9. Guy Gensey, EMPR
10. Paul Kan, JTT
11. Sean Darling, JTT, MIO

12. Leslie Teramoto, JTT

We will provide an update to all once the meeting takes place. In case anyone has further questions, please let us know.

Thanks,

Leslie

Leslie Teramoto

A/ Executive Director, Natural Resources

International Business Development Ministry of

International Trade

730-999 Canada Place

Vancouver, BC V6C 3E1

Mobile: +1.604.992.0550

From: [Brydon, Stephen EMPR:EX](#)
To: [Teramoto, Leslie JTT:EX](#)
Cc: [Gensey, Guy EMPR:EX](#); [Green, Dan L EMPR:EX](#); [Irwin, Paul JTT:EX](#); [Darling, Sean D JTT:EX](#); [Sawchuk, Richard JTT:EX](#); [Horsman, Jennifer JTT:EX](#)
Subject: Re: Chiyoda Hydrogen Project - Information disclosure
Date: Thursday, February 1, 2018 5:31:40 PM

Thanks Leslie, look forward to receiving further information on the general statement on Chiyoda.

Also, can you provide any context on the planned broader media announcement?

Thanks
Stephen

Sent from my iPhone

On Feb 1, 2018, at 5:07 PM, Teramoto, Leslie JTT:EX <Leslie.Teramoto@gov.bc.ca> wrote:

Good afternoon,

Guy, Stephen and Dan - I wanted to give you a heads up on this as there is a planned media announcement tomorrow. I just checked with Hope from our GCPE team. There is a general statement about Chiyoda and their hydrogen pursuits in the speaking notes for MBR but no specific reference as per Paul's direction to GCPE below.

I've asked Hope to send the info to me, and once received I will forward it to you for your reference. I want to ensure your team is comfortable with what is being released given ITM/Chiyoda/Mitsui's current request with EMPR.

Thanks,
Leslie

From: Irwin, Paul JTT:EX
Sent: Thursday, February 1, 2018 4:13 PM
To: Teramoto, Leslie JTT:EX; Horsman, Jennifer JTT:EX; Hickli, Hope A GCPE:EX
Cc: Sawchuk, Richard JTT:EX; Darling, Sean D JTT:EX
Subject: FW: Chiyoda Hydrogen Project - Information disclosure

FYI – I know that MBR was particularly impressed by his visit with Chiyoda and discussions on a possible hydrogen production facility in BC. We've confirmed that MBR is able to reference Chiyoda's hydrogen project – a collaboration with Mitsui and Mitsubishi – more broadly (see attached overview) – but not about the specifics of a possible feasibility study leading to an investment in BC! No need to update any MBR speaking notes for the event tomorrow or anything – this is just for info/background.

From: Mizusawa Ichiro -TOKYO [mailto:imizusawa@britishcolumbia.ca]
Sent: Wednesday, January 31, 2018 12:35 AM
To: Irwin, Paul JTT:EX
Cc: XT:Salsberg, Avrom JTT:IN
Subject: Chiyoda Hydrogen Project - Information disclosure

Hi Paul,

I have confirmed with Chiyoda that we can discuss the project publicly except the following pages of the presentation slides “**Introduction of Hydrogen Supply Chain**”:

- 5.1 The World’s First Global Hydrogen Supply Chain Demonstration Project – Slide No. 20, 21 and 22
- 6. Potential Feasibility Study – Slide No. 26, 27, 28 and 29

We can also refer attached press release. It should be changed after Chiyoda team would start feasibility study.

If you have any questions, please let me know.

Ichiro Mizusawa

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<AHEAD Project[1].pdf>

From: [XT:Mizusawa, Ichiro JTT:IN](#)
To: [Teramoto, Leslie JTT:EX](#)
Cc: [Darling, Sean D JTT:EX](#); [Irwin, Paul JTT:EX](#); [XT:Salsberg, Avrom JTT:IN](#); [Horsman, Jennifer JTT:EX](#); [Sawchuk, Richard JTT:EX](#)
Subject: Re: Confidential - Chiyoda/ ITM/ Mitsui
Date: Monday, March 5, 2018 7:10:57 PM

Hi Leslie,

I had a meeting with Chiyoda and Mitsui:
<https://na32.salesforce.com/00U3800000QFPOf>

Naturally Geoff, Chiyoda and Mitsui think it's from ICE fund. It is still not clear what "funding – not from EMPR but from JTT" really means. Is that from another source...?

Ichiro Mizusawa

From: "Teramoto, Leslie JTT:EX" <Leslie.Teramoto@gov.bc.ca>
Date: 2018年2月27日火曜日 9:42
To: [Salsberg Avrom](mailto:asalsberg@britishcolumbia.ca) <asalsberg@britishcolumbia.ca>, [Ichiro Mizusawa](mailto:imizusawa@britishcolumbia.ca) <imizusawa@britishcolumbia.ca>, "Sawchuk, Richard JTT:EX" <Richard.Sawchuk@gov.bc.ca>, "Horsman, Jennifer JTT:EX" <Jennifer.Horsman@gov.bc.ca>
Cc: "Darling, Sean D JTT:EX" <Sean.Darling@gov.bc.ca>, "Irwin, Paul JTT:EX" <Paul.Irwin@gov.bc.ca>
Subject: Confidential - Chiyoda/ ITM/ Mitsui

Hi

Geoff Budd had requested a meeting with EMPR (Guy Gensey/ Stephen Brydon) to discuss the funding application. The meeting took place today, with Sean included.

**Please keep this extremely confidential / for internal information only - sounds like Chiyoda/ITM/Mitsui project will get their funding – not from EMPR but from JTT. Geoff and the ITM/Chiyoda/Mitsui have not been informed of this yet.

Funding mechanism is TBC. Sean is working on it with our DMO – in coordination with EMPR.

Sean will have SalesForce updated with notes from today's meeting.

Thanks,

Leslie

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From: Densmore, Brad GCPE:EX
To: [Darling, Sean D JTT:EX](#)
Subject: RE: Contact info
Date: Monday, March 19, 2018 10:42:34 AM

Thanks Sean. And yes we'd go through IGRS for the latter quote.
Typically EMPR GCPE will flag this on our shared calendar and send a draft news release, at which time I'll gather the necessary quotes. Similar process if there is an event.

Brad

From: Darling, Sean D JTT:EX
Sent: Monday, March 19, 2018 9:12 AM
To: Densmore, Brad GCPE:EX
Subject: RE: Contact info
Importance: High

Hi Brad,

I have reviewed the materials and am working with Guy Gensey at EMPR. Looks good so far. I understand that you will take care of the MBR and Consul General aspect of the release in consultation with Collin.

Please let me know if that's correct.

Cheers!

Sean Darling PHDc
Executive Project Director
Major Investments Office
Ministry of Jobs, Trade
and Technology
250-356-7520
Cell: s.17

From: Densmore, Brad GCPE:EX
Sent: Thursday, March 15, 2018 12:46 PM
To: Darling, Sean D JTT:EX
Subject: RE: Contact info

Thanks Sean,

I'll touch base Collin to ensure we are kept in the loop as well and mention the opportunity for a MBR quote and Consul general.

Otherwise the usual process would be for you to go through your program area contact at Energy and Mines with your suggestions for the announcement – they should relay those up to their GCPE shop.

Thanks for the update – let me know if you have any questions.

Brad

From: Darling, Sean D JTT:EX
Sent: Thursday, March 15, 2018 10:55 AM
To: Densmore, Brad GCPE:EX
Subject: RE: Contact info
Importance: High

Hi Brad,

The project is for ITM Power. GCPE lead for Energy and Mines is Collin Grewar.

We wanted to consider giving some mention of JTT support (International Business Development

Division with Leslie Teramoto and her team, MIO, and of course TIR and Geo teams globally have supported this one) and perhaps a quote from MBR? He did visit the Chiyoda facility – Chiyoda being a partner in the consortium with ITM Power.

The Consul General of Japan in Vancouver is also very interested in this potential announcement. Perhaps a consideration of a quote from them as well if appropriate? Recognize the funding is streaming to ITM, but that there are two other Japanese partners in this feasibility study venture.

I understand there is a draft news release and it would be good if we could review.

Please let me know how I can assist and how best to proceed.

Cheers!

Sean Darling PHDc

Executive Project Director

Major Investments Office

Ministry of Jobs, Trade

and Technology

250-356-7520

Cell: s.17

From: Densmore, Brad GCPE:EX
To: [Darling, Sean D JTT:EX](#)
Subject: RE: Contact info
Date: Thursday, March 15, 2018 12:46:15 PM

Thanks Sean,

I'll touch base Collin to ensure we are kept in the loop as well and mention the opportunity for a MBR quote and Consul general.

Otherwise the usual process would be for you to go through your program area contact at Energy and Mines with your suggestions for the announcement – they should relay those up to their GCPE shop.

Thanks for the update – let me know if you have any questions.

Brad

From: Darling, Sean D JTT:EX
Sent: Thursday, March 15, 2018 10:55 AM
To: Densmore, Brad GCPE:EX
Subject: RE: Contact info
Importance: High

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The project is for ITM Power. GCPE lead for Energy and Mines is Collin Grewar.

We wanted to consider giving some mention of JTT support (International Business Development Division with Leslie Teramoto and her team, MIO, and of course TIR and Geo teams globally have supported this one) and perhaps a quote from MBR? He did visit the Chiyoda facility – Chiyoda being a partner in the consortium with ITM Power.

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I understand there is a draft news release and it would be good if we could review.

Please let me know how I can assist and how best to proceed.

Cheers!

Sean Darling PHDc
Executive Project Director
Major Investments Office
Ministry of Jobs, Trade

and Technology
250-356-7520
Cell: s.17

From: Densmore, Brad GCPE:EX
Sent: Thursday, March 15, 2018 10:33 AM
To: Darling, Sean D JTT:EX
Subject: Contact info

Hi Sean – thanks for touching base. If it's being led by Energy and Mines it would likely be their GCPE who takes the lead on an announcement, but I'm happy to get the rundown and go from there.

Note: EMPR has a news release planned relating to ICE in April – I don't think this is the one that you mentioned?

Funding for High-Performance, Net Zero Energy Ready Buildings

NR to announce \$250,000 from the Innovative Clean Energy (ICE) Fund for a suite of programs to support B.C.'s building sector and local governments to make the market transformation to high-performance, net zero energy ready new buildings by 2032.

Cheers
Brad

Brad Densmore | Manager, Media Relations and Issues Management
Ministry of Jobs, Trade and Technology
Government Communications and Public Engagement
Cell: 778.584.0480

From: [Irwin, Paul JTT:EX](#)
To: [Teramoto, Leslie JTT:EX](#); [Darling, Sean D JTT:EX](#); [Sawchuk, Richard JTT:EX](#); [Horsman, Jennifer JTT:EX](#)
Subject: RE: ITM Power project
Date: Monday, March 19, 2018 10:18:10 AM

Thanks Leslie. Important to note that this announcement also has ties to the PJH/MBR/MGC mission to Japan earlier this year. Minister Ralston will be particularly enthusiastic about this update, given his visit to the Chiyoda hydrogen production facility as part of the mission. /Paul

From: Teramoto, Leslie JTT:EX
Sent: Friday, March 16, 2018 3:25 PM
To: [Darling, Sean D JTT:EX](#); [Sawchuk, Richard JTT:EX](#); [Horsman, Jennifer JTT:EX](#); [Irwin, Paul JTT:EX](#)
Subject: FW: ITM Power project

Please see the attached trail below and my response.

From: Teramoto, Leslie JTT:EX
Sent: Friday, March 16, 2018 3:24 PM
To: [Gensey, Guy EMPR:EX](#)
Subject: RE: ITM Power project

Hi Guy,

Would it be possible to add in a quote from our Minister, after a quote from Minister Mungall? Also, not sure if Sean Darling had mentioned to you, the Consulate General of Japan was interested in this project given the Japanese partnerships it involves.

Please let me know.

Best,
Leslie

From: [Gensey, Guy EMPR:EX](#)
Sent: Friday, March 16, 2018 1:53 PM
To: [Brydon, Stephen EMPR:EX](#); [Platts, Robin GCPE:EX](#)
Cc: [Yeh, Will EMPR:EX](#); [Beaupre, Darren GCPE:EX](#); [Grewar, Colin GCPE:EX](#); [Teramoto, Leslie JTT:EX](#); [Green, Dan L EMPR:EX](#)
Subject: RE: ITM Power project

Hi Robin: here is the draft. The content is fine with me except for the wording around this being a grant to ITM s.13 . The chart below shows the timelines for the feasibility study. Key bullets below.

s.17

Guy

Centralized Renewable Hydrogen Production in BC

Background

The proposed project revolves around a partnership of Chiyoda Corporation, Mitsui & Co. and ITM Power (the Consortium). The objective is to produce hydrogen in BC from clean electricity, through electrolysis, and export the hydrogen to Japan and California. Some hydrogen would also be used in BC for low carbon energy use.

s.13,s.16,s.17

The Consortium has been working with the Ministry of Energy, Mines and Petroleum Resources (EMPR), Electricity and Alternative Energy Division on funding for the feasibility study. They originally approached the Innovative Clean Energy s.17
s.17 the Ministry of Jobs, Trade and Technology has agreed to direct \$230,000 through EMPR for the feasibility study. The payment is currently being processed.

BC Hydro has committed \$60,000 in-kind support to study plant location, transmission upgrade requirements and interconnection costs.

s.16,s.21

Discussion

It is very encouraging to hear that ITM Power, Chiyoda and Mitsui are seeking to advance this hydrogen production project which utilizes BC clean power. It provides BC with a unique opportunity for renewable hydrogen energy export.

This project is consistent with EMPR's goal of decarbonizing BC's energy use to reduce our impact on climate change and establish a new diversified foundation for our economy.

Hydrogen production is very energy-intensive and generating hydrogen produced from BC's clean electricity is a cost-effective and low-carbon energy solution.

s.17

Conclusion

There is a growing demand for hydrogen in parts of the world that are leading the transition away from conventional energy sources, and clean energy like hydrogen is needed for both motive and stationary power applications.

With BC's clean, low-cost electricity, the province is strongly positioned as a potential producer and exporter of renewable hydrogen generated via electrolysis.

We look forward to seeing firsthand the development of this type of operation, and the impact it can have on diversifying global energy sources.

From: Brydon, Stephen EMPR:EX
Sent: Friday, March 16, 2018 1:43 PM
To: Platts, Robin GCPE:EX; Gensey, Guy EMPR:EX
Cc: Yeh, Will EMPR:EX; Beaupre, Darren GCPE:EX; Grewar, Colin GCPE:EX
Subject: Re: ITM Power project

Guy, please follow up. Thanks

Sent from my iPhone

On Mar 16, 2018, at 1:39 PM, Platts, Robin GCPE:EX <Robin.Platts@gov.bc.ca> wrote:

Hi

We are looking for info about an ITM Power project s.17
s.17 Can you provide more details about timelines for the project, whether it might
be a good announceable for us?

Thanks

Robin Platts
EMPR / GCPE
250-213-6451

From: [Teramoto, Leslie JTT:EX](#)
To: [Darling, Sean D JTT:EX](#)
Subject: RE: ITM Power project
Date: Monday, March 19, 2018 9:21:00 AM

Thanks Sean. Perhaps EMPR has a different policy. And yes, hope we get to see it.

Best,
Leslie

From: Darling, Sean D JTT:EX
Sent: Monday, March 19, 2018 9:20 AM
To: Teramoto, Leslie JTT:EX
Subject: RE: ITM Power project

Hi,

I just noticed that Guy is having staff quoted in his draft announcement so I thought if he does that we should to. Otherwise I agree.

I hope we get a chance to see it. I will ask Brad to make sure we see the draft before it goes. Will pass by you when/if I get it.

Cheers!

From: Teramoto, Leslie JTT:EX
Sent: Monday, March 19, 2018 9:18 AM
To: Darling, Sean D JTT:EX
Subject: RE: ITM Power project

Hi

Generally only the Minister is quoted if from the Ministry? Or that's what we have been told. Really appreciate you following up on this. Will we get to see the draft before it goes out?

Cheers,
Leslie

From: Darling, Sean D JTT:EX
Sent: Monday, March 19, 2018 9:16 AM
To: Teramoto, Leslie JTT:EX
Subject: RE: ITM Power project

Hi Leslie,

I'm confirming with Brad at GCPE that he is covering off the Ministers quote as well as Consul General. I also thought of suggesting to Guy that we add in the following, maybe from someone in your division?

[name, title] at BC JTT, added: "BC has made great progress in working with companies around the world to promote interest in BC investment opportunities. We are pleased to see these companies exploring BC's potential to support the low carbon economy on a global scale."

From: Teramoto, Leslie JTT:EX
Sent: Friday, March 16, 2018 4:06 PM
To: Darling, Sean D JTT:EX
Subject: RE: ITM Power project

Thanks!!

From: Darling, Sean D JTT:EX
Sent: Friday, March 16, 2018 3:42 PM
To: Teramoto, Leslie JTT:EX
Subject: RE: ITM Power project

Will do!

From: Teramoto, Leslie JTT:EX
Sent: Friday, March 16, 2018 3:41 PM
To: Darling, Sean D JTT:EX
Subject: FW: ITM Power project

Can you work on this with GCPE JTT – to GCPE EMPR?

From: Gensey, Guy EMPR:EX
Sent: Friday, March 16, 2018 3:28 PM
To: Teramoto, Leslie JTT:EX
Subject: RE: ITM Power project

Hi Leslie: the Consulate seems a bit of a stretch, but I'm not a communications guy. Perhaps your GCPE manager could touch base with Darren Beaupre, our GCPE Manager?
Guy

From: Teramoto, Leslie JTT:EX
Sent: Friday, March 16, 2018 3:24 PM
To: Gensey, Guy EMPR:EX
Subject: RE: ITM Power project

Hi Guy,

Would it be possible to add in a quote from our Minister, after a quote from Minister Mungall? Also, not sure if Sean Darling had mentioned to you, the Consulate General of Japan was interested in this project given the Japanese partnerships it involves.

Please let me know.

Best,
Leslie

From: [Bains, Harbs JTT:EX](#)
To: [XT:Hilton, Graham JTT:IN](#); [Teramoto, Leslie JTT:EX](#); [XT:Mizusawa, Ichiro JTT:IN](#); [XT:Salsberg, Avrom JTT:IN](#); [Sawchuk, Richard JTT:EX](#); [Horsman, Jennifer JTT:EX](#); [Darling, Sean D JTT:EX](#); [Kan, Paul JTT:EX](#); [XT:Potter, Rupert JTT:IN](#); [XT:Fox, William JTT:IN](#); [Lam, Jeanette JTT:EX](#); [Cagic, Nina JTT:EX](#)
Cc: [Ommundsen, Eric JTT:EX](#); [Krieger, Brian JTT:EX](#)
Subject: RE: ITM/Chiyoda/Mitsui project
Date: Thursday, April 5, 2018 12:36:24 PM

Leslie,
Good afternoon.
This is great news for BC.
Graham is bang on ... re: BC companies.
Thanks.
Regards,
Harbs

From: Hilton Graham -EUROPE [<mailto:ghilton@britishcolumbia.ca>]
Sent: Thursday, April 5, 2018 8:42 AM
To: [Teramoto, Leslie JTT:EX](#); [XT:Mizusawa, Ichiro JTT:IN](#); [XT:Salsberg, Avrom JTT:IN](#); [Sawchuk, Richard JTT:EX](#); [Horsman, Jennifer JTT:EX](#); [Darling, Sean D JTT:EX](#); [Kan, Paul JTT:EX](#); [XT:Potter, Rupert JTT:IN](#); [XT:Fox, William JTT:IN](#); [Lam, Jeanette JTT:EX](#); [Cagic, Nina JTT:EX](#); [Bains, Harbs JTT:EX](#)
Cc: [Ommundsen, Eric JTT:EX](#); [Krieger, Brian JTT:EX](#)
Subject: RE: ITM/Chiyoda/Mitsui project

Thanks Leslie

Looks interesting.

The only addition from here is that I have reached out to ITM, both locally and at Hannover Messe, as they have strong connections with Greenlight Innovation in BC. Greenlight were involved in the Hydrogen fuel dispensing equipment which ITM supplied for Shell in the UK, and we brokered some discussion with BMW.

To date we have been told that the Fuel Cell work is being driven by their North American Office, as suggested in your note, but will speak with them again at Hannover later this month.

Incidentally, my take on a major part of BC's advantage in the fuel cell market (from the Hydrogen trip I accompanied Chris Gilmore on, while in town for Globe) is the presence of independent testing. The manufacturing capacity is well known, but the development of standards, by Powertech Labs amongst others, also benefits BC significantly.

The Canadian Hydrogen Fuel Cell Association (of which Ross Bailey, from Greenlight is this year's Chairman) have a stand at Hannover featuring 3 BC based test houses, Powertech, CSA Group (Toronto HQ but Fuel Cells in Langley) and Intertek (global but Fuel Cell work based in Coquitlam). Hope not preaching to the choir, but features large when talking to European motor companies and utilities.

Look forward to hearing more and happy to do any other digging as required.

Best Regards

Graham

Graham Hilton

Trade & Investment Specialist - Europe

British Columbia Ministry of Jobs, Trade & Technology

WeWork Aldwych House, 71-91 Aldwych, London WC2B 4HN

M +44 (0)7824 308656

ghilton@britishcolumbia.ca

<https://www.britishcolumbia.ca>

From: [Teramoto, Leslie JTT:EX](#) [<mailto:Leslie.Teramoto@gov.bc.ca>]

Sent: 04 April 2018 23:31

To: Mizusawa Ichiro -TOKYO <imizusawa@britishcolumbia.ca>; Salsberg Avrom -TOKYO -MD <asalsberg@britishcolumbia.ca>; Sawchuk, Richard JTT:EX <Richard.Sawchuk@gov.bc.ca>; Horsman, Jennifer JTT:EX <Jennifer.Horsman@gov.bc.ca>; Darling, Sean D JTT:EX <Sean.Darling@gov.bc.ca>; Kan, Paul JTT:EX <Paul.Kan@gov.bc.ca>; Potter Rupert - EUROPE <rpotter@britishcolumbia.ca>; Hilton Graham -EUROPE <ghilton@britishcolumbia.ca>; Fox William - PALO ALTO -MD <wfox@britishcolumbia.ca>; Lam, Jeanette JTT:EX <Jeanette.Lam@gov.bc.ca>; Cagic, Nina JTT:EX <Nina.Cagic@gov.bc.ca>; Bains, Harbs JTT:EX <Harbs.Bains@gov.bc.ca>
Cc: Ommundsen, Eric JTT:EX <Eric.Ommundsen@gov.bc.ca>; Krieger, Brian JTT:EX <Brian.Krieger@gov.bc.ca>

Subject: ITM/Chiyoda/Mitsui project

Hi All,

Just wanted to give an update to team Japan, Clean tech team – and also an intro to Will/Jeanette and Rupert/Graham/Greg.

Last week, the BC Gov ^{s.17} announced support for a green hydrogen techno-economic feasibility study with a consortium of companies led by

- UK-based ITM Power (via their Americas - CA-based presence) and Geoff Budd Consulting
- Chiyoda Corporation (technology partner) and
- Mitsui & Co (commercial partner)

As you can see above, this project involves a consortia of companies with impacts in the UK, USA and Japan. As such, I have looped all of you in so that your teams are aware should they encounter members of these companies. We may request your assistance as this study progresses.

Please see the attached news releases which outline the project announcement –

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BC Gov - <https://news.gov.bc.ca/releases/2018EMPR0008-000523>

BC GOV

Ichiro/Japan team, NRIPS, MIO and EMPR - have been supporting this initiative since 2017.

Ichiro – please add all those in the above distribution to the innovation partnership opportunity team so they can reference the info - <https://na32.salesforce.com/0063800000ICMeJ>

As this is a feasibility study, please note that this opportunity is not the larger potential hydrogen production facility opportunity. The facility opportunity will be determined by the outcome of the study (expected completion 2019 spring).

For now, from the Vancouver/Victoria side, EMPR/Guy Gensey will be lead – and leading BC Government interaction with Geoff Budd (who is the representative leading the project).

EMPR/Guy has asked that we handle the international interactions with the companies, particularly on the Japan side.

FEASIBILITY STUDY

On April 11th there will be a kick-off meeting for the project in Vancouver at the Mitsui & Co offices.

It is likely to involve the following members:

1. Geoff Budd, Geoff Budd Consulting
2. Steve Jones, ITM Power (CA)
3. Ryosuke Takezawa, Mitsui & Co (Tokyo)
4. Jackie Lee, Mitsui & Co (Calgary)
5. Tadashi Ito, Chiyoda Corporation (Tokyo)
6. Rob Schneider, Chiyoda Corporation (Tokyo)

7. Daisuke Kurosaki, Chiyoda Corporation (Tokyo)
8. BC Hydro – (names unknown)
9. Guy Gensey, EMPR
10. Paul Kan, JTT
11. Sean Darling, JTT, MIO
12. Leslie Teramoto, JTT

We will provide an update to all once the meeting takes place.

In case anyone has further questions, please let us know.

Thanks,

Leslie

Leslie Teramoto

A/ Executive Director, Natural Resources

International Business Development

Ministry of International Trade

730-999 Canada Place

Vancouver, BC V6C 3E1

Mobile: +1.604.992.0550

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From: [Teramoto, Leslie JTT:EX](#)
To: [Darling, Sean D JTT:EX](#)
Cc: [Sawchuk, Richard JTT:EX](#); [Horsman, Jennifer JTT:EX](#); [XT:Mizusawa, Ichiro JTT:IN](#)
Subject: RE: Status of Funding
Date: Wednesday, March 14, 2018 4:10:01 PM

Hi

Can you please coordinate with GCPE – we wanted to ensure there was some mention of JTT support (your team, our team, and of course TIR and Geo teams have supported this one) and perhaps a quote from MBR? He did visit the Chiyoda facility – Chiyoda being a partner in the consortium with ITM Power.

As mentioned on the phone the other day, The Consul General of Japan in Vancouver is also very interested in this potential announcement. Perhaps a consideration of a quote from them as well if appropriate? Recognize the funding is streaming to ITM, but that there are two other Japanese partners in this feasibility study venture.

Lastly, I had sent Guy a quick message to ask if we could see the draft news release that he has.

Copying Richard Sawchuk, Jennifer Horsman and Ichiro in on this so everyone is in the loop.

Thanks,
Leslie

From: Darling, Sean D JTT:EX
Sent: Wednesday, March 14, 2018 4:00 PM
To: Teramoto, Leslie JTT:EX
Subject: RE: Status of Funding

Hi,

Do you want to give a heads up to our GCEP contact? Otherwise I can.

I have not had the second meeting with Geoff yet as he has not returned my calls.

Sorry, was going to update sales force but getting a license is a bit of a challenge. Here is what I would enter:

- February 26, 2018:
- 1.5 hour meeting with Geoff Budd of ITM and representatives from MEMPR and MIO to discuss s.17 proposal. Discussions focused on the work requirements related to the environmental regulatory aspects of the project. Guy Gensey of MEMPR emphasized the need to have some detail within the feasibility study addressing environmental aspects of the project. MIO provided an overview of some of the general considerations and offered to support Geoff as he moves forward. All participants agreed that s.13,s.17 approved funding would be required to support the exploring environmental aspects of the

project.

- Agreed that the assessment of environmental considerations would likely take the form of a high level road map. Detailed environmental considerations could not be accomplished with a s.13,s.17

Cheers!

From: Teramoto, Leslie JTT:EX
Sent: Wednesday, March 14, 2018 3:21 PM
To: Darling, Sean D JTT:EX
Subject: RE: Status of Funding

Hi

Did you connect with GCPE on this? Or did you want me to? Ichiro Mizusawa from TIR Tokyo is here for GLOBE. He mentioned that Guy Gensey already has a draft NR?

Also, grateful for your bullets on the two meetings you have had on the file so we can update Salesforce – unless you were able to get a license for access? Did Maija contact you?

Thx
Leslie

From: Darling, Sean D JTT:EX
Sent: Monday, March 12, 2018 12:07 PM
To: Teramoto, Leslie JTT:EX
Subject: Status of Funding

Hi Leslie,

Talked to Stephen Brydon about the ICE funding. A quick update:

- Contribution Agreement: will be modelled on ICE documents and be entered into with ITM Power
- Amount: \$230
- Status: Must be signed before March 31, 2018. Currently negotiating with Geoff Budd and ITM for greater specificity on some of the deliverables.
- Announcement: GCPE lead for Energy and Mines is Collin Grewar. Our GCPE lead should connect with Collin regarding any interest we have and coordinating possible announcements. Stephen mentioned there may be concerns with involving Mitsui or Chiyoda as ITM is the agreement holder, but then again it may not be a concern.

Will let you know if I here from Geoff today.

Cheers!

Sean Darling PHDc

Executive Project Director
Major Investments Office
Ministry of Jobs, Trade and
Technology
250-356-7520
Cell: 5.17

From: Ichiro Mizusawa <imizusawa@britishcolumbia.ca>

Date: 2018年3月26日月曜日 17:23

To: "Teramoto, Leslie JTT:EX" <Leslie.Teramoto@gov.bc.ca>

Cc: "Darling, Sean D JTT:EX" <Sean.Darling@gov.bc.ca>, "Horsman, Jennifer JTT:EX" <Jennifer.Horsman@gov.bc.ca>, "Kan, Paul JTT:EX" <Paul.Kan@gov.bc.ca>, "Ommundsen, Eric JTT:EX" <Eric.Ommundsen@gov.bc.ca>, "Sawchuk, Richard JTT:EX" <Richard.Sawchuk@gov.bc.ca>, Salsberg Avrom <asalsberg@britishcolumbia.ca>

Subject: Re: Chiyoda Feasibility Study

Hi,

I had a meeting with Chiyoda and Mitsui. The project members will gather in Vancouver in the week of April 9 for a kick-off meeting.

<https://na32.salesforce.com/00U3800000Pjsb5>

Ichiro Mizusawa

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From: [Teramoto, Leslie JTT:EX](#)
To: [Darling, Sean D JTT:EX](#)
Subject: FW: Chiyoda Feasibility Study
Date: Monday, March 26, 2018 9:21:55 AM

From: Mizusawa Ichiro -TOKYO [mailto:imizusawa@britishcolumbia.ca]
Sent: Monday, March 26, 2018 1:27 AM
To: Teramoto, Leslie JTT:EX
Subject: Re: Chiyoda Feasibility Study
**Guy will be attending the kick-off from BC Gov side...
Please sort things out in an appropriate way on your
end.**
Thanks.

From: Ichiro Mizusawa <imizusawa@britishcolumbia.ca>

Date: 2018年3月26日月曜日 17:23

To: "Teramoto, Leslie JTT:EX" <Leslie.Teramoto@gov.bc.ca>

Cc: "Darling, Sean D JTT:EX" <Sean.Darling@gov.bc.ca>, "Horsman, Jennifer JTT:EX" <Jennifer.Horsman@gov.bc.ca>, "Kan, Paul JTT:EX" <Paul.Kan@gov.bc.ca>, "Ommundsen, Eric JTT:EX" <Eric.Ommundsen@gov.bc.ca>, "Sawchuk, Richard JTT:EX" <Richard.Sawchuk@gov.bc.ca>, Salsberg Avrom <asalsberg@britishcolumbia.ca>

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Ichiro Mizusawa

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From: [XT:Mizusawa, Ichiro JTT:IN](#)
To: [Teramoto, Leslie JTT:EX](#)
Cc: [Darling, Sean D JTT:EX](#); [Irwin, Paul JTT:EX](#); [XT:Salsberg, Avrom JTT:IN](#); [Horsman, Jennifer JTT:EX](#); [Sawchuk, Richard JTT:EX](#)
Subject: Re: Confidential - Chiyoda/ ITM/ Mitsui
Date: Monday, March 5, 2018 7:10:57 PM

Hi Leslie,

I had a meeting with Chiyoda and Mitsui:
<https://na32.salesforce.com/00U3800000QFPOf>

Naturally Geoff, Chiyoda and Mitsui think it's from ICE fund. It is still not clear what "funding – not from EMPR but from JTT" really means. Is that from another source...?

Ichiro Mizusawa

From: "Teramoto, Leslie JTT:EX" <Leslie.Teramoto@gov.bc.ca>
Date: 2018年2月27日 火曜日 9:42
To: [SalsbergAvrom <SalsbergAvrom@britishcolumbia.ca>](mailto:SalsbergAvrom@britishcolumbia.ca), [Ichiro Mizusawa <IchiroMizusawa@britishcolumbia.ca>](mailto:IchiroMizusawa@britishcolumbia.ca), ["Sawchuk, Richard JTT:EX" <Richard.Sawchuk@gov.bc.ca>](mailto:Sawchuk, Richard JTT:EX), ["Horsman, Jennifer JTT:EX" <Jennifer.Horsman@gov.bc.ca>](mailto:Horsman, Jennifer JTT:EX)
Cc: "Darling, Sean D JTT:EX" <Sean.Darling@gov.bc.ca>, "Irwin, Paul JTT:EX" <Paul.Irwin@gov.bc.ca>
Subject: Confidential - Chiyoda/ ITM/ Mitsui

Hi

Geoff Budd had requested a meeting with EMPR (Guy Gensey/ Stephen Brydon) to discuss the funding application. The meeting took place today, with Sean included.

**Please keep this extremely confidential / for internal information only - sounds like Chiyoda/ITM/Mitsui project will get their funding – not from EMPR but from JTT. Geoff and the ITM/Chiyoda/Mitsui have not been informed of this yet.

Funding mechanism is TBC. Sean is working on it with our DMO – in coordination with EMPR. Sean will have Salesforce updated with notes from today's meeting.

Thanks,
Leslie

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