

24 October 2022

Alexandra Humphries 1 Liverpool Street Hobart TAS 7000

By email: humphries.alex@abc.net.au

Dear Ms Humphries,

RIGHT TO INFORMATION ACT 2009 – APPLICATION FOR ASSESSED DISCLOSURE – CRYPTOCURRENCY MINING IN TASMANIA

I refer to your application for assessed disclosure dated 6 July 2022 (**Application**) made pursuant to section 13 of the Right to Information Act 2009 (**the Act**) and received by Hydro Tasmania (**HT**) on 6 July 2022.

1 YOUR REQUEST

You have requested a copy of the following:

"Any and all reports, information and internal correspondence related to Crypto Currency mining in Tasmania since 1 January 2021, including existing operations, potential operations, and broader references to the industry."

(here referred to as the Request)

2 DELEGATION

Section 21 of the Act provides that a decision on the Application is to be made by the principal officer of HT, or a delegated officer.

In making this decision, I am exercising powers delegated to me by HT's principal officer under section 24 of the Act.



3 APPLICATION FEE & ACCEPTANCE OF APPLICATION

The Application requests a waiver of the application fee on the basis that, in making the Request, you are a journalist acting in connection with your professional duties per section 16(2)(ba) of the Act. I have determined to waive the application fee on that basis.

Following receipt of the Application I determined that the Request was clear and unambiguous, therefore there was no need to enter into negotiations under section 13(7) of the Act. As a result, the Application was accepted for assessment on 6 July 2022.

4 EXTENSIONS OF TIME & DE-IDENTIFICATION

I confirm that on several occasions you have agreed to extend the timeframe in which HT is required to notify you of a decision on the Application (per section 15(4) of the Act). These extensions, plus 3rd party consultation conducted in accordance with section 37(2) of the Act, have resulted in a deadline of Monday, 24 October 2022 by which HT must notify you of its decision on the Application.

I also confirm that you are content for any information relevant to the Request to be de-identified prior to disclosure (e.g. redaction of names, position details, contact details, locations, etc).

5 SEARCHES

I have caused HT's records to be thoroughly searched for information which comes within the scope of the Request. Those searches identified a range of documents responsive to the Request that fall within the following general categories:

- a. Ministerial communications;
- b. internal HT communications (predominantly emails);
- c. external communications with persons/organisations concerned with cryptocurrency mining (predominantly emails);
- d. confidential commercial documents; and
- e. publicly available materials.

(here referred to as the **Identified Information**)

6 ASSESSMENT OF EXEMPTIONS

6.1 Relevant sections of Act

The Act provides that certain information is exempt from release in response to an application for assessed disclosure. I have assessed the Identified Information in accordance with the Act and determined that the following exemptions apply to the Identified Information:

- a. section 27 (Internal briefing information of a Minister);
- b. section 31 (Legal professional privilege);
- c. section 35 (Internal deliberative information);



- d. section 36 (Personal information of a person);
- e. section 37 (Information relating to business affairs of third party);
- f. section 38 (Information relating to business affairs of public authority); and
- g. section 39 (Information obtained in confidence).

The exemptions prescribed in sections 35, 36, 37, 38 and 39 of the Act are subject to the public interest test set out in section 33 of the Act, whilst the exemptions prescribed in sections 27 and 31 are not.

6.2 Assessment

Section 27 (Internal briefing information of a Minister

- a. Information is exempt from disclosure under the Act if it consists of:
 - i. an opinion, advice or a recommendation prepared by an officer of a public authority or a Minister; or
 - ii. a record of consultations or deliberations between officers of public authorities and Ministers:

in the course of, or for the purpose of, providing a Minister with a briefing in connection with the official business of a public authority, a Minister or the Government and in connection with the Minister's parliamentary duty.

- b. Sub-sections 27(2), (3) and (4) of the Act prescribe exceptions to the exemption in sub-section 27(1), however I have determined that these exceptions do not apply under the circumstances.
- c. I have determined that the exemption in sub-section 27(1) applies to parts of the Identified Information, being:
 - i. advice and/or recommendations prepared by officers of HT; and
 - ii. records of consultations and/or deliberations involving HT officers,

in the course of, or for the purpose of, HT providing Ministers with briefings in connection with HT's official business.

Section 31 (Legal professional privilege)

- d. Information is exempt information for the purposes of the Act if it is of such a nature that the information would be privileged from production in legal proceedings on the ground of legal professional privilege.
- e. Legal professional privilege attaches to confidential communications passing between a client and their legal advisor made for the dominant purpose of enabling the client to obtain legal advice, or for the purpose of actual or contemplated litigation. Legal professional privilege also attaches to certain communications between third parties, the relevant client and the relevant solicitor.



f. I have determined that some of the Identified Information is subject to legal professional privilege on the basis that it constitutes confidential communications between HT and its legal advisors for the purpose of providing legal advice to HT.

Section 35 (Internal deliberative information)

- g. Information is capable of being exempt information for the purposes of the Act if it consists of:
 - i. an opinion, advice or recommendation prepared by an officer of a public authority; or
 - ii. a record of consultations or deliberations between officers of public authorities,

in the course of, or for the purpose of, the deliberative processes related to the official business of a public authority.

- h. Section 5(1) of the Act defines an 'officer' as, in relation to a public authority, including a member of the public authority, a member of the staff of the public authority and any person employed by or for the public authority.
- i. For the purposes of section 35(1) of the Act, I have determined that parts of the Identified Information constitute:
 - i. opinions, advice or recommendations prepared by HT officers; and
 - ii. records of consultations or deliberations between HT officers,

prepared in the course of, or for the purpose of, the deliberative processes related to the official business of HT. I have also determined that none of the exceptions in sections 35(2), (3) and (4) apply to the relevant information.

Section 36 (Personal information of a person)

- j. Information is exempt information for the purposes of the Act if its disclosure under the Act would involve the disclosure of the personal information of a person, other than the person making the relevant application for assessed disclosure.
- k. Section 5(1) of the Act defines 'personal information' as any information or opinion in any recorded format about an individual:
 - i. whose identity is apparent or is reasonably ascertainable from the information or opinion; and
 - ii. who is alive, or has not been dead for more than 25 years.
- I. I have determined that:
 - i. parts of the Identified Information constitute personal information as defined by the Act; and
 - ii. the exemption in section 36(1) of the Act applies to that personal information.
- m. Whilst I have determined that the exemption in section 36(1) applies in this case, your agreement that information relevant to the Request can be de-identified prior to disclosure largely addresses any concerns arising from this exemption.



Section 37 (Information relating to business affairs of third party)

- n. Information is exempt information for the purposes of the Act if its disclosure under the Act would disclose information related to business affairs acquired by a public authority (in this case, HT) from a person or organisation (in this case, a private organisation concerned with cryptocurrency mining) and the disclosure of the information under the Act would be likely to expose the third party to competitive disadvantage.
- o. The Identified Information includes documents that detail the business affairs of a private organisation concerned with cryptocurrency mining. These documents are not publicly available and, were they to be disclosed, I am satisfied that:
 - i. they would be likely to grant an unfair competitive advantage to the market competitions of the private organisation in question (it being uncontentious that there is an active and competitive market for cryptocurrency mining); and
 - ii. this advantage would not exist but for the disclosure.
- p. Accordingly, I have determined that disclosure of some parts of the Identified Information would be likely to expose the private organisation in question to competitive disadvantage in the terms contemplated by section 37 of the Act.

Section 38 (Information relating to business affairs of public authority)

- q. Information is exempt information for the purposes of the Act if, in the case of a public authority engaged in trade and commerce (in this case, HT), information is of a business, commercial or financial nature and its disclosure under the Act would be likely to expose the public authority to competitive disadvantage in a relevant market.
- r. HT is a public authority engaged in trade and commerce, including as a participant in the National Energy Market. Aspects of the Identified Information concern the business, commercial and financial affairs of HT (e.g. retail strategy documents and term sheets).
- s. I am satisfied that, if disclosed, these parts of the Identified Information are likely to grant HT's competitors in the National Energy Market an unfair competitive advantage over HT, which would not exist but for the disclosure of the relevant Identified Information.
- t. Accordingly, I have determined that disclosure of the relevant Identified Information would be likely to expose HT to competitive disadvantage in the terms contemplated by section 38 of the Act.

Section 39 (Information obtained in confidence)

- u. Information is exempt information if its disclosure under the Act would divulge information communicated by or on behalf of a person to a public authority and the disclosure of the information would be reasonably likely to impair the ability of a public authority to obtain similar information in the future.
- v. This exemption is subject to the qualification in section 39(2) of the Act, however I have determined that this qualification does not apply to any of the relevant Identified Information.
- w. Parts of the Identified Information were supplied to Hydro by a private organisation concerned with cryptocurrency mining, on the basis that confidentiality would be kept with



- respect to it. Some of the Identified Information imposes contractual obligations of confidentiality upon HT in this regard.
- x. In my opinion, if HT disclosed the Identified Information such disclosure would be reasonably likely to impair HT's ability to enter into future commercial negotiations with entities similar to the relevant organisation, and indeed generally, due to a lack of confidence that such negotiations would remain confidential.
- y. Accordingly, I have determined that those parts of the Identified Information that were communicated in confidence to HT by the relevant organisation are exempt from disclosure in the terms contemplated by section 39 of the Act.

7 PUBLIC INTEREST FACTORS

As previously noted, the exemptions in sections 27 and 31 of the Act are not subject to the public interest test in section 33 of the Act. However, each of the exemptions in sections 35, 36, 37, 38 and 39 of the Act are subject to the public interest test.

In accordance with section 33 of the Act I have considered all relevant matters, including the matters set out in Schedule 1 of the Act. My assessment is set out below:

(a) the general public need for government information to be accessible;

I accept that, in accordance with the objects of the Act, there is a general public need for government information to be accessible, particularly as it relates to matters of public interest.

However, in my opinion there is no general public need for access to any of the Identified Information; whilst cryptocurrency mining is certainly of interest to certain sectors of the community, I do not consider there to be a general public need to access information regarding cryptocurrency mining held by HT.

Accordingly, I have determined that this factor mitigates against disclosure.

(b) whether the disclosure would contribute to or hinder debate on a matter of public interest;

This factor is not considered relevant.

(c) whether the disclosure would inform a person about the reasons for a decision;

This factor is not considered relevant.

(d) whether the disclosure would provide the contextual information to aid in the understanding of government decisions;

This factor is not considered relevant.

(e) whether the disclosure would inform the public about the rules and practices of government in dealing with the public;

This factor is not considered relevant.



(f) whether the disclosure would enhance scrutiny of government decision-making processes and thereby improve accountability and participation;

This factor is not considered relevant.

(g) whether the disclosure would enhance scrutiny of government administrative processes;

This factor is not considered relevant.

(h) whether the disclosure would promote or hinder equity and fair treatment of persons or corporations in their dealings with government;

This factor is not considered relevant.

(i) whether the disclosure would promote or harm public health or safety or both public health and safety;

This factor is not considered relevant.

(j) whether the disclosure would promote or harm the administration of justice, including affording procedural fairness and the enforcement of the law;

This factor is not considered relevant.

(k) whether the disclosure would promote or harm the economic development of the State;

It is conceivable that disclosures by HT of commercially sensitive and/or confidential documents, negotiations and discussions (be they internal communications or involving third parties) may negatively impact HT's capacity to conduct business. In turn, such impacts have the potential to harm the economic development of Tasmania given the important role and functions of HT.

Accordingly, I have determined that this factor mitigates against disclosure.

(I) whether the disclosure would promote or harm the environment and or ecology of the State;

This factor is not considered relevant.

(m) whether the disclosure would promote or harm the interests of an individual or group of individuals;

This factor is not considered relevant.

(n) whether the disclosure would prejudice the ability to obtain similar information in the future;

If HT disclosed the Identified Information subject to the exemptions in sections 37 (Information relating to business affairs of third party) and 38 (Information relating to business affairs of public authority), such disclosure would be reasonably likely to impair HT's ability to enter into future commercial transactions with private entities due to either a lack of confidence in HT by the private



sector, or a competitive disadvantage inflicted upon HT vis-à-vis its competitors in the National Energy Market.

Accordingly, I have determined that this factor mitigates against disclosure of parts of the Identified Information.

(o) whether the disclosure would prejudice the objects of, or effectiveness of a method or procedure of, tests, examinations, assessments or audits conducted by or for a public authority;

This factor is not considered relevant.

(p) whether the disclosure would have a substantial adverse effect on the management or performance assessment by a public authority of the public authority's staff;

This factor is not considered relevant.

(q) whether the disclosure would have a substantial adverse effect on the industrial relations of a public authority;

This factor is not considered relevant.

(r) whether the disclosure would be contrary to the security or good order of a prison or detention facility;

This factor is not considered relevant.

(s) whether the disclosure would harm the business or financial interests of a public authority or any other person or organisation;

I repeat my assessment of public interest factors (n), (w) and (x), and have determined that this factor mitigates against disclosure of parts of the Identified Information.

(t) whether the applicant is resident in Australia;

This factor is not considered relevant.

(u) whether the information is wrong or inaccurate;

This factor is not considered relevant.

(v) whether the information is extraneous or additional information provided by an external party that was not required to be provided;

This factor is not considered relevant.

(w) whether the information is information related to the business affairs of a person which if released would cause harm to the competitive position of that person;



Releasing the Identified Information would reveal business and financial information about at least one private organisation concerned with cryptocurrency mining. Such information would be likely to provide that organisation's competitors and potential suppliers with a competitive advantage over that organisation which otherwise would not exist. This in turn would be likely to harm the business and financial interests of that organisation.

Accordingly, I have determined that this factor mitigates against disclosure of parts of the Identified Information.

(x) whether the information is information related to the business affairs of a person which is generally available to the competitors of that person;

The Identified Information includes information regarding the business affairs of at least one private organisation concerned with cryptocurrency mining, and such information is not generally available to the competitors of that organisations.

Accordingly, I have determined that this factor mitigates against disclosure of parts of the Identified Information.

(y) whether the information is information related to the business affairs of a person, other than a public authority, which if it were information of a public authority would be exempt information.

Parts of the Identified Information relate to the business affairs of at least one private organisation concerned with cryptocurrency mining which, were it information pertaining to HT, would be exempt information on the basis that disclosure would be likely to expose HT to competitive disadvantage in the manner contemplated by section 38 of the Act.

Accordingly, I have determined that this factor mitigates against disclosure of parts of the Identified Information.

8 DETERMINATION

8.1 Determination of Application

In light of the assessment set out above, my determination of the Application is as follows:

- a. those parts of the Identified Information (1 document in total) that are already publicly available will be disclosed without modification;
- all of the information subject to the exemptions in sections 27 (Internal briefing information of a Minister) and 31 (Legal professional privilege) is exempt from disclosure and will not be released;
- c. taking into account all relevant matters (including the objectives set out in section 3 of the Act) and balancing the considerations that favour release of information against those that support non-disclosure, for the reasons set out in Parts 6 and 7 of this decision I have determined that:
 - regarding the information subject to the exemption in section 35 (Internal deliberative information), all of the information is exempt in that disclosure would be contrary to the public interest;



- ii. with the exception of names and contact details of HT officers, all of the information subject to the exemption in section 36 (Personal information of a person) of the Act will be redacted from all Identified Information released, noting that your agreement to deidentification produces an equivalent outcome;
- iii. regarding the information subject to the exemption in section 37 (Information relating to business affairs of third party) of the Act:
 - A. some of that information is exempt from release in that de-identification would not resolve the issues arising under section 37, and in those circumstances release would be contrary to the public interest; however
 - B. some of that information will be released subject to de-identification, it not being contrary to the public interest to release the relevant information in that form;
- iv. regarding the information subject to the exemption in section 38 (Information relating to business affairs of public authority) of the Act, all of the information is exempt in that it would be contrary to the public interest to disclose sensitive current commercial information related to HT's business dealings; and
- v. regarding the information subject to the exemption in section 39 (Information obtained in confidence) of the Act:
 - A. some of that information is exempt from release in that de-identification would not resolve the issues arising under section 39, and in those circumstances release would be contrary to the public interest; however
 - B. some of that information will be released subject to de-identification, it not being contrary to the public interest to release the relevant information in that form.

8.2 Status of existing contracts

Whilst your Request does not expressly query whether or not HT is currently a party to any energy supply agreements concerned specifically with cryptocurrency mining (this question being somewhat implied), in the spirit of the objects of the Act I advise that, as of the date of this letter, HT has no existing specific contracts/agreements to supply energy for cryptocurrency mining purposes.

8.3 Third party notice – section 37(3)

As you are aware, HT engaged in public consultation pursuant to section 37(2) of the Act with respect to parts of the Identified Information.

Some of the information that I have determined to disclose (albeit in a de-identified form) was involved with that consultation, the result being that HT cannot release the relevant information to you before it has complied with sub-sections 37(3), (4) and (5) of the Act.

I will deliver the necessary notice as soon as practicable and, subject to the requirements of section 37(5) of the Act, in due course supply you with de-identified copies of the Identified Information that I have determined may be disclosed.



9 INTERNAL REVIEW

As your request has been assessed under delegated authority you have a right to seek an internal review of my decision pursuant to section 43 of the Act.

If you wish to request such a review you may write to HT's Chief Executive Officer within twenty (20) working days from the date of this letter and request an internal review of my decision.

You may write to the Chief Executive Officer at:

Mr Ian Brooksbank Chief Executive Officer Principal Officer, Right to Information Act 2009 Hydro Tasmania GPO Box 355 HOBART TAS 7001

Yours sincerely,

Laura Harle Legal Counsel

Sharle

t 6240 2813

e laura.harle@hydro.com.au

From: Caroline Wykamp

Cc: Nick Sissons; Cameron McCulloch

Subject: Re:

Date: Tuesday, 30 March 2021 7:02:14 PM

Thanks Caroline.

Apologies for not being able to attend this afternoon - although Cam had already canvassed me for items of note.

We will revert and provide responses on our actions as well as some pathways to resolution on the the connection.

As the connection is intrinsically linked to the site selection - I'd propose that we best move to resolve that in the short term.

Cam McCulloch and I have discussed this informally this evening and note he has raised correspondence in the interim.

Appreciate all the efforts so far by all parties in trying to progress this. It's a significant undertaking for all parties with a unique set of challenges.

I'm confident we will get to an effective outcome sooner rather than later - and can't wait to close it out soon in person!

Best Regards,



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From: <u>Cameron McCulloch</u>

To: Cc:

; Caroline Wykamp; Nick Sissons

Subject: Date: - HT Wednesday, 7 April 2021 5:44:09 PM

Attachments:

Hi

Attached is a

for your feedback before progressing much further.

Happy to discuss at your soonest convenience.

Cameron

 From:
 Cameron McCulloch

 Cc:
 ; Caroline Wykamp; Nick Sissons;

 Subject:
 - HT

 Date:
 Thursday, 8 April 2021 9:41:59 AM

Hi Cam,

Great discussing this working strategy with yourself yesterday. We will review and revert as soon as possible.

If there are clarifications we will collect those first and reach out informally in the interim

Speak soon, and thanks for your prompt turnaround on this.



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On Apr 7, 2021, at 5:44 PM, Cameron McCulloch <<u>cameron.mcculloch@hydro.com.au</u>> wrote:

Attached is a for your feedback before progressing much further.

Happy to discuss at your soonest convenience.

Cameron

 From:
 Cameron McCulloch

 Cc:
 Caroline Wykamp; Nick Sissons

 Subject:
 - HT

 Date:
 Friday, 9 April 2021 3:39:51 PM

Hi Cam,

Per our conversation this morning - i think this meets our needs to move things forward. Assume that it is most likely to best seek to convene in \$\infty\$ \sim 2 weeks from now? Should give us ample time to work through scope and critical issues of note prior to meeting.

There is opportunity to bring our GC and Advisory with us if that is of benefit for larger macro economic Digital Asset progress.

Personally, I would strongly advocate to take the opportunity for you to take up that offer.



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On Apr 7, 2021, at 5:44 PM, Cameron McCulloch <<u>cameron.mcculloch@hydro.com.au</u>> wrote:

| Hi Hi | |
|--|--|
| Attached is a | for your feedback before progressing much further. |
| Happy to discuss at your soonest conve | enience. |
| Cameron | |

Nick Sissons; Caroline Wykamp; Subject: Activities Date: Thursday, 6 May 2021 7:15:06 PM To the correct Cam, apologies. Per below FYR, Cam. Disclaimer: The information transmitted by this email is intended only for the person or entity to which it is addressed. This email may contain proprietary, business-confidential and/or privileged material. If you are not the intended recipient of this message, be aware that any use, review, re transmission, distribution, reproduction or any action taken in reliance upon this message is strictly prohibited. If you received this in error, please contact the sender and delete the material from all computers and devices including printed copies. Get BlueMail for Android On 6 May 2021, at 3:29 pm, wrote: Hi Cam. Thanks for the opportunity to work through a few of the critical items today. As discussed, I will nominate a placeholder invite for us to discuss them and other issues as they arise so we can have stabilised communications across any of the key parties /HT/ Per my notes; 1/ I have taken your counsel on the high level requirements needed with our implementation partners re: Power Quality, We will backbrief accordingly are expecting formal communications on the as 2/ We (by Tuesday, 11 May. have set aside the 13 and/or 14 May for 3/ We and site visits in are keen to revisit the connection options with HT/ Per our discussion and the lack of guidance on 'Special Consideration', we think this is something we need to work on in concert to resolve any obstacles in seeking a BTM connection It is in my strongest view that the advice/reluctance on executing on this option is lack of testability on an assessable framework by legal. As there is no guidance framework, it is surely encumbered on to provide a demonstrable case FOR special consideration.

relationship meets and or exceeds nearly all of these

From:

To:

Cc:

Cameron McCulloch

I would contend that the

measures;

- We are working collabratively on a enterprise demonstrator with SHARED resources and TRANSPARENCY of operation (so no exclusion or lack of access);
- We will be working in constrained environments as provided by HT autonomy and control); (remain
- We will be developing YOUR workforce by developing them alongside ours (including further patent opportunities for green enablement connections);
- We will be, as part of our own operation, looking to DEMONSTRATE positive impacts to adjacent industries for futher incubation; and, most importantly,
- We will be providing quantitative input on the Special Consideration connection process (practical experience) and the assessable measures needed for future consideration.

Look forward to speaking soon (in person), and as always - please reach out to discuss anything in more detail



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| To: Cc: Subject: Date: | Cameron McCulloch; Caroline Wykamp Progress Wednesday, 12 May 2021 11:59:06 AM |
|---|--|
| Hi | et.al) |
| moving the Per our dia | or the call this morning [REF: Telecon 0820 Wed 12 May] to discuss the status on opportunity forward. alogue, there are some items of material interest that require action to the arties to proceed. |
| Most notal | oly, this is around the unique nature of Site and/or Facility location/s. |
| directive fi (notably the consideration Without su | standing in discussions previously is that there needs to be a form of formal rom the to allow us to proceed with critical elements of the implementation he intial Preliminary Design Review) and a resultant Heads of Agreement for ion prior to execution. Inch direction, the progress ceases and we are soon to move our operation into the assessment |
| May we pl provided a | approach, similar to what Cam (HT) has soon as possible? |
| | we do not understand how we can proceed any constructive dialogue without it ence of any alternative). |
| Further, pe with the | er my suggestion - we are receptive working together on broader items of scope |
| | e constructive to do so alongside the Site visits and the HT in the short term. |
| Tasmanian - Direct Im - Indirect I Industrial/ Local Man | mpacts via incubation and enablement of adjacent Tasmanian Commercial Opportunities (short term) [think: Aquaculture, Micro Agriculture, nufacturing] |
| Network S - Scope an | mpacts via as an Industrial anchor to accelerate progression to the state (mid term) [think: Electric Vehicles etc] d Remit for the and its alignment with its own I remit, its partners and more importantly critical areas of interest for the |
| | rim, I would strongly advocate for the to take the opportunity to see/hear to pitch to market so you can understand the depth and breadth of the opportunity ety. |
| | to establish a Enterprise Headquartered in Tasmania and are you are as well. |

From:

As always, keen to take your call and meet as required.



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From: <u>Caroline Wykamp</u>

To:

Cc: Cameron McCulloch; Nick Sallmann; Nick Sissons; Chris Boon;

Subject:

Demonstrator

Date: Friday, 14 May 2021 4:46:00 PM

Attachments: <u>image001.png</u>



I know my team have been discussing many aspects of the demonstrator project with you the over the recent few weeks.

It is our intention to work with you to develop the demonstrator project with . We have discussed the proposal with agreement to progress a demonstrator project including the offering of a facility to house your equipment and to introduce you to to facilitate securing a grid connection.

We have identified a number of sites and plan to show you some of these to work through preferences late next week as well as introduce you to the Hydro Tasmania's key commercial contacts.

We look forward to progressing the demonstrator project and to explore many further opportunities your company will bring to Tasmania.

Regards,

Caroline

Caroline Wykamp

Executive General Manager, Commercial



m 0428-711-919

e caroline.wykamp@hydro.com.au

w hydro.com.au

a Level 9, 4 Elizabeth st, Hobart 7000

Executive Assistant: Lisa Austin E: <u>lisa.austin@hydro.com.au</u>

M: 0436 394 573

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| From: To: Cc: Subject: Date: | Cameron McCulloch; Caroline Wykamp; Nick Sissons; Nick Sallmann; RE: and Hydro Tas - Meet and Greet + Site Visits Sunday, 16 May 2021 7:41:01 PM |
|--|---|
| | - I'll send through a calendar invite now. I'll make it 9:30am. But if this is a re will work around it. |
| _ | n to yourself and Cam. If either of you wish to include others, then please do so ose of this meeting is mostly "administrative" in nature. I.e. to organise next ame. |
| Regards | |
| | |
| | |
| From: Sent: Sunday 1 | 6 May 2021 11:25 AM |
| To: Cc: Cameron Mo <caroline.wyka< td=""><td>cCulloch <cameron.mcculloch@hydro.com.au>; Caroline Wykamp mp@hydro.com.au>; Nick Sissons <nick.sissons@hydro.com.au>; Nick Sallmann @hydro.com.au>;</nick.sissons@hydro.com.au></cameron.mcculloch@hydro.com.au></td></caroline.wyka<> | cCulloch <cameron.mcculloch@hydro.com.au>; Caroline Wykamp mp@hydro.com.au>; Nick Sissons <nick.sissons@hydro.com.au>; Nick Sallmann @hydro.com.au>;</nick.sissons@hydro.com.au></cameron.mcculloch@hydro.com.au> |
| Subject: Re: | and Hydro Tas - Meet and Greet + Site Visits |
| Get Outlook fo | k - send the invite and I can work from there |
| To: Cc: <caroline.wyka< td=""><td>Tay 16, 2021 10:39:07 AM Caroline Wykamp mp@hydro.com.au>; Nick Sissons < Nick.Sissons@hydro.com.au>; Nick Sallmann @hydro.com.au>; and Hydro Tas - Meet and Greet + Site Visits</td></caroline.wyka<> | Tay 16, 2021 10:39:07 AM Caroline Wykamp mp@hydro.com.au>; Nick Sissons < Nick.Sissons@hydro.com.au>; Nick Sallmann @hydro.com.au>; and Hydro Tas - Meet and Greet + Site Visits |
| Thanks both | and Hydro ras infectand direct i site visits |
| Lanning Do. 12 | - h - true - m 0 20 11 20 - m |

I can make times between 9:30-11:30am. Let me know what works for you and I'll send a Teams link. Cheers.

Sent from my iPhone

On 16 May 2021, at 10:09 am,

wrote:

Sounds good, I'll confirm in the am.
Can make most times tomorrow after 0930

Get Outlook for Android

From: Cameron McCulloch < Cameron.McCulloch@hydro.com.au

Sent: Sunday, May 16, 2021 9:57:56 AM

To:

Cc: Caroline Wykamp

<<u>Caroline.Wykamp@hydro.com.au</u>>; Nick Sissons <<u>Nick.Sissons@hydro.com.au</u>>;

Nick Sallmann < NIck.Sallmann@hydro.com.au >;

Subject: Re: and Hydro Tas - Meet and Greet + Site Visits

Sounds good,

I can make anytime between 9:30am and 1 pm work.

Kind Regards, Cameron McCulloch

Head of Asset and Environment Strategy and Risk Assets and Infrastructure Hydro Tasmania 0438247101

From:

Sent: Sunday, May 16, 2021 9:12:37 AM

To: Cameron McCulloch < <u>Cameron.McCulloch@hydro.com.au</u>>

Cc: ; Caroline Wykamp

<<u>Caroline.Wykamp@hydro.com.au</u>>; Nick Sissons <<u>Nick.Sissons@hydro.com.au</u>>;

Nick Sallmann < NIck.Sallmann@hydro.com.au >;

Subject: Re: and Hydro Tas - Meet and Greet + Site Visits

Hi and Cam

Would it assist if we had a TEAMS meeting tomorrow to work out detail around the

| itinerary/visit? |
|--|
| If so let me know what time may suits ? |
| Regards |
| |
| Sent from my iPhone |
| On 15 May 2021, at 4:13 pm, Cameron McCulloch < Cameron.McCulloch@hydro.com.au wrote: |
| Hi |
| Largely sounds good to me. We don't really need anything formal as they will do what we ask of them for both regulatory and non-regulated aspects of a demonstrator. I have had a good chat with them about this. But was keen for you to meet the key people anyway and they may wish to come to the site visits. |
| From a logistics point of view, there are |
| will work out what we can fit in but potentially prioritise . |
| Kind Regards, Cameron McCulloch |
| Head of Asset and Environment Strategy and Risk Assets and Infrastructure Hydro Tasmania 0438247101 |
| From: Sent: Saturday, May 15, 2021 3:57:48 PM To: Cameron McCulloch < Cameron.McCulloch@hydro.com.au >; Caroline Wykamp < Caroline.Wykamp@hydro.com.au >; Nick Sissons < Nick.Sissons@hydro.com.au >; Nick Sallmann < Nick.Sallmann@hydro.com.au > |
| Cc: |
| Subject: RE: and Hydro Tas - Meet and Greet + Site Visits |
| Hi Cam, |
| Assume this is still in train, but will be rescheduled for 24-25 th ? [Noting I spoke to briefly on Friday] |

As previously discussed amongst many of us, is the intent to complete the following? [Please confirm]

- which should provide the boundary of the
 Preliminary Design Review [PDR] (
- Strategic Opportunity Session which should provide an overview of and its direct, indirect and future economic impact to the State (); and,
- Nominated Site Visits () (expectation that there is likely to be enough for the MVP in the alone)

It is likely that myself and will be attending in person, and any working session we can provide our technical team as required via MS Teams (unlikely needed in first instance).

In the interim, we are operating on the expectation that we will be based in for both of those days to work in with the schedules of key members available to us.

We can not express how excited we are to do these sessions in person and recognise all the effort and commitment from yourselves in progressing this also.

Speak soon,



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-----Original Appointment-----

From: Cameron McCulloch < Cameron. McCulloch@hydro.com.au >

Sent: Saturday, 15 May 2021 1:43 PM

To: Caroline Wykamp; Nick Sissons; Nick Sallmann;

Subject: Canceled: and Hydro Tas - Meet and Greet + Site Visits **When:** Thursday, 20 May 2021 9:00 AM to Friday, 21 May 2021 5:00

PM (UTC+10:00)

Where: Hydro Tasmania -

Importance: High

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From:
To:
Cc: Cameron McCulloch; Caroline Wykamp; Nick Sissons;
Subject: [Visit to Tasmania]
Date: Thursday, 20 May 2021 1:29:44 PM

Hi

Firstly, looking forward to meeting face to face next week in ____ – can say unequivocally, that we are very excited to begin the next phase of our Program and begin the process of a tighter working relationship with common goals between ourselves and Tasmania.

With that, we are confident that the breadth and depth of the opportunity will become more apparent.

The potential to position Tasmania as the Green Economic Battery of Asia Pacific should not be lost on any of us — with the feedback from Industry participants we engage with is exceptionally supportive and positive.

Since we last spoke early in the week has made significant ground with its implementation partners and have, we believe, accelerated additional industry participation for the State in other industry verticals; Engineering Fabrication, Logistics and Distribution as well as the commencement of Technical Manufacturing.

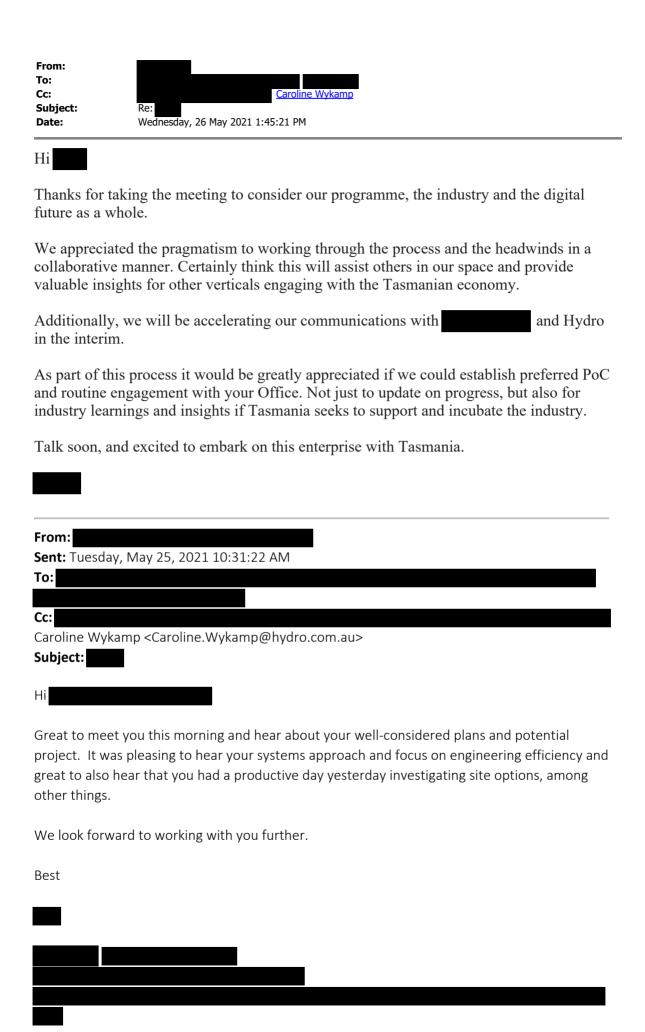
All opportunities are export leaning, future focused industries to support the Green Electrical future - so the contribution outcomes meet the collective objectives of all participants.

It will great to your views and feedback and have some direct engagement as executes its R&D program that will see money directly invested into the Tasmanian economy to further strengthen and prosecute opportunities.

Look forward to speaking soon, as always – more that happy to take your calls or set up regular time to establish a structured and routine dialogue to ensure we remain committed to shared goals.



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From: To:

Nick Sallmann;

Cc: Subject: Chris Boon; Caroline Wykamp
RE: MVP Progression

Date:

Thursday, 26 August 2021 8:14:03 AM

Hi Nick,

Thanks for reaching out, greatly appreciated

I have cc'd in response who I understand is already in correspondence with Chris and the retailers



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From: Nick Sallmann < NIck. Sallmann@hydro.com.au>

Sent: Thursday, 26 August 2021 8:06 AM

To:

Cc: Chris Boon < Chris.Boon@hydro.com.au>; Caroline Wykamp

<Caroline.Wykamp@hydro.com.au>
Subject: RE: MVP Progression

Hi

Apologies for the delay in responding.

As discussed, Hydro Tasmania has been working through internal analysis of our position on the level and form of contracting we can offer the market and this work is ongoing.

In relation to your email below, while we acknowledge our negotiations had progressed significantly over recent months I would note that they remained indicative and subject to relevant internal processes and approval to enable us to reach a final agreement. As indicated on our call, Hydro Tasmania is not in a position to commit to a firm offer for a 50MW energy contract and confirming our position on this is contingent on completing the work referred to above.

We understand the slow progress has been frustrating from your perspective, and appreciate your intent to seek shared outcomes for Tasmania. Ultimately we have a finite generation resource to support our contract position which we need to manage.

We are aware of your intentions to progress supply options and will respond to corresponding retailer requests consistent with our internal policies and regulatory requirements (noting this would be in relation to a financial hedge, rather than physical access as inferred by your email below).

If you would like to discuss further I can arrange a meeting with Chris Boon on our trading Team, who will be the primary point of contact for such contracting discussions going forward. I believe Chris will be reaching out in any case on a related matter.

Regards, Nick

Nick Sallmann

Head of Strategy

t +61 410 647 375

e nick.sallmann@hydro.com.au

w hydro.com.au

From:

Sent: Friday, 16 July 2021 4:25 PM

To: Cameron McCulloch < <u>Cameron.McCulloch@hydro.com.au</u>>; Nick Sallmann

NIck.Sallmann@hydro.com.au
Subject:
MVP Progression

Gents,

Thanks for taking the session today to discuss progress.

As always – its healthy to have open and constructive dialogue to ensure all parties understand the processes and needs as we work collectively to shared outcomes for the State of Tasmania.

As noted in the session – HT still has a firm intent to execute on the energy contract for the MVP.

In good faith, HT can not give us definitive timings for execution and have no desire to delay the process further and suggest we engage through a Retailer to contract for Energy.

understands this position. We will be making undertakings to engage with a Retailer direct, noting that the Retailer will seek confirmation from HT for access provisions.

We look forward on continuing to build a strong trusted relationship far into the future. All the best, and thanks for the prompt response in return

Cheers.

Get Outlook for Android

From: <u>Nick Sallmann</u>

To: Cc:

Subject:

Chris Boon; Caroline Wykamp
RE: MVP Progression

Date: Thursday, 26 August 2021 8:05:42 AM



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As discussed, Hydro Tasmania has been working through internal analysis of our position on the level and form of contracting we can offer the market and this work is ongoing.

In relation to your email below, while we acknowledge our negotiations had progressed significantly over recent months I would note that they remained indicative and subject to relevant internal processes and approval to enable us to reach a final agreement. As indicated on our call, Hydro Tasmania is not in a position to commit to a firm offer for a 50MW energy contract and confirming our position on this is contingent on completing the work referred to above.

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Regards, Nick

Nick Sallmann

Head of Strategy

t+61 410 647 375

e nick.sallmann@hydro.com.au

w hydro.com.au

From:

Sent: Friday, 16 July 2021 4:25 PM

To: Cameron McCulloch <Cameron.McCulloch@hydro.com.au>; Nick Sallmann

<NIck.Sallmann@hydro.com.au>

Subject: MVP Progression

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We look forward on continuing to build a strong trusted relationship far into the future. All the best, and thanks for the prompt response in return

Cheers,



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From:

Sent: Tuesday, 21 September 2021 6:28 PM

To: Paul Guerreiro < Paul. Guerreiro @momentum.com.au>

Subject: Re: Power

Paul,

As I said, a lot has happened over the last days. Yes we do still have the Adelaide sites but they are too small for what we are doing, as we have some large investors and will need larger sites. the site in Qld is large enough to cater for 3-4 groups as is the site in Tasmania. In particular power is potentially cheaper in Tas and will be for us on the site in Old with the solar farm.

Again -

Qld site Stage 1 -

Co-located on a solar farm the first 40MW DC will be operated. The solar farm will generate 360,000MWh but only supply the day time energy to the DC. This will also be the LGC generation.

the DC will need in the vicinity of 260,000 MWh (18hrs x 40MW x 365days) The DC has a flat load 24/7.

Contracting entity for the retail agreement - it is that will facilitate, negotiate and set this up. BUT the actual agreement, PPA, will be with our final investor who are bankable and creditworthy.

Preferred contract term: 1-5 years - We would like 5x5 years

Commencement date - June 2022

Peak/Off Peak consumption volumes - this is a flat load 40MW 24/7

Consumption/export profile or load analysis and forecasts - I can get the exact interval data and will have to. But as I say it is 40MW and a flat load 24/7

Stage 2 -

This will be the on the same site and the same again for a 40MW DC but not expected until December 2022.

Stage 3 -

March 2023.

The goal is to get to \$75/MWh delivered. If Hydro can source all the power etc that is fine. At the moment I potentially looking at energy only at \$45/MWh. It is no concern where this comes from due to our on site generation and so on which we need to arrange through metering etc. I am in discussion with around network costs



On Tue, 21 Sept 2021 at 14:01, Paul Guerreiro < <u>Paul.Guerreiro@momentum.com.au</u>> wrote:

Hi , Thanks for reaching out.

I was under the impression we were looking at a location in SA. Has that now changed to QLD? Whilst Hydro Tasmania generates electricity in Tasmania we are excluded from participating in the retail market there (TAS Govt regulatory reasons), so we wont be able to present an offer for this region.

Are you able to provide the below details for this opportunity in QLD? In the meantime, I'll need to speak to our wholesale trading team to determine if they are in a position to consider this further.

Contracting entity for the retail agreement

Preferred contract term: 1-5 years

Commencement date

Peak/Off Peak consumption volumes

Consumption/export profile or load analysis and forecasts

Paul Guerreiro

Business Relationship Manager – Major Accounts

- t 03 8612 6436
- m 0429 947 526
- e paul.guerreiro@momentum.com.au
- w momentum.com.au



As we all adapt to new ways of working, I may be emailing you outside of standard business hours. I do not expect an immediate response and understand you will reply when it is convenient for you.

202008 - PEP_Sig_banner (002)



Hydro Tasmania is licensed (AFSL 279796) to provide general financial product advice. Hydro Tasmania is not licensed to provide nor will it provide advice which considers a person's objectives, financial situation and needs and you must therefore rely on your own assessment or seek your own independent advice in respect of decisions in relation to any financial product offered.

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Momentum Energy Pty Ltd ABN: 42 100 569 159

From:

Sent: Tuesday, 21 September 2021 11:09 AM

To: Paul Guerreiro Paul.Guerreiro@momentum.com.au>

Subject: Power

Paul,

I hope you are well and thank you for your time on the phone last week.

A lot has happened since then and so I need to let you know what or needs are and so on.

Old -

the site there is where I am building a 150MW solar farm and large battery. Then colocating there will be a behind the meter (BTM) data centre (DC)

Stage 1 - this will be a 40MW DC. We need 260,000 MWh of energy. During the day the solar farm will provide the energy then we need the energy for the night.

At the moment I can do a PPA for the energy component around \$45/MWh. I am just confirming this. We then need a retailer which is why I am coming to you for this requirement.

We DO NOT need the LGC's as we have that on site and meet the requirements for this. However Hydro can have first right of refusal for our LGC's although you did say you are a net exporter of these.

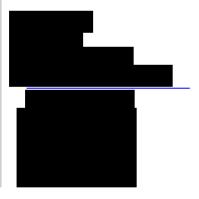
I am just negotiating with Powerlink for the Network charges.

Tas-

This is also for a DC and will be 40MW for stage 1. This is in

Again, 24/7 load, But for the the full amount - approx 360,000MWh.

In short what can you do for us? Do you think we can get a deal, delivered at \$55/MWh??



At the moment I can do a PPA for the energy component around \$45/MWh. I am just confirming this. We then need a retailer which is why I am coming to you for this requirement.

We DO NOT need the LGC's as we have that on site and meet the requirements for this. However Hydro can have first right of refusal for our LGC's although you did say you are a net exporter of these.

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Tas-

This is also for a DC and will be 40MW for stage 1. This is in Waddamana.

Again, 24/7 load, But for the the full amount - approx 360,000MWh.

In short what can you do for us? Do you think we can get a deal, delivered at \$55/MWh??

Piers Warren Co-founder Kleangrid PTY Ltd p.warren@kleangrid.com +61 405 092 602



From: Sent: Thursday, 25 November 2021 6:20 PM To: ContactUs < contactus@hydro.com.au > Subject: RE: Request a contact Dear Sir/Madam May I kindly follow up on this? Look forward to your response. Thanks acknowledges as the Traditional Custodians of our local area. From: Sent: Thursday, 4 November 2021 9:35 AM To: contactus@hydro.com.au Subject: Request a contact Dear Sir/Madam We have received a request from a Sydney based startup company who would like to make a contact with Hydro Tasmania regarding their planning business opening and energy purchase in Hobart. Could you please kindly pass me with a contact person that I can refer to them? Much appreciated. Cheers

| | acknowledges |
|---|--|
| | as |
| the Traditional Cus | todians of our |
| local area. | |
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From:

Sent: Tuesday, 11 January 2022 3:11 PM **To:** Dean Price < dean.price@hydro.com.au>

Subject: Mining containers

Hi Dean,

I'm looking to source some container footprint and a C&I contract for 5-10 MW on site at one of your renewables locations. (Must be onsite to avoid network charges)

I've seen a recent deal drop at your site that indicate you guys are playing in the space. Do you have remaining capacity and footprint for an additional party?

Regards,



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From: <u>Cameron McCulloch</u>

Cc: Nick Sissons

Subject: Connection of Assets

Date: Wednesday, 17 March 2021 4:49:51 PM

Attachments: <u>image001.png</u>

Hi

To:

You may remember talking to me last time about the technical side of a proposal but the other aspects of the project were put on hold for various reasons.

Really happy to be talking to you both again and it's looking great this time around that the is across and a few other things are much better aligned.

I have already spoken with about the grid side of things so all lined up for a chat with them when we are ready.

I was hoping to have an initial chat with you tomorrow about some of the technical things I am suspecting will want to walk through. They are happy meeting next week too.

Are you happy to send through some times for tomorrow or Friday that might work and we will go from there?

Look forward to chatting in advance.

Regards,

Cameron McCulloch

Head of Asset Strategy and Risk BE (Hons), MIEAust, MIEEE, Adv. Dip. Mgmt



m +61 438 247 101

- e cameron.mcculloch@hydro.com.au
- E http://dropbox.yousendit.com/CameronMcCulloch4758112 (for large emails)
- w hydro.com.au
- a 4 Elizabeth Street, Hobart TAS 7000

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From: <u>Caroline Wykamp</u>

To: Cc:

Cameron McCulloch; Nick Sallmann; Nick Sissons; Chris Boon;

Subject:

Demonstrator

Date:

Friday, 14 May 2021 4:46:19 PM

Attachments:

image001.png



I know my team have been discussing many aspects of the demonstrator project with you the over the recent few weeks.

It is our intention to work with you to develop the demonstrator project with

. We

have discussed the proposal with all of these parties and have in principal agreement to progress a demonstrator project including the offering of a facility to house your equipment and to introduce you to grid connection.

We have identified a number of sites and plan to show you some of these to work through preferences late next week as well as introduce you to the Hydro Tasmania's key commercial contacts.

We look forward to progressing the demonstrator project and to explore many further opportunities your company will bring to Tasmania.

Regards,

Caroline

Caroline Wykamp

Executive General Manager, Commercial



m 0428-711-919

e caroline.wykamp@hydro.com.au

w hydro.com.au

a Level 9, 4 Elizabeth st, Hobart 7000

Executive Assistant: Lisa Austin E: lisa.austin@hydro.com.au

M: 0436 394 573

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 From:
 Image: Control of the control

Attachments: Progress (10.5 KB).msg

Importance: High

Hi

Thanks for taking the call today to discuss progress with executing some final arrangements to confirm our place on the Tasmanian Grid.

Per the attached and noting the constructive Workshop we had on May 25 we are in the final stages of closing contractual relationships with Hydro Tasmania.

To ensure that clarity and support remains on this MVP and its outcomes, we ask if could touch base with HT prior to the contract execution to confirm its merit and place in the Tasmanian Economy.

Thanks in advance for your prompt consideration in this matter. As always, available to take your call to discuss.



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From:

Sent: Wednesday, 23 June 2021 12:46 AM

To: Chris Blanksby < Chris. Blanksby@entura.com.au>

Subject: Hello from

Hi Chris

How are you? I hope everything is going well for you.

We started working on some big sites last month, and we will talk with Entura shortly.

The reason for this email is to check if you can direct me to the relevant manager within Tasmania Hydro or Momentum energy?

I am currently representing a group of Bitcoin miners from China and investigating a possible power supply in Australia or even setting up a bitcoin mining site (like the data centre) within any of your power plants before the meter installation.

As you may also know, the Chinese government has announced that all of the bitcoin mining business must stop mining within two months due to massive power consumption.

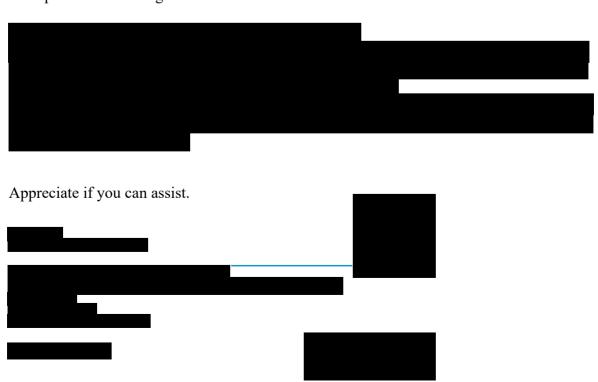
This action forces the miner to look elsewhere, like Australia and Canada, where countries have more hydropower supply or reasonably priced electricity.

We are working on some solar farm with battery storages for a possible power supply, but not enough.

Each mining machine consumes 3.4kw/h, and each site can have at least 500 - 1000 units, which is 3400kw/h, and 81600kw/day.

I dont know any senior account manager from either Hydro Tassie or Momentum, I can ring up, but I want to reach you first and see if I can have a fast track?

The specs of the mining machine can be found below:



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From:
To:
Nick Sallman

Cc: Chris Boon; Caroline Wykamp
Subject: RE: MVP Progression

Date: Thursday, 26 August 2021 8:14:02 AM

Hi Nick,

Thanks for reaching out, greatly appreciated

I have cc'd in response who I understand is already in correspondence with Chris and the retailers



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Sent: Thursday, 26 August 2021 8:06 AM

To:

Cc: Chris Boon < Chris.Boon@hydro.com.au>; Caroline Wykamp

<Caroline.Wykamp@hydro.com.au>
Subject: RE: MVP Progression

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In relation to your email below, while we acknowledge our negotiations had progressed significantly over recent months I would note that they remained indicative and subject to relevant internal processes and approval to enable us to reach a final agreement. As indicated on our call, Hydro Tasmania is not in a position to commit to a firm offer for a 50MW energy contract and confirming our position on this is contingent on completing the work referred to above.

We understand the slow progress has been frustrating from your perspective, and appreciate your intent to seek shared outcomes for Tasmania. Ultimately we have a finite generation resource to support our contract position which we need to manage.

We are aware of your intentions to progress supply options and will respond to corresponding retailer requests consistent with our internal policies and regulatory requirements (noting this would be in relation to a financial hedge, rather than physical access as inferred by your email below).

If you would like to discuss further I can arrange a meeting with Chris Boon on our trading Team, who will be the primary point of contact for such contracting discussions going forward. I believe Chris will be reaching out in any case on a related matter.

Regards, Nick

Nick Sallmann

Head of Strategy

t+61 410 647 375

e nick.sallmann@hydro.com.au

w hydro.com.au

From:

Sent: Friday, 16 July 2021 4:25 PM

To: Cameron McCulloch < <u>Cameron.McCulloch@hydro.com.au</u>>; Nick Sallmann

NIck.Sallmann@hydro.com.au
Subject:
MVP Progression

Gents,

Thanks for taking the session today to discuss progress.

As always – its healthy to have open and constructive dialogue to ensure all parties understand the processes and needs as we work collectively to shared outcomes for the State of Tasmania.

As noted in the session – HT still has a firm intent to execute on the energy contract for the MVP.

In good faith, HT can not give us definitive timings for execution and have no desire to delay the process further and suggest we engage through a Retailer to contract for Energy.

understands this position. We will be making undertakings to engage with a Retailer direct, noting that the Retailer will seek confirmation from HT for access provisions.

We look forward on continuing to build a strong trusted relationship far into the future. All the best, and thanks for the prompt response in return

Cheers.

Get Outlook for Android

From:
Nick Sisson

Subject: Energy Firming opportunity

Date: Thursday, 16 December 2021 12:54:13 PM

Attachments: Outlook-a43p5ay1.png

Hi Nick,

Thank you for your time over the phone earlier.

is registering interest from suitable firming parties to firm computational datacentre loads in Tasmania.

The computational loads will be placed behind the meter, located at sites in Tasmania. The firming will be required for an initial 5MW load in June 2022 and up to 40MW after that as we scale.

Due to the nature of the opportunity, this may be an excellent opportunity for the emerging technology team to collaborate and firm loads for computational datacenters.

I look forward to discussing this further and towards a firming pricing estimate.

Cheers



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From: Nick Sissons

To:
Cc: Luc van Duinen

Subject: Luc van Duinen
Intro to

Date: Thursday, 4 November 2021 7:37:00 PM

Hi

Please meet from the best of the many digital asset companies we have met over the last few years.

They are looking for significant load outside of Tasmania; have very responsive infrastructure and are keen to use it for grid services/demand response.

I think you might have many overlapping interests to explore.

Cheers

Nick

Attachments: image001.ong image002.ong 22.03.09 - Indicative Term Sheet - Firming Transaction - Capped Swap for Consumer Facility Load Offtake Generator Generation.pdf 22.04.12 - Indicative Term Sheet - Firming Transaction - Swap for Consumer Facility Load Offtake Generator Generation.pdf

Also attached is a that I described earlier this week. The for us to provide indicative pricing we need for us to provide indicative pr

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| From: | |
|-----------------------------------|--|
| Sent: Thursday, 9 June 202 | 22 11:01 PM |
| To: | Chris Boon < Chris. Boon@hydro.com.au> |
| Cc: | |
| Subject: RE: Explore PPA s | ynergy for mobile datacentres in TAS |

Hi Chris,

From:

Subject:

To: Cc: Chris Boon

RE: Explore PPA synergy for mobile datacentres in TAS

| I called and left you VM to follow up on this. Please countersign attached and send me and information to move forward, Thanks, |
|--|
| From: Sent: Wednesday, 8 June 2022 2:16 PM |
| To: 'Chris Boon' < Chris.Boon@hydro.com.au> |
| Cc: Subject: RE: Explore PPA synergy for mobile datacentres in TAS |
| Hi Chris, |
| See attached. Please organise to have it sent out via Docusign to be executed by our MD email and cc me. |
| Best regards, |
| |
| From: Chris Boon < Chris.Boon@hydro.com.au > Sent: Wednesday, 8 June 2022 11:17 AM |
| To: |

Subject: RE: Explore PPA synergy for mobile datacentres in TAS

Hi

Thanks for sending that through. Please review and if you are happy with it I can organise to have it sent out via Docusign to be executed. Note we don't require a witness if executed via Docusign.

Cheers, Chris

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From:

Sent: Tuesday, 7 June 2022 9:35 PM

To: Chris Boon < Chris.Boon@hydro.com.au>

Subject: Explore PPA synergy for mobile datacentres in TAS

Hi Chris,

Nice meeting with you online. Thank you very much for your time and explanation of your process and options.

As discussed, please use the following information for the mentioned in the meeting.

Best regards,



It's possible that this email contains information that is on the secret squirrel side of confidential. So if you received it accidentally, best let the sender know straight away and delete it.

Also, we should let you know that any emails that come and go through our firm might be scanned, stored or read by us at its discretion. We do our best to avoid errors on emails it sends, but we can't promise that it will be error free. So, please don't hold it against us.

Explore PPA synergy for mobile datacentres in TAS

Created by: • Your response:

Yes, I'm going Time 3pm - 4pm (Eastern Australia Time - Sydney)

Date Tue Jun 7, 2022

Where https://dialin.teams.microsoft. com/usp/pstnconferencing

Description

Hi Chris,

Thanks for the quick intro. I would like to explore the options and synergy with electricity requirements for our expansion in TAS for the following locations:

and other potential sites next to transmission substations.

Load characteristics: computing equipment and cooling accessories

Requirements: 24/7 baseload Schedule: 5MW to start from July 2022 then 20MW from

September 2022 per site

I look forward to meeting you via Googlemeet VC tomorrow.

Have a nice day! Cheers,

From: Chris Boon < Chris.Boon@hydro.com.au>

Sent: Monday, 6 June 2022 4:28 PM

To:

Subject: HT meeting



Are you able to use Microsoft TEAMs instead of Googlemeet? I'll send through a meeting invite on this forum as we're not set up for Google meet.

Cheers,

Chris.

Chris Boon

Wholesale Transactions Manager BEc



From:
To: Nick Sissons;
Cc: Luc van Duinen

Subject: RE: Intro to

Date: Sunday, 7 November 2021 10:48:13 AM

Attachments: <u>image001.png</u>

Thanks @Nick Sissons.

Nice to meet you

I've had a quick look into the space you are in and would be interested in catching up to see where we could align.

Cheers,



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From: Nick Sissons < Nick. Sissons@hydro.com.au>

Sent: Thursday, 4 November 2021 7:37 PM

То:

Cc: Luc van Duinen < luc.vanduinen@hydro.com.au>

Subject: Intro to

Hi

Please meet from the best of the many digital asset companies we have met over the last few years.

They are looking for significant load outside of Tasmania; have very responsive infrastructure and are keen to use it for grid services/demand response.

I think you might have many overlapping interests to explore.

Cheers

Nick

From: Nick Sissons; To: Cc: Luc van Duinen Subject: RE: Intro to Date: Monday, 8 November 2021 8:34:34 AM image002.png Attachments: image003.png image004.png Thanks Nick. Hi Good to meet. Let us know days and times that suit for a Teams catch up? Regards From: Sent: Sunday, 7 November 2021 10:48 AM

Cc: Luc van Duinen < luc.vanduinen@hydro.com.au>

To: Nick Sissons < Nick. Sissons@hydro.com.au>;

Subject: RE: Intro to

Thanks @Nick Sissons.

Nice to meet you

I've had a quick look into the space you are in and would be interested in catching up to see where we could align.

Cheers,



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From: Nick Sissons < <u>Nick.Sissons@hydro.com.au</u>>

Sent: Thursday, 4 November 2021 7:37 PM

To:

Cc: Luc van Duinen < luc.vanduinen@hydro.com.au>

Subject: Intro to

Hi

Please meet from , the best of the many digital asset companies we have met over the last few years.

They are looking for significant load outside of Tasmania; have very responsive infrastructure and are keen to use it for grid services/demand response.

I think you might have many overlapping interests to explore.

Cheers

Nick

From: To: Subject: RE: TAS wind off take Date: Monday, 28 March 2022 2:15:02 PM **Attachments:** image002.png image003.png Hey Nick, Thanks for the intro:) Hi Would be keen to learn more about your business and how the roadmap to energisation is envisaged. I'm usually more free in the arvo to talk. Cheers, Disclaimer: The information transmitted by this email is intended only for the person or entity to which it is addressed. This email may contain proprietary, business-confidential and/or privileged material. If you are not the intended recipient of this message, be aware that any use, review, re transmission, distribution, reproduction or any action taken in reliance upon this message is strictly prohibited. If you received this in error, please contact the sender and delete the material from all computers and devices including printed copies. From: Nick Sissons < Nick. Sissons@hydro.com.au> **Sent:** Monday, 28 March 2022 2:03 PM To: Subject: TAS wind off take Hi all As discussed please meet . They have a

growing portfolio of assets in Tasmania and are interested acquiring further wind offtakes.

Mobile numbers, if prefer to email:

•

Cheers Nick

Head of Emerging Technologies



m +61 410 480 097
e nick.sissons@hydro.com.au
w www.hydro.com.au

From: Nick Sissons

To:
Subject: FW: Blank ISDA docs

Date: Tuesday, 6 July 2021 4:57:00 PM

Attachments: <u>image001[44].png</u>

Standard 2002 ISDA Schedule as at 14 1 2021.docx

2002 ISDA Master Agreement.pdf

CSA.PDF

February 2017 Environmental Products Addendum .pdf

Hydro Tasmania Standard Credit Support Annex Paragraph 11 - 14012021.docx

June 2006 Australian Electricty Addendum.pdf

See attached. This can be completed concurrently with the contract.

From: Elton Judd <Elton.Judd@hydro.com.au>

Date: Tuesday, 6 July 2021 at 4:25 pm

To: Erin van Maanen < Erin. Van Maanen @hydro.com.au >, Nick Sissons

<Nick.Sissons@hydro.com.au>

Cc: Ashley Reardon < Ashley.Reardon@hydro.com.au>

Subject: FW: Blank ISDA docs

Hi guys,

We have kicked off a Credit review for

In the meantime I have attached our standard ISDA for them to review.

Regards,

Elton Judd

Head of Commercial Risk



m +61 436 325 004

e elton.judd@hydro.com.au

w hydro.com.au

a 4 Elizabeth Street, Hobart TAS 7000

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From: Chris Boon < Chris. Boon@hydro.com.au>

Sent: Wednesday, 21 April 2021 4:12 PM

To:

Cc: Ashley Reardon < Ashley.Reardon@hydro.com.au>; Elton Judd < Elton.Judd@hydro.com.au>;

Tom Arnold <Tom.Arnold@hydro.com.au>

Subject: Blank ISDA docs



As discussed earlier today attached our blank ISDA documents for your review. Also attached are the environmental and electricity addendums and the Credit support annex which, at this stage, has not taken into account credit rating.

Would be good to get this up and running.

Cheers, Chris.

Chris Boon

Wholesale Transactions Manager



t +61 3 6230 5523 (note recorded line) | m +61 448 618 775

e chris.boon@hydro.com.au

w hydro.com.au

a 4 Elizabeth Street, Hobart TAS 7000

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| From: To: Subject: Date: Attachments: | Nick Sissons FW: Energy Enquiry Monday, 1 March 2021 12:24:52 PM image001[2].png image002.png image003.png |
|---|--|
| Hi | |
| Can you please of materials, detail | |
| Thanks Nick | |
| To: Nick Sisso | 1 March 2021 at 12:19 pm ns <nick.sissons@hydro.com.au> Energy Enquiry</nick.sissons@hydro.com.au> |
| Hi Nick | |
| online meeting f | solutely happy to meet in person, she would be equally comfortable with an for this initial discussion if that would be more convenient to save the trouble of a in Hobart and so is in Launceston, so there will be an element of |
| In terms of timir alternative woul | are available at 3:00pm this Wednesday if that suits, or an d be Thursday at 2:00pm. |
| • | ne back to me to confirm if either of those times suits that would be great, and ow if they are particularly keen to travel down or if connecting virtually would be |
| | or the representatives are able to provide some pre-briefing material that tic please, to inform some preparation for to get the best ne meeting. |
| Many thanks Nic | ck, please don't hesitate to give me a buzz if easier to discuss any of this. |
| | |

Please note, I finish at 2:30pm on Thursdays

Disclaimer

From: Nick Sissons [mailto:Nick.Sissons@hydro.com.au]

Sent: Thursday, 25 February 2021 10:43 AM

To:

Cc:

Caroline Wykamp < Caroline.Wykamp@hydro.com.au>

Subject: FW: Energy Enquiry

Hi

Nice to meet you.

If you have 60 minutes to meet with next week they will fly down for a preliminary discussion. They would prefer Wednesday but could do any day but Monday.

Let me know if you'd like me to arrange the details with them or if you'd prefer for to reach out directly.

Many thanks

Nick Sissons

Head of Emerging Technologies



m +61 410 480 097

e nick.sissons@hydro.com.au

w www.hydro.com.au

From: Caroline Wykamp < <u>Caroline.Wykamp@hydro.com.au</u>>

Sent: Wednesday, February 24, 2021 7:06:01 PM **To:** Nick Sissons Nick.Sissons@hydro.com.au

Subject: FW: DAME Energy Enquiry

| From: Sent: Wednesday, 24 February 2021 6:02 PM To: Caroline Wykamp < Caroline. Wykamp@hydro.com.au> |
|--|
| Cc: Subject: RE: Energy Enquiry |
| Hello Caroline |
| We would be happy to meet with . Neither or I have had contact with them as yet so we would welcome an introduction. |
| Best regards |
| |
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| |
| |
| From: Caroline Wykamp [mailto:Caroline.Wykamp@hydro.com.au] Sent: Tuesday, 23 February 2021 12:02 PM |
| To: Cc: Nick Sissons < Nick. Sissons@hydro.com.au > Subject: FW: Energy Enquiry |
| Hi |

I think should probably have directed the below email to yourselves.

have approached Hydro through our Commercial and Industrial Mainland retail business through Nick Sissons (cc'd).

They have indicated to Nick they could pay electricity prices of up to \$\(\bigs\)/MWh (just energy). have also indicated some creative employment opportunities, worth exploring.

I would be happy to work on a pricing term sheet and help out further where we can, but at this stage I think we need them to speak with you first.

I would guess that would be seeking land, grid (or behind the meter) connection, internet access and a location that is cold most of the year. Can we also help with that around a generation site?

I am happy to work with Nick and yourselves to set up a time to meet and discuss the broader business.

I also understand that could be flexible about tenure and are willing to start in smaller load sizes and build out.

How best to progress this opportunity? Please feel free to call me if that suits better.

Caroline

Caroline Wykamp

Executive General Manager, Commercial



m 0428-711-919

- e caroline.wykamp@hydro.com.au
- w hydro.com.au
- a Level 9, 4 Elizabeth st, Hobart 7000

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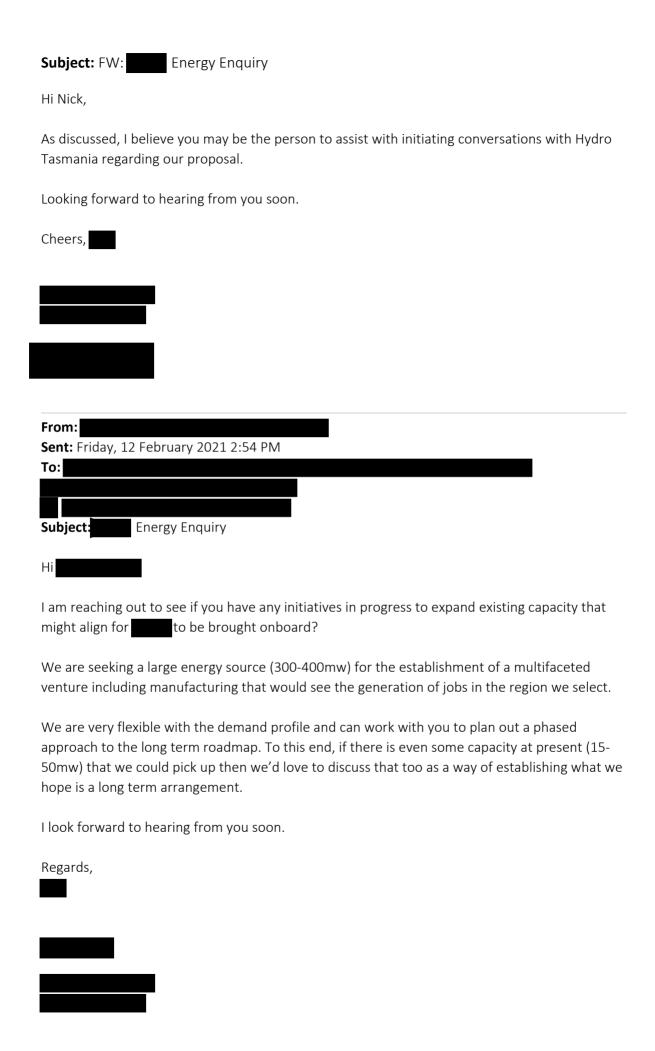
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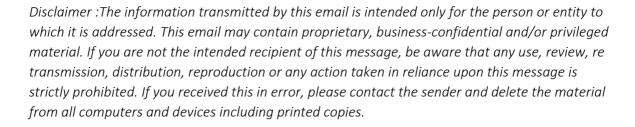
From:

Date: Wednesday, 17 February 2021 at 10:25 am

To: Nick Sissons < Nick. Sissons@hydro.com.au >

Cc: '





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From:
To:
Nick Sissons; Cameron McCulloch
Subject:
MC Lean Strategic Communications
Date:
Wednesday, 7 July 2021 12:14:14 PM

Gents,

For Executive Decision Makers and Critical Solutions, Tier 1 Management Consulting use 1:1:1 It is designed to accelerate decision making on objective and critical points and set expectations/pace in a functioning organisation "Focus on things that matter"

- 1 Min Headline;
- 1 Hour Outline; and,
- 1 Hour Deck

Cheers,



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From: <u>Nick Sissons</u>

To:
Subject: Onsite load in VIC

Date: Wednesday, 17 March 2021 12:18:49 PM

Attachments: image001[62].png

Hi Chris

As discussed, please meet . They are interested in large blocks (50-100MW) of BTM solar/wind load in VIC that Hydro Tas might be able to firm.

Please reach out if you and might be able to assist.

Cheers

Nick

Nick Sissons

Head of Emerging Technologies



m +61 410 480 097

e nick.sissons@hydro.com.au

w www.hydro.com.au

From: Nick Sissons
To: Subject: Presentation

Date: Monday, 31 May 2021 3:45:41 PM

Attachments: <u>image001[87].png</u>



Can you please send through the presentation you took us through last week? It has a lot of useful industry information I'd like to reference internally.

Cheers Nick

Nick Sissons

Head of Emerging Technologies



m +61 410 480 097
e nick.sissons@hydro.com.au
w www.hydro.com.au

Cheers Nick From:
To: Cameron McCulloch;
Cc: Nick Sissons
Subject: RE: Connection of Assets
Date: Wednesday, 17 March 2021 11:54:58 PM
Attachments: image001.png

Hey Cam,

Cheers,

Great to hear from you and looking forward to working through the clarifications next week.

I'm free all afternoon tomorrow otherwise I have some gaps on Friday morning.

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From: Cameron McCulloch < Cameron. McCulloch@hydro.com.au>

Sent: Wednesday, 17 March 2021 4:50 PM

To:

Cc: Nick Sissons < Nick. Sissons@hydro.com.au>

Subject: Connection of Assets

Hi

You may remember talking to me last time about the technical side of a proposal but the other aspects of the project were put on hold for various reasons.

Really happy to be talking to you both again and it's looking great this time around that the is across and a few other things are much better aligned.

I have already spoken with about the grid side of things so all lined up for a chat with them when we are ready.

I was hoping to have an initial chat with you tomorrow about some of the technical things I am suspecting will want to walk through. They are happy meeting next week too.

Are you happy to send through some times for tomorrow or Friday that might work and we will go from there?

Look forward to chatting in advance.

Regards,

Cameron McCulloch

Head of Asset Strategy and Risk BE (Hons), MIEAust, MIEEE, Adv. Dip. Mgmt



m +61 438 247 101

- e cameron.mcculloch@hydro.com.au
- E http://dropbox.yousendit.com/CameronMcCulloch4758112 (for large emails)
- w hydro.com.au
- a 4 Elizabeth Street, Hobart TAS 7000

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From: Nick Sallmann

To: Cameron McCulloch
Subject: RE: MVP Progression
Date: Tuesday, 20 July 2021 10:48:00 AM

, great to speak again.

Thank you for the account summary below.

As discussed, HT is making every effort to prioritise this issue and get back to manageable.

Will speak again this week.

Regards, Nick

From:

Sent: Friday, 16 July 2021 4:25 PM

To: Cameron McCulloch <Cameron.McCulloch@hydro.com.au>; Nick Sallmann

<NIck.Sallmann@hydro.com.au> **Subject:** MVP Progression

Gents,

Thanks for taking the session today to discuss progress.

As always – its healthy to have open and constructive dialogue to ensure all parties understand the processes and needs as we work collectively to shared outcomes for the State of Tasmania.

As noted in the session – HT still has a firm intent to execute on the energy contract for the MVP.

In good faith, HT can not give us definitive timings for execution and have no desire to delay the process further and suggest we engage through a Retailer to contract for Energy.

understands this position. We will be making undertakings to engage with a Retailer direct, noting that the Retailer will seek confirmation from HT for access provisions.

We look forward on continuing to build a strong trusted relationship far into the future. All the best, and thanks for the prompt response in return

Cheers,

Get Outlook for Android

From: Cameron McCulloch
To:
Subject: Re: Sites - Potential

Date: Saturday, 15 May 2021 4:58:47 PM

Yep, I'll try and get some things together noting has no building but could get one built pretty quick I reckon.

All have good access to low voltages too which is good so we don't need big HV transformers

Kind Regards, Cameron McCulloch

Head of Asset and Environment Strategy and Risk Assets and Infrastructure Hydro Tasmania 0438247101

From:

Sent: Saturday, May 15, 2021 4:53:33 PM

To: Cameron McCulloch < Cameron. McCulloch@hydro.com.au>

Subject: RE: Sites - Potential

Hi Cam,

Thanks for this – my quick take.

1/ seems to be leading candidate atm

2/ we think may accommodate the space – but needs confirmation

3/ better left for expansion sites atm.

Can you see if its possible to get some (if not all of the following);

- Basic Floor Plans of the Facilities
- Basic sitrep of the specifics of the Connection Details for each site?

This would help significantly prior to us coming down

Cheers,

From: Cameron McCulloch < Cameron. McCulloch@hydro.com.au>

Sent: Saturday, 15 May 2021 4:14 PM

To:

Subject: Sites - Potential

Kind Regards,

Cameron McCulloch

Head of Asset and Environment Strategy and Risk Assets and Infrastructure Hydro Tasmania 0438247101 From:
To: "Cameron McCulloch"; Cam Nelson
Cc: "Nick Sissons"

Subject: RE: Connection of Assets

Date: Thursday, 18 March 2021 7:38:45 AM

Attachments: <u>image001.png</u>

Hi cam,

I'm available most of the day - so can work in with your schedule.

Afternoon sounds good



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On 17 Mar. 2021, 11:53 PM +1100, wrote:

Hey Cam,

Great to hear from you and looking forward to working through the clarifications next week.

I'm free all afternoon tomorrow otherwise I have some gaps on Friday morning.

Cheers,

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From: Cameron McCulloch < Cameron. McCulloch @hydro.com.au>

Sent: Wednesday, 17 March 2021 4:50 PM

To:

Cc: Nick Sissons < Nick. Sissons@hydro.com.au>

Subject: Connection of Assets

Hi

You may remember talking to me last time about the technical side of a but the other aspects of the project were put on hold for various reasons.

| Really happy to be talking to you | both again and it's looking great this time around that |
|-----------------------------------|---|
| the | is across and a few other things are much better |
| aligned. | |

I have already spoken with about the grid side of things so all lined up for a chat with them when we are ready.

I was hoping to have an initial chat with you tomorrow about some of the technical things I am suspecting will want to walk through. They are happy meeting next week too.

Are you happy to send through some times for tomorrow or Friday that might work and we will go from there?

Look forward to chatting in advance.

Regards, Cameron McCullochHead of Asset Strategy and RiskBE (Hons), MIEAust, MIEEE, Adv. Dip. Mgmt

m +61 438 247

101e cameron.mcculloch@hydro.com.auE http://dropbox.yousendit.com/CameronMcCulloch4758112 (for

large emails)w hydro.com.aua 4 Elizabeth Street, Hobart TAS 7000 Please consider the environment before printing my emailThis e-mail and any attachments may contain confidential, proprietary or legally privileged information. If you are not the intended recipient, you must not keep, forward, disclose, adapt or copy the material and any such action is unauthorised and prohibited. If you have received this e-mail in error, please immediately advise the sender by return email and delete this e-mail and any attachments

from your system. Hydro-Electric Corporation ABN 48 072 377 158

From: <u>Cameron McCulloch</u>

Cc: Nick Sissons

Subject: Re: Connection of Assets

Date: Thursday, 18 March 2021 7:33:26 PM

Attachments: <u>image001.png</u>

Great to chat today both of you and look forward to hearing from you.

Chat soon.

To:

Kind Regards, Cameron McCulloch

Head of Asset Strategy and Risk Assets and Infrastructure Hydro Tasmania 0438247101

From:

Sent: Thursday, March 18, 2021 6:54:16 PM

To: Cameron McCulloch < Cameron. McCulloch@hydro.com.au>;

Cc: Nick Sissons < Nick. Sissons@hydro.com.au>

Subject: RE: Connection of

Thanks for your time today, Cam

I've reached out with the queries to our technical operation/integration teams.

They are optimistic they can provide an overview of high level requirements potentially as early as tomorrow.

Cheers,



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On 17 Mar. 2021, 11:53 PM +1100,

Hey Cam,

Great to hear from you and looking forward to working through the clarifications next week.

| I'm free all afternoon tomorrow otherwise I have some gaps on Friday morning. |
|---|
| Cheers, |
| |
| Disclaimer: The information transmitted by this email is intended only for the person or entity to which it is addressed. This email may contain proprietary, business-confidential and/or privileged material. If you are not the intended recipient of this message, be aware that any use, review, re transmission, distribution, reproduction or any action taken in reliance upon this message is strictly prohibited. If you received this in error, please contact the sender and delete the material from all computers and devices including printed copies. |
| From: Cameron McCulloch < Cameron.McCulloch@hydro.com.au> Sent: Wednesday, 17 March 2021 4:50 PM To: Cc: Nick Sissons < Nick.Sissons@hydro.com.au> Subject: Connection of Assets |
| Hi |
| You may remember talking to me last time about the technical side of a but the other aspects of the project were put on hold for various reasons. |
| Really happy to be talking to you both again and it's looking great this time around that the is across and a few other things are much better aligned. |
| I have already spoken with about the grid side of things so all lined up for a chat with them when we are ready. |
| I was hoping to have an initial chat with you tomorrow about some of the technical things I am suspecting s will want to walk through. They are happy meeting next week too. |
| Are you happy to send through some times for tomorrow or Friday that might work and we will go from there? |
| Look forward to chatting in advance. |
| Regards, Cameron McCullochHead of Asset Strategy and RiskBE (Hons), MIEAust, MIEEE, Adv. Dip. Mgmt m +61 438 247 |
| 101e <u>cameron.mcculloch@hydro.com.au</u> E <u>http://dropbox.yousendit.com/CameronMcCulloch4758112</u> (for |

large emails)w hydro.com.aua 4 Elizabeth Street, Hobart TAS 7000 Please consider the environment before printing my emailThis e-mail and any attachments may contain confidential, proprietary or legally privileged information. If you are not the intended recipient, you must not keep, forward, disclose, adapt or copy the material and any such action is unauthorised and prohibited. If you have received this e-mail in error, please immediately advise the sender by return email and delete this e-mail and any attachments

from your system. Hydro-Electric Corporation ABN 48 072 377 158

From: Caroline Wykamp

Cc: <u>Prajit Parameswar; Nick Sissons; Erin van Maanen;</u>

Subject: Re: commercial discussion

Date: Tuesday, 13 July 2021 8:47:45 AM

Hi Caroline,

I tried calling multiple time yesterday as I didn't hear anything back following the cancellation of this meeting... which in itself was a postponement of a meeting from last week... which was a follow up to a meeting from last Monday when we expected our contract to be presented.

To be blunt, I am at a loss when trying to understand what is taking place at your end. The lack of response from you is concerning.

If you could as a priority make some time to speak this morning that would be appreciated.

Regards,

From: Nick Sissons < Nick. Sissons@hydro.com.au>

Sent: Monday, July 12, 2021 4:15:49 PM

To: Erin van Maanen < Erin. Van Maanen @hydro.com.au>;

Caroline Wykamp < Caroline. Wykamp@hydro.com.au>

Cc: Prajit Parameswar < Prajit. Parameswar@hydro.com.au>

Subject: commercial discussion

Cancelling the Team meeting, Caroline will call you directly shortly.

From: Nick.Sissons@hydro.com.au **When:** 4:30 pm - 5:00 pm 12 July 2021 **Subject:** commercial discussion

Moving this to Monday when Caroline is back.

Join Teams Meeting

https://teams.microsoft.com/l/meetup-

join/

If you need a local number, get one here. And if you've forgotten the dial-in PIN, you can reset it.

| Learn More https://aka.ms/JoinTeamsMeeting Meeting options: | |
|---|--|
| https://teams.microsoft.com/meetingOptions/?organizerId=b | |
| | |
| | |
| | |
| | |

France
This
Subject: RE commercial discussion
Codes: Friday, Puby 2021 12:54:53 PM

Est.

Cas HT confirm that they will be in a position to have this discussion today?

We are been to close out any estatedaring items as soon as practicable.

Thanks in advance for your prompt response and both forward to executing the contract.

— Original Appointment—
From Nick Sissens - Nick Sissens (Nick Sissens) Applied to core and Sext. Wednesder, 1-36/2 (2013 St Md
Tar Nick Sissens; Erin von Manner, Papit Parameters
Sobject

When Permis 2 July 2021 4:00 PM-4-230 PM (UTC*10:00) Hoburt.
Where:

Land being trained and delay grantion and substant of the proposed of the pr

To: Caroline Wykamp Cameron McCulloch; Nick Sallmann; Nick Sissons; Chris Boon; Cc: Subject: Demonstrator Date: Friday, 14 May 2021 5:04:24 PM Attachments: image001.png Hi Caroline. Thank you very much for the correspondence – its timely to provide as we all set up to move forward on this programme together. I maybe remiss, and please correct me if I am incorrect – but due to the nature of the nuances of the processes in Tasmania we still require a direction from the to proceed in good faith towards a HoA between all? I'll stand by on clarification. Look forward to speaking soon, From: Caroline Wykamp < Caroline. Wykamp@hydro.com.au> **Sent:** Friday, 14 May 2021 4:46 PM To: Cc: Cameron McCulloch <Cameron.McCulloch@hydro.com.au>; Nick Sallmann <NIck.Sallmann@hydro.com.au>; Nick Sissons <Nick.Sissons@hydro.com.au>; Chris Boon <Chris.Boon@hydro.com.au>; Subject: Demonstrator I know my team have been discussing many aspects of the demonstrator project with you the over the recent few weeks. It is our intention to work with you to develop the demonstrator project with have discussed the proposal with all of these parties and have in principal agreement to progress a demonstrator project including the offering of a facility to house your equipment and to introduce you to to facilitate securing a

From:

grid connection.

We have identified a number of sites and plan to show you some of these to work through preferences late next week as well as introduce you to the Hydro Tasmania's key commercial contacts.

We look forward to progressing the demonstrator project and to explore many

further opportunities your company will bring to Tasmania.

Regards,

Caroline

Caroline Wykamp

Executive General Manager, Commercial



m 0428-711-919

- e caroline.wykamp@hydro.com.au
- w hydro.com.au
- a Level 9, 4 Elizabeth st, Hobart 7000

Executive Assistant: Lisa Austin E: <u>lisa.austin@hydro.com.au</u>

M: 0436 394 573

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From: amp; Cameron McCulloch; Nick Sissons; Nick Sallmann To: Cc: Subject: Progress Date: Wednesday, 30 June 2021 9:44:26 AM Caroline, et. al Can you please confirm per the below the summary and PoC post the session with (25 May 2021, Thanks for your prompt response, Disclaimer: The information transmitted by this email is intended only for the person or entity to which it is addressed. This email may contain proprietary, business-confidential and/or privileged material. If you are not the intended recipient of this message, be aware that any use, review, re transmission, distribution, reproduction or any action taken in reliance upon this message is strictly prohibited. If you received this in error, please contact the sender and delete the material from all computers and devices including printed copies. From: **Sent:** Thursday, 27 May 2021 5:24 PM To: Caroline Wykamp < Caroline. Wykamp@hydro.com.au>; Cameron McCulloch <Cameron.McCulloch@hydro.com.au>; Nick Sissons <Nick.Sissons@hydro.com.au>; Nick Sallmann < NIck. Sallmann@hydro.com.au> Cc: Subject: Progress **Importance:** High Hi Caroline and Team, Firstly, thankyou all for the opportunities to come to Tasmania this week to further progress in the broader Tasmanian economy, and the working relationship with HT in particular. As discussed in the conversations, I'll seek to formally summarise our understanding as we move forward – and if you could confirm or amend the following that would be of great assistance. We (collective of) have agreed to execute the Minimum Viable Product (MVP) on the Substation Site (on land); ■ The three parties will work together in collaborative manner on all aspects, except for commercial matters which are strictly between the direct parties;

will pursue the Connection and Facilities arrangements with

with HT through a Retailer (as

will pursue the

yet unidentified).

will provide Industry learnings and insights as part of this collaborative deployment as it pertains to HT forming a portfolio view of Digital Asset Mining in Tasmania

To assist in ensuring we have consistent guidance amongst the parties, can I please get clarity for the following PoC (noting Caroline as ultimate execution authority);

■ Power Agreement : Nick Sissons

• Operations : Cameron McCulloch

■ Strategy & Insights : Nick Sallmann

With your consent Caroline, we would seek to run regular, structured dialogue with your team to ensure we retain momentum (no more than 2 x 30min sessions per week, not all members required)

Thanks for your consideration – and we will be in touch soon,



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From:
To:
Subject:
RE:
Hydro meeting
Date:
Attachments:
Thursday, 18 March 2021 7:38:56 PM
Image001.png

Hi Caroline,

Just wanted to drop a note to commend your team working through these tranche of issues in a focused and considered manner.

We are cognisant of current internal changes currently occurring at HT, and personally wanted to say thank you for continuing to progress our opportunity in the current environment.

Look forward to speaking again soon.

Best Regards,



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On 10 Mar. 2021, 10:46 AM +1100, Caroline Wykamp < Caroline.Wykamp@hydro.com.au>, wrote:

HI We are progressing here internally. We will update you when we have got some movement on things. We have legal working with Nick and some other people in Hydro on ways to make it happen. Caroline Caroline Wykamp Executive General Manager, Commercial m 0428-711-919e caroline.wykamp@hydro.com.auw hydro.com.aua Level 9, 4 Elizabeth st, Hobart 7000 Please consider the environment before printing my emailThis e-mail and any attachments may contain confidential, proprietary or legally privileged information. If you are not the intended recipient, you must not keep, forward, disclose, adapt or copy the material and any such action is unauthorised and prohibited. If you have received this e-mail in error, please immediately advise the sender by return email and delete this e-mail and any attachments from your system. Hydro-Electric Corporation ABN 48 072 377

Sent: Tuesday, 9 March 2021 5:42 PMTo:

Nick Sissons <Nick.Sissons@hydro.com.au>; Caroline Wykamp

<Caroline.Wykamp@hydro.com.au>**Subject:** Re: /Hydro meeting

Hope this email finds you well.

We just wanted to drop a courtesy follow up to see if there was anything we can directly assist or clarify as you move through your internal processes.

For your own situational awareness, we are progressing as much as we can - and although high quality/profile interest is very enthusiastic there are obvious limits to which we can engage.

As always, myself or are happy to resolve anything as needed. Please don't hesitate to reach out.

Best Regards,

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Microsoft Teams meeting

Join on your computer or mobile app

Click here to join the meetingLearn More | Meeting options

 From:
 Nick

 Subject:
 RE: Draft

 Date:
 Friday, 11 June 2021 5:26:30 PM

Nick,

Thanks – we will review and revert over the weekend

Cheers,



From: Nick Sissons < Nick. Sissons@hydro.com.au>

Sent: Friday, 11 June 2021 3:58 PM

To:

Subject: Draft

As discussed....

From:
To:
Subject:
RE: Draft

Date: Monday, 21 June 2021 1:57:26 PM

Hi Nick,

Our understanding from discussions had at the end of last week, and earlier today (Telecon 0930 Monday 21 June 2021) is that Hydro Tasmania should be able to provide a response per the below.

We appreciate everyone is working hard to get a clarified outcome, however as mentioned previously – this is a critical path outcome for the program and for our Investment partners.

Can you please confirm and commit to point when we can expect to have the long form document to review and confirm.

Thanks in advance for your prompt response,



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Sent: Wednesday, 16 June 2021 12:23 PM

To: Nick Sissons <Nick.Sissons@hydro.com.au>

Cc:

Subject: RE: Draft

Hi Nick,

Thanks for providing the current

a for

It is our understanding that the following process is to occur to enable a please confirm this in the first instance.

[This email]

2. Hydro Tasmania to agree or provide rationale to alternative positions [Your Response]

[Hydro Tasmania to

and Hydro Tasmania to agree to set of

| 4. H | | cepts], this is in effect 'in-p and put into formalised | <u> </u> |
|---------|---|--|-------------------------------|
| 5. | to take the hrough contract nominat | <u> </u> | r to action billing in a pass |
| | provides the following in respons to discuss at your earliest conven | | consideration. |
| Regards | 5, | | |
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| | | | |

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From: Nick Sissons < Nick. Sissons@hydro.com.au >

Sent: Friday, 11 June 2021 3:58 PM

To:

Subject: Draft

As discussed....

From: ; "Nick Sissons"; To: Subject: Energy Enquiry Date: Tuesday, 2 March 2021 5:42:36 PM Attachments: image001.png image002.png image003.png Hi We can do digital meeting, and I will send through an overview pack tomorrow morning Best regards, Disclaimer: The information transmitted by this email is intended only for the person or entity to which it is addressed. This email may contain proprietary, business-confidential and/or privileged material. If you are not the intended recipient of this message, be aware that any use, review, re transmission, distribution, reproduction or any action taken in reliance upon this message is strictly prohibited. If you received this in error, please contact the sender and delete the material from all computers and devices including printed copies. On 2 Mar. 2021, 4:55 PM +1100, wrote: I hope you've had a great day. I just wanted to circle back re the meeting time for tomorrow – can you please let me know if you are intending to meet in person in which case I'll arrange a meeting room, or shall I send you a MS Teams link in the calendar invitation? Also, if you'd be able to provide some pre-briefing material as requested ASAP that would be fantastic please, for some background for prior to the meeting. Many thanks

| From: Sent: Monday, 1 March 2021 5:39 PM |
|---|
| To: Nick Sissons Nick Sissons |
| Subject: RE: FW: Energy Enquiry |
| |
| Hi |
| |
| I have confirmed 3:00pm this Wednesday 3 rd March for |
| Please confirm if you'd prefer to travel and meet in person, or connect virtually via MS Teams in which case I'll include a meeting link with the invitation. |
| |
| Many thanks |
| |
| |
| |

| _ | • |
|--|--|
| From: Sent: Monday, 1 March 2021 1:34 PM | |
| To: Sissons < Nick. Sissons @hydro.com.au > | Nick |
| Subject: Re: FW: Energy Enquiry | |
| | |
| Hi Nick | |
| We can do either slot (at your convenience). Preference for Wednesday if possible? | |
| It's likely the third director, I will forward invite to him once confirmed. | will be in attendance also of that is ok?. |
| Thanks in advance for your prompt response | |
| | |
| | |
| | |



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On 1 Mar. 2021, 12:25 PM +1100, Nick Sissons < Nick. Sissons@hydro.com.au >,

| V | vrote: |
|---|---|
| | Hi |
| | Can you please confirm with your preferred time and send through some background materials, details below. |
| | Thanks |
| | Nick |
| | |
| | From: Date: Monday, 1 March 2021 at 12:19 pm To: Nick Sissons < Nick. Sissons @hydro.com.au > Subject: FW: Energy Enquiry Hi Nick |
| | Thank you for helping connect |
| | While is absolutely happy to meet in person, she would be equally comfortable with an online meeting for this initial discussion if that would be more convenient to save the trouble of traveling. is in and is in it is in the same of videoconferencing in any case. |
| | In terms of timing, are available at 3:00pm this Wednesday if that suits, or an alternative would be Thursday at 2:00pm. |

| If you could come back to me to confirm if either of those times suits that and please let me know if they are particularly keen to travel down or if convirtually would be a better option. | |
|--|------------------|
| Also, if yourself or the representatives are able to provide some promaterial that would be fantastic please, to inform some preparation for P get the best outcome from the meeting. | |
| Many thanks Nick, please don't hesitate to give me a buzz if easier to disc | uss any of this. |
| | |
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| | |

From: Nick Sissons [mailto:Nick.Sissons@hydro.com.au]
Sent: Thursday, 25 February 2021 10:43 AM

To:

| Cc: ; Caroline Wykamp < Caroline.Wykamp@hydro.com.au> Subject: FW: Energy Enquiry |
|---|
| Hi |
| Nice to meet you. |
| If you have 60 minutes to meet with next week they will fly down for a preliminary discussion. They would prefer Wednesday but could do any day but Monday. |
| Let me know if you'd like me to arrange the details with them or if you'd prefer for to reach out directly. |

Many thanks

Nick Sissons

Head of Emerging Technologies



m +61 410 480 097

e nick.sissons@hydro.com.au

w www.hydro.com.au

From: Caroline Wykamp < <u>Caroline.Wykamp@hydro.com.au</u>>

Sent: Wednesday, February 24, 2021 7:06:01 PM **To:** Nick Sissons Nick.Sissons@hydro.com.au

Subject: FW: DAME Energy Enquiry

| As discussed |
|--|
| From: Sent: Wednesday, 24 February 2021 6:02 PM To: Caroline Wykamp < Caroline. Wykamp@hydro.com.au > Cc: Subject: RE: Energy Enquiry |
| Hello Caroline |
| We would be happy to meet with them as yet so we would welcome an introduction. |
| Best regards |
| |
| |
| |
| |
| |
| |

| From: Caroline Wykamp [mailto:Caroline.Wykamp@hydro.com.au] Sent: Tuesday, 23 February 2021 12:02 PM To: Cc: Nick Sissons < Nick.Sissons@hydro.com.au > Subject: FW: Energy Enquiry |
|---|
| Hi |
| I think should probably have directed the below email to yourselves. |
| have approached Hydro through our Commercial and Industrial Mainland retail business through Nick Sissons (cc'd). |
| They have indicated to Nick they could pay electricity prices of up to \$\frac{1}{2}/MWh (just energy). have also indicated some creative employment opportunities, worth exploring. |
| I would be happy to work on a pricing term sheet and help out further where we can, but at this stage I think we need them to speak with you first. |
| I would guess that would be seeking land, grid (or behind the meter) connection, internet access and a location that is cold most of the year. Can we also help with that around a generation site? |
| I am happy to work with Nick and yourselves to set up a time to meet and discuss the broader business. |

I also understand that could be flexible about tenure and are willing to start in smaller load sizes and build out.

How best to progress this opportunity? Please feel free to call me if that suits better.

Caroline

Caroline Wykamp

Executive General Manager, Commercial



m 0428-711-919

- e caroline.wykamp@hydro.com.au
- w hydro.com.au
- a Level 9, 4 Elizabeth st, Hobart 7000

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From:

Date: Wednesday, 17 February 2021 at 10:25 am **To:** Nick Sissons NickSissons@hydro.com.au

Cc:

Subject: FW: Energy Enquiry

Hi Nick,

As discussed, I believe you may be the person to assist with initiating conversations

with Hydro Tasmania regarding our proposal. Looking forward to hearing from you soon. Cheers, From: Sent: Friday, 12 February 2021 2:54 PM To: Cc: **Subject:** Energy Enquiry Hi I am reaching out to see if you have any initiatives in progress to expand existing capacity that might align for to be brought onboard? We are seeking a large energy source (300-400mw) for the establishment of a multifaceted venture including manufacturing that would see the generation of jobs in the region we select. We are very flexible with the demand profile and can work with you to plan out a phased approach to the long term roadmap. To this end, if there is even some capacity at present (15-50mw) that we could pick up then we'd love to discuss that too as a way of establishing what we hope is a long term arrangement. I look forward to hearing from you soon.



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From: Nick Sissons

To:

Re: Hydro Tasmania Power

Subject: Re: Date: We

Wednesday, 9 June 2021 8:00:57 AM

Will chase up now. Could only find 9am spot tomorrow with Erin/Dean (new Head of Trading). Are you free tomorrow morning instead?

From:

Date: Wednesday, 9 June 2021 at 7:54 am

To: Nick Sissons < Nick. Sissons@hydro.com.au>,

Subject: RE: Hydro Tasmania Power

Good luck on the test Nick.

Do we have a to review in the meantime?

Cheers,

From: Nick Sissons < Nick. Sissons@hydro.com.au>

Sent: Wednesday, 9 June 2021 7:53 AM

To:

Cc:

Subject: Re: Hydro Tasmania Power

Sent too soon.

Getting covid test 1:30-2pm so may not be around. Also need to sit down with Erin and new pricing guy first. Will try and tee that up over lunch...

From: Nick Sissons < Nick. Sissons@hydro.com.au >

Date: Wednesday, 9 June 2021 at 7:51 am

To:

Subject: Tentative: Hydro Tasmania Power

From:
To: "Cameron McCulloch"

Cc: Nick Sissons; Subject: RE: Intention to Engage (sites + facilities)

Date: Wednesday, 7 April 2021 2:50:03 PM

Ack.

Thanks for the clarification



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On 7 Apr 2021, at 12:38 pm, Cameron McCulloch <<u>cameron.mcculloch@hydro.com.au</u>> wrote:

Thanks the only bit I would change is identification of interested site – this hasn't been discussed with in terms of only one site and only conceptual thinking at this stage. Other than that all good.

From:

Sent: Wednesday, 7 April 2021 10:54 AM

To: Cameron McCulloch < Cameron. McCulloch@hydro.com.au>; Nick Sissons

<Nick.Sissons@hydro.com.au>

Cc:

Subject: Intention to Engage (sites + facilities)

Hi Cam.

Thanks for the clarification call today (REF: Telecon 1000 Wed 7 Apr 2021).

Per our talking points, we understand the following is occuring and intending to occur;

- HT/ drafting a precursor document (aka Intention to Engage via discovery) for potential Sites and/or facilities (Today 7 Apr)
- HT/ have identified a site of interest that may meet all requirements for this first demonstrator phase.
- to review and revert documents to enable; a,
- Site Visit and HoA workshop to initiate a Site Activation and Operation (likely WS 19

Apr 2021)

- Alignment of and Facility Document prior to signing and initiation.

Let me know if I've missed or misunderstood anything.

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 From:
 "Cameron McCulloch"

 Cc:
 Nick Sissons: "

Cc: Nick Sissons; 'Subject: RE: Site and Facility Considerations

Date: Wednesday, 31 March 2021 12:01:02 PM

Thanks for the detail response, Cam.

To quickly cover off the key points you raised;

1/ The Internal layout is dependent on the larger physical building but is equipped with COTS/MOTS assembly of the racks and ancillaries. The space, volume is dictated by size of facility and is always designed to suit. (Implemention lead has inducated this is not a significant design challenge to overcome. Function of very few parameters)

2/ Containerised solutions are for small scale deployment (They draw ~1MW and are inefficient in supplementary hotel load). Anything greater than ~10-15MW per site becomes highly ineffective as you have high level of redundant systems coupled with inefficient setups

3-5 Noted on our side too.

To accelerate our progress, it's been noted by our Implementation Lead that it's a 'leader:follower's arrangement. That is, let's down select a site and we design to that.

With that in mind, may I suggest HT provide their list with their preferred locations, rationale and likely connection type?

If any of those sites are incompatible we can strike them off (with rationale) and then move forward with a preferred and 2-3 backups.

At that point, it will be logical to have a face : face technical session to break down the works, accountabilities, schedule and financing that will integrate into

As always - happy for guidance, just proposing an efficient pathway to execute. Any site we down select can trigger the connection mechanism in parallel so we can press 'go' on site activation.

Reach out to discuss if needed.

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printed copies.

On 30 Mar 2021, at 6:18 pm, Cameron McCulloch < cameron.mcculloch@hydro.com.au wrote:

Hi

Some comments below in red.

It would be good to start getting some technical information through so we can start filling the gaps on the works required for implementation.

Just as some prompters and initial thoughts:

- Is there a standard physical layout that you have either implemented before or conceptually designed (including chips, racks, cooling etc.)?
- Preference for hard stand/containerised modular solution vs. fixed facility (I'm mindful of planning requirements for fixed not by any means huge deal, just minor risk of delay)
- Information on protection and control systems including any dynamic mathematical models/representation that exists of the assets. This will help with the National Electricity Rules (NER) requirements I had put in the well as the integration design.
- Security requirements (fencing, cameras, manning etc.).



Regards,

Cameron McCulloch

Head of Asset Strategy and Risk

BE (Hons), MIEAust, MIEEE, Adv. Dip. Mgmt



m +61 438 247 101

e cameron.mcculloch@hydro.com.au

E http://dropbox.yousendit.com/CameronMcCulloch4758112 (for large emails)

w hydro.com.au

a 4 Elizabeth Street, Hobart TAS 7000

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If I have misunderstood or misrepresented anything, please let me know - we keen to

commence the Workshop once we have a

Any queries as always, please dont reach out to discuss



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From: To: Subject: RE: TAS wind off take Date: Monday, 28 March 2022 2:15:01 PM **Attachments:** image002.png image003.png Hey Nick, Thanks for the intro:) Hi Would be keen to learn more about your business and how the roadmap to energisation is envisaged. I'm usually more free in the arvo to talk. Cheers, Disclaimer: The information transmitted by this email is intended only for the person or entity to which it is addressed. This email may contain proprietary, business-confidential and/or privileged material. If you are not the intended recipient of this message, be aware that any use, review, re transmission, distribution, reproduction or any action taken in reliance upon this message is strictly prohibited. If you received this in error, please contact the sender and delete the material from all computers and devices including printed copies. From: Nick Sissons < Nick. Sissons@hydro.com.au> **Sent:** Monday, 28 March 2022 2:03 PM To: Subject: TAS wind off take Hi all As discussed , the CEO of They have a , please meet growing portfolio of assets in Tasmania and are interested acquiring further wind offtakes.

Mobile numbers, if prefer to email:

•

Cheers Nick

Head of Emerging Technologies



m +61 410 480 097
e nick.sissons@hydro.com.au
w www.hydro.com.au

From:
To: "Cameron McCulloch"

Cc:Nick Sissons;Craig Emmett;Subject:Re: TentativeSite Visit

Date: Tuesday, 20 April 2021 11:24:41 AM

Thanks Cam,

We are flexible for dates - with some notice.

Happy to discuss prior if possibly.

Were you going to send through the documentation?

I've added our CTO on the cc list FYSA

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On 20 Apr 2021, at 2:07 am, Cameron McCulloch <<u>cameron.mcculloch@hydro.com.au</u>> wrote:

No worries will be a bit more difficult than the rest of us to line up and don't want to mess you around. Will know a lot more tomorrow.

Kind Regards, Cameron McCulloch

Head of Asset Strategy and Risk Assets and Infrastructure Hydro Tasmania 0438247101

From:

Sent: Monday, April 19, 2021 10:47:10 PM

To: Cameron McCulloch < Cameron. McCulloch@hydro.com.au>

Cc: Nick Sissons < Nick. Sissons@hydro.com.au>;

Emmett < Craig. Emmett@hydro.com.au>

Subject: Re: Tentative

Thanks Cam,

I'll check with the team and revert. I'm already committed to Sydney on the fifth - so will seek to try and move it.

It's the only day I can't travel in the next month unfortunately.

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On 19 Apr 2021, at 10:06 pm, Cameron McCulloch < cameron.mcculloch@hydro.com.au> wrote:

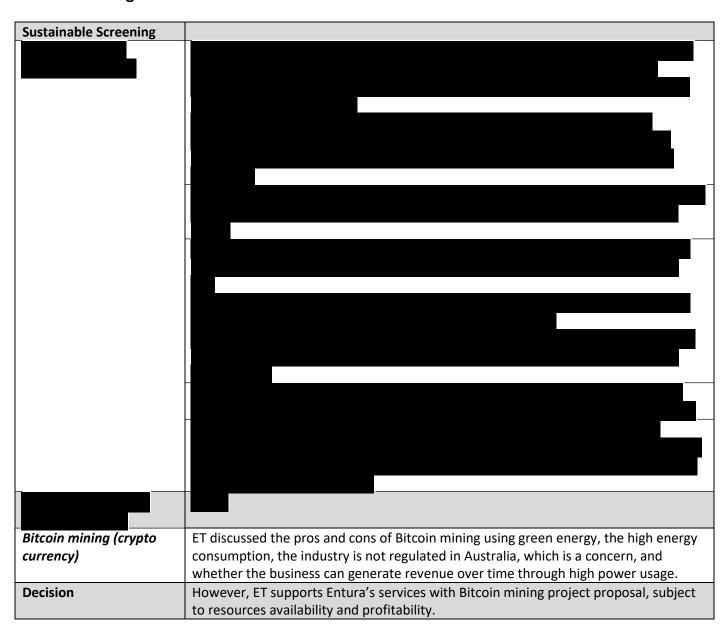
Tentative site visit - Caroline to work on trying to line up the I am also working on in parallel.



Minutes of Meeting

| Name of meeting: | Entura Executive Team call meeting –Sustainable Screening | | | | | |
|------------------|---|-------|---------------|-----------|------------------|--|
| Date: | Thursday 2 Dec 2021 | Time: | 1.30pm-2.00pm | Location: | MS Teams meeting | |
| Invitees: | Tammy Chu (TC), | · | | | | |
| Guests: | | | | | | |
| Apologies: | | | | | | |

Matters Arising



From:
To: HT Entura ET

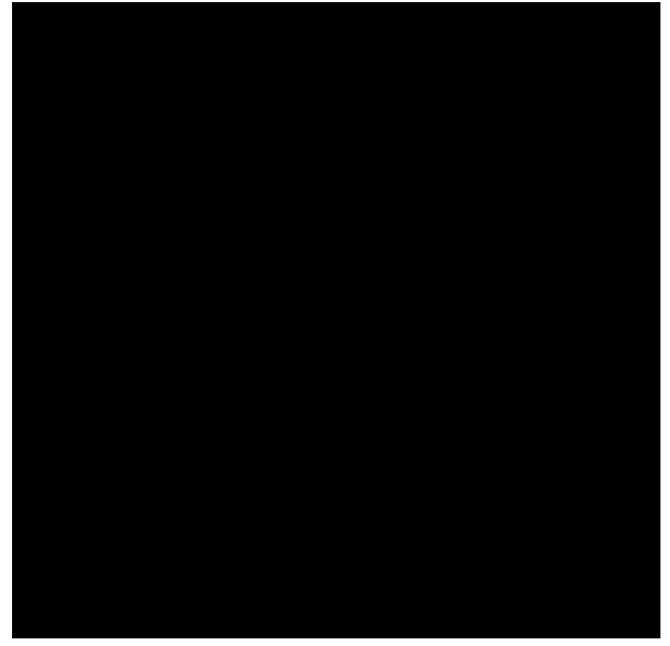
Subject: Screening issues for immediate discussion **Date:** Subject S

Attachments:

image001.png image002.png

Team

We have had a couple of things brewing over the last few days since mid-late last week.



Bitcoin mining (crypto currency)

We have been receiving enquiries for support with bitcoin mining centres and this has raised a question of our position. Bitcoin mining is attracting a lot of attention not just from financial/economic perspectives but also from controversy over emission intensity (they are power guzzlers so argument is big emissions impact for little value). Some countries are taking policy and legal steps around bitcoin mining and crypto currency regulation (China has banned) but Australia is yet to provide direction or position. At the State level HT Commercial would be looking to such potential customers (as they have highlighted for Data Centres in general) and I am unaware as yet if there is a company position on bitcoin mining. In practice, given the reality

of power supply, I imagine HT would be looking to negotiate with such load owners. We have previously had an enquiry re Tasmania but current enquiry is on mainland in NSW. We do need to respond ASAP on this one too.

On the face of it, quick research would point to:

- Bitcoin mining is very energy intensive producing an imaginary (but valued) product, though only providing value to a few. A bitcoin mining centre will not provide much broader community value.
- Companies have tended to chase low energy prices so literally geographically move their operations for the best energy price.
- Industry is under pressure to use renewable energy to mine for bitcoin to offset it's carbon emissions. Some studies indicate that bitcoin mining produces as much carbon emissions as a small country. For new mining centres, some argue renewable energy could be put to better use replacing the use of fossil fuels in other industries.
- Some bitcoin mining companies are trying to change. For example, one Australian company says they use excess hydropower produced in Canada to power their mining operations in order to reduce emissions.
- Bitcoin is unregulated and price sensitive e.g. Elon Musk can tweet and impact the price significantly
- With less and less bitcoin available over time, the energy required to mine will increase, making the process even more energy intensive.
- Tasmanian Govt (and HT) is supportive of new datacentres but has not made any specific policy statements on bitcoin mining.

So perhaps a criteria based assessment could help us decide on case by case so we are considering the balance of electricity use being renewable and the value/contribution being also provided to the network.

| Energy intensive | Tapped from 100% green grid | any community value | Remarks | |
|---------------------|--------------------------------|------------------------|---|--|
| ✓ | X | Х | Not a desirable combination | |
| ✓ | √ | Х | This is probably fine given no carbon emissions but could be an issue if other important loads are competing for the same renewable energy | |
| ✓ | X | ✓ (FCAS support) | This is where the current opportunity sits | |
| √ | ✓ | ✓ (FCAS support) | This is the best combination as despite being energy intensive, carbon emissions is not a issue. Additionally gives grid support. This would happen if this project was to connein SA or Tasmania and is registered to provide FCAS | |

Without an imminent ET meeting and judging by calendars, I am seeking the best way forward. Perhaps you can peruse materials and we can squeeze in a 30 min chat in next day or two.

| BA, Grad Dip Env St (Hons), PhD |
|--|
| ? |
| p |
| wentura.com.au |
| a 89 Cambridge Park Drive, Cambridge TAS 7170, Australia Connect with us on Facebook, Twitter and LinkedIn |
| Connect with us on <u>Facebook</u> , <u>Twitter</u> and <u>Linkedin</u> |

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From: Nick Sissons To: Cameron McCulloch Cc: Subject: Re: Inputs Date: Friday, 11 June 2021 10:21:42 AM Attachments: image001[55].png image002.png image003.png image004.png image005.png image006.png image007.png image008.png image009.png image010.png image011.png image012.png image013.png image014.png image015.png image016.png image017.png

image018.png image020.png

Hi

We are still working through the process and it looks like it might take some time to coordinate all the parties. As soon as we have a working draft, I will send it to you.

In the interim, your best bet is to reach out to a retailer for energy supply. It is likely HT's minimum load of 50 MW to provide wholesale pricing will not change so please let us know if your energy needs increase.

If you need a network connection, I can provide the right contact at TasNetworks for you.

Thanks for your patience.

Cheers

Nick

From:

Date: Wednesday, 9 June 2021 at 11:38 am

To: Nick Sissons < Nick. Sissons@hydro.com.au>, Cameron McCulloch

<Cameron.McCulloch@hydro.com.au>

Cc:

Subject: Re: Inputs

Hi Nick and Cameron

Just following up on our previous discussions where you committed to providing an update after your discussions with

Can you confirm if these discussions occurred earlier this week and advise when we will likely receive further clarity on timing and process.

Thanks



From: Nick Sissons <Nick.Sissons@hydro.com.au>
Sent: Monday, May 31, 2021 10:11 AM

To:

<Cameron McCulloch
<Cameron.McCulloch@hydro.com.au>

Cc:

Subject: Re:

Inputs

Absolutely, are you free tomorrow afternoon to discuss? Send a few times that work and I'll send through an invite. Does Teams work for you?

Nick

| From: | | | | |
|--|---|--|--|--|
| Date: Monday, 31 May 2021 at 10:08 am | | | | |
| To: Nick Sissons < Nick.S | .Sissons@hydro.com.au>, Cameron McCulloch | | | |
| <cameron.mcculloch@< td=""><th>@hydro.com.au></th><td></td></cameron.mcculloch@<> | @hydro.com.au> | | | |
| Cc: | | | | |
| | | | | |
| Subject: Re: | Inputs | | | |

Hi Nick and Cameron

Just following up on the email I sent through on Thursday. Have you had a chance to review, and do you have any additional feedback?

Please let me know if you would like to set up a call to discuss.

Regards



From:
Sent: Thursday, May 27, 2021 7:22 PM

To: Nick Sissons < Nick. Sissons@hydro.com.au>;

Cc: Cameron McCulloch <Cameron.McCulloch@hydro.com.au>;

Subject: Re: Inputs

Hi Nick

Thank you for sending through the

Hydro's unregulated rate card flat swap pricing (this week's card attached), however this does not appear to be the case.

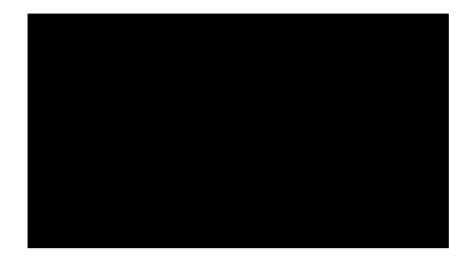
We understand that

We would like to understand what the key drivers for the quoted price

and what potential levers could be pulled to bring this down somewhat.

Happy to set up a call to discuss.

Thanks in advance



From: Nick Sissons < Nick. Sissons@hydro.com.au>

Sent: Thursday, May 27, 2021 6:13 PM

To:

Cc: Cameron McCulloch <Cameron.McCulloch@hydro.com.au>

Subject: Re: Inputs

Hi

Please see attached our for new load. There is no variation in pricing between MW.

We're keen to learn about your partner and their proposed operating model as we develop an appropriate framework for supporting this important industry.

Please let me know when you're free to discuss.

Many thanks Nick

Nick Sissons

Head of Emerging Technologies

m +61 410 480 097

e nick.sissons@hydro.com.au

w www.hydro.com.au

Date: Thursday, 27 May 2021 at 10:48 am To: Nick Sissons < Nick. Sissons@hydro.com.au> **Subject:** Fwd: Inputs Kind Regards, Cameron McCulloch Head of Asset and Environment Strategy and Risk Assets and Infrastructure Hydro Tasmania 0438247101 From: **Sent:** Tuesday, May 25, 2021 11:49:07 AM To: Cameron McCulloch <Cameron.McCulloch@hydro.com.au> Cc: Subject: Inputs Hi Cameron As discussed if there would be a material difference in the price for beneficial to have the two separate pricing scenarios. Please let us know if you require any other information to feed into . If you could also provide an indication when you will have the finalised that would assist from an internal planning perspective. Many thanks

From: Cameron McCulloch < Cameron. McCulloch@hydro.com.au>



From:

Sent: Sunday, May 23, 2021 8:52 PM

To: Cameron McCulloch <Cameron.McCulloch@hydro.com.au>

Cc:

Subject: Re: Introduction - HydroTas to

Thanks Cameron

If you could make time for a call tomorrow that would be appreciated. No issue with a member of the commercial team joining the call.

Did you have a firm time for the call? Still 10am or is there another time that would better suit?

Looking forward to the discussion.

Regards



From: Cameron McCulloch <Cameron.McCulloch@hydro.com.au>
Sent: Sunday, May 23, 2021 8:18 PM
To:
Cc:
Subject: Re: Introduction - HydroTas to

Hi

Now I understand, I wasn't planning on bringing any of the other parties into the discussion either, I was refereeing to all of our other meetings and site visits planned, it is just a timing thing but understand ASAP is preferable and is from my point of view too on the pricing side.

Should I try and give you a call on the off chance tomorrow then and it will be just me and potentially one of my hydro commercial representatives?

Kind Regards, Cameron McCulloch

Head of Asset and Environment Strategy and Risk Assets and Infrastructure Hydro Tasmania 0438247101

From:

Sent: Sunday, May 23, 2021 7:48:09 PM

To: Cameron McCulloch < Cameron. McCulloch@hydro.com.au>

Cc:

Subject: Re: Introduction - HydroTas to

Hi Cameron

Just to confirm we have already been in discussions with and and don't need to be present for the meeting, we simply need to talk to Hyrdo about the mechanism available for fixing electricity prices for the project should the connection be possible.

If subsequent to the initial meeting there is a need to bring other stakeholders in on the discussion we are happy to do that, however we would like to get the ball rolling on the pricing side of this as priority.

Any questions please let me know.

Regards



From: Cameron McCulloch < Cameron. McCulloch@hydro.com.au>

Sent: Sunday, May 23, 2021 7:26 PM

To:

Cc:

Subject: Re: Introduction - HydroTas to

Thanks ,

Sorry to be difficult but would you be ok with later in the week now? Organising and the proponent for all the meetings is at least going to consume the next day and a half now. And then I'm at our Board meeting in Launceston.

I'm not sure how flexible you are but may be able to bring forward but looks like I have at least lost tomorrow.

Sorry to mess you around. Did you want to propose some times maybe Wednesday onwards?

Apologies again.

Kind Regards, Cameron McCulloch

Head of Asset and Environment Strategy and Risk Assets and Infrastructure Hydro Tasmania 0438247101

From:

Sent: Sunday, May 23, 2021 6:51:44 PM

To: Cameron McCulloch < Cameron. McCulloch@hydro.com.au>

Cc:

Subject: Re: Introduction - HydroTas to

Hi Cameron

Thanks for the prompt reply.

10am works well. I will send through a MS Teams meeting invite.

Regards



From: Cameron McCulloch <Cameron.McCulloch@hydro.com.au>

Sent: Friday, May 21, 2021 7:25 PM

To:

Cc:

Subject: Re: Introduction - HydroTas to

Hi ,

How is 10am Monday morning?

Kind Regards, Cameron McCulloch

Head of Asset and Environment Strategy and Risk Assets and Infrastructure Hydro Tasmania 0438247101

From:

Sent: Friday, May 21, 2021 5:13:58 PM

To: Cameron McCulloch

<Cameron.McCulloch@hydro.com.au>

Cc:

Subject: Re: Introduction - HydroTas to

Cameron - Do you have some availability Monday morning for an initial call in relation to the below? Is there a time that would work best from your end?

Looking forward to the discussion

Regards



From:
Sent: Friday, May 21, 2021 2:53 PM

To: Cameron McCulloch <Cameron.McCulloch@hydro.com.au>;

Cc:
Subject: Introduction - HydroTas to

Hi Cameron and Lindsay

As discussed, I am pleased to introduce you both via email.

Cameron — is a partner in based consulting firm. The Office has had a number of discussions with recently and the firm is representing a client which is investigating cryptocurrency mining within the State. is interested in having discussions with HydroTas to explore pricing aspects and potential site locations.

Cameron McCulloch is head of Asset and Environment Strategy and Risk for HydroTas

| I will leave it up to you to reach out to Cameron to make a mutually convenient time to discuss further. |
|--|
| Please feel free to contact me should you have any questions. |
| Kind regards |
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and is well placed to further discussions in this space.

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From: <u>Caroline Wykamp</u>

To: ; Nick Sissons
Cc: Lisa Austin (Lisa.Austin@hydro.com.au)

Subject: RE: Intro to

Date: Thursday, 4 March 2021 7:38:00 AM

Attachments: <u>image001.pnq</u>



I am keen to get a debrief.

Also, the you spoke about was just energy? Not energy and transmission?

Hydro only offers energy, TasNetworks offer transmission.

I understand though that you would already know this with your knowledge of Tas.

Lisa can you find 30 mins please.

Caroline

Caroline Wykamp

Executive General Manager, Commercial



m 0428-711-919

- e caroline.wykamp@hydro.com.au
- w hydro.com.au
- a Level 9, 4 Elizabeth st, Hobart 7000

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From:
Sent: Wednesday, 3 March 2021 3:57 PM
To: Caroline Wykamp < Caroline. Wykamp@hydro.com.au>;
<Nick. Sissons@hydro.com.au>
Subject: Re: Intro to

Hi Caroline/Nick,

We had our session with

Be keen to backbrief, will reach out to you in short term regardless.

It was clear he saw merit within the approach and questioned why it had not come to their attention previously.

Look forward to your response,



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On 1 Mar. 2021, 12:45 PM +1100, Nick Sissons < Nick. Sissons@hvdro.com.au >, wrote:

Microsoft Teams meeting

Join on your computer or mobile app Click here to join the meeting

<u>Learn more</u> | <u>Meeting options</u>

From: Cameron McCulloch

Cc: Caroline Wykamp; Nick Sissons;
Subject: Information Request
Thursday, 20 May 2021 1:05:48 PM

Hi Cam et. al,

As part of our ongoing process for operating in Tasmania, there are a few artefacts and communications that need some more robust documentation.

Predominately, this factors around three (3) key artefacts that we need to ensure we are all in alignment on;

2. The Basis of the Site and Facilities (and,

3. The Basis of the Connection, how we are progressing the type of connection and why.

May I ask, for a process of audit and recognition between the two parties that we seek to close these as soon as possible?

I can discuss with you on our next call the most efficient way to do this, nominally I would propose the following;

We require them as part of our Equity Due Diligence that underpins our capital provisioning. I'm confident this is already generated, but to provide in clear and discrete manner would be greatly appreciated

Additionally, we have made significant progress across two other elements in the last week which we are very keen to share in a formal way F2F next week.

In the interim, to amplify the dialogue – our Design/Integration Partner is confident they can provide a high spec design as early as mid next week if HT is able to provide;

• The Preferred Site Building Floor Plans and Current Connections

Any queries, please reach out to discuss Look forward to the prompt response



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From: Nick Sissons

Subject: FW: Connection costs

Date: Thursday, 8 July 2021 9:09:52 AM

Attachments: <u>image001[51].png</u>

Perhaps you want to chase up, I haven't heard anything back.

Nick

To:

From: Nick Sissons < Nick. Sissons@hydro.com.au>

Date: Tuesday, 6 July 2021 at 2:01 pm

Cc: Prajit Parameswar < Prajit. Parameswar@hydro.com.au>

Subject: Connection costs

Hi

We have a clarification in our regarding the expected costs to make their load respond to interruptibility services. The services we envisage are below. Would you have an estimate on the comms or other connection costs they may need to incur to provide these services?

These schemes include (but are not limited to):

- O Special Protection Scheme (SPS) which mitigates the unplanned interruption of the Basslink Interconnector (Basslink);
- O Generator Contingency Services (GCS) which mitigates the trip of the large combined-cycle gas turbine at Tamar Valley Power Station;
- O Provision of primary proportional response to be triggered if local frequency deviates outside 50Hz; and
- O Adaptive Under Frequency Load Shedding Scheme (AUFLS) which provides an alternative source of Fast Raise Frequency Control Ancillary Services in Tasmania;

Please give me a call if easier, or that's not clear.

Cheers

Nick

Nick Sissons

Head of Emerging Technologies



m +61 410 480 097
e nick.sissons@hydro.com.au
w www.hydro.com.au