

From: [redacted]

Sent: 11 January 2021 17:41

To: [redacted]; Energy and Climate Change - Business Management [redacted]; [redacted]; [redacted]; [redacted];

Cc: [redacted]

Subject: RE: 202100132049 - EIR - Scotland's share of offshore wind and tidal resources - request for relevant information - deadline - 20 January 2021

Hi [redacted]

Good afternoon. I have attached an eRDM link to our stakeholder brief (now somewhat out of date). This is the only reference that I am aware of other than those dating back to published documents, Blue Seas Green Energy, the 2013 Offshore Wind Wave & Tidal plan and National Marine Plan. I have copied in [redacted] so that he is also aware of your request.

Thanks

[redacted]

[redacted]

[redacted]

Marine Scotland - Planning, Development & Crown Estate Strategy Unit

Scottish Government | Area GB - North | Victoria Quay | Edinburgh | EH6 6QQ

Tel: CURRENTLY WORKING FROM HOME

Mob: [redacted]

e: [redacted]

w: [redacted]

From: [redacted] [redacted]

Sent: 11 January 2021 16:45

To: [redacted]; Energy and Climate Change - Business Management [redacted]; [redacted]; [redacted]; [redacted];

Subject: 202100132049 - EIR - Scotland's share of offshore wind and tidal resources - request for relevant information - deadline - 20 January 2021

Dear All,

I am acting as case handler for an Information Request that may require your input and assistance. At this point the request is marked as routine and the final response must be provided by **01 February 2021**. As such, please see the details below and provide any relevant input by **20 January 2021**.

Please can you all review the information request below (highlighted in yellow) and check whether you hold any information, and/or are aware of any information held, within the scope of this enquiry. Please check your email inboxes and any items saved into eRDM (or elsewhere i.e. the G Drive, if this applies). If any relevant information is held, please can you forward the details and copies of the information to me [redacted] as soon as possible and by Wednesday 20 January at the latest.

Please note there are two parts to the request, one based on offshore wind and the other on tidal resources. Please see the full request below.

Original request

Dear Scottish Government,

I bring to your attention Scottish Development International's statement "Scotland has 25% of Europe's offshore wind and tidal resource" made at the following URL: <https://www.sdi.co.uk/key-sectors/renewable-energy-and-low-carbon>

Can you please provide

- (1) Any discussions or analysis conducted by the Scottish Government regarding Scotland's percentage of Europe's offshore wind resources
- (2) Any discussions or analysis conducted by the Scottish Government regarding Scotland's percentage of Europe's tidal resources

ECCBMU, Please see the copy list. I have sent directly to colleagues (see below) who are likely to hold information but please pass on to others as required.

With regards to request (1) - Any discussions or analysis conducted by the Scottish Government regarding Scotland's percentage of Europe's offshore wind resources.

And

Request (2) - Any discussions or analysis conducted by the Scottish Government regarding Scotland's percentage of Europe's tidal resources

As the requests are very similar I expect both will be relevant to:

- Marine Planning and Policy ([redacted], [redacted], [redacted], [redacted], [redacted]and[redacted])
- Marine Analytical Unit ([redacted])
- OCSAM – ([redacted]and[redacted])
- Energy and Renewables Policy ([redacted], [redacted], [redacted], [redacted], [redacted]and[redacted])
- REEA – ([redacted], [redacted], [redacted])

The Low Carbon Support Unit ([redacted]and[redacted]), may have specific input for the tidal request (part 2)?

Apologies if this request is not relevant for you or I have identified you for the wrong request. Please let me know if others should be contacted or if I have missed someone.

Thank you in advance for your help.

Kind regards,

[redacted]

[redacted] | [redacted] - Marine Planning (Offshore Renewable Energy) | Marine Scotland

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- Marine Analytical Unit ([redacted])
- OCSAM – ([redacted] and [redacted])
- Energy and Renewables Policy ([redacted], [redacted], [redacted], [redacted], [redacted] Young and [redacted])
- REEA – ([redacted], [redacted], [redacted])

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Thank you in advance for your help.

Kind regards,

[redacted]

[redacted] | [redacted] - Marine Planning (Offshore Renewable Energy) | Marine Scotland
Scottish Government | 1 A South | Victoria Quay | Edinburgh | EH6 6QQ

Tel: [redacted]

Email: [redacted]

www.marine.gov.scot

www.gov.scot/marinescotland

From: [redacted]

Sent: 11 January 2021 18:06

To: [redacted]

Subject: RE: 202100132049 - EIR - Scotland's share of offshore wind and tidal resources - request for relevant information - deadline - 20 January 2021

[redacted]

This is all I have, I assume you'll turn these up as well.

I'm not sure [redacted]'s document falls into scope (it isn't SG analysis of Scotland's EU share nor is it a discussion about that), we'll need to consider further and maybe take advice.

I noted [redacted]'s response as well, I agree with you that we'll just need to keep an eye on whether people consider the lack of timeframe to be unworkable.

Cheers

[redacted]

From: [redacted]

Sent: 11 January 2021 17:41

To: [redacted]; [redacted]; [redacted]; [redacted] [redacted] ; [redacted]; Energy and Climate Change - Business Management [redacted]; [redacted]; [redacted]; [redacted]

Cc: [redacted]

Subject: RE: 202100132049 - EIR - Scotland's share of offshore wind and tidal resources - request for relevant information - deadline - 20 January 2021

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Thank you in advance for your help.

Kind regards,

[redacted]

[redacted] | [redacted] - Marine Planning (Offshore Renewable Energy) | Marine Scotland
Scottish Government | 1 A South | Victoria Quay | Edinburgh | EH6 6QQ

Tel: [redacted]

Email: [redacted]

www.marine.gov.scot

www.gov.scot/marinescotland

From: [redacted]

Sent: 09 October 2020 16:21

To: [redacted] [redacted]; [redacted] ; [redacted]

Subject: RE: Speech: Offshore Investment Opportunities for Japan: Mr Wheelhouse (pre-recorded) - 15 October 2020 (A30340834)

Thanks for copying me in, [redacted].

Both of the numbers referred to below feature in a 2010 SG document, “Scotland’s Offshore Wind Route Map”, which dates the references considerably. Moreover, as you say, the 25% estimate has never, to my knowledge, been properly sourced, and my preference is always to use alternative formulations along the lines you suggest below –especially so as to avoid any complications with the Sectoral Marine Plan and Offshore Wind Policy Statement numbers.

[redacted]

[redacted]

4th Floor

5 Atlantic Quay

150 Broomielaw

GLASGOW

G2 8LU

(Working days – Monday to Thursday)

Tel: [redacted]

Mobile: [redacted]

Email: [redacted]

From: [redacted]

Sent: 09 October 2020 16:07

To: [redacted]; [redacted]; [redacted]

Subject: RE: Speech: Offshore Investment Opportunities for Japan: [redacted] (pre-recorded) - 15 October 2020 (A30340834)

Hi [redacted] and [redacted],

We’ve just had a chance to look over this speech. Thanks for including the lines I provided. We just had little concern about the line directly preceding the “commercial opportunities in Scotland” section

Indeed, with 25% of all the wind in Europe going across the seas around Scotland, and with a practical offshore wind resource of 169GW, Scotland is the natural choice for offshore wind.

Whilst the 25% figure has been used in the past, we tend not to use this anymore. It has proved very difficult to source. Further, the way this is written suggests we also have 25% of the onshore wind too. Which might be a claim too far.

Typically, we talk about a “significant proportion of Europe’s offshore wind resource” or our “enormous offshore wind potential” instead. I have copied in [redacted] as he has commented on that line previously.

I am also not sure about the 169 GW figure. I have never sourced this myself, though [redacted] may have more knowledge of it. However, in light of the SMP, we have identified Plan Options that have the capacity for significantly less than 169 GW. That is not to say that more is possible in the future but it may lead to challenges of 169 vs the Plan itself, when published and the offshore wind policy statement which sets out a target for capacity by 2030.

Just wanted to raise in case there is the option to change ahead of the event or help avoid awkward questions.

Kind regards,

[redacted]

[redacted] | [redacted]- Marine Planning (Offshore Renewable Energy) | Marine Scotland
Scottish Government | 1 A South | Victoria Quay | Edinburgh | EH6 6QQ

Tel: [redacted]

Email: [redacted]

www.marine.gov.scot

www.gov.scot/marinescotland

From: [redacted]

Sent: 09 October 2020 12:17

To: Minister for Energy, Connectivity and the Islands <MinisterECI@gov.scot>

Cc: Minister for Trade, Investment and Innovation <MinisterTII@gov.scot>; [redacted]; [redacted]; [redacted] [redacted] [redacted] [redacted]; [redacted] [redacted] [redacted] [redacted] [redacted]; [redacted]; [redacted]; Communications Economy [redacted]; [redacted] [redacted] [redacted] [redacted]; [redacted] [redacted] [redacted] [redacted] [redacted]; [redacted] [redacted]

Subject: Speech: Offshore Investment Opportunities for Japan: [redacted](pre-recorded) - 15 October 2020 (A30340834)

PS/ Minister for Energy, Connectivity and Environment

Find attached draft speaking note for [redacted] pre-recorded speech for the Offshore Investment Opportunities for Japan webinar on 15 October 2020.

I would be grateful if you would let my colleague [redacted] (in copy) know where/how to access the recording of the speech for forward transmission to SDI.

Kind regards

[redacted] [redacted] | [redacted] | **Trade and Investment Delivery** | Scottish Government | Atlantic Quay | Glasgow G2 8LU | [redacted] | [redacted]

From: [redacted]

Sent: 09 November 2020 11:42

To: [redacted]; [redacted]; [redacted]

Cc: [redacted] [redacted]

Subject: RE: Offshore wind marketing statements

Hi [redacted]

Thanks for this, it's great for us to consider this collectively. I think the kind of figures you've outlined below could certainly be stacked up more easily and are much more realistic than the 300+ GW number. However I think there is more to it these days than simply being able to evidence where our numbers come from, as important as that is.

Whilst it is correct to say that the SMP includes realistic regional development scenarios totalling 26 GW, it also contains a limit of up to 10 GW as things stand, and within that some significant barriers to achieving that level of deployment. Things will evolve but if we are to move to a situation where 26 GW can be delivered under a new or updated SMP then as well as the environmental legislation considerations, we will also need to account for the interests of other marine interests and Ministers will have to make some very difficult decisions. The

impact of offshore wind has crystallised a lot in recent years and is increasingly well understood, not least as a result of the last 3 years of the SMP process. As such we need to be very careful when talking about things that go over and above it.

BEIS is looking to commission a study into future offshore wind scenarios UK-wide. CES are involved (and part funding) and we are inputting as well. We are having to grapple with the very issues set out in this exchange. But it should hopefully result in something we are comfortable with, that we can't point to as being evidenced based but also suitably caveated to cover the wider issues. I think they were hoping to award a contract early in the new year. I don't know when it's due to commission, we'd need to check. But if you can wait for that, and the numbers within it that might be the best approach.

Others may have views as well.

Cheers

[redacted]

[redacted] | [redacted]

Marine Planning and Policy | Marine Scotland | Scottish Government

Email: [redacted] | Tel: [redacted] | Blackberry: [redacted]

From: [redacted]

Sent: 04 November 2020 16:30

To: [redacted]; [redacted]; [redacted]

Cc: [redacted]; [redacted]

Subject: RE: Offshore wind marketing statements

Hi [redacted]

Thanks you for the quick response. The difficulty with the Sectoral Marine Plan and the Policy Statement is that from an inward investment perspective they are too limiting, time wise. To new prospective investors the first ScotWind round is not a current opportunity as it is already underway. The next round is what we need to be promoting to new prospective developers given that this could be in 2022.

Our current pipeline is 9.4GW, when you factor in the proposed increased capacity of Berwick Bank and Marr Bank, and providing they pass muster on the planning side of things, we would expect all 9.4GW of it to be built out by 2030.

Some of the ScotWind developers are looking to deliver their projects prior to 2030 and the Policy Statement only requires 1.6GW from Scotwind to get it over the line. If you are an outsider looking in then this does not appear very ambitious with regard to the Sectoral Marine Plan's 10GW not to mention that the SMP actually says that 26GW is a realistic development from the 15 sites. Two more ScotWind rounds this decade would potentially see this 26GW being achieved in lease agreements.

If you accept that this is feasible then we could say that Scotland is capable of delivering 35GW by 2040 based on the SMP and our current pipeline. How much could further ScotWind rounds deliver in the 2030-2035 period? These could then be delivered prior to 2045 if we take a 10 year delivery model (7-8 years is more likely given that we may not have CfDs to worry about)

We are only talking a potential opportunity for marketing purposes rather than a Scottish Government target. On the numbers above we could make a logical case for at least 40GW by 2045 providing the Scottish Government does proceed with further ScotWind rounds as already stated publicly by Crown Estate Scotland.

By offering sight of a pipeline of projects at a significant scale we attract interest from new developers and inward investment into the supply chain. If the bulk of the UK's 2050 offshore wind ambition continues to appear to be on the East Coast of England then they will attract this potential investment. Scotland has to show that it will represent a rising percentage of the UK's offshore wind market if we are to change the industry focus on the East Coast of England and 40GW by 2045 would be a strong message to inward investors and the indigenous supply chain alike.

Would welcome your thoughts on the above.

Regards

[redacted]

[redacted]

D: [redacted] | Mob: [redacted]



Twitter - [@DeepWind Cluster](#)

LinkedIn Group - [DeepWind](#)

From: [redacted]
Sent: 03 November 2020 10:34
To: [redacted]; [redacted]; [redacted]
Cc: [redacted]; [redacted]
Subject: RE: Offshore wind marketing statements

CAUTION: This email was sent from outside of the organisation. Do not click links or open attachments unless you recognise the sender and know the content is safe.

Hi [redacted]

Thank you for getting in touch and laying out your suggestion. We have had a quick discussion a wanted to get back to you.

Basing your figures on something more recent is definitely worth considering but we also have concerns about this new figure and particularly in being able to defend that assertion to stakeholders and developers in the face of the recently published Offshore Wind Policy Statement and Sectoral Marine Plan.

There is no argument that there is a lot of resource in Scottish waters but the potential of 300, or 600-1000 GW is very different to the potentially deliverable generating capacity.

We appreciate that having a number will work better in an advertising or campaign scenario but we would be inclined to prefer a focus on the Sectoral Marine Plan, which can deliver up to 10 GW under this iteration and the Policy Statement that is aiming for 11 GW by 2030, while stating that there is scope for more in the future.

We appreciate that SDI are at the coal face with international investors though, so happy to discuss if you don't think the suggestion above works.

[redacted]

[redacted] | [redacted] | Marine Scotland

Scottish Government | 1 A South | Victoria Quay | Edinburgh | EH6 6QQ

Tel: [redacted]

Email: [redacted]

www.marine.gov.scot

www.gov.scot/marinescotland

From: [redacted]

Sent: 02 November 2020 17:02

To: [redacted]; [redacted] ; [redacted]

Cc: [redacted]; [redacted]

Subject: Offshore wind marketing statements

Hi [redacted]

You recently questioned the use of the some numbers in our offshore wind marketing material as it was being included in one of the Minister's speeches.

These were the use of the '25% of Europe's offshore wind resource' and the '169GW' figure from the 2010 "Scotland's Offshore Wind Route Map".

If we are to stop using these statements and figures in our marketing material we wanted to sound you out about what we should use instead.

The most recent report that could be quoted in this regard is the OWIC report 'Solving the Integration Challenge – Offshore wind and Hydrogen' of 2nd Sept. 2020 - <https://s3-eu-west-1.amazonaws.com/media.newore.catapult/app/uploads/2020/09/07105124/Solving-the-Integration-Challenge-ORE-Catapult.pdf>

The ORE Catapult have updated previous estimates and have come up with 600-1000GW as the estimated UK potential resource. They do not specifically break this estimate down for Scotland but want to run the following logic past you to see if you agree.

Scotland has an EEZ which is 60% of the UK's total EEZ and therefore on that basis could claim an estimate from the ORE catapult numbers of 360-600 of potential offshore wind resource.

We would propose saying that '**Scotland has a potential offshore wind resource of over 300GW**' and referencing the ORE Catapult report above for OWIC in our future marketing documents.

As it only refers to a 'potential resource' and not the technical resource we are thinking that this is a good number for our marketing that shows the scale of our

resource without over egging it. Much of it is pretty far from shore but now that we are looking at a future where offshore wind could be used to produce hydrogen we can now take the requirement for these projects to be grid connected out of the equation to some extent. We can also show that this 300GW number is derived from very recent independent third party work.

Please let us have your thoughts on the above.

Regards

[redacted]

[redacted]

DD: [redacted] | Mob: [redacted]



Twitter - [@DeepWind Cluster](#)

LinkedIn Group – [DeepWind](#)

Highlands and Islands Enterprise | Iomairt na Gàidhealtachd 's nan Eilean

Centrum House, 38 Queen Street, Glasgow G1 3DX

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From: [redacted] (Energy) [redacted]
Sent: 12 January 2021 08:50
To: [redacted] [redacted]; [redacted] [redacted]
Cc: [redacted] [redacted]; [redacted] [redacted]; [redacted] [redacted]
Subject: RE: 202100132049 - EIR - Scotland's share of offshore wind and tidal resources - request for relevant information - deadline - 20 January 2021

Hi[redacted],

Like [redacted] I've nothing to offer and would suggest that you point the correspondent in the direction of Scottish Enterprise as I think that's where this figure was first muted but I might be wrong, as it was a long time ago.

[redacted]

[redacted] | [redacted] | Directorate for Energy and Climate Change | ([redacted])

From: [redacted] [redacted]

Sent: 12 January 2021 08:43

To: [redacted] [redacted]

Cc: [redacted] [redacted]; [redacted] (Energy) [redacted]; [redacted] [redacted]; [redacted] [redacted]

Subject: RE: 202100132049 - EIR - Scotland's share of offshore wind and tidal resources - request for relevant information - deadline - 20 January 2021

Thanks, [redacted].

Other than our recent exchanges on this request, of course, I've nothing to offer – my search of the G drive having unfortunately yielded up nothing more on the [redacted] study in 2001 and why it should have been associated with the “25%” estimate.

Cheers,

[redacted]

[redacted][redacted]

4th Floor

5 Atlantic Quay

150 Broomielaw

GLASGOW

G2 8LU

(Working days – Monday to Thursday)

Tel: 0300 244 6854

Mobile: [redacted]

Email: [redacted]

From: [redacted] [redacted]

Sent: 11 January 2021 16:45

To: [redacted] [redacted]; [redacted] [redacted]; [redacted] [redacted]; [redacted] [redacted]; [redacted] [redacted]; [redacted] [redacted]; [redacted] [redacted] [redacted] (MARLAB) [redacted]; [redacted] [redacted]; [redacted] (Energy) [redacted]; [redacted] [redacted]; [redacted] (Energy) [redacted]; [redacted] [redacted]; [redacted] [redacted]; [redacted] (MARLAB) [redacted]; [redacted] [redacted]; [redacted] [redacted]; Energy and Climate Change - Business Management [redacted];

[redacted] [redacted]; [redacted] [redacted]; [redacted] [redacted]

Subject: 202100132049 - EIR - Scotland's share of offshore wind and tidal resources - request for relevant information - deadline - 20 January 2021

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- Marine Analytical Unit ([redacted])
- OCSAM – ([redacted]and[redacted])
- Energy and Renewables Policy ([redacted], [redacted], [redacted], [redacted], [redacted]and[redacted])
- REEA – ([redacted], [redacted], [redacted])

The Low Carbon Support Unit ([redacted]and [redacted]), may have specific input for the tidal request (part 2)?

Apologies if this request is not relevant for you or I have identified you for the wrong request. Please let me know if others should be contacted or if I have missed someone.

Thank you in advance for your help.

Kind regards,

[redacted]

[redacted] | [redacted] - Marine Planning (Offshore Renewable Energy) | Marine Scotland
Scottish Government | 1 A South | Victoria Quay | Edinburgh | EH6 6QQ

Tel: [redacted]

Email: [redacted]

www.marine.gov.scot

www.gov.scot/marinescotland

From: [redacted] [redacted]

Sent: 12 January 2021 11:37

To: DMDO : Marine Analytical Unit [redacted]

Subject: FW: 202100132049 - EIR - Scotland's share of offshore wind and tidal resources - request for relevant information - deadline - 20 January 2021

Hi all,

We've received the below EIR around offshore wind and tidal. Can you please forward any relevant information to me by Tuesday 19th Jan and I'll return a single response to [redacted].

Happy to discuss,

[redacted]

[redacted]

[redacted] | Marine Scotland

Victoria Quay, The Shore, Edinburgh EH6 6QQ

[redacted]

Tel: [redacted]

Email: [redacted]

www.marine.gov.scot

www.gov.scot/marinescotland

From: [redacted]) [redacted]

Sent: 12 January 2021 13:19

To: [redacted] (Energy) [redacted]; [redacted] [redacted]; [redacted] [redacted]

Cc: [redacted] [redacted]; [redacted] [redacted]

Subject: RE: 202100132049 - EIR - Scotland's share of offshore wind and tidal resources - request for relevant information - deadline - 20 January 2021

Hi [redacted]

Nothing to add from me either.

Thanks

[redacted]

[redacted] | [redacted] | Energy Industries Division |

Directorate for Energy and Climate Change | Scottish Government

Tel: [redacted]/ [redacted]

From: [redacted]) (MARLAB) [redacted]

Sent: 18 January 2021 14:23

To: [redacted] [redacted]

Subject: RE: 202100132049 - EIR - Scotland's share of offshore wind and tidal resources - request for relevant information - deadline - 20 January 2021

Hi [redacted],

I do not hold any calculations or communications on these calculations for Scottish offshore energy resource capabilities. During the sectoral plan process we referred to the resource percentage (wind, wave and tidal) as a proportion of the available European resource but usually it was a recycling of those factoids that had been shown previously.

We used those resource percentage figures at the start of reports and presentations to set the context. Most likely we took them from:

[Scotland's Marine Atlas: Information for The National Marine Plan - gov.scot \(www.gov.scot\)](http://www.gov.scot)

Those percentages are echoed by: [Tidal Energy Scotland - An Overview Of The Scottish Tidal Resource \(scotsrenewables.com\)](http://scotsrenewables.com)

However I have not managed to find the original reference that contains the calculations where those figures were obtained.

So I cannot offer any content that sheds light on those numbers. Sorry about that.

[redacted]

From: [redacted] [redacted]

Sent: 11 January 2021 16:45

To: [redacted] [redacted]; [redacted] [redacted]; [redacted] [redacted]; [redacted] [redacted]; [redacted] [redacted]; [redacted] [redacted]; [redacted] (MARLAB) [redacted]; [redacted] [redacted]; [redacted] (Energy) [redacted]; [redacted] [redacted]; [redacted] (Energy) [redacted]; [redacted] [redacted]; [redacted] [redacted]; [redacted] [redacted]; [redacted] (MARLAB) [redacted] [redacted] [redacted]; [redacted] [redacted]; Energy and Climate Change - Business[redacted] [redacted] [redacted]; [redacted] [redacted]; [redacted] [redacted]

Subject: 202100132049 - EIR - Scotland's share of offshore wind and tidal resources - request for relevant information - deadline - 20 January 2021

Dear All,

I am acting as case handler for an Information Request that may require your input and assistance. At this point the request is marked as routine and the final response must be provided by **01 February 2021**. As such, please see the details below and provide any relevant input by **20 January 2021**.

Please can you all review the information request below (highlighted in yellow) and check whether you hold any information, and/or are aware of any information held, within the scope of this enquiry. Please check your email inboxes and any items saved into eRDM (or elsewhere i.e. the G Drive, if this applies). If any relevant information is held, please can you forward the details and copies of the information to me ([redacted]) as soon as possible and by Wednesday 20 January at the latest.

Please note there are two parts to the request, one based on offshore wind and the other on tidal resources. Please see the full request below.

Original request

Dear Scottish Government,

I bring to your attention Scottish Development International's statement "Scotland has 25% of Europe's offshore wind and tidal resource" made at the following URL: <https://www.sdi.co.uk/key-sectors/renewable-energy-and-low-carbon>

Can you please provide

(1) Any discussions or analysis conducted by the Scottish Government regarding Scotland's percentage of Europe's offshore wind resources

(2) Any discussions or analysis conducted by the Scottish Government regarding Scotland's percentage of Europe's tidal resources

ECCBMU, Please see the copy list. I have sent directly to colleagues (see below) who are likely to hold information but please pass on to others as required.

With regards to request (1) - Any discussions or analysis conducted by the Scottish Government regarding Scotland's percentage of Europe's offshore wind resources.

And

Request (2) - Any discussions or analysis conducted by the Scottish Government regarding Scotland's percentage of Europe's tidal resources

As the requests are very similar I expect both will be relevant to:

- Marine Planning and Policy ([redacted], [redacted], [redacted], [redacted], [redacted]and[redacted])

- Marine Analytical Unit ([redacted])
- OCSAM – ([redacted]and[redacted])
- Energy and Renewables Policy ([redacted], [redacted], [redacted], [redacted], [redacted]and[redacted])
- REEA – ([redacted], [redacted], [redacted])

The Low Carbon Support Unit ([redacted]and[redacted]), may have specific input for the tidal request (part 2)?

Apologies if this request is not relevant for you or I have identified you for the wrong request. Please let me know if others should be contacted or if I have missed someone.

Thank you in advance for your help.

Kind regards,

[redacted]

[redacted] | [redacted]- Marine Planning (Offshore Renewable Energy) | Marine Scotland
Scottish Government | 1 A South | Victoria Quay | Edinburgh | EH6 6QQ

Tel: [redacted]

Email: [redacted]

www.marine.gov.scot

www.gov.scot/marinescotland

From: [redacted] (MARLAB) [redacted]

Sent: 18 January 2021 15:08

To: [redacted] [redacted]

Subject: RE: 202100132049 - EIR - Scotland's share of offshore wind and tidal resources - request for relevant information - deadline - 20 January 2021

Yes we did recycle those figures quite robotically without really checking them.

Sorry meant to reply 'to all' but sent it just to you, nothing controversial in that mail so totally shareable.

Hope you and your family is coping as well as possible. Not much change here. Sainsbury's big shop is the highlight of the week...

All the best.

[redacted]

From: [redacted]

Sent: 12 January 2021 15:02

To: [redacted] [redacted]; [redacted] [redacted]; [redacted] [redacted]

Subject: RE: 202100132049 - EIR - Scotland's share of offshore wind and tidal resources - request for relevant information - deadline - 20 January 2021

Thanks. [redacted] has been contacted through REEA too.

Cheers,

[redacted]

[redacted] | [redacted] - Marine Planning (Offshore Renewable Energy) | Marine Scotland

Scottish Government | 1 A South | Victoria Quay | Edinburgh | EH6 6QQ

Tel: [redacted]

Email: [redacted]

www.marine.gov.scot

www.gov.scot/marinescotland

From: [redacted] [redacted]

Sent: 18 January 2021 17:33

To: [redacted] [redacted]

Cc: [redacted] [redacted]; [redacted] [redacted]

Subject: RE: 202100132049 - EIR - Scotland's share of offshore wind and tidal resources - request for relevant information - deadline - 20 January 2021

Hi [redacted],

Thanks for passing that on.

The request is a bit frustrating as I don't actually think the speaking note qualifies but any discussion you had about that line or discussion about the source of that line probably would.

Annoyingly there seems to be a lot of these "X% of Europe's tidal/wind resource" used but very little sourcing. There are similar lines in the previous atlas and I definitely used the 25% in early planning work.

I was also thinking that should we have been asked to work out what potential resource we have, I would have expected that question to go to our team in some way (and probably our planning and GIS team too). So if you have done any work to produce that sort of number, this would qualify.

I am around tomorrow if you want a quick call just to make sure you have nothing else.

Thanks,

[redacted]

[redacted] | [redacted] - Marine Planning (Offshore Renewable Energy) | Marine Scotland
Scottish Government | 1 A South | Victoria Quay | Edinburgh | EH6 6QQ

Tel: [redacted]

Email: [redacted]

www.marine.gov.scot

www.gov.scot/marinescotland

From: [redacted] [redacted]

Sent: 18 January 2021 16:54

To: [redacted] [redacted]

Cc: [redacted] [redacted]; [redacted] [redacted]

Subject: RE: 202100132049 - EIR - Scotland's share of offshore wind and tidal resources - request for relevant information - deadline - 20 January 2021

Hi [redacted],

We quoted a figure from an unpublished report commissioned by Scottish Enterprise (with their permission) to present the potential of the blue economy for Scotland. I think the statement has been used for multiple events, the first being a presentation by [redacted] to other SG Directors: Speaking notes - Directors meeting (A29971489)

I had thought it was used for a presentation to EELG but looking at the slides I can't actually see the figure now.

[redacted]/ [redacted], can you remember if this line was used anywhere else?

“Scotland has 25% of Europe's tidal stream potential and 10% of its wave resource.”

[redacted]- I'm not sure what you need on this one?

Happy to discuss

[redacted]

[redacted] | Marine Scotland

Victoria Quay, The Shore, Edinburgh EH6 6QQ

[redacted]

Scottish Government | 1 A South | Victoria Quay | Edinburgh | EH6 6QQ

From: [redacted] [redacted]

Sent: 18 January 2021 19:12

To: [redacted] [redacted]

Cc: [redacted] [redacted]; [redacted] [redacted]

Subject: RE: 202100132049 - EIR - Scotland's share of offshore wind and tidal resources - request for relevant information - deadline - 20 January 2021

Hi [redacted], it would be useful to have those numbers verified if others are using similar. In our case the numbers were used because the report was shared with us and that line was one of a number of key findings which were assessed as being

relevant. We didn't set out to look for what % was tidal or wave in Scotland, does that mean that this piece is out of scope?

Thanks

[redacted]

[redacted] | Marine Scotland

Victoria Quay, The Shore, Edinburgh EH6 6QQ

[redacted]

From: [redacted] [redacted]

Sent: 20 January 2021 08:09

To: [redacted] [redacted]; [redacted] [redacted]

Cc: [redacted] [redacted]

Subject: RE: 202100132049 - EIR - Scotland's share of offshore wind and tidal resources - request for relevant information - deadline - 20 January 2021

[redacted]/ [redacted],

Just to confirm - having looked through the previous Blue Economy presentations etc in ERDM . I have not found any further reference to this EIR request.

Thanks

[redacted] | Marine Scotland | Mob: [redacted]

I am currently working from home. The best way to contact me is via email or skype.

From: [redacted] [redacted]

Sent: 19 January 2021 16:46

To: [redacted] [redacted]

Cc: [redacted] [redacted]; [redacted] [redacted]

Subject: RE: 202100132049 - EIR - Scotland's share of offshore wind and tidal resources - request for relevant information - deadline - 20 January 2021

Hi [redacted],

I think it does fall out of scope as it is not the analysis nor discussion about the figure. You are referencing it from another piece of work. That other report might qualify if it is ours.

That being said, I plan to go through everything tomorrow anyway so I will get back to you if I think we have to rule it in.

Agree that it would be good to get these numbers verified or to stop using them if we have no source. I am more inclined to focus on the work we have done in the sectoral plan, and there is ongoing work at the UK level about future resource scenarios. These are better grounded.

[redacted]

[redacted] | [redacted] - Marine Planning (Offshore Renewable Energy) | Marine Scotland
Scottish Government | 1 A South | Victoria Quay | Edinburgh | EH6 6QQ

Tel: [redacted]

Email: [redacted]

www.marine.gov.scot

www.gov.scot/marinescotland

From: [redacted] [redacted]

Sent: 18 January 2021 14:55

To: [redacted] (MARLAB) [redacted]

Subject: RE: 202100132049 - EIR - Scotland's share of offshore wind and tidal resources - request for relevant information - deadline - 20 January 2021

Thanks for looking [redacted].

Figured you might have been the most likely to hold any analysis work.

[redacted] and I discussed the Atlas lines too. [redacted] is looking into those as he thinks they were written by him way back when.

[redacted]

[redacted] | [redacted] - Marine Planning (Offshore Renewable Energy) | Marine Scotland

Scottish Government | 1 A South | Victoria Quay | Edinburgh | EH6 6QQ

Tel: [redacted]

Email: [redacted]

www.marine.gov.scot

www.gov.scot/marinescotland

From: [redacted]< [redacted] >

Sent: 20 January 2021 15:44

To: [redacted]< [redacted] >

Cc: [redacted]<t[redacted]>

Subject: RE: 202100132049 - EIR - Scotland's share of offshore wind and tidal resources - request for relevant information - deadline - 20 January 2021

[redacted]

Apologies for the delay in replying.

Having been around the renewables policy teams for a number of years I am aware of these references to Scotland's offshore renewables resources but, as you may have been advised by others on the copy list, my understanding is that they have not been referred to by the relevant energy policy teams for some time.

The best reference I've been able to find about the origin of the figures is in the attached email exchanges (from March / April 2012) which have been stored on ERDM.

I can see numerous examples of the tidal (and wave) resource figure having been used in briefing documents going back a number of years but I don't hold any further information about discussions or analysis on the subject of these figures.

I hope that's of some help, and I'll be interested in the outcome of your request to colleagues.

[redacted]

[redacted] | **Low Carbon Innovation Team** | Directorate for Energy and Climate Change | **Scottish Government** | Atlantic Quay | 150 Broomielaw | Glasgow G2 8LU | [redacted] | Tel: [redacted]

Can you please provide

(1) Any discussions or analysis conducted by the Scottish Government regarding Scotland's percentage of Europe's offshore wind resources

(2) Any discussions or analysis conducted by the Scottish Government regarding Scotland's percentage of Europe's tidal resources

ECCBMU, Please see the copy list. I have sent directly to colleagues (see below) who are likely to hold information but please pass on to others as required.

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And

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- Marine Analytical Unit ([redacted])
- OCSAM – ([redacted] and [redacted])
- Energy and Renewables Policy ([redacted], [redacted], [redacted], [redacted], [redacted], and[redacted],)
- REEA – ([redacted], [redacted], [redacted],)

The Low Carbon Support Unit ([redacted], and[redacted]), may have specific input for the tidal request (part 2)?

Apologies if this request is not relevant for you or I have identified you for the wrong request. Please let me know if others should be contacted or if I have missed someone.

Thank you in advance for your help.

Kind regards,

[redacted],

[redacted], I [redacted]- Marine Planning (Offshore Renewable Energy) | Marine Scotland
Scottish Government | 1 A South | Victoria Quay | Edinburgh | EH6 6QQ

Tel: [redacted]

Email: [redacted]

www.marine.gov.scot

www.gov.scot/marinescotland

Attached emails:

From: [redacted]

Sent: 27 April 2012 16:46

To: [redacted] [redacted]; [redacted] [redacted]; [redacted] [redacted]

Subject: Renewable Energy - Marine - 25% Tidal & 10% Wave - 209GW European Wave Resource - Update - [redacted]Update - 27 April 2012

[redacted]

I can't be certain but I think the original source may be...

<http://www.ewtec2007.com.pt/flowec/ref2.pdf>

However, there are numerous other EU studies that use the figure.

<http://setis.ec.europa.eu/newsroom-items-folder/ocean-energy>

The key from our perspective is that it is an external figure.

[redacted]

From: [redacted]
Sent: 27 April 2012 14:40
To: [redacted]; [redacted]; [redacted]
Subject: FW: Explanation for Scotland's Offshore Resource

Hi All

Do you know the answer to the further question that [redacted] has come back with on the estimated European wave resource of 290GW? Grateful if anyone can help.

Many thanks

[redacted]

[redacted] [redacted]

Offshore Renewables Team

4th Floor

5 Atlantic Quay

150 Broomielaw

Glasgow

G2 8LU

Telephone: [redacted] (External) or [redacted] (Internal)

Mobile: [redacted]

Email: [redacted]

From: [redacted] [redacted]
Sent: 27 April 2012 14:34
To: [redacted]
Subject: RE: Explanation for Scotland's Offshore Resource

Hi [redacted],

That's really helpful. Thank you very much for sending over the analysis so quickly.

Are you able to provide a source for the estimated European wave resource of 290GW?

I have found figures for wind and tidal power that are consistent with those you have just sent me, but I haven't been able to find an analysis of European wave resource potential so far. If you have one, it would be very helpful.

Many thanks again for all your help.

Best wishes,

[redacted]

[redacted]

Social and General Statistics

House of Commons Library

[redacted]

[redacted]



From: [redacted] [redacted]]

Sent: 27 April 2012 14:17

To: [redacted]

Cc: [redacted]; [redacted]; [redacted]; [redacted]; [redacted]

Subject: Explanation for Scotland's Offshore Resource

Hi [redacted]

Further to your telephone conversation with my colleague [redacted], please find below an explanation for the statistics regarding Scotland's offshore resource:

25% of Tidal Resource

The 2005 Carbon Trust/Black and Veitch Report (Phase II UK Tidal Stream Resource Assessment) estimates the UK Technically Extractable Resource to be

half of the European Technically Extractable Resource. The 2010 Offshore Valuation Study highlights that Scotland has some 54% of the UK's tidal stream resource and 47% of the total including tidal stream and tidal range. The estimate of 25% of Europe's tidal resource can be derived from this figures.

25% of Offshore Wind Resource

The 2001 Garrad Hassan report "Scotland's Renewables Resource" references data from a separate EWEA Wind Force 10 report (<http://www.inforse.org/doc/Windforce10.pdf>). This report quotes the following; "Even taking all these reductions into account, the final figure for European off shore wind potential amounts to 313.6 TWh". This equates to a total resource of 102GW taking into account load factors. The 25GW potential highlighted in the Garrad Hassan report represents ca 25% of this overall resource.

10% of Europe's Wave Energy Resource

The SNP's Scottish Energy Review 2006 ([redacted], [redacted], [redacted]) has highlighted that "close-packed, deep-water, wave-energy devices with good exposure to the Atlantic will have maximum power ratings of 50 to 100 kilowatts per metre, and so the 400 kilometres of the Scottish Atlantic sea front could contribute 20 to 40 GW peak with winter capacity factors of 40%." The European wave resource has been estimated at 290GW and the 10% figure is derived from this.

I hope this is helpful.

[redacted]

[redacted]

[redacted]

Offshore Renewables Team

4th Floor

5 Atlantic Quay

150 Broomielaw

Glasgow

G2 8LU

Telephone: [redacted] (External) or [redacted] (Internal)

Mobile: [redacted]

Email: [redacted]

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Dh'fhaodadh gum bi teachdaireachd sam bith bho Riaghaltas na h-Alba air a chlàradh neo air a sgrùdadh airson dearbhadh gu bheil an siostam ag obair gu h-èifeachdach neo airson adhbhar laghail eile. Dh'fhaodadh nach eil beachdan anns a' phost-d seo co-ionann ri beachdan Riaghaltas na h-Alba.

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This email was received from the INTERNET and scanned by the Government Secure Intranet anti-virus service supplied by Cable&Wireless Worldwide in partnership with MessageLabs. (CCTM Certificate Number 2009/09/0052.) In case of problems, please call your organisation's IT Helpdesk. Communications via the GSi may be automatically logged, monitored and/or recorded for legal purposes.

This email has been received from an external party and has been swept for the presence of computer viruses.

From: [redacted]
Sent: 01 March 2012 16:28
To: [redacted] [redacted]; [redacted]< [redacted]; [redacted] [redacted]
Subject: Renewable Energy - Marine - Briefing - 25% Tidal and 10% Wave Resource Explained - 1 March 2012

Just in case this comes up again.

[redacted]

From: [redacted]
Sent: 01 March 2012 16:27
To: [redacted]; [redacted]
Cc: [redacted]; [redacted]; [redacted]
Subject: Response to SPICe

[redacted]/ [redacted]

How does the following look in response to the enquiry:

25% of Tidal Resource

The 2005 Carbon Trust/Black and Veitch Report (Phase II UK Tidal Stream Resource Assessment) estimates the UK Technically Extractable Resource to be half of the European Technically Extractable Resource. The 2010 Offshore Valuation Study highlights that Scotland has some 54% of the UK's tidal stream resource and 47% of the total including tidal stream and tidal range. The estimate of 25% of Europe's tidal resource can be derived from this figures.

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[redacted]

[redacted]

Off-Shore Renewables Team

Direct Dial: [redacted]

Mobile: [redacted]

E:mail: [redacted]

Scottish Government

Directorate for Energy and Climate Change

4th Floor

5 Atlantic Quay

150 Broomielaw

Glasgow

G2 8LU

From: [redacted] [redacted]
Sent: 12 January 2021 11:37
To: DMDO : Marine Analytical Unit [redacted]
Subject: FW: 202100132049 - EIR - Scotland's share of offshore wind and tidal resources - request for relevant information - deadline - 20 January 2021

Hi all,

We've received the below EIR around offshore wind and tidal. Can you please forward any relevant information to me by Tuesday 19th Jan and I'll return a single response to [redacted].

Happy to discuss,

[redacted]

[redacted]

[redacted] | Marine Scotland

Victoria Quay, The Shore, Edinburgh EH6 6QQ

[redacted]

From: [redacted] [redacted]
Sent: 12 January 2021 14:22
To: [redacted] [redacted]; [redacted] [redacted]; [redacted] [redacted]
Subject: RE: 202100132049 - EIR - Scotland's share of offshore wind and tidal resources - request for relevant information - deadline - 20 January 2021

Nil return from me.

Agree try[redacted].

[redacted]

From: [redacted] [redacted]
Sent: 12 January 2021 14:14
To: [redacted] [redacted]; [redacted] [redacted]
Cc: [redacted] [redacted]
Subject: RE: 202100132049 - EIR - Scotland's share of offshore wind and tidal resources - request for relevant information - deadline - 20 January 2021

Thanks [redacted]

[redacted] nothing from me. [redacted] perhaps?

Best wishes

[redacted]

[redacted], Tel: [redacted]

Currently Working from Home [redacted]

From: [redacted] [redacted]

Sent: 12 January 2021 11:56

To: [redacted] [redacted]

Cc: [redacted] [redacted]; [redacted] [redacted]; [redacted] (MARLAB) [redacted]

Subject: RE: 202100132049 - EIR - Scotland's share of offshore wind and tidal resources - request for relevant information - deadline - 20 January 2021

Hi [redacted],

Nil return for me. (Copying [redacted] and [redacted] in case they have any correspondence)

Le deagh dhùrachdan / best wishes,

[redacted]

[redacted] [redacted]

Scottish Government | Marine Scotland

Riaghaltas na h-Alba | Cùisean Mara na h-Alba

I work flexible hours during Mon-Fri. He/Him/His.

t: [redacted] | [redacted]

w: gov.scot/marine | marine.gov.scot | maps.marine.gov.scot

From: [redacted] [redacted]

Sent: 11 January 2021 16:45

To: [redacted] [redacted]; [redacted] [redacted]; [redacted] [redacted]; [redacted] [redacted]; [redacted] [redacted]; [redacted] [redacted]; [redacted] (MARLAB) [redacted]; [redacted] [redacted]; [redacted] (Energy) [redacted]; [redacted] [redacted]; [redacted] (Energy) [redacted]; [redacted] [redacted]; [redacted] [redacted]; [redacted] [redacted]; [redacted] (MARLAB) [redacted] >[redacted]) [redacted] [redacted] [redacted]; Energy and Climate Change - Business Management [redacted] [redacted] [redacted]; [redacted] [redacted]; [redacted] [redacted]

Subject: 202100132049 - EIR - Scotland's share of offshore wind and tidal resources - request for relevant information - deadline - 20 January 2021

Dear All,

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Please note there are two parts to the request, one based on offshore wind and the other on tidal resources. Please see the full request below.

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Dear Scottish Government,

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And

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- Marine Analytical Unit ([redacted])
- OCSAM – ([redacted]and [redacted])
- Energy and Renewables Policy ([redacted], [redacted], [redacted], [redacted], [redacted]and[redacted])
- REEA – ([redacted], [redacted], [redacted])

The Low Carbon Support Unit ([redacted]and[redacted]), may have specific input for the tidal request (part 2)?

Apologies if this request is not relevant for you or I have identified you for the wrong request. Please let me know if others should be contacted or if I have missed someone.

Thank you in advance for your help.

Kind regards,

[redacted]

[redacted] | [redacted] - Marine Planning (Offshore Renewable Energy) | Marine Scotland
Scottish Government | 1 A South | Victoria Quay | Edinburgh | EH6 6QQ

Tel: [redacted]

Email: [redacted]

www.marine.gov.scot

www.gov.scot/marinescotland

From: [redacted]

Sent: 27 January 2021 15:30

To: [redacted]; [redacted]

Subject: EIR - Scotland's share of Europe's wind and tidal resources

Hi,

As mentioned at the catch-up this morning, the FOI unit have agreed that the EIR request is manifestly unreasonable based on the number of results that have to be reviewed in order to determine if they are in scope or not.

My plan is to issue the attached response tomorrow but as I've not had a chance to update you, [redacted], just wanted to let you see it first.

Hopefully the information I have provided will be sufficient, but if we hear back in the form of a review, I'll let you know.

[redacted]

[redacted]

[redacted]

- Marine Planning (Offshore Renewable Energy) | Marine Scotland

Scottish Government | 1 A South | Victoria Quay | Edinburgh | EH6 6QQ

[redacted]

Email: [redacted]

www.marine.gov.scot

www.gov.scot/marinescotland

From: [redacted] [redacted]

Sent: 21 April 2022 12:33

To: [redacted]) [redacted]

Subject: FW: FOI request

Hey[redacted]

Would appreciate your thoughts on this as I know you cleared the related FOI early last year (the question was in relation to wind and tidal, it's just wind this time).

This is the tweet from Cab Sec which people are jumping back on: Michael Matheson MSP on Twitter: "Scotland has 60% of UK's offshore wind capacity and 25% of Europe's wind resource. Meanwhile UK governments transmission charges in Scotland are the highest in Europe. This holds back investment in renewable energy and potential for new green jobs. <https://t.co/MHLF6a4BGd>" / Twitter

I have no trace of it being approved by us/comms at the time. I've only seen one email since mentioning this 25% figure, but it was [redacted] pointing to your FOI and

saying it's an outdated figure from a report in 2001. I think I've also had one micase around this and basically said the same.

In the thread on twitter I can see people referencing your response, I'm not sure I can just issue the same again, or rephrase somehow? [redacted] on Twitter: "@ [redacted] @ [redacted] @ [redacted] that 25% figure is absolute bunkum - i challenge you to provide a robust contemporary source for that (using the same methodology for numerator and denominator) you'll be able to, surely?" / Twitter

Wondering if I could apply the same exception (if I search 25% Europe's wind resource on erdm there are almost 11000 pages of results, though most of these obviously won't relate to the actual topic in question, but no way of filtering through all that) but should I also include some wording about it being out-dated/not something we use (although obviously [redacted] did!)?

[redacted]

[redacted] [redacted] | Energy Industries Division |

Directorate for Energy and Climate Change | Scottish Government

Tel: [redacted]

From: [redacted] [redacted]

Sent: 04 April 2022 12:28

To: Central Enquiry Unit [redacted]

Subject: FOI request

Name and contact details:

[redacted]

[redacted]

[redacted]

[redacted]

[redacted]

[redacted]

FOI request:

In a tweet sent on 5th August 2021, Michael Matheson, Cabinet Secretary for Net Zero, Energy and Transport, make the following statement:

“Scotland has 60% of UK's offshore wind capacity and 25% of Europe's wind resource.”

Please provide the analysis and data which justifies this statement.

From: [redacted]

Sent: 21 April 2022 17:47

To: [redacted] [redacted]

Cc: [redacted] [redacted]

Subject: FW: Garrad Hassan 2001 report

Hi [redacted],

Just FYI on that FOI question.

I'll maybe go back and say we got the FOI and a colleague is addressing? Would also be good if we could find the report on a public source.

[redacted]

[redacted] | [redacted] | Marine Scotland

Scottish Government | 1 A South | Victoria Quay | Edinburgh | EH6 6QQ

Tel: [redacted] or [redacted]

Email: [redacted]

www.marine.gov.scot

www.gov.scot/marinescotland

From: [redacted] [redacted]

Sent: 21 April 2022 15:50

To: [redacted] [redacted]; [redacted] [redacted]

Subject: Re: Garrad Hassan 2001 report

[redacted] /[redacted]: can either of you help me out with this?

On 14 Apr 2022, at 15:17, [redacted] [redacted] wrote:

Hi[redacted]: can you help me out with this (see below)?

From: [redacted] [redacted]

Sent: Thursday, April 14, 2022 3:14 pm

To: [redacted] [redacted]

Subject: Garrad Hassan 2001 report

Hi[redacted],

Your answer to this FOI request linked to a 2001 Garrad Hassan report “Scotland’s Renewables Resource” report, but that link was only to a brief Executive Summary. Is the full report available? If so, can you send it to me?

<https://www.gov.scot/publications/foi-202100132049/>

Many thanks,

[redacted]

[redacted]

From: [redacted] (Energy) [redacted]

Sent: 08 April 2022 17:00

To: [redacted] [redacted]; [redacted] [redacted]

Subject: RE: 2001 report

Sorry [redacted], I only ever remember seeing this 11 page document - TITLE (parliament.scot)

[redacted] | [redacted] | Directorate for Energy and Climate Change | ☎ [redacted]

From: [redacted] [redacted]

Sent: 08 April 2022 14:21

To: [redacted] (Energy) [redacted]; [redacted] [redacted]

Subject: FW: Garrad Hassan 2001 report

Hi [redacted] and [redacted], sorry to ask but I'm just bout to head off on leave. Do you have a copy of the full report we could send out?

I think there was a version on eRDM but we pointed to the exec summary as I wasn't sure about a public version.

Thanks,

[redacted]

[redacted] | [redacted] | Marine Scotland

Scottish Government | 1 A South | Victoria Quay | Edinburgh | EH6 6QQ

Tel: 0131 24 46484 or 07557197332

Email: [redacted]

www.marine.gov.scot

www.gov.scot/marinescotland

From: [redacted] [redacted]

Sent: 08 April 2022 14:11

To: [redacted] [redacted]

Subject: Garrad Hassan 2001 report

Hi [redacted],

Your answer to this FOI request included linked to a 2001 Garrad Hassan report “Scotland’s Renewables Resource” report, but that link was only to a brief Executive Summary. Is the full report available? If so, can you send it to me?

<https://www.gov.scot/publications/foi-202100132049/>

Many thanks,

[redacted]

[redacted]

From: [redacted] [redacted]

Sent: 27 April 2022 08:09

To: [redacted] [redacted]

Cc: [redacted] [redacted]

Subject: Re: Scotland has 25% of Europe’s capacity in wind energy?

[redacted]: that’s great - thank you!

On 26 Apr 2022, at 14:43, [redacted] wrote:

Dear [redacted],

Please accept my apologies for the delay in replying to this and your previous emails.

Unfortunately, due to the nature of your questions, the emails you have sent to myself and [redacted] were picked up under the FOI that our colleagues in energy policy are addressing. I believe a response will be issued shortly.

With regards to the assumptions below, I believe your calculations are in line with those that were carried out at the time. Unfortunately, I do not have access to the details of the formulae applied but my colleague in Energy Policy is looking to provide more detail in the FOI response and is sourcing the full Garrad Hassan report "Scotland's Renewables Resource" paper for you.

I hope this helps.

Kind regards,

[redacted]

[redacted] | [redacted] | Marine Scotland

Scottish Government | 1 A South | Victoria Quay | Edinburgh | EH6 6QQ

Tel: [redacted] or [redacted]

Email: [redacted]

www.marine.gov.scot

www.gov.scot/marinescotland

From: [redacted] [redacted]

Sent: 25 April 2022 12:24

To: [redacted] [redacted] ; [redacted] [redacted]

Subject: Fwd: Scotland has 25% of Europe's capacity in wind energy?

Dear [redacted] / [redacted],

Can you confirm that the correct interpretation of this FOI response...

<https://www.gov.scot/publications/foi-202100132049/>

... is the calculation I have set out below in correspondence with [redacted] MSP?

Very best wishes,

[redacted]

[redacted]

From: [redacted] MSP [redacted]

Sent: Monday, April 25, 2022 12:17 pm

To: [redacted] [redacted]

Subject: Re: Scotland has 25% of Europe's capacity in wind energy?

Dear [redacted],

As this figure was calculated by Scottish Government officials, I'm afraid I can't speak directly to the calculations behind the result, though I am completely confident in the provided figure.

If you would like confirmation, you may wish to make a freedom of information request to obtain the specific calculation. <https://www.gov.scot/about/contact-information/how-to-request-information/>

Best wishes,

[redacted]

[redacted] MSP

[redacted]

Pronouns: He/Him

From: [redacted] [redacted]

Sent: Monday, April 25, 2022 12:05:48 PM

To: [redacted], MSP [redacted]

Subject: Re: Scotland has 25% of Europe's capacity in wind energy?

CAUTION: This e-mail originated from outside of The Scottish Parliament. Do not click links or open attachments unless you recognise the sender and know the content is safe.

Dear [redacted],

Many thanks for your reply.

To be sure I understand correctly, I believe you are taking the 82,000 GWh figure from here (page 8 of first pdf link):

And dividing by the 313.6 TWh from here (page 18 of second pdf link):

To arrive at this calculation:

$$82 / 313.6 = 26\%$$

Have I got that right?

Very best wishes,

[redacted]

[redacted]

On 25 Apr 2022, at 10:24, [redacted] MSP [redacted] wrote:

Dear [redacted],

Thank you for your email and for reading my column. The figure can be derived from the information in:

- Scotland's Renewable Resource (Scottish Government/Garrad Hassan)
<https://archive.parliament.scot/business/committees/enterprise/inquiries/rei/ec04-reisscotenvlinkfollowup2.pdf>
- Wind Force 10 – a blueprint to achieve 10% of the world's electricity from wind power by 2020" European Wind Energy Association, Forum for Energy and Development, and Greenpeace International (October 1999).
<http://www.inforse.org/doc/Windforce10.pdf>

Best wishes,

[redacted]

[redacted] MSP

[redacted]

Pronouns: He/Him

From: [redacted] [redacted]

Sent: Sunday, April 24, 2022 8:51:31 PM

To: [redacted] MSP [redacted]

Subject: Scotland has 25% of Europe's capacity in wind energy?

CAUTION: This e-mail originated from outside of The Scottish Parliament. Do not click links or open attachments unless you recognise the sender and know the content is safe.

Dear [redacted],

On 18th January 2022, your column for the Edinburgh Evening News included this claim:

"With more than 25 per cent of Europe's capacity in wind energy, Scotland is set to become a massive producer and exporter of renewable energy."

How do you justify the claim that Scotland has 25% of Europe's capacity in wind energy?

Very best wishes,

[redacted]

[redacted]

[redacted]

[redacted]

[redacted]

From: [redacted] [redacted]

Sent: 27 April 2022 08:09

To: [redacted] [redacted]

Cc: [redacted] [redacted]

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I hope this helps.

Kind regards,

[redacted]

[redacted] | [redacted] | Marine Scotland

Scottish Government | 1 A South | Victoria Quay | Edinburgh | EH6 6QQ

Tel: [redacted] or [redacted]

Email: [redacted]

www.marine.gov.scot

www.gov.scot/marinescotland

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To: [redacted] [redacted]; [redacted] [redacted]

Subject: Fwd: Scotland has 25% of Europe's capacity in wind energy?

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Can you confirm that the correct interpretation of this FOI response...

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Very best wishes,

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[redacted] MSP

[redacted]

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Have I got that right?

Very best wishes,

[redacted]

[redacted]

On 25 Apr 2022, at 10:24, [redacted]

MSP <[redacted]> wrote:

Dear [redacted],

Thank you for your email and for reading my column. The figure can be derived from the information in:

- Scotland's Renewable Resource (Scottish Government/[redacted])

<https://archive.parliament.scot/business/committees/enterprise/inquiries/rei/ec04-reisscotenvlinkfollowup2.pdf>

- "Wind Force 10 – a blueprint to achieve 10% of the world's electricity from wind power by 2020" European Wind Energy Association, Forum for Energy and Development, and Greenpeace International (October 1999).

<http://www.inforce.org/doc/Windforce10.pdf>

Best wishes,

[redacted]

[redacted] MSP

[redacted]

Pronouns: He/Him

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Very best wishes,

[redacted]

[redacted]

[redacted]

[redacted]

[redacted]