

Cllr Dr Stuart Anderson

From: Richard Willden [richard.willden@eng.ox.ac.uk]
Sent: 19 January 2016 11:35
To: Cllr Dr Stuart Anderson
Subject: Re: FW: Coastal Futures workshop on operative requirements for tidal energy plant

Dear Stuart,

Thank you for sharing this with me and for the invitation to this workshop. Apologies for not replying to you on this sooner.

As yourself I am amazed by the significant lack of engineering and scientific rigour in the calculation of performance and derived economics.

I am afraid that I am unable to make the meeting tomorrow but hope that you manage to make some progress. If there are any minutes or summary statement produced I would be very interested to read these.

Best regards,

Richard

Professor Richard Willden
Associate Professor of Marine Renewable Energy,
Department of Engineering Science, University of Oxford, OX1 3PJ, UK.
Fellow of St Edmund Hall, Oxford, OX1 4AR, UK.
E-mail: richard.willden@eng.ox.ac.uk Tel: +44 (0)1865 2 73168 / 79023
Web: <http://www.eng.ox.ac.uk/tidal>

On 04/01/2016 09:15, Alison May wrote:

From: Cllr Dr Stuart Anderson [<mailto:cldr.dr.stuart.anderson@conwy.gov.uk>]
Sent: 02 January 2016 15:33
To: civil.secretary@eng.ox.ac.uk
Cc: Simons, Richard
Subject: Coastal Futures workshop on operative requirements for tidal energy plant

Dear Richard,

As you can see from the email below, Richard Simons has kindly told me about your work on tidal energy.

I have attached some details about a workshop I will be running at Coastal Futures on 20th January with my cousin Dr Hugh Hunt from Cambridge and Ben Drakeford from Plymouth, who is the UK focal point for the EU Atlantic strategy.

I wonder if you and/or any interested colleagues might be able to attend this?

As the person who put forward the ideas taken forward by Atkins and Rolls-Royce in their SETS study, I hope you will understand why I feel desperately keen that opportunities afforded by the Swansea Bay scheme are not squandered.

To this end I feel that an academically backed change in nomenclature (actually to the one that I suggested in the first place, in 2008) is now urgently needed to encourage more thoughtful evaluation of technological needs and opportunities.

The Irish Sea 2050 website should have most references up and running within a week or so.

Kind regards,

Stuart Anderson.

From: Simons, Richard [<mailto:r.r.simons@ucl.ac.uk>]
Sent: 01 November 2015 20:20
To: Cllr Dr Stuart Anderson
Subject: Re: Ref next Tuesday at Westminster: some irritating thoughts from the grit in the oyster

Dear Stuart,

I am sorry to let you down, but I don't at the moment feel I can contribute anything useful to the lobbying effort (it is a very busy time for various research projects and I also have some crises to deal with as Director of Studies).

Rest assured I remain a convinced advocate of tidal power: one of my projects (SMARTY) is looking at extreme loading on a model tidal turbine in combined wave and current flows, and another is looking at seabed scour around marine structures. I cannot remember if you have been to any of the very interesting Tidal Energy Workshops held at Oxford: these have been organised by Dr Richard Willden ...

<https://www.youtube.com/watch?v=ktZoExS9unk>
<http://www.eng.ox.ac.uk/tidal/ote2015>

He would be a good person to speak to when seeking support.

All the best,

Richard

From: Cllr Dr Stuart Anderson <cldr.dr.stuart.anderson@conwy.gov.uk>
Sent: 01 November 2015 17:43
To: Burrows, Richard; Simons, Richard
Subject: FW: Ref next Tuesday at Westminster: some irritating thoughts from the grit in the oyster

Dear Richard & Richard,
This FYI and to say that Roger Falconer has indicated he's been in contact with Rolls-Royce...
Anything you can do to help add further encouragement would be welcome.
Kind regards, and with appreciation
Stuart

From: Cllr Dr Stuart Anderson
Sent: 31 October 2015 12:01
To: 'Roger Falconer'; 'Stephens, Jayne (BETS - Sectors & Business)'; 'Loveland, Ron (ESH - Head of Sustainable Energy and Industry)'; 'Jaap Flikweert'
Subject: FW: Ref next Tuesday at Westminster: some irritating thoughts from the grit in the oyster

Dear Roger, Jayne, Ron and Jaap,
This for your advance information...

Kind regards,
Stuart

From: Cllr Dr Stuart Anderson
Sent: 31 October 2015 11:46
To: 'JONES, David'; 'DAVIES, James'
Subject: FW: Ref next Tuesday at Westminster: some irritating thoughts from the grit in the oyster

Dear David and James,

I thought I'd copy you both in with this ahead of the meeting next Tuesday.

This is partly because I think the idea of a multi-stakeholder visit to S Korea in 2016 might be worth having a word with you both about afterwards.

I've already contacted the organiser of the following conference, who's expressed interest in Rolls-Royce's participation <http://www.bitcongress.com/nef2016/>



BIT's 6th Annual New Energy Forum (NEF-2016)

Dr. Ken Howard Ken Howard is a hydrogeologist, certified by the American Institute of Hydrology, chartered by the British Geological Society and registered as a ...

[Read more...](#)

In any case, many thanks in advance for your excellent and most kind support – both in hosting this meeting, and for attending 'IRISH SEA 2050' in James' case.

Kind regards,

Stuart

PS I suggest skim-reading my review by working backwards from p. 16....(i.e. conclusions & recommendations)

From: Cllr Dr Stuart Anderson
Sent: 31 October 2015 11:22
To: 'Henry Dixon'; 'eryl.vaughan@northwalestidalenergy.com'; 'Nader'; 'John Gardner'; 'Andybillcliff'; David Vandercruyssen; 'John Reynolds'
Cc: 'Roger Falconer'; John Epps; 'Hugh Hunt'
Subject: Ref next Tuesday at Westminster: some irritating thoughts from the grit in the oyster

Dear All,

Following a chat with Henry this week I feel it's my duty to make the following points:-

1. TLP's Design & Access figure of 240 MW Installed Capacity, with average tidal range 6.4 m and impounded area 11.5 sq km, actually means a DoEn x3 rating. (I got this wrong before, partly because I'd been going on a 200MW figure for IC.)
2. For NWTE to claim 2.4 GW Installed Capacity for a 150 sq km impounded area with 5.1m average tidal range (as Henry says he intends to do on Tuesday) would also equate to DoEn x3.

3. A consensus seems to be there to go for DoEn x3. While I agree wholeheartedly that this is the proper target to aim for, for reasons discussed and illustrated in my review of the Atkins/Rolls-Royce paper (updated version attached herewith) the full house of proper environmental, economic and social usefulness must inevitably mean specification of pump/turbines with markedly better whole-cycle performance, in both directions, for relevant parts of the overall generation agenda than adapted one-way bulb turbines can possibly offer (with or without variable speed gearing).
4. The company that's indicated how to do this is Rolls-Royce, in a thoroughly government-approved document that's the single most positive result to have come out of the £12m overall study programme on tidal range already paid for between 2002 & 2010 through your taxes and mine.. It follows that it is in our interests - and even more importantly, the public interest - for the relative performance of the Rolls-Royce pump/turbine to be properly assessed for deployment in the Swansea Bay scheme. By contrast the recent Volkswagen controversy underlines the folly of blind faith in 'Forschprung Durch Technik', especially if it's basically 60 years old.
5. When it comes to talking to politicians, civil servants and others next Tuesday, I suggest honesty is the best policy over this matter. Otherwise, on the one hand we'll be missing an opportunity to distinguish ourselves from TLP in the most creative and constructive signposting exercise presently open to us to use with our limited resources, and on the other bring on our own heads the shame of finding afterwards that we've lazy-mindedly left it to others to have the courage to qualify the 'slick sales talk' TLP have tried to mesmerise everyone with. (This is not to say that there aren't some very good aspects of what they've done – especially to highlight the real prospects for tidal range to prove much more economical than any other form of marine renewable....)
6. I told Henry some time ago that NWTE's situation in this respect was like that in The Life of Pi, being stuck in a lifeboat with a tiger. Well, I believe this gives us the read-to-fit outboard motor with which to steer the whole boat to safety. (Tigers are good at roaring but less so at fixing outboard motors, let alone navigation!)
7. I rest my case on the fact that Roger Falconer tells me he's now also been in contact with Rolls-Royce to encourage them to take a renewed interest. Also on the review below of what must be done to mitigate worldwide catastrophe over sea level rise. In such a context, if we're wise we will position NWTE's first scheme to help prove that the peddling by TLP of a supposed market dichotomy between barrages and lagoons is wholly unsustainable.....

<https://www.newscientist.com/article/mg22830433-900-even-drastic-emissions-cuts-cant-save-new-orleans-and-miami/>

Kind regards,

Stuart

Dilynwch broses ddemocrataidd y Cyngor ar Twitter [@DemCBSConwy](https://twitter.com/DemCBSConwy)
Follow the Council's democratic process on Twitter [@DemConwyCBC](https://twitter.com/DemConwyCBC)

Mae'r neges e-bost hon ac unrhyw ymgysylltiadau yn gyfrinachol, ac wedi eu bwriadu ar gyfer yr un sy'n cael ei h/enwi yn unig. Gallent gynnwys gwybodaeth freintiedig. Ar gyfer yr amodau llawn ynglŷn â chynnwys a defnyddio'r neges e-bost hon ac unrhyw atodiadau, gweler www.conwy.gov.uk/ebost_ymwadiad

This email and any attachments are confidential and intended for the named recipient only. The content may contain privileged information. For full conditions in relation to content and

use of this e-mail message and any attachments, please refer to
www.conwy.gov.uk/email_disclaimer