

From: Johnston, Chris
To: ["Padraic O'Neill"; "Fred Tottenham";](#)
Subject: RE: DAFM Climate Mitigation Presentation
Date: 08 January 2016 18:06:00

Hi Fred and Padraic,

(indeed the paper is looking at a whole gambit of RE technologies within a backdrop of livestock agriculture so possibly a little too crowded a picture for purity)

I think the potential for farm scale AD has been a missed chance up here. I feel that the farmers Union would support the smaller farm scale much more than the larger 500kW energy production facilities. Ie a system to actually manage and store manure, manage nutrient, utilise less energy crop but actually displace some electricity and heat need within the farm holding. There is talk of 1 or 2 companies looking to develop small scale AD here but currently I think our AD plant is the smallest and more farm scale than any others !!

Maybe there is some data I can look into accessing specifically Fred in which case let's chat and I will do what I can.

We had an interesting meeting up here today with DETI, BENI. Action Renewables and IrBea. The sector is certainly moving on but none of us are sure on the next steps the RHI here will take and indeed more worryingly whether N.Ireland's appetite for funding the RHI post 2017 will continue (currently of course it is funding by GB).

See you soon
Regards
Chris

Chris Johnston
Tel:- 02892681540
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From: Padraic O'Neill [<mailto:padraic@envirovalue.ie>]
Sent: 08 January 2016 17:37
To: 'Fred Tottenham'
Cc: Johnston, Chris
Subject: RE: DAFM Climate Mitigation Presentation

Fred,

Chris sent me the attached report on the AFBI AD plant.

It is an excellent paper, providing a lot of detail in what is quite a complicated operation. It is difficult to get a measure of the impact of the AD plant on the overall carbon footprint. As we know, the AD renewable energy output will at best offset 5%

of the carbon footprint. A much bigger impact is achieved by better manure management. The paper cites a good range of references in this area.

Padraic

From: Fred Tottenham [<mailto:> Personal information redacted by the RHI Inquiry]
Sent: 08 January 2016 14:58
To: Johnston, Chris
Cc: Padraic O'Neill
Subject: Fwd: DAFM Climate Mitigation Presentation

Happy new year Chris,

I've got a sudden interest in farm scale AD. Perhaps prompted by your comments at the last MC meeting I think we are looking for Dept of Energy too much to fund AD. If we think of AD as a Farm Scale Carbon Abatement technology, we reduce a lot of the complexities with the system. It also reduces the number of government agencies and puts it firmly in the lap of the Dept of Ag.

Have you any figures on small scale AD plants (preferably heat only)?

Fred

----- Forwarded message -----

From: **Padraic O'Neill** <padraic@envirovalue.ie>
Date: Wed, Jan 6, 2016 at 10:33 PM
Subject: RE: DAFM Climate Mitigation Presentation
To: Fred Tottenham Personal information redacted by the RHI Inquiry



Fred,

A bit more digging has found this as the source of the MACC, http://www.teagasc.ie/publications/2012/1186/1186_Marginal_Abatement_Cost_Curve_for_Irish_Agriculture.pdf

For some reason they only consider AD using pig slurry?

I will continue poking around.

Padraic

From: Padraic O'Neill [mailto:padraic@envirovalue.ie]

Sent: 06 January 2016 22:00

To: 'Fred Tottenham'

Subject: DAFM Climate Mitigation Presentation

Fred,

This is the link to the presentation given in mid 2015. <http://www.agriculture.gov.ie/ghgmitigationconsult/presentationsfromgreenhousegasmitigationseminar/>

It is the one labelled “Teagasc Presentation” and the MACC is shown on slide 17.

I could get back in touch with Schutte?

Kind regards,

Padraic O'Neill

086 8562528

<http://www.linkedin.com/pub/padraic-o-neill/16/241/401>

www.envirovalue.ie