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 To: [Hughes, Seamus](#)
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 Subject: Estimate of Renewable Heat % at 31/3/15
 Date: 01 April 2015 17:30:24
 Attachments: [WeeklyExport.xlsx](#)
[NI_Data_W-Ending_29-03-2015.xls](#)

Seamus,

From the attached spreadsheets, I estimate the amount of renewable heat (at 31/3/15) to be just under 3.1% not including heat from CHP which has been incentivised under the NIRO. We should maybe ask Michael to check ask Ofgem if they would have information on the amount of renewable incentivised by the ROCs since 2010. We will be asked to report on the 4% SEF target over the coming weeks so any CHP heat estimates than can increase the 3.1% figure would be welcomed.

I've setout my estimate below. Can you please TRIM this.

Thanks, Stuart

My estimation is as follows:

(1) Amount of renewable heat in place before RHI (2010 baseline) = 300 GWh

(2) Amount of renewable heat incentivised through the Non Domestic RHI

Estimated Generation (for all approved and pending applications in spreadsheet) = **206 GWh**

(3) Amount of renewable heat incentivised through the RHPP

Technology	No (%)	Ave Capacity (Kw)	Assumed Operating Hours	Estimated Annual Generation (GWh)
Biomass	572 (47%)	26	982.8 (3hrs /day)	14.62
GSHP	146 (12%)	13.5	982.8 (3hrs /day)	1.94
ASHP	155 (13%)	13.5	982.8 (3hrs /day)	2.06
		Ave Generation (Kwh)		
Solar	351 (28%)	1200		0.42
Total	1224			<u>19.04 GWh</u>

(4) Domestic RHI (from Dec 2014)

Splitting the 150 applications received to date using the RHPP technology split above

Biomass = $(0.47 \times 150 \times 26 \times 982.8) / 1000000 = 1.8 \text{ GWh}$

GSHP = $(0.12 \times 150 \times 13.5 \times 982.8) / 1000000 = 0.24 \text{ GWh}$

ASHP = $(0.13 \times 150 \times 13.5 \times 982.8) / 1000000 = 0.26 \text{ GWh}$

Solar = $(0.28 \times 150 \times 1200) / 1000000 = 0.05 \text{ GWh}$

Total = 2.35 GWh

Estimated total renewable heat [(1) + (2) + (3) + (4)]= 527.39 GWh

Estimated Total NI Heat demand = 17,100 GWh*

% Renewable Heat = $527.39 / 17100 * 100 = 3.084 \%$

*based on predicted energy efficiency reductions from 17.4 TWh in 2010 to 16.7 TWh in 2020 setout in the following report

http://www.detini.gov.uk/the_development_of_the_northern_ireland_renewable_heat_incentive.pdf

2 Excel documents attached separately