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# **Micro generation Workshops The Northwest**

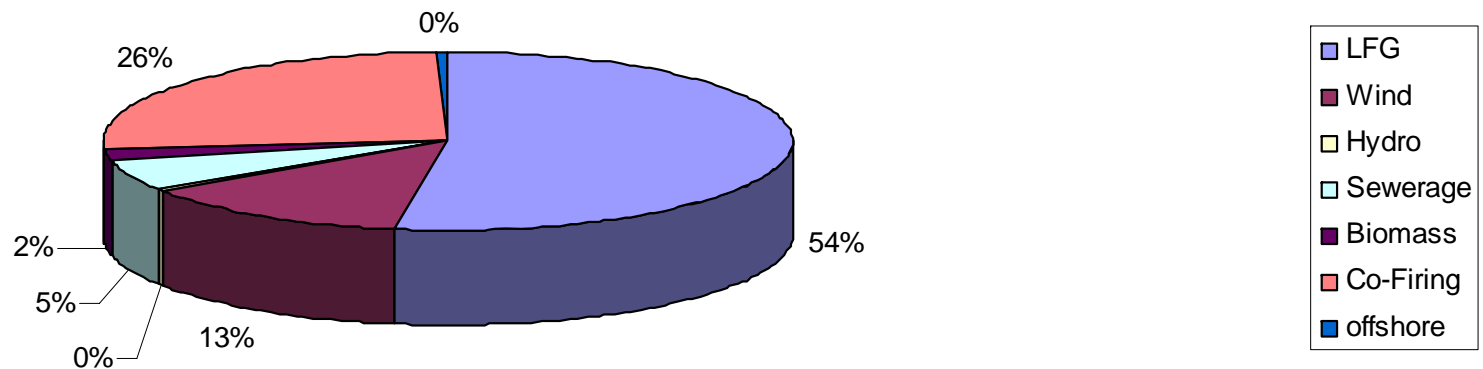
**Julian Carter  
General Manager**

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RE production by Technology 2005/6



Total Production 1,091,940 MWh



# The Idea

- Inform the people who need to know
  - Prepare for the policy on its way
  - Introduce solutions
  - Learning in a safe environment with the case study
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- **MOST IMPORTANT – WHAT WOULD YOU WANT FROM SUCH A SESSION.**
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9.30 – 9.50	Introduction to DEA and topic	Peter Owen
9.50 – 11.15	Technology briefs on HEAT including, Solar Heat, Biomass, Using Less heat, Ground source heat (Each presentation will be 20 Min)	Solar – Barry Johnson Solar Twin Biomass – Talbots Using Less – Stanford Brook or Energy Projects Plus Ground Source Heat – <b>Heat Pump Principles and Practicalities</b> Dr Aled W Davies (Director, WDS Environmental)
11.15 – 11.30	Coffee	Exhibition space for technologies
11.30 - 12.30	Technology briefs including, PV Solar, Using Less electricity, wind, (Each presentation will be 20 Min)	PV – Solar Sun Dog or Harper Hay housing Using Less – Energy Projects Plus Wind – Windsave or Great Places Housing
12.30-1.00	Question time	
1.00 – 1.45	Lunch	Exhibition space for technologies
1.45 – 3.15	Session A For housing providers, Builders, maintenance, architects a workshop on the way to design in, role of retrofit, maintenance implications, Funding opportunities, assessing the benefits.	Case Study based learning session – Under design Facilitator needed
1.45 – 3.15	Session B For policy developers, and councillors a workshop on the creation of policy and targets, monitoring principles and practice, overcoming inertia, integrated development, process of considering a scheme.	Case Study based learning session – Under design Facilitator needed
3.15 – 3.30	Wrap up session with brief from each of sessions A and B	Chair and rep from each session.





## The case study

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- Introduction
  - Discussion
  - Policy vacuum
  - What about existing properties
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# 2015 Table

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RE Type / Scale	Existing Schemes		Indicative Composition of Target		
	No of Schemes	Capacity (MW)	No of schemes	Capacity (MW)	Energy Output (GWh / yr)
Offshore wind farms	0	0	4	747	2,356
On-shore wind farms			44 – 62	720	1,561
On-shore wind clusters	16	68.9			
Single large wind turbines			50	75	162.6
Small stand-alone wind turbines	Small	Small	75	2.25	4.9
Bldg.-mounted micro-wind turbines	0	0	10000	10	16.6
Biomass-fuelled CHP / electricity schemes	2	11.1	12	56.1	271.5
Biomass co-firing	2	103	0	0	0
Anaerobic digestion of farm biogas	0	0	10	20	96.8
Small hydro	9	2.7	12	3.5	7.1
Solar photovoltaics <sup>[1]</sup>	V small	V small	25000	50	52
Tidal energy	0	0	2	30	67
Wave energy	0	0	0	0	0
<i>Energy from waste</i>					
Landfill gas	52	113.4	19	79.1	382.8
Sewage gas	16	13.4	16	13.4	64.9
Thermal treatment of municipal / industrial waste	1	10.5	3	125.5	607.4
<b>TOTAL</b>	<b>98</b>	<b>323</b>	<b>247 – 265 + PV + Micro Wind</b>	<b>1931.9</b>	<b>5,650.6</b>



## Feedback and contribution

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- Over to you –
    - What would you expect from attendance
    - What does it not cover which would be useful
    - Other issues
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