

The Retrofit Market: CESP, CERT & life before RHI

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Systems Approach

From Key Issues for Renewable Heat project

Good Policy Framework

- Quality Scheme
- Financial Schemes
- Regulation Schemes

Supported by flanking measures of:

- Public Awareness
- Training



Systems Approach

From Key Issues for Renewable Heat project

Good Policy Framework

Quality Scheme

MCS

Financial Schemes

LCBP, CERT

Regulation Schemes CfSH, GPDO

Supported by flanking measures of:

Public Awareness

EST

Training

SSC

-Trade Associations coordinate this



Quality Scheme MCS

First Trade Association to publicly endorse MCS

New Licensee – Gemserv

New Installer Certification Bodies

(Installer Clear Skies List closed 31st March 09)

- BRE
- NICEIC (Heat Pumps and Solar Thermal)
- NAPIT
- EC Cert (all technologies)
- HETAS
- BBA, Corgi, Action Renewables (Ireland & NI)



Quality Scheme MCS

New Product Certification Bodies (Product Clear Skies List closes 31st Dec 09)

- -BRE
- -HETAS
- -BBA, BSi, TUV NEL (Wind)

And new Chairman of Steering Group



Quality Scheme MCS

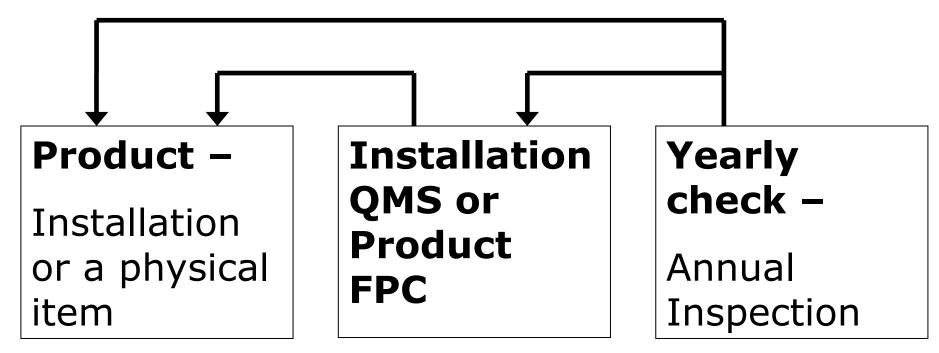
We need to:

- Review membership and remit of SG & WGs
- Appendix A with Summitskills
- Legionella (DEFRA, HHIC, HWA, STA, WRAS)
- Or equivalent (e.g. Scottish MCS)
- More scheme marketing
- 45 kW thermal to 300 kW thermal?
- Bring MCS & CPS together (MCS is tougher)
- Define Product Standards & what is a HP family



Microgeneration Certification Scheme

BS EN 45011–Product Certification Schemes



The product test report, installation Quality Management System (QMS) and product Factory Production Control (FPC) should be in English and from an internationally recognised Test House (TH) or Certification Board (CB) as appropriate. We do not need to send British inspectors abroad if TH & CB equiv.

EN 45011 – is administered by UKAS or equiv.



Informed that:

- Current Phase 1 (£1200 GSHP) closes
 30th June 2010
- New Phase 1 with £10 million starts
 1st July 2010
- And all monies must be spent by
 31st March 2011

New Phase 1 secretariat out to tender

EST is current secretariat



Technology cost – Phase 1

Technology	Av Cost (ex)	Cost / kW
Air Source Heat Pump	£7,400	
Biomass Stove	£3,600	
Ground Source Heat Pump	£10,800	
Small Scale Hydro	£32,500	£5,000
Solar PV	£13,100	£6,300
Solar Thermal Hot Water	£4,100	
Wind Turbine	£12,200	£3,100
Wood Fuel Boiler	£8,900	
Total	£7,100	



Informed that:

- £5 million allocated from £45 million in April 09 budget to Phase 2 framework suppliers
- Current Phase 2 framework suppliers (50% funding) closes 30th June 2009



Informed that:

- Uses MCS installer list & has 50% funding
- 1st tranch £15 million starts 1st July 09 to April 2010 (start of FIT)
- 2nd tranch £15 million from April 2010 to 31st March 2011(all money spent)
- 1st tranch electrical + heat
- 2nd tranch only heat technologies



Informed that:

- New Phase 2 secretariat out to tender
- BRE is current secretariat
 (continue until new secretariat is appointed)
- Phase 2 moves from 45 kW to 300 kW thermal
- Energy Technology List (ETL) will be used for Product Approval / Certification
- GSHPs currently 6 suppliers on ETL



CERT & CESP

Carbon Emissions Reduction Target uplift:

- Timeframe from 2011 to 2012
- "Government's proposal to increase the cap on innovative activity to 10%, and to retain a further 2% cap for additional microgeneration"
- CERT changes to Supplier Obligation in 2012



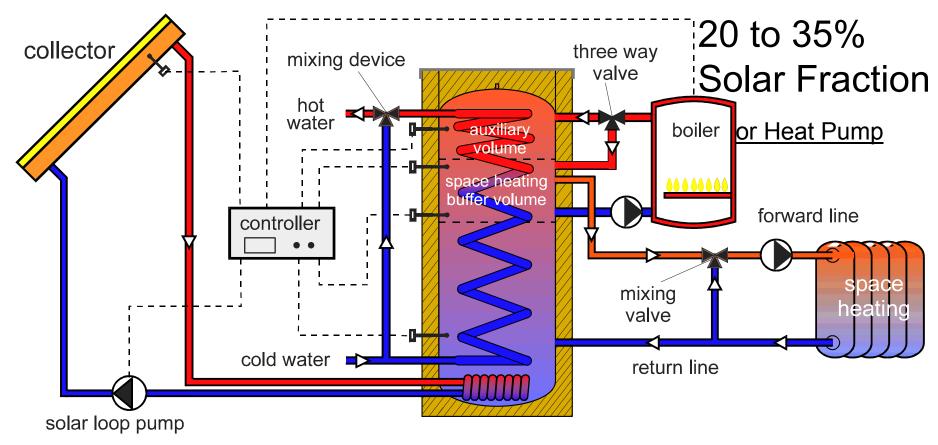
CERT & CESP

Community Energy Saving Programme (CESP) obligation:

- to December 2012
- £350 million programme
- About 90000 community homes
- Facilitates expensive solid wall insulation
- then focuses on Gas Condensing technology
- calls this a "whole house solution"
- This is a "partial house solution"!



CfSH Sys Approach - Heat Pumps probably gain most



- Lots of Optimisation opportunities e.g. SHBV at 35 °C, large buffer volume for good QΔT settings, Heat Pump fraction > 65%
- T&SC work on accurate, clear and concise information & advice



GPDO – General Permitted Development Order

New "microgeneration strategy bill and permitted development private members bill"

Q to Hergen Haye "Is new strategy good or bad?"

A: Government and Industry must use it to further the best interests of the sector

- Permitted development includes ASHPs
- GSHPs remain permitted development (except for listed buildings & conservation areas)
- Systems approach emphasis on storage & control



EST & Public Awareness

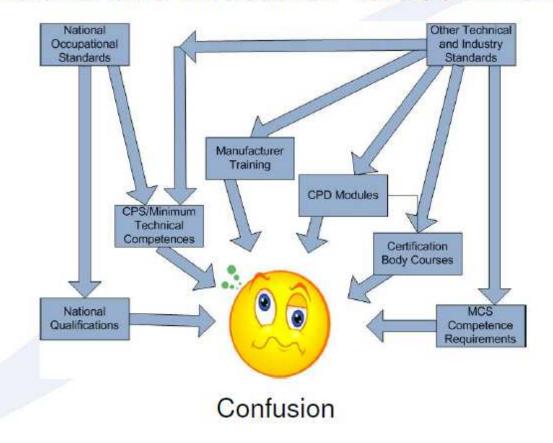
EST has based info on SAP 2005

- SAP consultation out (carbon factors are currently 0.591 for electricity and 0.235 for gas)
- Part L consultation out last Thursday
- EST looking to provide more microgen info (Rob Lewis and Stephen Passmore)
- FIT consultation out this summer
- In the future, Local Authorities probably play bigger role in Public Awareness
- Contact members very soon on consultations



SSC – Sector Skills Councils

What is the installer faced with?

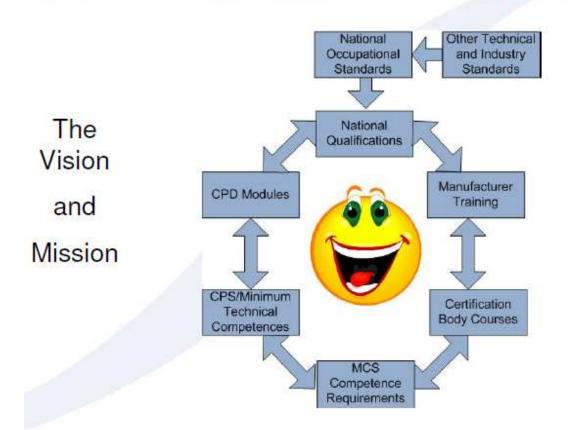






SSC – Sector Skills Councils

How we can remove the confusion?







Summitskills

Environmental Technology NOS (Operative)

NOS Units		Environmental Technology Systems	
EVTS 1	Plan for EVT Systems, Equipment and Components	Solar Water and Heating Underfloor Heating	
EVTS 2	Install EVT Systems, Equipment and Components	Micro CHP Ground Source Heat Pumps Air Source Heat Pumps Biomass/Biomass Fuels (Liquid) Rainwater Harvesting Grey Water Mech. Heat Recovery Ventilation Photovoltaics for Microgeneration Micro Wind Energy Micro Hydro Gen. Schemes Fuel Cell Technology Units may be contextualised for one or more of the above systems	
EVTS 3	Test EVT Systems, Equipment and Components		
EVTS 4	Commission EVT Systems, Equipment and Components		
EVTS 5	Inspect EVT Systems, Equipment and Components		
EVTS 6	Diagnose Faults in EVT Systems, Equipment and Components		
EVTS 7	Rectify Faults EVT Systems, Equipment and Components		
EVTS 8	Service and maintain EVT Systems, Equipment and Components		





Summitskills

Environmental Technology NOS (Higher)

NOS Units		Environmental Technology (ET) Systems	
EVTS 9	Determine Environmental Legislation and Working Practice Requirements for ET Systems	Solar Water and Heating Underfloor Heating	
EVTS 10	Develop ET System Design Solutions	Micro CHP Ground Source Heat Pumps Air Source Heat Pumps Biomass/Biomass Fuels (Liquid) Rainwater Harvesting Grey Water Mech. Heat Recovery Ventilation Photovoltaics for Microgeneration Micro Wind Energy Micro Hydro Gen. Schemes Fuel Cell Technology Units may be contextualised for one or more of the above systems	
EVTS 11	Evaluate and Advise on ET System Designs		
EVTS 12	Prepare and Agree ET System Designs		
EVTS 13	Plan and Implement Work Methods and Resources to Achieve ET Systems Installation Requirements		
EVTS 14	Implement Works to Achieve ET Systems Installation		
EVTS 15	Commission and Handover ET Systems after Installation		
EVTS 16	Manage Installation, Servicing and Maintenance of ET Systems		





Thanks for Listening

Much to do:

- refine MCS
- **LCBP** Phase 1 & 2
- CERT & CESP
- Implement Microgeneration Strategy
- GSHPs as core technology for ZCH
- Public awareness with Local Authorities & EST
- Operative & Higher Training with Summitskills