

The Retrofit Market: CESP, CERT & life before RHI

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22nd June 2009

From Key Issues for Renewable Heat project

Good Policy Framework

- **Quality Scheme**
- **Financial Schemes**
- **Regulation Schemes**

Supported by flanking measures of:

- **Public Awareness**
- **Training**

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*

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)

New Product Certification Bodies

(Product Clear Skies List closes 31st Dec 09)

– BRE

– HETAS

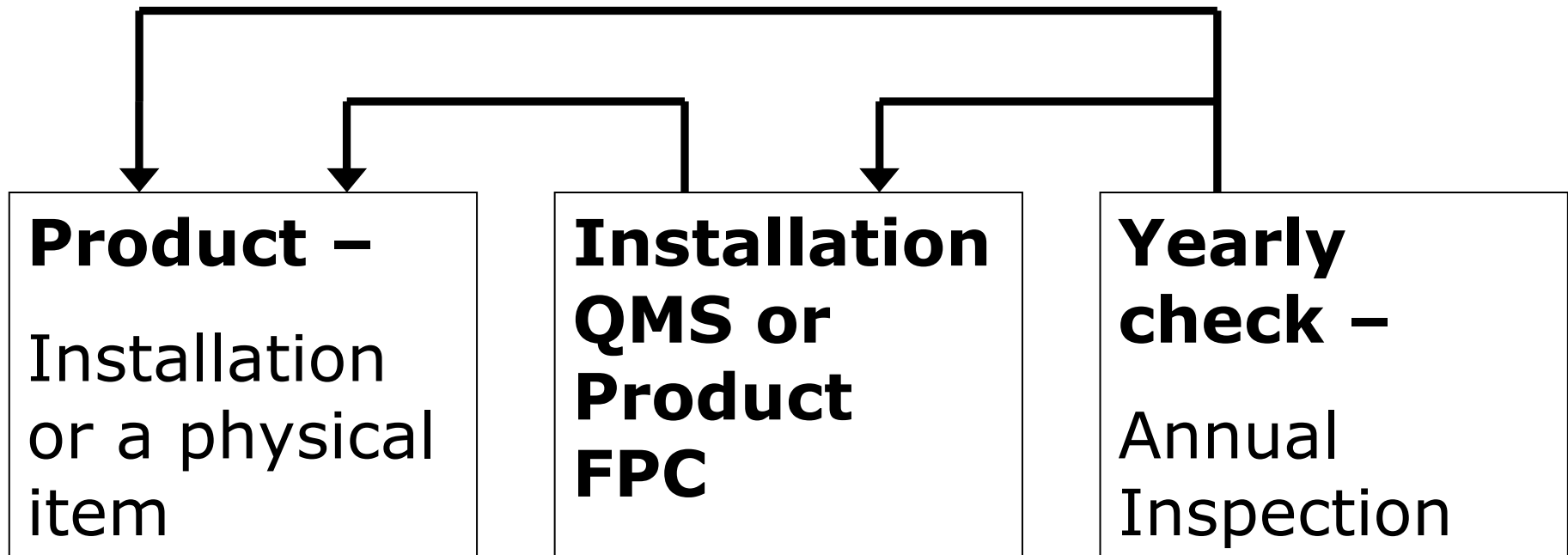
– BBA, BSi, TUV NEL (Wind)

And new Chairman of Steering Group

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

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	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 tranche £15 million starts **1st July 09 to April 2010** (start of FIT)
- 2nd tranche £15 million from **April 2010 to 31st March 2011** (all money spent)
- 1st tranche electrical + heat
- 2nd tranche 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

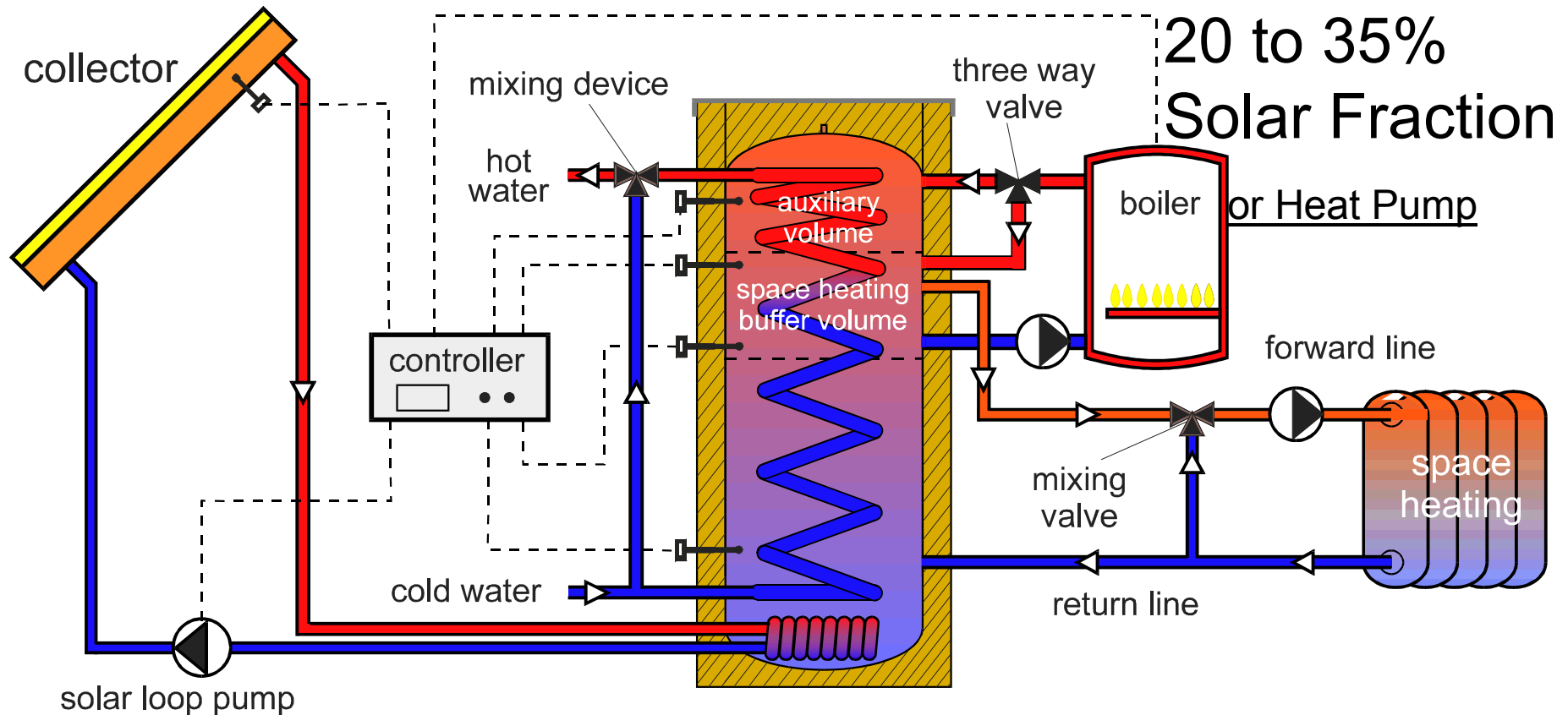
Carbon Emissions Reduction Target uplift:

- 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

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 $Q\Delta T$ settings, Heat Pump fraction > 65%
- T&SC work on accurate, clear and concise information & advice

New “*microgeneration strategy bill and permitted development private members bill*”

Q to Hergen Haye “Is new strategy good or bad?”

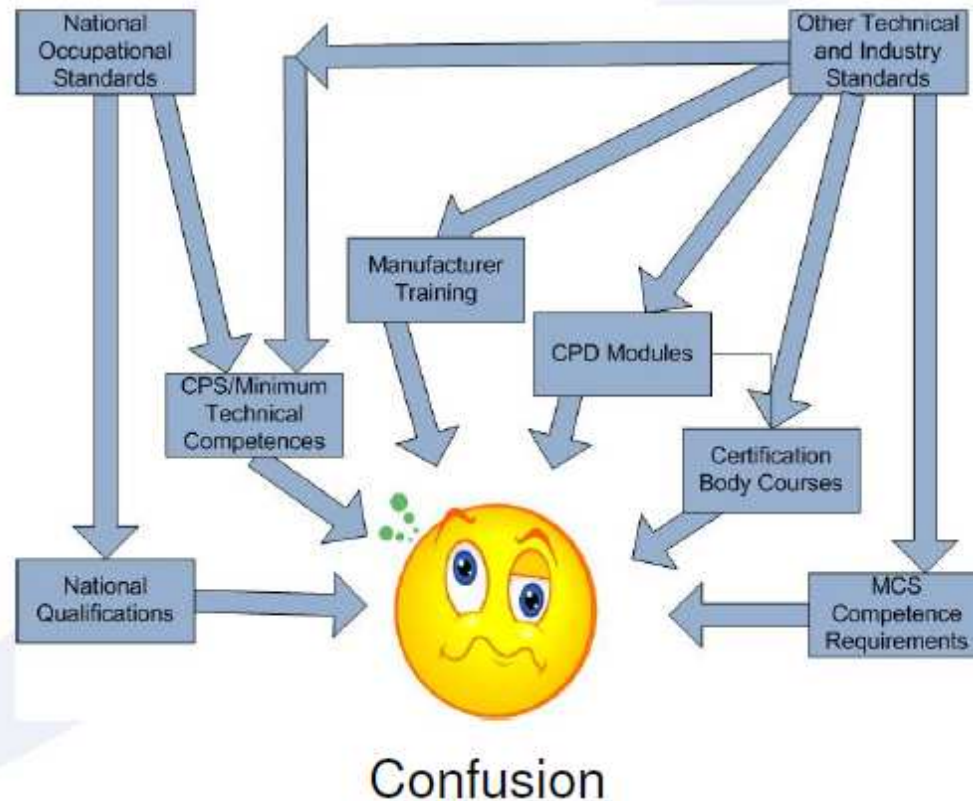
A: Government and Industry must use it to further the best interests of the sector

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

EST 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

What is the installer faced with?



How we can remove the confusion?

The
Vision
and
Mission



Environmental Technology NOS (Operative)

NOS Units		Environmental Technology Systems
EVTS 1	Plan for EVT Systems, Equipment and Components	Solar Water and Heating Underfloor Heating 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 <i>Units may be contextualised for one or more of the above systems</i>
EVTS 2	Install EVT Systems, Equipment and Components	
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	

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
EVTS 11	Evaluate and Advise on ET System Designs	Air Source Heat Pumps Biomass/Biomass Fuels (Liquid)
EVTS 12	Prepare and Agree ET System Designs	Rainwater Harvesting Grey Water
EVTS 13	Plan and Implement Work Methods and Resources to Achieve ET Systems Installation Requirements	Mech. Heat Recovery Ventilation Photovoltaics for Microgeneration
EVTS 14	Implement Works to Achieve ET Systems Installation	Micro Wind Energy
EVTS 15	Commission and Handover ET Systems after Installation	Micro Hydro Gen. Schemes Fuel Cell Technology
EVTS 16	Manage Installation, Servicing and Maintenance of ET Systems	<i>Units may be contextualised for one or more of the above systems</i>

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