Project

SEasonal PErformance factor and MONitoring for heat pump systems in the building sector
(SEPEMO-Build)

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Event report Sheet
High efficiency heat pump systems – from best practice to mainstream
Deliverable 6.4-2

Work Package 6
Dissemination

Supported by

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Event date: 2011-04-14
Event location: Brussels, Belgium
Event title: "High efficiency heat pump systems – from best practice to mainstream"
Tape of event: Seminar ☒, Exhibition ☐, Workshop ☐, Information Meeting ☐, Conference ☒
Promotion (How did you invite participants?): Mailing ☒, Press Releases ☐, Phone Calls ☐, Advertising ☒, on the EUSEW and SEPEMO website
Number of Participants: ~50 persons
Target group(s): Installers ☒, End users ☐, Policy makers ☒, Architects ☒

Abstract of the discussions:

Thomas Nowak welcomed all participants and gave an overview of the European heat pump market.

Paul Hodson discussed the decision in September of Eco design lot 1. Hopefully the time table will hold. Beyond 2020, technology evolution and policy must address the following issues:

- Reduce global warming 2 degrees,
- Industrial countries need to reduce ghg emissions by 80-96%
- Which path will be followed in heating of buildings?
- Role of CHP?
- Role of Biomass, fossil + ccs
- Role of Decentralized renewable?

Peter Murphy from Dimplex said that controllers will become more and more important for e.g. COP booster: minimum overheat but guarantee no liquid in suction line

Michael Monsberer of AIT showed 2 examples with high SPF values, but with rather much technology. The incremental impact of the different technologies must be assessed, to be cost efficient!!
Karl Mittelmayer from M-TEC showed how temperature differences gives improved COP for HP, but how does it affect parasitic losses?, Optimisation of system performance must be primary target! He also stressed the importance of low temperature heating systems

Roger Nordman from SP gave a presentation on the test center view of the performance of heat pumps, summarizing that testing for certification is important, but activities in standardisation, research and development give invaluable knowledge for progress in certification testing. He also said that certified products are important now and in the future, but also system knowledge is important (COP vs. SPF)

Marek Miara from Fraunhofer presented field studies carried out in Germany, showing average SPF of 3.9 in GSHP, new built, 3.3 old. For ASHP’s SPF’s were estimated to 2.9 in new built, and 2.6 in retrofits. Results can be viewed online at Wp-monitor.ise.fraunhofer.de

Onno Kleeckens discussed quality aspects of heat pumps and stressed that mass market need better quality. Cost effectiveness is essential in markets with existing gas grids. Ito gives performance guarantee for 15 years for the “living blue” concept. See differing performance.

A panel discussion followed in which Roger Nordman finished with the following recommendations:

End user:
Awareness of potential of environmental benefits, and financial incentives is crucial

Installers:
Incentives how to make good business from HP’s, End users should be comfortable with professional installation of new products.

Manufacturers:
Keep it simple! And robust!

Heat Pump city of the year.
At the end of the seminar, the heat pump city of the year 2011 was presented. The winner was:

Island of Bornholm, Denmark

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