

Economical heating and cooling systems for low energy houses



IEA HPP Annex 32

IEA HPP Annex 32 gives the framework for international research on heat pump systems for space heating and cooling in low energy houses in the **Heat Pump Program (HPP)** of the **International Energy Agency (IEA)**.

10 countries are participating in the IEA HPP Annex 32: Austria, Canada, Germany, Japan, The Netherlands, Norway, Sweden and the USA.

Focus of this website is the actual state of the research on the **national level** within the framework of the IEA HPP Annex 32 and the broader information on the topics

- Development of low energy buildings
- Field experience with heat pumps in low energy houses
- Design of systems for the different countries
- Development and market situation for heat pump systems in low energy buildings

The website will be continuously updated with information on the **IEA HPP Annex 32 project** and **publications** in the frame of IEA HPP Annex 32 and information to the topic of the Annex 32.

IEA HPP Annex 32 has been concluded in May 2011. **Deliverables** can be downloaded from the website

Links

Some links to projects and institutions related to the work in IEA HPP Annex 32



IEA Heat Pump Centre

The IEA Heat Pump Centre (HPC) is an international information service for heat pumping technologies, applications and markets by the Heat Pump Programme (HPP) implementing agreement of the International Energy Agency (IEA). The objective is to accelerate the implementation of heat pumps and related heat pumping technologies, including air conditioning and refrigeration. The website offers information on heat pumps and the IEA Heat Pump Programme projects (Annexes) and activities.

A newsletter containing information and scientific articles is published by the Heat Pump Centre, as well.

Website in English

 <http://www.heatpumpcentre.org>



European Heat Pump Association

The European Heat Pump Association represents the interests of the European heat pump industry on international level. The EHPA has several working groups on heat pump relevant topics. The website provides market statistics and publishes a newsletter.

Website in English

 www.ehpa.org



International Institute of Refrigeration

The IIR's mission is to promote knowledge of refrigeration technology and all its applications in order to address today's major issues, including food safety and protection of the environment (reduction of global warming, prevention of ozone depletion), and the development of the least developed countries (food, health).

The IIR commits itself to improving quality of life and promotes sustainable development.

Website in English and French

 www.iifiir.org



IEA ECBCS Annex 48 Heat pumping and reversible air conditioning

IEA ECBCS Annex 48 has the objective of making heat pump operation as reversible as possible by operating chillers in reverse operation (change over) or use the chiller's condenser heat for heating purposes (simultaneous operation).

The focus of ECBCS Annex 48 is on chillers and heat pumps in reverse operation in commercial buildings. A close information exchange to IEA HPP Annex 32 has been established.

Website in English

 <http://www.ecbcs-48.org>



IEA SHC Task 44/HPP Annex XX Solar and Heat pump systems

The joint Annex in the IEA Solar Heating and Cooling (SHC) Programme and the Heat Pump Programme (HPP) investigates the integration of heat pumps and solar thermal collectors.

The website provides an outline of the project, the participants as well as download of publications.

Website in English

 <http://www.iea-shc.org/task44>



European Heat Pump Network

The European Heat Pump Network (EHPN) was developed within the framework of three EU Projects (THERMIE, SAVE).

Main objective of this information platform is to support the market penetration by dissemination of information on all aspects of heat pumping technology. Website in English

 <http://www.ehpn.de>



SEPEMO Build Project

The SEPEMO Build project aims at overcoming market barriers to a wider application of heat pumps, namely the lack of robust data on the conditions in real installations influencing reliability and seasonal efficiency, i.e. the seasonal performance factor (SPF) of heat pump systems across Europe. The key objective is a broader acceptance of heat pump systems and improved quality assurance for heat pump systems in the building sector.

Website in English

 <http://www.sepemo.eu>



Heat Pump Best Practice Database

The Heat Pump Best Practice Database was developed within the framework of the IEE project **GROUND-REACH**. At the end of the GROUND REACH project in December 2008 all 52 case studies from 15 countries had been compiled in the database. Meanwhile, also air-source heat pumps are considered. The Best Practice Database shall be continuously updated.

Website in English



http://www.groundmed.eu/hp_best_practice_database/



PEP - Promotion of European passive houses

The objective of the project is the promotion of the potential of the **passive house concept** in Europe by the development of information packages and design tools for passive houses, the organisation of (inter)national workshops, symposia and conferences and the set-up of an **international passive house website**.

Website in English



<http://erg.ucd.ie/pep/index.htm>



International Passive House Association (iPHA)

iPHA is an independent and objective network of Passive House stakeholders including architects, planners, scientists, suppliers, manufacturers, contractors and property developers. It works to promote the **Passive House Standard** and foster a greater public understanding of its significance. Encouraging the exchange of Passive House knowledge, iPHA communicates with the media, the general public and the entire range of construction professionals. The objective is to advance the Passive House Standard worldwide as well as the quality for which it stands.

Website in English



<http://www.passivehouse-international.org/>



Build up platform

BUILD UP is a new environment for building professionals, local authorities and building occupants willing to share their experience on how to cut energy consumption in buildings. BUILD UP is to promote the exchange of all the best practices, tools and technologies available across Europe for an effective implementation of energy-saving measures in buildings.

Website in English



<http://www.buildup.eu>

IEA HPP Annex 32

IEA HPP Annex 32 is a corporate research project on technical building systems with heat pumps for the application in low energy houses. The project is accomplished in the Heat Pump Programme (HPP) of the International Energy Agency (IEA).

Internet: <http://www.annex32.net>