

Economical heating and cooling systems for low energy houses











IEA HPP Annex 32 Publications

Publications of Annex 32 workshops (papers and presentations), Interim reports and Journal articles.























Reports



Country reports on Task 1

- 
Andreas Heinz, René Rieberer, Thomas Mach
 IEA HPP Annex 32: Task 1: State-of-the-art analysis, Country report Austria, Graz, June 2007
- 
Vasile Minea
 IEA HPP Annex 32: Task 1: State-of-the-art analysis, Canada report, Shawinigan, June 2007
- 
Carsten Wemhoener, Thomas Afjei
 IEA HPP Annex 32: Task 1: State-of-the-art analysis, Country report Switzerland, Muttenz, November 2007
- 
Andreas Bühring, Christian Bichler, Martina Jäschke
 IEA HPP Annex 32: Task 1: State-of-the-art analysis, Country report Germany, Freiburg, Feb. 2007
- 
Katsunori Nagano, Hirofumi Ida
 IEA HPP Annex 32: Task 1: State-of-the-art analysis, Country report Japan, Sapporo, Nov. 2006
- 
Onno Kleefkens
 IEA HPP Annex 32: Task 1: State-of-the-art analysis, Draft country report Netherlands, Utrecht, August 2007
- 
Jorn Stene
 IEA HPP Annex 32: Task 1: State-of-the-art Report Norway, SINTEF Technical Report TR-A6506-07, Trondheim, April 2007
- 
Arun Vohra
 IEA HPP Annex 32: Task 1: State-of-the-art analysis, US team report, Washington, Nov. 2006



Presentations/Workshop papers

Workshop on the 4th IEA HPP Annex 32 working meeting



- 1.1 MB   **Carsten Wemhoener**
IEA HPP Annex 32: Research for heat pumps in low energy houses,
Institute of Energy in Buiding, University of Applied Sciences Switzerland,
IEA HPP Annex 32 Workshop, Kyoto, Dec. 2007
- 1.0 MB   **Takao Sawachi**
Dependency of COP of air-conditioners on actual environmental parameters
in residential buildings, National Institute for Land and Infrastructure
Management (NILIM), Japan, IEA HPP Annex 32 Workshop, Kyoto, Dec.
2007
- 0.4 MB   **V.D.Baxter, Arun Vohra**
Integrated Heat Pump System Technology Development for Near Zero
Energy Home (ZEH) Applications U.S. Department of Energy, USA, IEA HPP
Annex 32 Workshop, Kyoto, Dec. 2007
- 1.1 MB   **Kouhei Hasegawa**
Introduction of residential hot-water heating system with heat pump, and
duct-type air conditioning system for a whole house, Mitsubishi Electric
Corporation, Japan , IEA HPP Annex 32 Workshop, Kyoto, Dec. 2007
- 1.2 MB   **Takao Katsura:**
Performance prediction and feasibility study of heat pump systems for an
actual low energy house
Fujiwara Environmental Science Institute Ltd, Japan, IEA HPP Annex 32
Workshop, Kyoto, Dec. 2007
- 0.7 MB   **Katsunori Nagano:**
Outlines of new actual low energy house and its facilities Hokkaido
University, Japan, IEA HPP Annex 32 Workshop, Kyoto, Dec. 2007
- 0.9 MB   **Jorn Stene:**
CO₂ Heat pump systems for low-energy houses and passive houses,SINTEF
Energy Research, Norway IEA HPP Annex 32 Workshop, Kyoto, Dec. 2007
- 3.4 MB   **Achim Zeller:**
Heat pumps for private residential buildings, Daikin Europe N.V.-Brussels
office, Japan
IEA HPP Annex 32 Workshop, Kyoto, Dec. 2007
- 4.3 MB   **Teruo Yamamoto:**
System Efficiency Analysis of a CO₂ Heat Pump Water Heater by Numerical
Simulation Using Thermal Network Models Matsushita Electric Industrial
Co., Ltd., Japan IEA HPP Annex 32 Workshop, Kyoto, Dec. 2007
- 0.3 MB   **René Rieberer:**
Developments within Building Technology & Heating Systems in Austria,
Institute of thermal engineering, Technical University Graz, Austria
IEA HPP Annex 32 Workshop, Kyoto, Dec. 2007
- 1.6 MB   **Yasukazu Kawaraguchi:**
The current Japanese house and preference
Architech Consulting Co.,Ltd., Japan
IEA HPP Annex 32 Workshop, Kyoto, Dec. 2007

- 0.8 MB   **Sayaka Takeda Kindaichi et al.:**
Annual energy consumption of an actual low energy house in the cold region of Japan, University of Tokyo, Japan
IEA HPP Annex 32 Workshop, Kyoto, Dec. 2007

Workshop: Energy Conservation in buildings and heat pump use, Technical Briefing IEA ECBCS and HP Program





- 3.9 MB   **Carsten Wemhoener**
IEA HPP Annex 32: Economical heating and cooling system for low energy houses, Brussels, Nov. 2007 Task 3 - Field testing of integrated heat pump systems

Workshop HPP ExCo meeting

- 1.4 MB   **Carsten Wemhoener**
IEA HPP Annex 32 - Project introduction and results Task 1, Paris, June 2007

Articles

Article on the IEA HPP Annex 32 in newsletters and journals

- 0.3 MB   **Multifunctional heat pump system for low energy houses**
Article on the Annex 32 and the kick-off meeting in IEA HPC Newsletter volume 24, No.2/2006, p. 14-15
- 3.2 MB   **Entwicklung läuft weiter**
Article on the Annex 32 and the kick-off meeting, HK Gebäudetechnik 08|2006

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 Program (HPP) of the International Energy Agency (IEA).

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

