

Expert system for an Intelligent
Supply of
Thermal Energy in Industry

Newsle**TT**er

Project description

EINSTEIN is an European project which started in September 2007. The EINSTEIN methodology works out energy efficient solutions for production process based on renewable energy sources. This will lead to a significant reduction of the operating costs.

Why EINSTEIN?

The continuous increase of fuel and gas costs leads to higher production costs in all industry sectors. Reducing the energy demand and replacing fossil fuels by renewable energy sources is the best way to strengthen the competitiveness of companies. EINSTEIN will guide companies on that way towards an efficient and sustainable production processes.

What does EINSTEIN offer?

- A new fast audit tool - kit for thermal energy optimisation
- Integral solutions for efficient industrial thermal energy system including renewables
- Heat recovery (and other efficient technologies/solution) by an optimized heat exchanger network
- Audits in companies that are financially supported by the project
- Training courses on the EINSTEIN audit methodology

Main components of EINSTEIN

EINSTEIN AUDIT TOOL

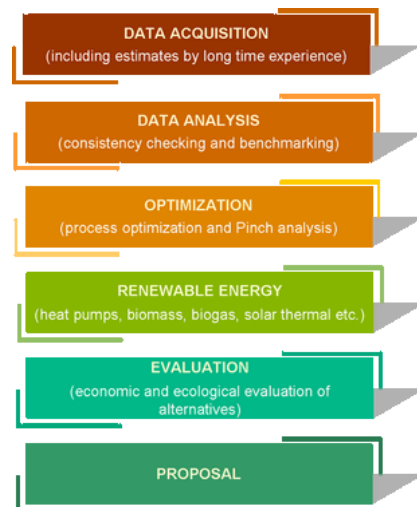
The Expert System is developed in an European Consortium, which has a broad and long experience in the field of efficient thermal energy supply. The experience of hundreds of thermal energy audits and over 20 years of auditing guarantees a high quality assessment: from data acquisition to standardised reports, which will consider also the unique features of company.

The innovative approach allows a quick energy and economical evaluation of advanced energy efficient systems. The approach includes: cogeneration, process integration technology, heat pumps, solar thermal energy, and biomass.

EINSTEIN ENERGY AUDITS IN INDUSTRY

An energy audit campaign will be carried out at 90 industrial companies in 6 partner countries: Austria, Czech Republic, Italy, Poland, Slovenia, Spain. For each selected company, there will be an onsite audit using the EINSTEIN tool-kit.

Please register for the Industry audits on www.iee.einstein.org



EINSTEIN TRAININGS

Training courses on the EINSTEIN tool-kit will be organized in all 6 participating countries: Austria, Czech Republic, Italy, Poland, Slovenia and Spain. Trainers will be the technical partners of EINSTEIN project who are very well experienced in industry auditing.

These training courses are scheduled from **mid September to mid November 2008**. Please register for the training course in the country of your choice on www.iee.einstein.org.

Expert system for an Intelligent
Supply of
Thermal Energy in INdustry

Useful information

EINSTEIN – the Webpage

All tools, brochures, training material relevant to thermal energy in industrial companies and all information about the project are available on the webpage www.iee-einstein.org.

Discussion forum

During the first phase of the project more than 20 auditors from the participating countries answered detailed questions on used audit instruments and tools, strategies and problems. – **The first stakeholder discussion forum report is a basis for the EINSTEIN development and is available** on the Einstein webpage.

If you have any questions or comments to the project or would like to participate in the discussion forum, we invite you to contact your national contact point (see project webpage www.iee-einstein.org).

Dissemination Events

28 January 2008, Workshop in Austria, - Holztechnikum Kuchl

The Austrian Energy Agency AEA organized the 1st workshop in cooperation with the Association of the Austrian Wood Industry. More than 30 persons of the wood industry (SMEs, decision makers) and several school classes participated at the meeting.



15 April 2008, Workshop in Slovenia Maribor

Industrial companies, energy auditors, energy agencies and consultants were invited to the workshop in Maribor. The invitation was also placed on the web site of University of Maribor and Faculty of Chemistry and Chemical Engineering and the Styrian Chamber of Commerce and Industry.



Experts and companies from wood industry, textile industry, glass industry, food industry and energy auditors and consultants have participated.

Project Partners

PROJECT COORDINATOR



JOANNEUM RESEARCH,
Austria
Christoph Brunner
christoph.brunner@joanneum.at

INTERNATIONAL CONSORTIUM OF PARTNERS

Austrian Energy Agency, Austria
Cestec SpA, Italy
University of Roma, Italy
University of Maribor, Slovenia
Enviros s.r.o, Czech Republic
Steng – National Cleaner Production Centre Ltd., Slovenia
KAPE S.A, Poland
EnergyXperts, Spain
Camera Madrid, Spain
Sabadell City Municipality, Spain
Cogen Europe, Belgium