



EUROPEAN COMMISSION
Directorate General Transport and Energy

SAVE II PROJECT – 1998

Contract SA/299/98/DE

TITLE: Development and implementation of concerted regional actions for the realisation of energy saving projects in the building sector

General

The co-ordinator of the project is the City Administration of Rathenow c/o Energy Agency Rathenow, Germany. Partners within the project are:

- Stadtgemeinde **Judenburg**, c/o Energy Agency Judenburg-Knittelfeld-Murau,
- Union of Local Authorities of **Kilkis** c/o Energy Agency of Kilkis
- **MVV Consultants & Engineers** GmbH (former MVV InnoTec)
- and the associated partner City Administration of **Zlotow**

The project period was from **April 1999 to November 2001**.

The European Commission's **SAVE Programme** co-financed the project with **31%** of the total project costs (650.000 EURO).

WORK PROGRAMME AND ACTIONS

The project is structured in four main areas, and consist of 17 which are logically consistent:

Area 1) Rational use of energy in buildings - Development of system solutions for rational use of energy in buildings

Action 1	Identification and preparation of suitable energy saving projects in public buildings suitable for unified solutions
Action 2	Review and documentation of design tools and simulation programmes for energy efficiency in public buildings applicable to different types of building
Action 3	Development of pilot conception for energy management of multi-occupancy buildings (Technology and business centres)
Action 4	Development of pilot conceptions for implementing best practice system solutions in a series of buildings (standardised energy saving technology solutions)
Action 5	Development of a sustainable private-public partnership (energy agency - utilities - clients) to promote the implementation of energy saving technologies
Action 6	Development of more efficient and standardised procurement routines and specifications for rehabilitation or new construction of public buildings, focusing prioritisation of energy efficiency. (example of technology application: individual room temperature, optimisation of lighting, control of air conditioning in sports halls)

Area 2) Demand Side Management and Integrated Resource Planning - Innovative management and financing options for a project complex (pool model)

Action 7	Establishment of a regional energy service team
Action 8	Development of a methodology to administrate, support, manage and finance energy saving projects in a concentrated form such as a group of interlinked projects or a regional energy project fund.
Action 9	Evaluation of possibilities for integrated energy management in industrial zones

Area 3) Education and training

Action 10	Development of a sustainable partnership between the City Administration / Energy Agency and educational institutions (schools, kindergartens, high schools, technical colleges, other regional energy agencies and energy managers, energy consulting companies, etc.) in order to develop energy saving courses
Action 11	Development and implementation of educational tools for teachers (special lectures, practical tests, solar demonstration projects in schools, utilisation of simulation software and databases)

Area 4) Information dissemination

Action 12	Organisation of regional and international workshops on „Energy management models for buildings“
Action 13	Development and organisation of a permanent exhibition „Energy saving technologies in buildings“ at a local business centre or the energy agency
Action 14	Utilisation of the regional information system for the promotion of energy savings (co-ordination of information efforts from different groups, electronic city information terminals, Internet home pages)

PROJECT RESULTS AND REPORTS

The results of the project are documented in the following reports:

- Building catalogue Rathenow
- Building catalogue Judenburg-Knittelfeld
- Identified projects in Kilkis
- Building catalogue Zlotow
- List on literature, simulation and calculation software, case studies and training materials
- Assessment of energy saving measures in technology and Business Centre Rathenow
- Integrated energy management in AiZ Business Centre in Zeltweg /Steiermark/Österreich
- Optimised building management of administration building of local utility - Stadtwerke Judenburg AG
- Case studies on realised energy saving projects from Rathenow, Kilkis and Judenburg
- Algorithm for the realisation of energy saving projects in public building
- Summary and table of Contents of the Reader on the theory and case studies of Private-Public-Partnership
- Guiding steps on planning of new investments and rehabilitation of buildings and lighting systems considering energy saving aspects
- Project description for Energy accounting and energy saving technologies for SMEs in Judenburg / Austria
- "Contracting in the energy sector – Introduction and application" is annexed separately to the report
- Case: Contracting as option for financing energy efficiency measures in indoor swimming pool Rathenow
- Presentation – Contracting- Investment Finance and Planning
- Presentation – Preparation of a feasibility study
- Outline of the development of an Energy Efficiency Fund (EEF revolving fund at municipal level) including project screening process
- Brief evaluation of possibilities for integrated energy management in industrial zone Kilkis
- Analysed Pilot Project on possibilities for integrated energy management
- Pilot project TEACH - Training pupils for Energy Analysis in sCHool buildings, English
- Energy consultant course, folder and training schedule
- TEEM – Training on Environmental Energy Management in buildings
- Demonstration project for Energy efficiency contracting with schools – outline of revolving municipal energy efficiency fund
- Technical administrative report of the project over the entire project period (not for dissemination)

Contacts

The reports can be ordered at the consortium partners.

City Administration of Rathenow, c/o Energy Agency Rathenow Berliner Strasse 15 GERMANY, D-14712 Rathenow +49-3385-596 480 +49-3385-596 120 Norbert.Heise@rathenow.brandenburg.de Mr Norbert Heise Head of the Department for Economy http://www.brandenburg.de/kommunen/rathenow/ep-rojekt/index.htm	MVV Consultants and Engineers GmbH Kurfürstendamm 199 Germany, D-10719 Berlin +49-30-882 32 51, +49-30-885 44 33 r.behnke@consultants.mvv.de Mr Rainer Behnke SAVE/THERMIE project manager http://www.euweb.de/mvv-consultants
UNION OF LOCAL AUTHORITIES OF KILKIS – ENERGY AGENCY OF KILKIS 1 Lekka St. Greece, GR 61 100 Kilkis +30 3410 27415 or +30 3410 29330 +30 3410 23537 deyak@spark.net.gr or tedknk@spark.net.gr Mr. Elias Avramidis Manager of Energy Agency of Kilkis www.kilkis.gr	Stadtgemeinde Judenburg, c/o Energy Agency Judenburg-Knittelfeld-Murau Kaserngasse 22 Austria, A-8750 Judenburg +43-3572-44 670-0 +43-3572-44 670-25 energieagentur@ainet.at Mr Josef Baerenthaler Director of the Energy Agency http://www.stadt-judenburg.at http://www.ainet.at/energieagentur
City Administration of Zlotow Al. Piasta 1 Poland- 77-400 Zlotow +48-67-32 491 +48-67-26 50 025 Mr. Stanislaw Welniak Mayor of Zlotow www.zlotow.pl	

ANNEX: Project Summary