

EAST-GSR

Solar Thermal applications in EASTern Europe with Guaranteed Solar Results



Task 5.1.

"Visits and identification of existing collective installations for pilot sites selection"

POLAND

8 - Katowice

20/12/ 2006

Inventory of collective solar installations	
Country: POLAND	file n° : 8

A. IDENTIFICATION*1. Installation*

- Project name: **Solar hot water system in the building of the Institute of Urban Areas Ecology**
- Project address: **6 Kossutha str. 40-844 Katowice (Upper Silesia Region – South Poland)**
- Locality or town: **Katowice**
- Building type (hotel, hospital, flats, etc...): **building of the Institute of Urban Areas Ecology**
- Year of installation start up: ...**2006**.....
- Latitude: **50 ° 15' 55 North**
- Altitude:..... **272 m**

2. Owner or representative of the owner.

- Name / Function **Jan Skowronek, Director of the Institute**
- Address **6 Kossutha str. 40-844 Katowice**
- phone **48 032 254 60 31**
- fax **48 032 254 17 17**
- e-mail **ietu@ietu.katowice.pl**

B. SITE

- Position of the solar collectors:
 - integrated in to a sloping roof
 - independent on fixed supports, on a sloping roof
roof slope: ° from horizontal;
 - on an horizontal terrace
 - on the ground
 - near the ground, on fixed supports (pergola, ...)
- Orientation of the solar collectors: **30 ° from South**
- Approximate distance between the collector array and the technical premises:

C. CHARACTERISTICS OF THE INSTALLATION

- Collectors manufacturer: **PPUH GERES-ASCO Sp. z o.o.**.....
 type: **G-2**.....
 individual surface: **2 m²** number of collectors: **10**
 total gross area: **20 m²**
- Storage tanks number: ...**2**
 total volume: ...**1 m³**
 type: horizontal / **vertical**
 position: outside / **inside**
- Exchanger **no exchanger:**
 if any, exchanger type: external / inside the tank

D. HOT WATER CONSUMPTIONUse: **1710 m³/year**Temperature **50 °C**

Average monthly consumption in m ³ /day											
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
4,83	5,17	4,83	4,83	4,67	4,33	4,19	4,19	4,33	4,93	5,00	4,83

E. AUXILIARY HOT WATER HEATING*Type of energy (if mixed, indicate the proportion of each):*

Energy used: natural gas propane gas
 fuel electricity
 other :

Principle: storage
 instantaneous

F. OBSERVATIONS

- Apparent state:

The installations parameters were visualised by the programme Solmax4 (up to the end of September 2006), from October 2006 the monitoring is being performed by SOLVER Company.

not working working

- Users opinion: **Installation fulfils project assumptions as well as the expectations of the user**

.....



near view of the collectors