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Overview of Projects

Typical solar thermal energy projects

8m² solar water heating system (PV driven)-2000

4 solar collectors with total capacity of 6 kW at a kindergarten in city of Gyumri for hot water supply for laundry.

4 m² solar water heating system -2000

2 solar collectors with total capacity of 3 kW at one of kindergartens in city of Artik for hot water supply for showers.

64 m² solar water heating system (for space heating and cooling)-2001

The largest in Armenia 48 kW solar water heating system that includes 64 m² (32) solar collector array installed on the AUA's roof, 3 tons insulated tank for hot water heated up to 90 C° during the day and other components of the plant.

60 m² solar water heating system rehabilitation-2002

Solar water heating system with total solar array of 60 m² with 36 kW capacity has been rehabilitated at Arabkir Joint Medical Centre, Yerevan

4 m² solar water heating system (thermosiphon) -2003

2 solar collectors with total capacity of 3 kW at one of private houses in Jrvezh village for hot water supply for shower.

6 m² solar water heating system -2004

3 solar collectors with total capacity of 4.5 kW at one of private houses for domestic hot water supply.

40 m² solar water heating system -2005

20 solar collectors with total capacity of 30 kW at "Hermes-Art" factory for hot water supply for production needs.

16 m² solar water heating system -2005

8 solar collectors with total capacity of 12 kW at one of private houses for hot water supply for radiant floor heating and showers.

2 m² solar water heating system(thermosiphon) -2005

1 solar collector with total capacity of 1.5 kW at one of private houses, in Nubarashen, suburb of Yerevan for domestic hot water supply.

32 m² solar water heating system -2005

16 collectors with total capacity of 24 kW at Wrestling Olympic Sport School for hot water supply for showers.

12 m² solar water heating system -2006

6 solar collectors with total capacity of 9 kW at one of private houses in Nork-Marash for hot water supply for indoor and outdoor swimming pools and showers.

Wind energy projects

Wind Resource Assessment in five regions of Armenia under the Wind Atlas Project , 2003 (NREL, USA)

SolarEn conducted wind data monitoring and data processing, and estimated wind energy potential

Wind resource monitoring

SolarEn installed meteorological stations, conducted wind monitoring, collected and analyzed data in following regions of Armenia

at Pushkin pass, 2004

at Sisian area, 2005

at Zod pass, 2005

Biogas projects

25 m³ digester system, 2003 (AEIA/USAID)

SolarEn has implemented 25m³ digester based bio-gas pilot project at one of the Armenian cattle farms.

50 biogas m³ digester (2004)

SolarEn has implemented 50 m³ digester based bio-gas private project at one of the Armenian dairy farms.

Consultancy projects

Evaluation of Wind and Solar Energy Resources, 2001-2002 (USAID/AEAI)

Development of Draft Energy Saving and Renewable Energy Law of RA, 2003 (USAID/ ASE)

"Information Posters on Renewable Energy for schools in Armenia" Project, 2004 (UNDP/ ASE/ ATP)

Evaluation of biogas, wind and solar energy resources, 2005 (EnergyInvest/World Bank)

Energy Efficiency and Enforcing Energy Security Project, **on-going**, (PA Government Services Inc. /USAID)

On-going projects

10 kW solar PV roof-integrated grid-connected system

First in CIS countries grid-connected PV station will be installed at "Armenian-American Wellness Centre" for power supply (*net metering concept*).

110 kW_e (150 kW_{th}) combined heat and power generation unit and absorption chiller (AEAI/USAID)

Combined heat and power generation unit and absorption chiller will be installed at "Armenian-American Wellness Centre" as energy efficiency project for power and heat supply. The co-generated heat will also be used for cooling by absorption chiller.

Wind resource monitoring

Wind resource monitoring and energy generation potential assessment is being conducted at Karakhach pass, Armenia.