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DAVINCI HOUSE – Use of geothermal energy on example of show house Gebhardshain II

Since the usage of the regenerative power sources play the more important role, DAVINCI HOUSE offer tailor-made solutions to its customers in this area. For example the show house Gebhardshain II is equipped with the geothermal installation in order to demonstrate to the interested constructors this variant of environmental energy supply of DAVINCI House.

Concept

In the Show house Gebhardshain II geothermal energy is used for heating the building.

There are arrays filled with special fluid medium each placed in the bores 70 meters / 233 ft. deep and connected to the thermal pump inside the house. Due to the constant geothermal energy the temperature in the closed medium cycle increases. The thermal pump intakes the heat of the hot medium and transferred it in the processed form to the cycle of floor heating which always has the required temperature independent from any external factors.

The Show house Gebhardshain II has the living area of about 230 m² / 2,476 sqft. tank to the geothermal energy the expenses for heating of such an area comprise approximately 350,- € a year. These are the expenses for electricity only.

Today nearly the quarter of DAVINCI HOUSES built every year, are equipped with the geothermal heating system.

Advantages

- The geothermal heating is environment-friendly and climate sound, i.e. the geothermal energy does not cause harmful emissions or waste.
- Geothermal energy is a regenerative global energy resource which is accessible all the time: in winter or summer, day and night.
- Using the geothermal energy the clients of DAVINCI HOUSE become independent from the energy carriers like oil or gas and can leave the speculations regarding the increase of prices for energy resources for the other.

- The geothermal system is space saving. The heating equipment in the Show house Gebhardshain II occupies 2 m² / 22sqft. You do not need expensive tanks for oil and system of chimney shafts. You also save the money for connection to the gas supply system for example.
- The maintenance costs of the geothermal heating system are extremely low.
- The system practically does not require the technical service.
- The geothermal system may be equipped with the cooling function which cools the rooms in summer.