



**SKORUT**  
SOLAR SYSTEM



## 1. ADVANTAGES TWIN

- Depending on local conditions, whether power grid is available closeby or not, you can produce cheap electrical energy, as well as thermal energy.
- TWIN is one of the best power/area ratio solutions, plus you get electrical power which is not that easy to produce in remote locations.
- The TWIN module is an innovative solution of gaining the energy. It has been created thank to the wide experience of SKORUT Systemy Solarne ® in the field of installations using solar energy. It is the effect of constant observations of modern worldwide trends in the development of PVT technologies.
- It is a unique device due to its specifications. A photovoltaic module with heating collector is highly efficient convertor of solar radiation into direct current electricity and heat.
- Twin collector is a modern device which combines photovoltaic module and high efficiency flat plate collector. Photovoltaic module produces electricity from the sun, meanwhile the flat collector has a double function: it cools the photovoltaic panel increasing its efficiency and supplies hot water. Thermal energy transport works by polypropylene solar fluid. Next to the optimized performance, a big emphasis in the design has been placed foremost on the viability and ease of assembly.
- The solar and photovoltaic panels, using the most advanced technologies produced by SKORUT Systemy Solarne ®, guarantee and allow to reduce costs of heating and using electricity, they also make the receiver independent from other suppliers and the increases in prices of fossil fuels. This environmentally friendly and costless source of energy actively contributes to reduction of the CO<sub>2</sub> emission to the atmosphere and the energy-related safety of the receiver.

George  
SOUTH AFRICA

tel. +27 44 871 0027  
cell +27 79 880 6886

[www.skorutsolarsa.co.za](http://www.skorutsolarsa.co.za)

[info@skorutsolarsa.co.za](mailto:info@skorutsolarsa.co.za)



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The main advantages of Twin Collector are:

- It is a cogeneration device with the possibility of the converters working independently from each other
- High efficiency in producing both heat energy and direct current electricity
- Quick and easy installation
- Each converter can work on its own. It is also possible to stop the process of the energy transportation in every case without any negative influence on the device
- Effective cooperation with heat pumps
- High longevity – reaching 30 years of constant work
- May find use in small installations near houses as well as in huge industrial electric power stations

### 3. WORKING WITH DRILL HOLES

Depending on energy field.

Electrical energy:

- you can provide energy for pump stations to get the water up
- you can power smaller drilling devices

Thermal energy:

- you can heat or preheat the water,
- depending on system setup, you can either heat the water for washing, or even use the boiler/buffer setup to store heat by day and then use it by night in order to keep the building warmer, then the temperature outside drops

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### 3. WHY INVEST IN SKORUT SOLAR

Our system:

- is the highest quality solution, anodized aluminum and tempered glass, resistant to atmospheric conditions,
- Eco-friendly solution! By using such a system you do not introduce any pollution into the atmosphere
- You're independent in terms of energy from local authorities; you don't have to bring any fuel to your house. The maintenance costs are virtually zero.
- Our company – Skorut Systemy Solarne ® for the last 17 years, has been one of the leading Polish flat plate collector producers and a pioneer of environmentally friendly technologies.
- In 2004 the company opened a modern production line of solar panels. Producing high-performance and cost-effective flat solar panels, Skorut Systemy Solarne ® has completed more than 70 000 m<sup>2</sup> of solar thermal systems in total – for both institutional and individual clients.
- We have 17 years of experience in realization of investments in the field of renewable sources of energy, mainly solar energy for both individual and institutional clients.
- Our company is a manufacturer of high performance flat liquid collectors, on the base of which we realized the largest installation in Europe which had 3500 collectors.
- Our motto is quality, professionalism and above all customer satisfaction. This is confirmed by numerous references, which were given by our clients.

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