

PHOTOVOLTAIC ENERGY

LÉNÁRT DÓRA



Co-funded by the
Erasmus+ Programme
of the European Union



GEOLIN

GENERAL ELECTRIC

VISONTA

- With the investment of 6.5 billion Fts the biggest power station ensemble came into existence in Central-Europe.
- The biggest solar power plant of Hungary was built on the spoil of Mátra Power Plant in the institution of Wire Vill Ltd. 72.480 pieces of Kyoto Solar polycrystalline solar cells were installed with piling technology.

ENVIRONMENTAL EFFECTS

- Does not pollute neither the environment, nor the water. It decreases the population's energy costs in the long run. It slows the global warming. Clean and eco-friendly energy can be produced with its usage.
- American examples also confirm, that it implies huge financial savings, thus the investment will be soon paid-off. It has a job creator and infrastructure developer effect on the surrounding settlements.

DISADVANTAGE

- Its optimal operation depends on the weather to a certain extent. Since the panels produce electricity from the Sun, thus other solutions should be found for the dark periods.
- A place is necessary for the optimal operation.





SOLAR SIMPLIFIED

SOLAR RETURN ON INVESTMENT CALCULATOR

- **Average monthly electric utility:** 266 kilowatt-hour
The size of the system: 4,0 (kW)
The cost of the system: 3,48 \$ / W

- **Monthly electricity bill**

<u>Actual</u>	<u>Solar</u>
\$ 26,60	\$ 0,00

- **Costs and savings**
Costs and taxes \$ 8,400.00
The cost of the system \$ 14,000.00
Saving in the first year 319,20 \$
Average saving per year 408,96 \$
Savings for more than 25 years \$ 10,224.07

ASSUMPTIONS

- The installation is costly, but is of value✓
- The usage of environmentally friendly energy✓

THANK YOU FOR YOUR
ATTENTION!