



Winflex.LTD



WINFLEX

The **WINFLEX** wind turbine technology is a reliable and cost effective solution. It dramatically reduces the wind turbine installation costs by 50% at least. The technology can be utilized in a wide spectrum of electrical power output. The technology has been developed by Dr. Vladimir Kliatzkin, a leading scientist with more than 40 years of experience in energy production and accumulation systems for aviation, internal combustion engines and hybrid systems.

WINFLEX is a start up company developing and implementing the technology in order to license the manufacturing and selling of wind turbines .

The **WINFLEX** technology is a new design and cost effective solution for wind turbines. The rotor is made out of light flexible and inexpensive material I.e. flexible composite fabrics sheets. The cost of kW installed may be reduced to a half and thus the ROI to 3-4 years (without government subsidization) instead of the current ROI of 10-7 years



200 kW-Sivan 2



10Kw-sivan 1

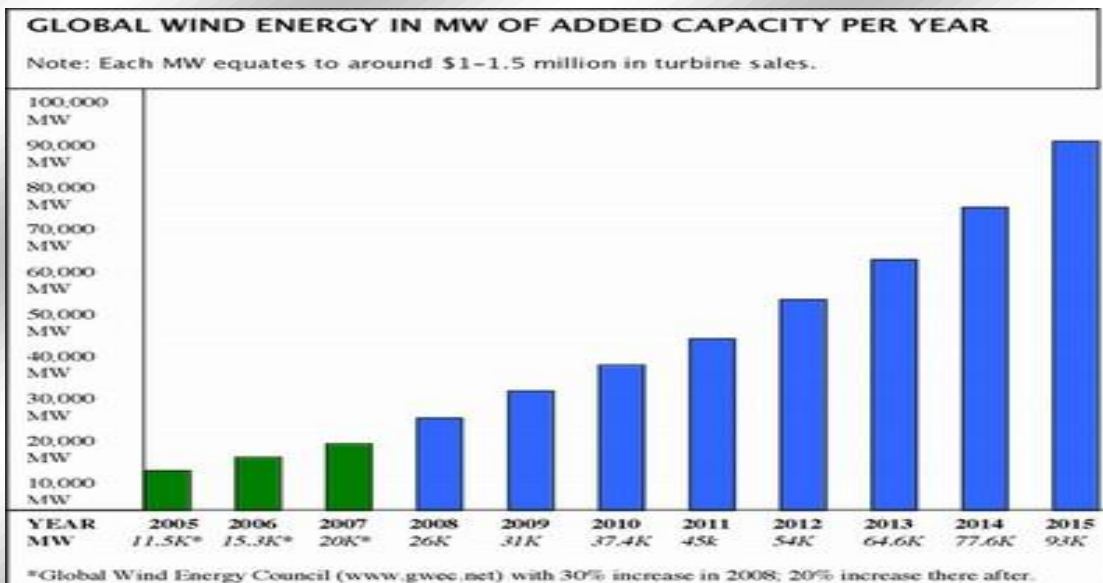


History

During the first stage of the development period, two successful prototypes (10 and 200kW) had been built and tested demonstrating the technical and economical advantages.

The Market

For the last ten years wind turbine sales worldwide have been growing at approximately an annual rate of 29%. Wind power is now the world's fastest growing source of energy. For the next twenty years it is expected to grow rapidly. Until now, conventional, propeller-type "horizontal axis" wind turbines (HAWTs) have been providing the demand.



Technology	\$/kW installed	COE (\$/kWh)	ROI
Photo Voltaic	8000-9000	0.3-0.5	16-17 (8-11)
MW scale wind turbine	1800-2100	0.07-0.13	9-15(7-12)
WINFLEX wind turbine	700-1000	0.03-0.05	3-4(3-2)
Fossil fuel	600-1000	0.05-0.09	10-15

COE – cost of energy ,() - With government subsidies



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WINFLEX Competitive advantages

- Low cost of kW installed.
- Low Cost of Energy.
- High level of safety.
- Adaptable to a wide range of wind Regimes
- usage of standard low cost materials and components

Development plans

Stage 1 (2 years)

Developing, building and testing a prototype of 1 MW rated power.

Stage 2 (3 years)

Building and testing a small wind farm (5 -6 units).

The leading team

Dr. Vladimir Kliatzkin – D.Sc. in Energy Engineering with more than 40 years experience of breakthroughs in difference energy systems.

Ing. Doron Spitz- 25 years of management experience of R&D and production companies and organizations.

Dr. Lev Litvin – D.Sc. in Mechanical Engineering with a vast experience in mechanical & dynamical simulation.

The team includes 13 experienced leading engineers and technicians.