The Inflatable solar station

Eflov Petr
www.suneyesenergy.com

Two Problems

Global Problem: How to provide the World with clean and safe electricity with minimal costs?

Local problems in Russia and all the world:

- there are no mobile sources of energy with average power of 50-500W.

- there are no mobile sources of clean great power energy.

One solution

The mobile lightweight cheap
"Inflatable Solar Power"

Who is our customers

-eco-village developers
-electric supply of cottages
-festival organizers
-providing nomadic people with electricity
-electric energy sources for tourism

SunEyes - effective mobile and cheap, don't change the surrounding space

Potential customers

Our customers: people who want to use clean electric energy and are not ready to deal with serious construction work.

B2B model

-central power lines
-eco-village developers
-festival organizers
-village owners

&

B2C model

-electric energy sources for nomadic peoples
-electric energy sources for tourism

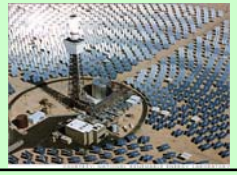
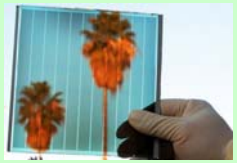
Main competitive advantages

	SunEyes	Other sources of solar energy
Mobility		
Power efficiency	30%	16% - solar battery
Price per Watt	1$ per Watt in Russia	2.5 $ per watt in Russia

Mobile competitive solutions

	Photo	Power	Weight	Installation	Noise	Price
SunEyes		100-500Watt	2-5kg	15 minute	No	200-800$
Solar battery		1-50Watt	0,2-3kg	1minute	No	1-2000$
Generator		1000-3000Watt	50kg	10 minute, needs fuel	Strong	1000-3000$
Micro HPS		1000-5000Watt	30kg	2-3 hour, needs a river	Yes	1000-2500$

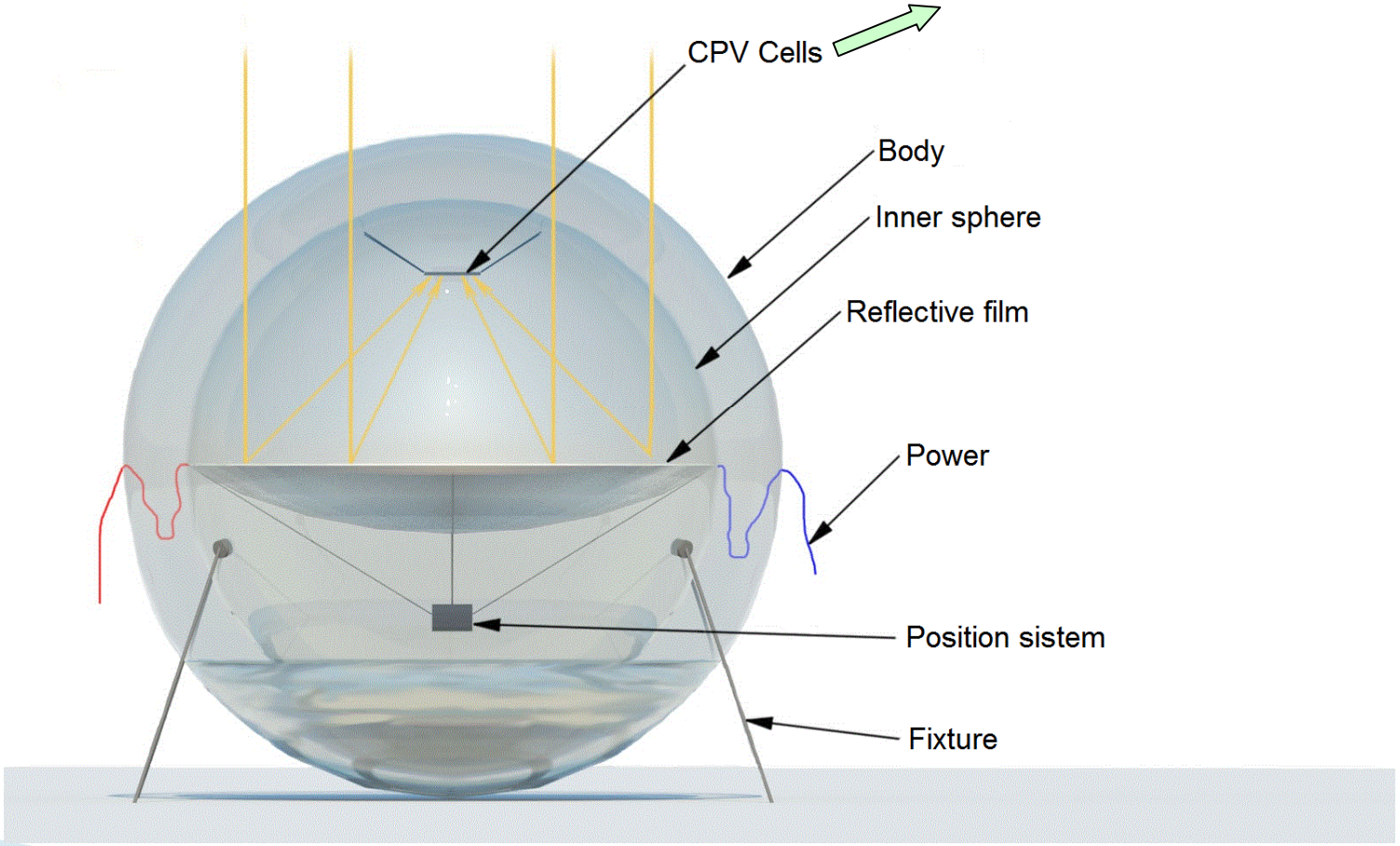
Stationary competitive solutions

	Photo	Construction works	efficiency	Service
SunEyes		No	30%	Every six months: wipe, pump up
Concentrators CPV		Great	30%	Occasionally wipe the mirror
Silicon battery		Need	16%	Occasionally wipe
Thermal-solar		Huge	-	Constantly needs to be washed. Full monitoring
Architectural solar panels		Need	5%	Occasionally wash

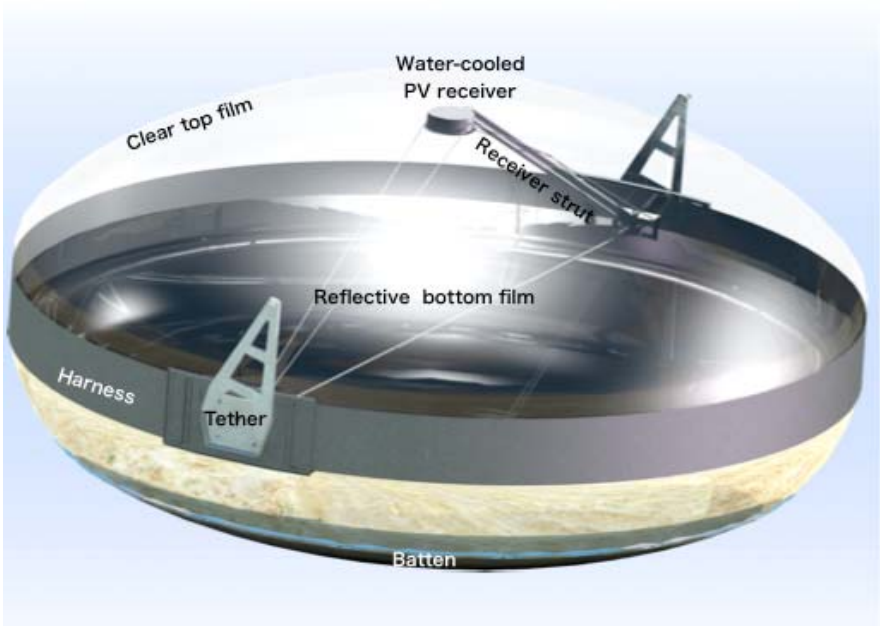
Technology

Patent Pending: invention; Patent Grated: utility model.

http://en.wikipedia.org/wiki/Concentrated_photovoltaics



The competing technologies that use the reflective film



Cool Earth Solar USA

+ attracted $ 21mln of investments

--a dynamic pressure control is needed

--expensive installation

-- not mobile

http://www.coolearthsolar.com/

Airlight Energy Switzerland

Giant stations --

A dynamic pressure control is-- needed

http://www.airlightenergy.com

Innovativeness of our technology

Our innovation is the combining of three cool technical solutions:

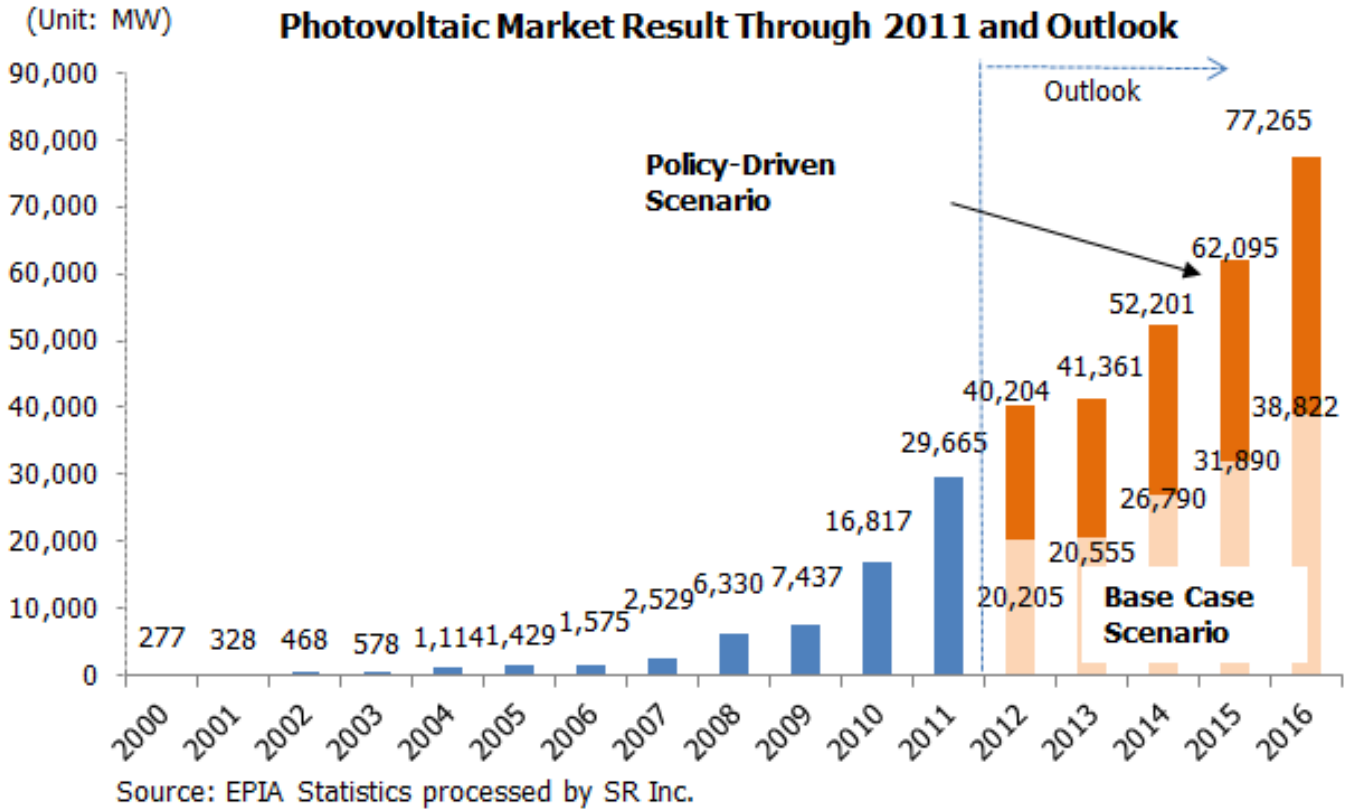
-Using cheap films instead of expensive mirrors.
The reflective film is not inferior to mirrors. At the same time, it has a much lower weight and lower cost.

-Using the fluid for reducing economic and energy costs.
The fluid is an ideal bearing, which automatically singles out the horizon. The fluid dampens any vibrations of the concentrator. It is an excellent heat accumulator, being used for cooling cells CPV.

-Using the concentrated sunlight.
CPV cells are the same solar panels, only smaller. The smaller size - the less the price. By concentrating the sunlight, you can get more energy from the same power. At the same time, the conversion efficiency of sunlight into electricity also increases.

Solar energy market

By the 2015 it is expected the annual installation of solar capacities will double, that will make 62GWatt.
At a price of $ 0.8 per watt it is equivalent to $ 50 billion



Russian market – less than 0.5% of the world

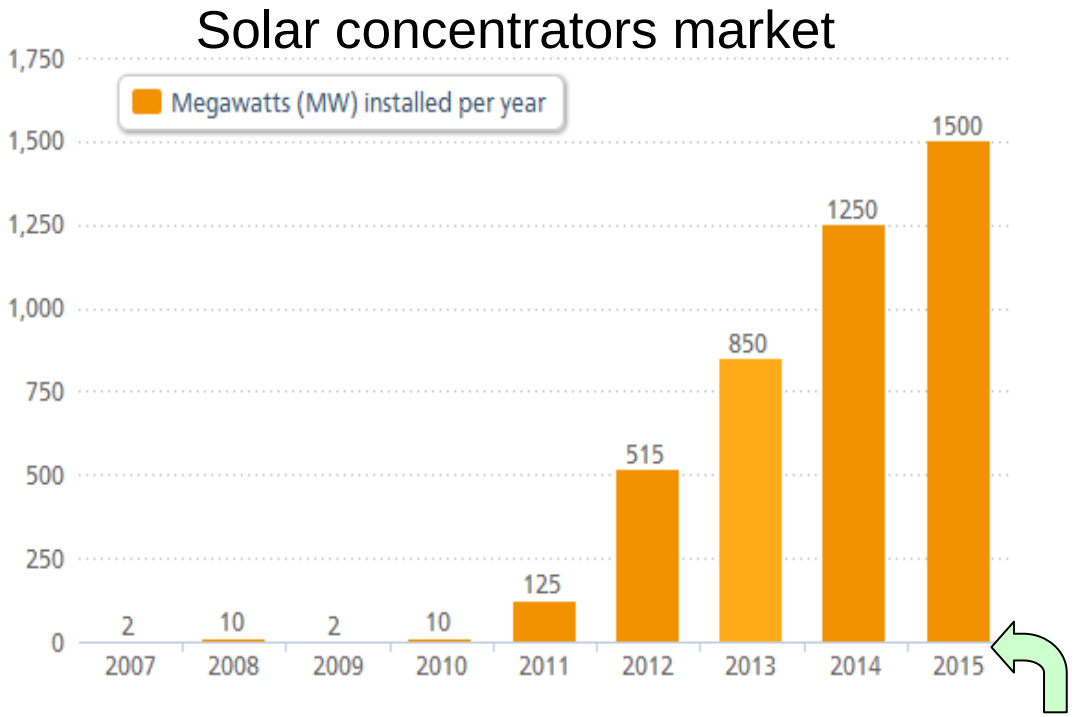
The solar concentrators market grouth

2012 - Market of CPV is rather young and occupies only 5% of the solar energy market.
2015 - Market of CPVs will occupy 10%

2015

Solar energy market - $ 50 billion

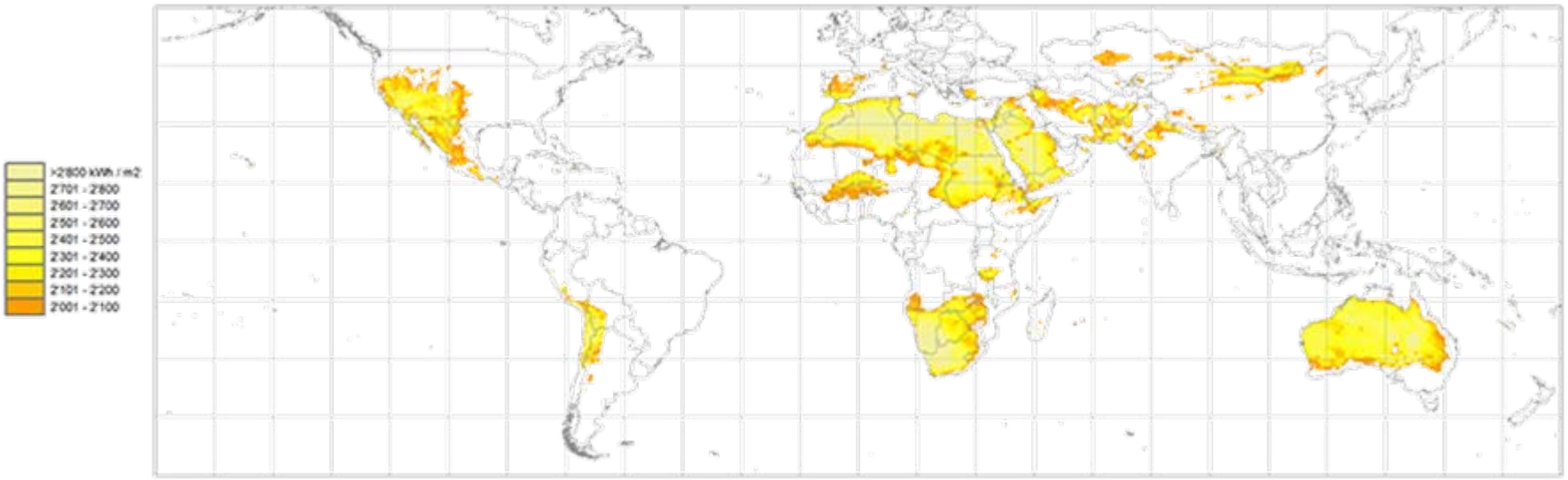
Solar concentrators market - $ 5 billion



http://www.soitec.com/en/markets/renewable-energy/

The regions of interest for CPV

Technologies, using concentrated sunlight, need a directional solar radiation. The map shows the regions where the directional solar radiation exceeds the average scattered sunlight per year. However, the technologies that use concentrated sunlight, have a record power efficiency and collects more energy during the day.



The regions, attractive for installing of large solar power stations, based on solar concentrators are: Kazakhstan, the U.S., Spain, Australia, China, the Middle East, India, Africa.

Team

Eflov Petr

- More than 1,5year in field of the solar energy. MSU, mechanics&matematics faculty

Kondrakhin Denis

Mentor - Successful Hi-Tech investments

Yakubenko Anna

- Professional engineer MSU, mechanics&matematics faculty

Soroko Anastasiya

Regional manager - Businessman since 14year old

SunEyes

Contact us

Eflov Petr
eflov@bk.ru
+7(916)226-30-28
www.suneyesenergy.com