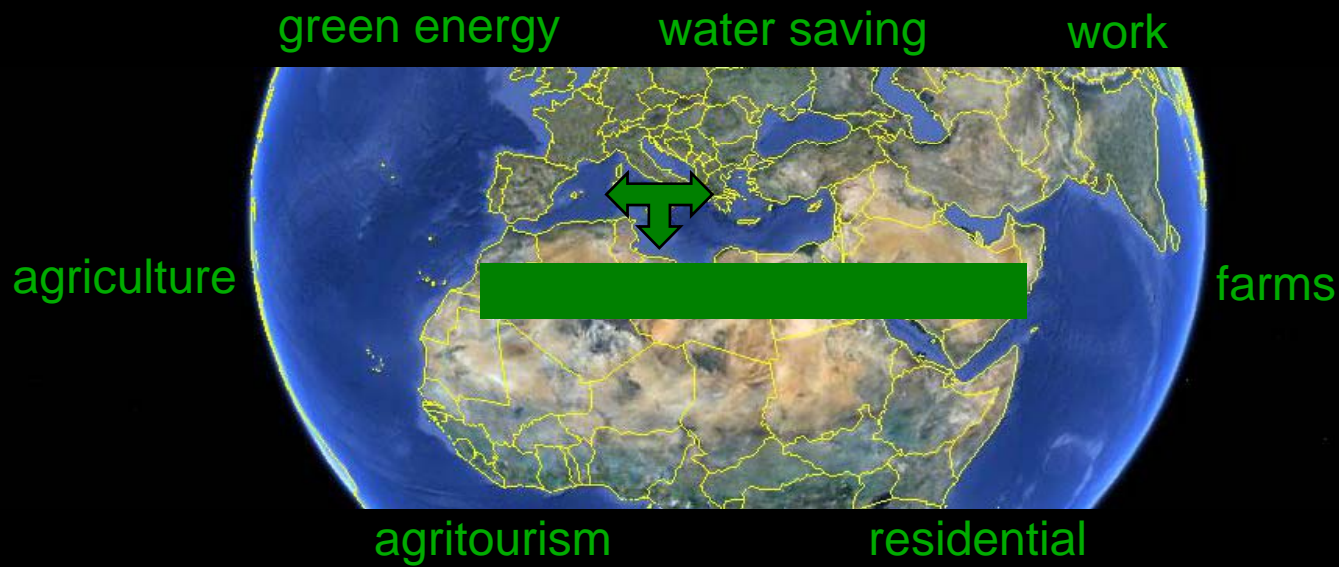
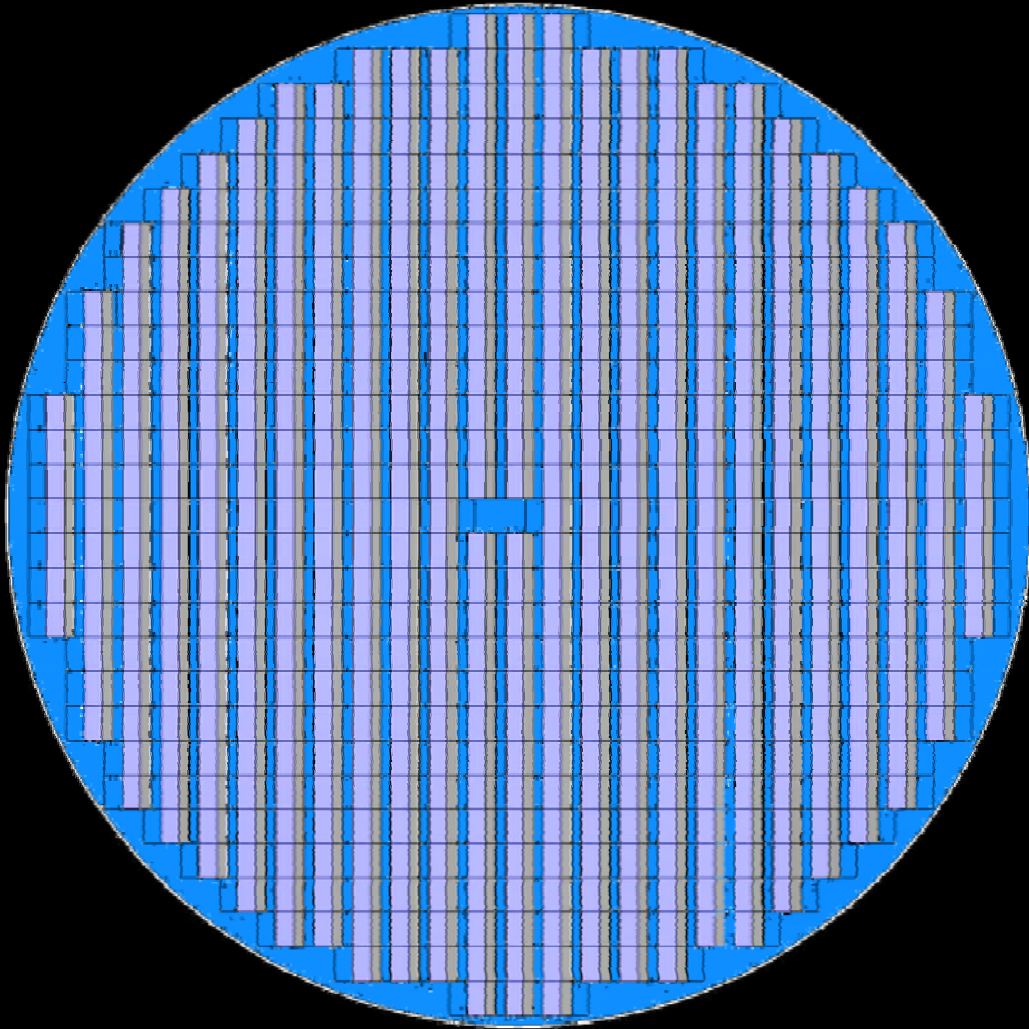


# OASIS

Life – Energy – Water – Food



## A INNOVATIVE TECHNOLOGY USED



## PV-FTCWS

Floating-Tracking-Cooling-Water Saving

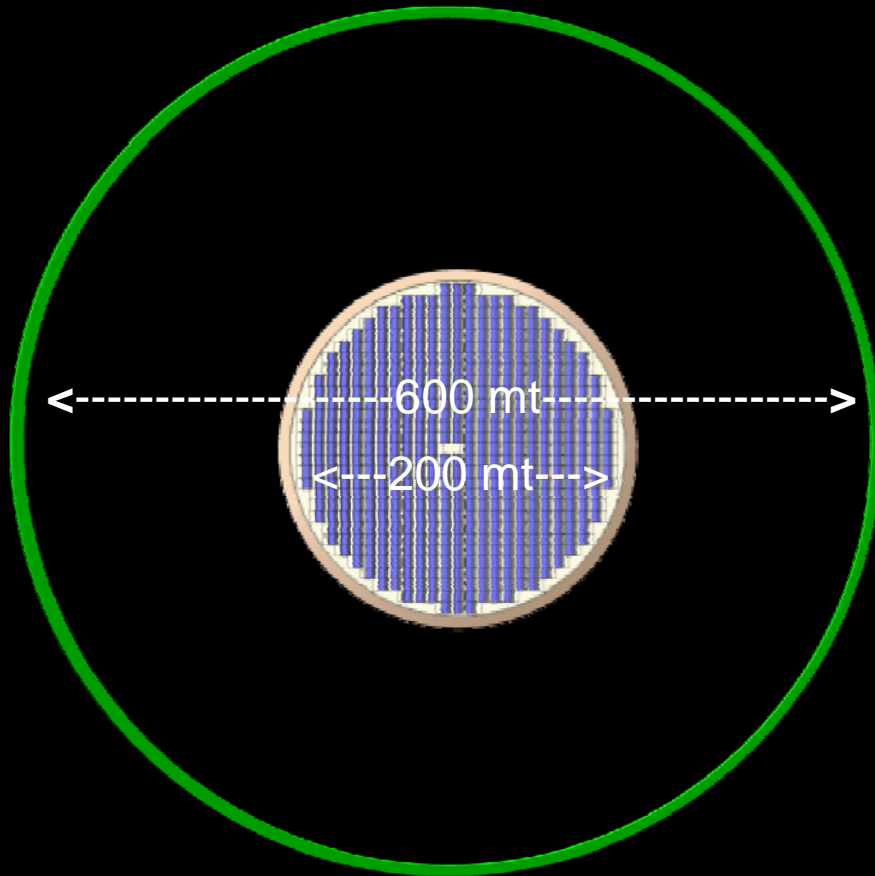
The plant PV-FTCWS consists of modular units with special floats and highly efficient Photovoltaic Panels GEA EUROPE exclusive.

The structures are built and designed to achieve maximum efficiencies and economies of scale, created for the best coverage of the surface (contrast to evaporation), for solar tracking and panels cooling (which improves the efficiency considerably, especially summer allows a return of +20%).

The PV-FTCWS aims to solve two basic problems, energy and water resources, with minimum cost and maximum benefits:

- The energy supply from renewable sources without taking up land for agricultural use and minimal environmental impact;
- Collected water and drastic reduction of evaporation, then the savings of several million m<sup>3</sup> of water.

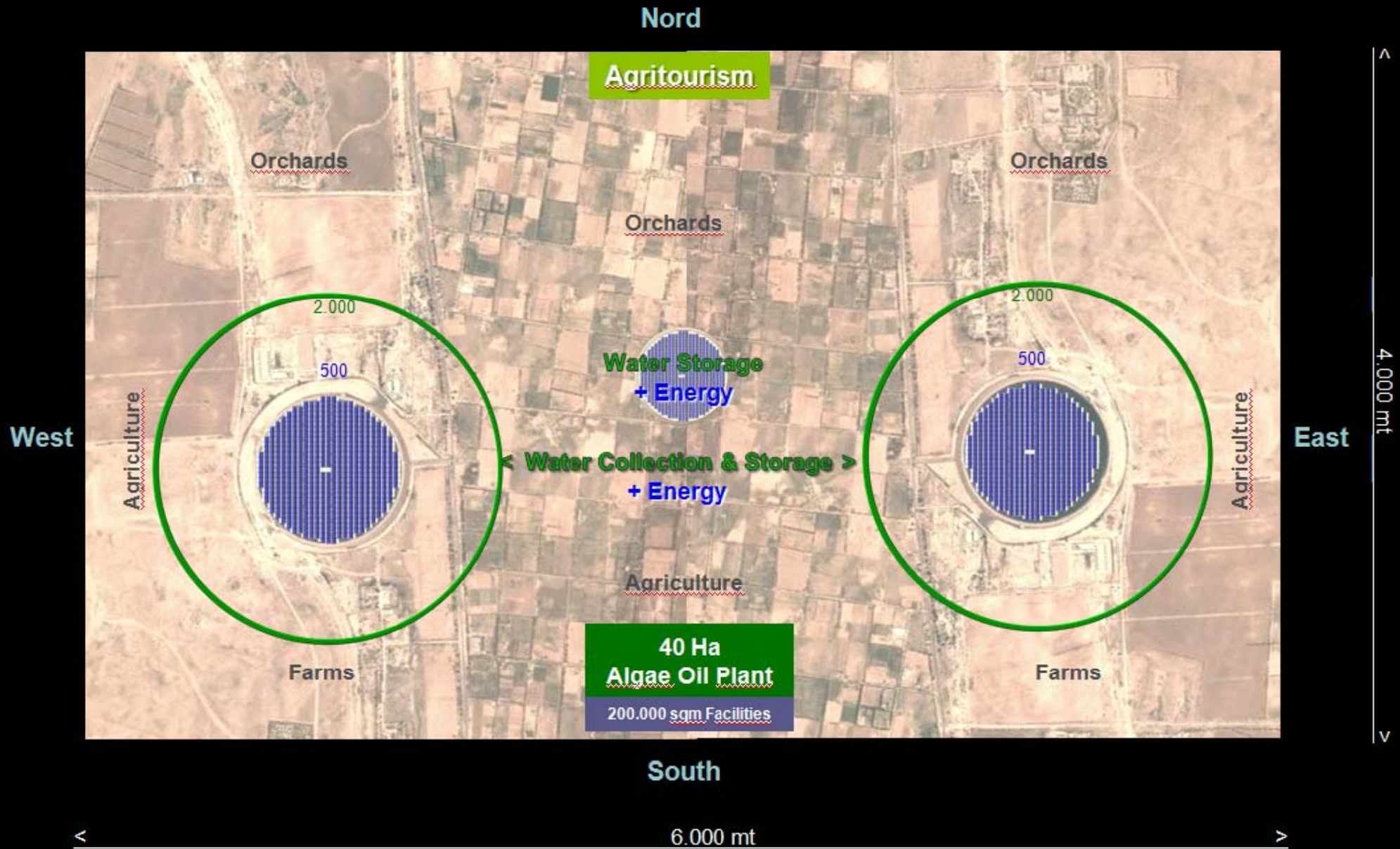
## PILOT PLANT EXAMPLE



<b>Basin</b>	<b>Artificial</b>
<b>PV-FTCWS (H 3) Circumference</b>	<b>200 mt</b>
<b>Water collection circumference</b>	<b>600 mt</b>
<b>Gross area</b>	<b>282.000 sqm</b>
<b>Water recovery</b>	<b>140.000 c.m.</b>
<b>Net electricity generation area</b>	<b>31.500 sqm</b>
<b>Power System</b>	<b>2,45 MWp</b>
<b>Annual Energy production</b>	<b>7 GWh</b>
<b>Water recovery</b>	<b>Rain or starting water</b>
<b>Water savings from evaporation</b>	<b>75.000 m<sup>3</sup></b>
<b>Algae sample plant (750 tons/Y)</b>	<b>0,25 Ha</b>
<b>Cost included</b>	<b>€4,8 million</b>
<b>6 months of test &amp; data</b>	



**EXAMPLE FOR ENERGY - WATER COLLECTION & RECOVERY – STORAGE AT ZERO EMISSION**



## **EXAMPLE FOR ENERGY - WATER COLLECTION & RECOVERY – STORAGE AT ZERO EMISSION**

**3 x PV-FTCWS 500 Plants - Power 47 MWp – Production >140 GWh / year**

2 x 2.000 + 1 x 500m diameter ( 6.470.000 sqm water collection and 3.350.000 cm water recovery)

### **Total energy**

Production >140 GWh/Y (25 Years average) >70% for sell - 30% for internal use

### **Water collection (average 500mm/year) 3,3 million m3**

Of which (0,33 mil./cm for Residential / Agritourism and 3 mil./cm for Farms & Agriculture use)

### **Total area 2.400 Ha**

Of which 1.700 Ha Farms and Agriculture, 670 Ha water collection (Facilities roofs included)

### **Jobs opportunity**

3,000 + 3,000 seasonal

### **Algae Plant 20 Ha**

Production >60.000 tons Oil /year - 40 MWe 22/24/350gg./y (to be used as 80 MW 11/24 not solar hours storage) and/or for energy / oil for sell

# OASIS

Life – Energy – Water – Food

Conception and Project  
by  
Gabriele Puccetti



[www.geaeurope.com](http://www.geaeurope.com) - [info@geaeurope.com](mailto:info@geaeurope.com)

Skype: enzoperilli-gea