

Energy Sector Innovation Financial Network

EIFN

Contract Number 022506

Coordination Action



ENERGY SECTOR INNOVATION – FINANCIAL NETWORK

**Task 2.3” Design methodologies and tools
regarding services procedures ”**

EIFN BUSSINES PLAN – CASE of STUDY

“Solar garden” case of study

Summary

A "solar garden" is a site that brings together small, individually owned PV installations that takes advantage of Spain's renewable energy feed-in rebates. The energy management and performance of the project is optimized because the infrastructure and common services are shared. The electricity produced by each panel is sent to the Spanish grid and is invoiced separately by each owner.

The primary target of the "solar gardens" is the increase of clean energy in the national grid. The investment profitability is guaranteed by the Spanish law (Real decreto 436/2004). Power supply companies are obliged to buy the energy produced by photovoltaic installations. In this way the solar energy is a form of investment that starts to generate profits from the first day with financial and fiscal advantages for the investor.

The business plan

The case study is applied to an engineering company focused on renewable energy projects that offer services on feasibility studies and installation of solar gardens, with target market the Canary Islands.

The business plan has been applied to a solar garden project of 100 kWp with an initial investment of 600.000 € (6.000 €/kWp). Each kWp will produce 1.500 kWh/year. Each kWh that will be sold at 0,45 €/kWh the 1st year and will increase 3% yearly (Spanish RD 436/2004 establish the feed-in tariff). The associated costs are the salaries (30.000 €/year), cleaning and maintenance 1.000 €/year, that will increase 2% yearly.

The case study is based on 10 years, but the life time of the system is around 20 or 25 years.



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