



Institute of Concentration Photovoltaic Systems (ISFOC)

Customer:	Institute of Concentration Photovoltaic Systems (ISFOC)
Location:	Puertollano and Almoguera, Castilla La Mancha, Spain
Size:	500 kW
Technology:	SolFocus Concentrator Photovoltaic (CPV) SF-1000 Systems
Installation Date:	July 2008 Puertollano / September 2008 Almoguera

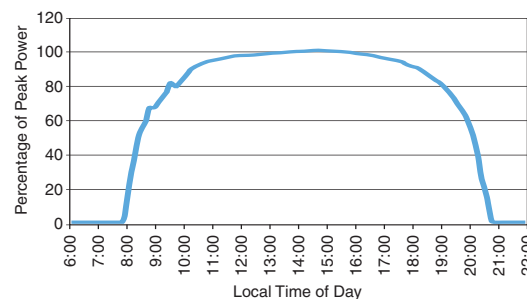
The ISFOC project is a commercial plant using SolFocus SF-1000 systems. It is part of a larger power station of 3 MW, owned and operated by the Spanish ISFOC Public-Private partnership. When complete there will be a total of six different CPV manufacturers represented. SolFocus was the first segment of the power plant to be completed and grid connected.

There are two separate sites involved in this deployment. The Puertollano site is of 200 kW, comprised of 33 arrays.

Almoguera is 300 kW and 54 arrays. At Puertollano, each 6.2 kW system has an inverter, while at Almoguera, multiple systems are attached to a small number of inverters. AC electrical output at both sites is via a central transformer and metering station. Of the two sites, Almoguera proved to be the more challenging site to install as it is located on a hilltop with shading complications that were readily addressed by using SolFocus single-pole CPV tracking systems.

ISFOC has created this power plant project both as a municipal power plant and a proving ground for CPV technology.

The original contract was awarded to SolFocus in late 2006. SolFocus was the first company to have its technology approved, the first company to deploy an array at ISFOC, and the first company to complete its power plant installation.



Site Power Production at ISFOC in Puertollano

This diagram shows the measured energy output during the course of a single day at the Institute of Concentration Photovoltaic Systems (ISFOC). CPV technology generates the maximum energy output over the broadest part of the day as opposed to alternative solar technologies.

