



# HeliosPower

# NER 300

## The project

Technology category: Concentrated solar power

Location: Nicosia District, Cyprus

Max. NER 300 funding: EUR 46.6 million

Final investment decision: December 2016

Entry into operation: December 2018

## State of advancement

All necessary licences have been secured and the project will be ready for construction initiation during the second half of 2017.

## Outlook for coming year

Financing finalization and the initiation of the construction phase.

## Outlook for coming 5 years

The project shall enter into operation by end of 2018.

## Project sponsor

P.F.X.T. THERMOSOLAR RENEWABLES LTD

## Project website

[www.helioscy.com](http://www.helioscy.com)

## Project summary

HeliosPower is a 50.76 MW solar thermal project to be implemented in Cyprus using the Stirling engine technology. The Stirling engine is integrated into a reflective movable dish that tracks the sun's path. The Stirling dish is a solar power system that produces AC electricity using concentrated sunlight as the energy source. All Stirling dishes will be installed in the field and will be interconnected to a single high voltage exit point from where the electricity will be supplied to the national power grid. The Net Electrical Output is calculated to be 114 000 MWh annually.

Each Stirling Dish is equipped with an individual bi-axial drive which tracks the sun throughout the day to concentrate sunlight reflected from the mirrored face of the parabolic dish into the heat drive.

The proposed site is an agricultural land plot, 220 hectares, which is currently used for non-irrigated cereals cultivation. The proposed land is very easily accessible via the existing road network and the high voltage power grid is close by, thus minimizing additional development work.

Environmental impact assessment results indicate that there are no major negative impacts and mitigation actions are proposed to minimize environmental pressures. Local communities have been consulted and they are very supportive with regards to project construction.

[setis.ec.europa.eu/ner300](http://setis.ec.europa.eu/ner300)