

## SONNENKRAFT designs, supplies and installs a solar water heating solution for Barking hospital

SONNENKRAFT was specified to install a Solar thermal solution for Barking Hospital in 2009, this installation was taken place in 2010 with the solar design, supply and installation.

SONNENKRAFT has worked hand in hand with its partners ISO Energy to integrate an Evacuated Tube solution for the Hospital to benefit from solar water heating.



35m<sup>2</sup> of SONNENKRAFT VK25 Evacuated Tube Collectors were installed, they were laid at 35 degrees optimising available roof space and generating greater yields due to the parabolic reflectors and 360° absorbers.

### The Installation

Our partners ISO Energy certified installers of Renewable energy worked in conjunction with SONNENKRAFT to design and integrate this system for the kiers contractors.

The SONNENKRAFT Collectors were mounted on 35° on the pitched roof fixed flat to the roof on a mounting system to the correct orientation to acheive the mximumsolar gain from the solar water heating panels.

### Performance

A Simulation of the SONNENKRAFT System indicates it will be capable of generating a very high MWh per annum. As gas is the primary heating fuel being displaced.

### Technical Datasheet

Type of Renewable Energy: Solar Thermal	SONNENKRAFT VK25 , 14 tube Evacuated tube collector, 2.57 m <sup>2</sup> ,
Total Gross Surface Area:	35 m <sup>2</sup>
Number of collectors:	14 SONNENKRAFT Evacuated tube collectors
Orientation:	South
Angle of inclination:	35 degrees

