



CONFORTFV. DEVELOPMENT OF DEVICES FOR DIRECT COUPLING OF PHOTOVOLTAIC SOLAR ENERGY IN EFFICIENT AIR CONDITIONING EQUIPMENT AND PRODUCTION OF DHW IN THE TERTIARY AND DOMESTIC SECTOR



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CONFORTFV

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Summary

The project CONFORTFV aims to provide a technological solution for the generation of heat pump equipments directly powered by photovoltaic, PV, generation systems to generate air conditioning, AC, and domestic hot water, DHW.

The solution proposed in CONFORTFV will respond in an innovative way to the technical and technological needs to achieve sustainability and energy independence in the residential and tertiary sectors, based on the diversification of applications for PV technology.

The systems to be developed, integrate PV technologies and new generation of heat pumps by using renewable sources with lower energy consumption as well as promoting the use of natural refrigerants that reduce the impact environmental.

The consortium of the project is created by companies specialized in each area: KEYTER design and manufacturing of refrigeration and air conditioning equipment and IRRADIA ENERGIA consulting, engineering, installation and promotion of energy renewable projects.

The University of Córdoba will collaborate with the company KEYTER to design, develop and test the renewable heat pumps prototypes within the project. Also, it will be responsible to develop an Adaptative Thermal Comfort Model to be implemented in the control system of the equipments.