

Email communication with Ignacio Messana, Program Director, FSU International Program in Spain:

This project in particular was special to us because it gave us the opportunity to tailor the classrooms and apartments to our ideal specifications. We wanted to find a building that had both livable character, as well as historical significance. Once we were able to find a building that possessed both of those qualities, we were ready to start creating our ideal study center. When renovating this building, we always kept in mind the comments and ideas of more than 3,500 students that had lived in, and experienced FSU Valencia. This was our time to take all of the ideas generated over the last seven years, and create a building that was strongly influenced by all of these students. From the thoughts of the past, and our ideas of the future, we were able to provide the students with a building that has the best of both worlds. We also kept in mind the future, and the sustainability needed to help maintain it. Through the solar panels powering two thirds of hot water used, and LED lights installed throughout the building, FSU Valencia strives to be as environmentally aware as possible. They are able to feel like a true Valencian by living in an apartment that has all the amenities, but still feel like an FSU student with the style and security of the facility. With this building we were able to create the ultimate home for current and future Seminoles abroad.

**Ignacio Messana**

Program Director

Florida State University

International Program in Spain

Blanquerías, 2 - 46003 Valencia

(0034) 963 559 360

**FLORIDA STATE UNIVERSITY**  
**INTERNATIONAL PROGRAMS**  
**VALENCIA "GOLD" STUDY CENTER**

**REPORT ABOUT RESTORATION, ARCHAEOLOGICAL AND HISTORICAL REMAINS AND SUSTAINABLE "GARNET AND GOLD GO GREEN" DECISIONS.**

**1.- RESTORATION WORKS**

Florida State University opened its new Valencia study center named "Gold" last Summer in the street called Serranos in Valencia, Spain. It was officially inaugurated in September 2014.

As with the FSU building at Blanqueras street "FSU Valencia Garnet study center", all archaeological and historical remains found in the Serranos building intervention were documented, protected, and preserved.

**2.- ARCHAEOLOGICAL & HISTORICAL FINDINGS**

The building that stands today at Serranos 18 also includes several original elements of the nineteenth century: the façade, the entrance door, the wooden beams, the balconies, the brick walls and the stairway. Making it a perfect example of how the city looked like two centuries ago.

The building was originally a palace that dates from the Middle Ages, the period of maxim splendor in the city of Valencia. The most spectacular feature from this period is a large stone Gothic arch at the ground level. The arch was part of a noble house arranged around an open-air courtyard. Remains of a stone well and fragments of arches have also been preserved. At the back end of the ground level a magnificent floor of river pebbles has been excavated and carefully preserved. At the lobby of the building there is a beautiful wooden ceiling and main doors from over a hundred years ago, as well as other arches and floors that date from 3 and 4 centuries ago that have been restored.

The original red brick walls that date from around 1850 have also been kept in the ground floor, classrooms and even in the apartments of the students.

**3.- ENERGY SAVING**

The restoration projects explored the possibility of saving energy in two areas:

- Interior and exterior lighting installations
- Production of hot water with solar energy.

Find below a list of items and photos of the various equipment chosen and already in use in the study center.

### **3.1.- SOLAR ENERGY PRODUCED HOT WATER**

Complete system for hot water production by solar energy. Forced flow solar systems to produce hot water with storage tank. They provide a clean, quick and efficient supply of hot water. They are designed to be fitted in the building and have a control system that uses the various configurations of the electronic controller built into the storage tank in order to optimize the use of the solar energy. Our initial reports are documenting that the solar panels are giving the energy for heating more than 60 % of the hot water needed in the Gold Studding Center

It consists of a Stainless Steel tank with double-wall heat exchange system incorporating a full solar hydraulic unit with its pump, electronic control and atmospheric expansion tank with water seal, and "Drain-Back" safety system that protects the heat-transfer fluid from the risk of overheating or freezing. Energy Saving is another of the factors to which special attention has been paid in the design of this product. Its thermal insulation, thanks to the way in which it is applied and its insulating capacity, minimizes heat loss from the tank. This translates into "real cost savings" on each gallon of water used and amply fulfils all applicable standards and regulations currently in force. Its environmental compatibility is guaranteed as the insulating material is completely CFC and HCFC free.

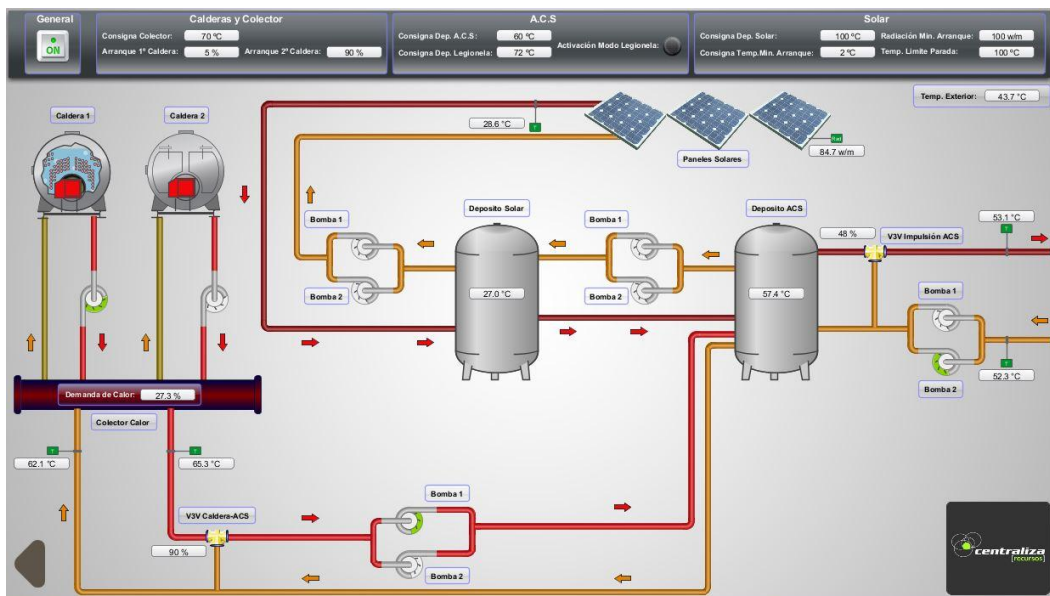
### **CAPTURING SOLAR THERMAL SYSTEM**

Roof Solar panels.



# HOT WATER TANKS AND PUMPS

Accumulation & storage



### 3.2.- ENERGY EFFICIENT LIGHTING FACILITIES

#### Luminaires with LED technology

Led balcony: 8 units

Lighting luminaire Zumtobel facade PAN







**Led reception: Units 2**

Luminaria Komet 5 w to suspend





Led ceiling classrooms 1, 2 and 3 units 23



**Led floor classrooms: 2 units**

LED Downlight Orbit



**Led archaeological floors: 4 units**

Projection lamp with LED light source



**Surface luminaires 20-30 units**

OD-3652 LED DOWNLIGHT QS3 16

Led square present in the faculty room, Hall, distributor hall classrooms, mezzanine, stairs and apartments.

