

SOLAR PANELS ON COVER OF TOWN HALL

Solar panels on the cover of the new Town Hall of Sant Vicent del Raspeig



AYUNTAMIENTO DE
SAN VICENTE DEL RASPEIG

Castellano | Valencià



Portada El Ayuntamiento El municipio Servicios

News

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The Town Hall will generate 30 kw/hour with 132 solar panels in the new town hall and the Haygón mansion

The Town Hall of San Vicente del Raspeig has launched two photovoltaic parks in the covers of the new town hall and in the workshops of the Haygon mansion that will generate around 30 kW per hour. These facilities will cover in the case of the consistorial building between 6 and 20 percent of the energy needed, while in the training centre all their needs will be fully covered.



Luisa Pastor (mayor of the town), has stressed that it consists of two installations of solar panels located on the roofs of both buildings that will allow to reduce the consumption of energy from the mains supply and thereby to reduce the bill. Pastor reminded that it's a complementary measure to those already applied by the City Council regarding the reduction of street lighting and the operation of the ornamental fountains beyond the hours of maximum concurrency .

Antonio Carbonell, Councillor for urbanism, has asserted that both facilities have been developed by students from the workshop "Direct I Employment" through the Department of Local development and the Servef, which led to the recruitment of unemployed people aged over 25, and which has been currently completed with the hiring of two operators and the municipal technicians.

Both photovoltaic plants have been connected to the power supply of the building through an automatic system that allows to discriminate from the solar panels and the mains, so that the priority is given to the first and is complemented, when necessary, with the second.

The two photovoltaic parks have the same characteristics. Both are composed of a set of 66 solar panels - 132 in total - 220 watts peak each, which provide in total with 14, 52 kilowatt at the time of maximum production.

The consumption of the Town Hall is situated between the 220 kilowatt first hour in the morning due to the connection of air conditioning and computer systems, to be reduced at about ten o'clock around some 85 kilowatt per hour. With these parameters, the power input from the photovoltaic Park will be between 6 and 20 percent, depending on the time and the ongoing demand.

In terms of the Haygón mansion the production of energy from the solar panels will serve the entire electricity demand both from the main building, where the training classrooms are located and the attached workshops. The total investment in the installation supplies rises up to around 125 000 euros.

The councilwoman of employment and Local development, Carmen Victoria Escolano, pointed out that one of the objectives of the municipal buildings is to achieve energy efficiency and, for this, the City Council has used the training resources of the Servef through "Direct I employment" program, by means of which the recruitment and training of 14 unemployed people as well as teachers was carried out in order to develop these two photovoltaic plants that will reduce municipal electricity bills in the coming decades.

THE PROBLEM:

The installation of solar plants of the Town Hall of San Vicente del Raspeig can reduce amount of CO₂ emissions. According to data, each solar plant has 66 solar panels of 220 W each

- 1º) What energy could be produce each solar plant along a year?
Daily solar radiation in our region is about 5 hours
- 2º) What amount of CO₂ can save both solar plants along a year? Saving in CO₂ emissions in the energy mix in Spain is 270 g per kWh produced.