

Title: Lisbon square solar design

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Solar XXI building is a low energy office building where passive and active solar strategies have been applied to reduce the use of energy for heating, cooling and lighting, combining also an ...

This renovated apartment in Lisbon counteracts an outdated 19th-century floor plan with simple, but clever interventions.

Solar XXI building is a low energy office building with 1500 m<sup>2</sup> of gross floor area located in Lisbon, Portugal (38 46"N, 9 11"W).

This building in Lisbon, Portugal called Solar XXI is a 1500 square meter office and laboratory building that functions as a near zero energy building. It uses natural ventilation and daylighting to reduce ...

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Built in 2006 as part of a research project, its main objective is to be an example of a low energy office building using a combination of passive design techniques with renewable energy technologies.

The Solar XXI building is the new office building with laboratories of the INETI organisation. It demonstrates: energy consumption for Comfort and Day-lighting; Integration of renewables (solar ...

Performative FOR ALL BUILDINGS Amorphous Silicon (a-Si) PV panels can be installed on the first and second floors if annual solar radiation is above 1000 kWh/m<sup>2</sup>/year.

Solar XXI is an example of a low energy building using passive systems both for heating and cooling (ground cooling) towards a Net Zero-Energy Building (NZEB) (Aelenei and Gongalves, 2014).

nergy per-formance 1/10 regarding a standard Portuguese office building. From the NZEB goal perspective,



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the build-ing, which design is based on a combination of passive design techniques with ...

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