

ABSTRACT

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Title : Energy Extraction Analysis Using PVSYST at ASTON Inn Hotel Tasikmalaya

The purpose of this study is to analyze the extraction of solar energy from solar panels with the concept of Rooftop and also with the concept of BIPV. The problem of this study is to make a comparison between the concept of PLTS Rooftop or with the concept of PLTS BIPV which can be applied at Aston Inn Hotel Tasikmalaya. . The method carried out in this study is to use PVSYST Software and also do calculations manually. The results obtained in this study are based on simulations on PVSYST Software, PLTS Rootop can generate 264 Mwh for one year, and PLTS BIPV east can generate 43.7 Mwh for one year, whereas BIPV output energy at west generate 110 Mwh Meanwhile, based on calculations for the Rooftop Solar Concept can generate 263.803,338 Mwh for one year and the BIPV east Solar Concept Based on calculations is 87.263,21 Mwh Where as BIPV West generate energy 219.727,665 Mwh. The output of this study is the Study of Energy Extraction in the Aston Inn Tasikmalaya hotel building.

Keywords: Energy Potential, PLTS, PVSYST.