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PERFORMANCE STUDY OF SOLAR DRYER FOR AGRICULTURAL AND MARINE PRODUCTS

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Abstract

In the current work design and mathematical description of thermal performance analysis of solar dryer for agricultural and marine products is presented. Proposed solar dryer includes two main subunits: 1) Solar PV-Thermal dehydrator (heat transfer fluid is air), which is used as heat source for dryer; 2) Drying cabin with multistage trays. The pilot unit of proposed system developed in Renewable Energy Department of Physics Faculty of University of Santiago de Compostela. Investigations on determination of thermal performance and technical parameters of Solar Dryer under natural conditions are going on.

Key words: algae, biofuel, solar dryer

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