MİLKİNG SYSTEMS POWERED BY PHOTOVOLTAİC SOLAR CELLS: A FEASİBİLİTY STUDY

Emrah Onursal

Suleyman Demirel University, Isparta, Turkey emrah.onursal@gmail.com

A.Kamil Bayhan

Suleyman Demirel University, Isparta, Turkey

Serkan Boyar Suleyman Demirel University, Isparta, Turkey

Gökhan Gülşen

Suleyman Demirel University, Isparta, Turkey

ABSTRACT

This study includes using photovoltaic solar panels as a power source for milking systems. Milking system consist of 1x4 units. The data of energy requirements of a such systems were collected through milking system legal testing procedure thorough ISO test standarts.

Second step of the study involves using solar panels to run the milking system. For this purpose; technical and economical characteristics of a solar electric energy system was calculted in terms of following design units: solar panel size, battery, panel inclination angle, solar tracking unit.