Solar energy efficiency recording system

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With the help of our project, we will be able to find out how high the efficiency coefficient of a specific solar panel system will be. The main motivation behind this project is to help any client, company or just an enthusiast to find out how efficient the installation of a solar panel system will be in their area, also by linking this data together it will be possible to create a kind of map that reflects the efficiency of the sun in certain regions where our project will already be used. Our project includes making a desk model, a system that will be visually understandable, compact and universal, if desired, it will be possible to increase the scale of the system to meet the requirements of a specific situation. Our system consists of software and electronic parts where the electronic part provides the energy supply of this system and the software part records the data we need. The energy is taken from the solar panel which will be stored in the batteries and the battery will feed the software which will record the efficiency data of the solar panel through the Arduino.