

Design and realization of a wattrouter

Jiří Cvrček

Faculty of Information Technology, Czech Technical University in Prague
Thákurova 9, 160 00 Praha 6

`cvrcejir@fit.cvut.cz`

Keywords. device, embedded system, automatization, optimalization, electrical energy, photovoltaics.

Abstract

This bachelor thesis is about solving the problem of using the produced energy by a photovoltaic power plant instead of distributing to electric power transmission. The aim of the thesis is to design a device that will control the consumption of energy produced by photovoltaic power plant. This device monitors a building energy consumption and measurement a produced energy. The device compares values of measurement with the set rules. The appliance switches on if the production exceeds the consumption and the set of rules are met.

Acknowledgment

I thank to my bachelor thesis supervisor Stanislav Jeřábek for everything related to the supervising. I thank to Martin Novotný for his advices.