

ABSTRACT

Hydroponic is plant that is planted without soil. According to its name which is taken from foreign language, hydros and phonos mean plants planted using water. The obstacle to grow hydroponic is that it requires continuous electricity to pump water so that the plant keeps flowed by water containing nutrients. To save money buying electricity from PLN, the authors conducted a study of making a hybrid power supply system using solar panels.

The load that can be supplied by the hybrid solar panel system is the load that uses 5 DC voltage, 12 DC voltage, and 220 AC voltage. Using this system can reduce the use of PLN electricity by 375 Wh in a day.

Keywords: Hydroponic, Solar Panels, hybrid

