

ABSTRACT

In today's technological developments, there are already aquariums equipped with auto feeder technology that can perform automatic feeding of fish in the aquarium. Of course it also requires electricity, by using a Solar Power Plant the use of electricity costs can be reduced, but this still requires human intervention, by relying on the current advancements in Internet Of Things technology, useful tools can be created to control resources from The Solar Power Plant. In order to make resource turnover more accurate, this is combined with weather predictions using the linear regression method. There are three parameters that can determine weather conditions, namely humidity, temperature and air pressure. Assisted with tools to detect the intensity of light that serves to determine the resources that should be used. With today's technology, we have a 61.16% accuracy rate for weather forecasts

Key words: *Weather Forecast, Smart Aquarium, Linear Regression, Technology*