

## **ABSTRACT**

### **LONG TERM PREDICTION THE NEEDS OF ELECTRICITY CONSUMPTION IN LAMPUNG PROVINCE UNTIL 2030**

**By**

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The Increasing of property development in Lampung Province, especially in the housing sector both simple and luxurious brings a logical consequence of electricity demand. A comprehensive study for electricity provisioning in Lampung become requirement constrain. Electrical load forecasting is one of the important factors is power system planning and making. Prediction of electricity consumption there are for activity that need to be predicted i.e.: households, businesses, public services, and industry. 6 variables include are considered gross regional domestic product, population, number of households, electrification ratio, load factor, losses are considered to be influencing the forecasting proses. Linear regression method was used to predict all variables. The result of total electricity power connected prediction on 2028 is 2841.78 MVA (growth average at of 2, 38%). And electricity consumption prediction on 2023 is 5934.98 Gwh (growth average at 3, 83%).

**Keyword:** linier regression, electricity consumption, Lampung Province.