

ABSTRACT

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*Title : **Projection of Electrical Energy Demand and Supply in Pangandaran District Using LEAP Software***

The increasing need for electrical energy is not only influenced by the number of residents in an area but also the economic activity of the population which continues to increase to meet their daily needs.

The research is to determine the supply and demand for electrical energy from 2019 to 2028 in Pangandaran Regency. Electrical energy projection using LEAP software (Long-range Energy Alternatives Planning) as the projection process refers to the DKL Model 3.2, which is the model used by PLN to project electricity demand. The projected data are data on the number of customers, and the need for electrical energy in Pangandaran Regency in 2018.

From the results of the research that has been carried out, it can be concluded that the electrical energy demand of Pangandaran Regency from 2019-2028 is 29,148,146 kWh with an average growth of 9.24%, while the number of electricity customers for 2019-2028 reached 504,098 units customers with an average growth of 15.36%.

Keywords : *LEAP, Projection, Customers, Consumption, DKL 3.2.*