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**STUDY ON LOAD BALANCING OF INTERMITTENT ENERGY BIG DATA CLOUD PLATFORM**

**ABSTRACT:**

With the development of construction on smart grid and the reasonable utilization of intermittent energy source, data processing on traditional platform can not already satisfy the intermittent energy sources. It must be a great challenge for the whole platform. According to the superiority of cloud platform on processing data as well as the load balancing of the overall cluster on the cloud platform, this paper proposes a strategy that the cloud platform is integrated with the intermittent energy sources data and the load balancing of multi-factor predictive cloud platform. Firstly, deploying the overall process of the intermittent energy data processing on a new data processing platform, and then running the multi-factor predictive cloud platform load balancing on the processing platform. Finally, simulations and experiments prove that the data processing platform proposed provides better performance and will promote the construction of smart grids.