ABSTRACT

The directorate information system Telkom university is a unit that manages and apply information technology and communication at the Telkom university to support the establishment of Telkom university be college classy the world. Data Center are essential components to ensure the sustainability of information technology. Now the directorate information system Telkom University have Data Center spread into three room.

Based on the strategic plans of fore third data center is to be combined into a single data center located in a building space IF1.01.07 resin, so that the power used can be minimized as the use of the coolant which all rooms have at least 4 air conditioner for keep the room temperature so that a device work in an optimum manner. It takes design green data centet to merge data center third the resulting for reduce power on the data center. In the design green data center is using method PPDIOO network life-cycle approach on three the initial phase which is prepare, plan and design. The use of a method of PPDIOO life-cycle approach fit with the development of data center in the directorate of information sistem Telkom university because having a phase that is shaped cycle and the existence of the stage optimize to the development of the long term the data center.

The purpose of this research is to produce power management design green data center the directorate of information system Telkom university that is in according with standard TIA-942. The final result in the form of enzymatic to be used after he did virtualization to reduce power usage.

KeyWords : *Data Center, Green Data Center, Server, PPDIOO Life-Cycle Approach*, *Standard TIA-942*