

ABSTRACT

Telkom University Information Systems Directorate is a unit that manages and applying information and communication technology (ICT) at the University of Telkom to support the achievement of the University of Telkom into world-class universities. Data Center is an important component in ensuring the sustainability of information technology. Currently Telkom University Information Systems Directorate has data centers scattered into three chambers.

Based on the strategic plan for the next three data centers will be merged into a single data center, located in Building Damar IF1.01.07 space, hence the importance of the design of the Green Data Center for the incorporation of the three data centers, which resulted berkurangnya power usage in the data center. In the design of the Green Data Center is using PPDIIO Network Life-Cycle Approach to the three initial stages are Prepare, Plan, Design. Use of the method PPDIIO Life-Cycle Approach is suitable for developing Data Center University Information Systems Directorate Telkom because it has shaped cycle phase and the Optimize phase for long-term development of the Data Center.

The purpose of this study was to produce a draft Green Data Center Power Management Information Systems Directorate Telkom University in accordance with the TIA-942 standard. The final result is the design of cooling system proposed to Data Center Directorate Information System Telkom University.

Key word : Data Center, Green Data Center, Cooling Management, PPDIIO Life-Cycle Approach, Standard TIA-942