

ABSTRACT

In the modern era the issue of global warming is a major concern in the world of research. Many researches is directed at reducing the impact of global warming. From these facts it can be concluded that IT become one of the problems in the maintenance of environmental sustainability. With the movement Save Our Earth with the efforts of Green Earth, it makes one form of consciousness that all people care about the environment. By applying the Green Earth on the company, especially in Data Center, the Data Center can create an environmentally friendly

Pusat Informasi Ilmiah – Lembaga Ilmu Pengetahuan Indonesia (PDII-LIPI) Jakarta is part of Lembaga Ilmu Pengetahuan Indonesia (LIPI) is engaged in the documentation of scientific information and provide services journals and scientific information. PDII-LIPI use Data Center located in building PDII-LIPI 6th floor room Data Center and TI. In Design Data Center of PDII-LIPI use TIA-942 heat dissipation best practices and methods PPDIIO Network Life-Cycle Approach on the first three stages, namely Prepare, Plan, and Design. Use of the method PPDIIO Network Life-Cycle Approach is suitable for developing Data Center of PDII-LIPI because it has advantages possessed phase cycle form, so it can accommodate continuous development.

The purpose of this study will to produce a design Data Center of PDII-LIPI and achieve appropriate standards in tier 2 levels with reference to TIA-942. the problems in the cooling system of Data Center PDII-LIPI and temperature standards that have not enough the standards proposed cooling system and temperature with the TIA-942 standard heat dissipation. The final result of plan of a new location with a support room, Cooling Systems, Design Raised Floor, and the room layout.

Key Word : Server, Data Center, TIA-942 heat dissipation, PPDIIO Network Life-Cycle Approach