

in each case, in spite this results in an increase of energy for the electric motors of fans.

It is noted as in the case of the winter months, for the scenario concerning the city of Milan, is possible to cancel totally the demand of cooling energy of the refrigerator group.

Therefore it is found as the greater the latitude and as greater is the energy savings achievable due to the lower levels of the outdoor air temperature.

The reduction of the energy demand for the air conditioning, leads in a reduction of the PUE, and then an overall energy efficiency improvement of the CED and air pollution [13, 22].

Particular attention should be paid to air filtration because the high volumes of air introduced into the environment, could result in a damage of the deposits of dust on the electronic equipment. In the case of existing data centers, exist the essential requirement of continuity of the same operating system.

Sometimes could result, that the realization of the installation works of the free-cooling system, can create some problems regarding the continuity and the operation of the system. This issue, in phase of technical feasibility, should be evaluated.

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