

## ABSTRACT

### *Study of Energy Conservation in Lighting System of Perpustakaan Umum Daerah Jakarta*

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*Based on Governor Regulation no. 38 of 2012, DKI Jakarta government has determined that buildings in the area must implement the green building concept to reduce the impact on the environment and one of the buildings that is included in these regulations is Perpustakaan Umum Daerah Jakarta. One application of green buildings that can be implemented is energy conservation. Energy conservation itself can be done by implementing efficient energy use in buildings, such as the application of energy efficiency for lighting which is the main system used in buildings with library functions whose main activity is reading so that the activities inside can still be carried out. Therefore, this research was carried out using quantitative methods using standards issued by SNI 6197:2011 concerning energy conservation. This research was carried out by measuring the light intensity and energy density released by making direct observations for several days based on these standards. The results then show that adjustments and improvements to the artificial lighting system are still needed so that all library floors can meet standards in order to provide optimal comfort and functionality for users. The results of the calculation of the energy used itself have shown that the library has succeeded in implementing effective energy conservation measures and supporting sustainability and energy efficiency efforts in building operations.*

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