

Contribution of Smart Technologies to the Performance of Green Buildings in Social and Technical Aspects

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With the advancement in technology today, the implementation of smart city concept continues to enlarge in several fields such as; security, mobility, education, administration and environment.

In this paper, the effect of smart technologies to the performance of green buildings (in university campus) is assessed in terms of savings in global warming category based on created scenario. Possible savings related to smart technologies in energy saving and water consumption was calculated based on formed scenario on a LEED Gold Certificated green dormitory building. For the social impact, a questionnaire based survey was applied to the university students and the effect of smart technologies on sustainability behavior is analysed by assessing the data in SPSS Programme. The results of technical and social contribution of smart technologies is presented.