

Pengaruh aspek energy efficiency and conservation terhadap biaya konstruksi green building dibandingkan dengan conventional building

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Abstrak

**ASBTRAK
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Maraknya isu global warming menarik perhatian kalangan umum. Meningkatnya CO₂ penyebab gas rumah kaca menjadi pemicu efisiensi energi pada green building. Penelitian ini meninjau proyek bangunan green tersertifikasi oleh Green Building Council Indonesia (GBCI) berlandaskan greenship v.1.0 dengan target rating GOLD. Hipotesa konstruksi green bulding akan menambah biaya jika dibandingkan dengan conventional. Metode yang digunakan adalah survey dan studi kasus proyek Jasa Marga oleh PT.PP Persero (Tbk) terhadap penerapan aspek Energy Efficiency and Conservation. Pada aspek ini faktor dominan perubahan biaya konstruksi terdapat pada measurement energy dengan desain penurunan nilai OTTV. Total perubahan kenaikan biaya berdasarkan studi kasus adalah 3.24%.

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**ABSTRACT
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The rise of the global warming issue attracted the attention of the public. Increased CO₂ causes a greenhouse gas trigger energy efficiency in green building. The research was reviewing a green building project to be certified by the Green Building Council of Indonesia (GBCI) which is summarized in version 1.0 with targeted GOLD rating. Its hipotized that green construction needs additional cost than conventional. The method used in this study is survey and case studies on projects Jasa Marga by PT.PP Corporation (Corporation) on the implementation aspects of the Energy Efficiency and Conservation. This dominant factor changed the construction costs is the energy measurement with decrease the value of OTTV. By the case study cost, its changes about 3.24%.