

# Model risiko investasi sistem rainwater harvesting dan water recycling pada bangunan gedung perkantoran berbasis green building untuk meningkatkan kelayakan investasi = Investment risk model of rainwater harvesting and water recycling systems in office building based on green building to increase investment properness / Amila Zulfa Ruknia

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## Abstrak

Intensitas curah hujan yang cukup tinggi di Indonesia yang tidak dimanfaatkan dengan optimal mempengaruhi keseimbangan neraca air, serta grey water yang tidak diolah kembali akan mempengaruhi kualitas badan air dan berdampak pada menurunnya kualitas lingkungan. Konsep pembangunan seperti green building yang menerapkan rainwater harvesting dan water recycling merupakan salah satu usaha untuk menjaga kelestarian air. Dalam penerapan sistem tersebut, terdapat risiko yang akan mempengaruhi kinerja investasinya. Pengumpulan dan pengolahan data dilakukan dengan metode survey, analisa statistik, dan monte carlo. Adapun variabel yang mempengaruhi kinerja investasinya adalah kesalahan seleksi material dan seleksi vendor, serta kesulitan prediksi produksi air olahan hujan sesuai dengan musim.

.....The high intensity of rainfall in Indonesia which is not utilized optimally affect the balance of water and grey water which is not recycled also affect the quality of water bodies which has an impact to decrease environmental quality. The development concept such as green building which is implementing rainwater harvesting and water recycling is one of the efforts to preserve water. In the application of the system, there are risks that will affect the performance of the investment. Data was collected and processed through survey, statistical analysis, and monte carlo. The variables which affect the performance of the investment are a mistake of material selection and vendor selection, and the difficulty to forecast treated rain water according to the seasons.