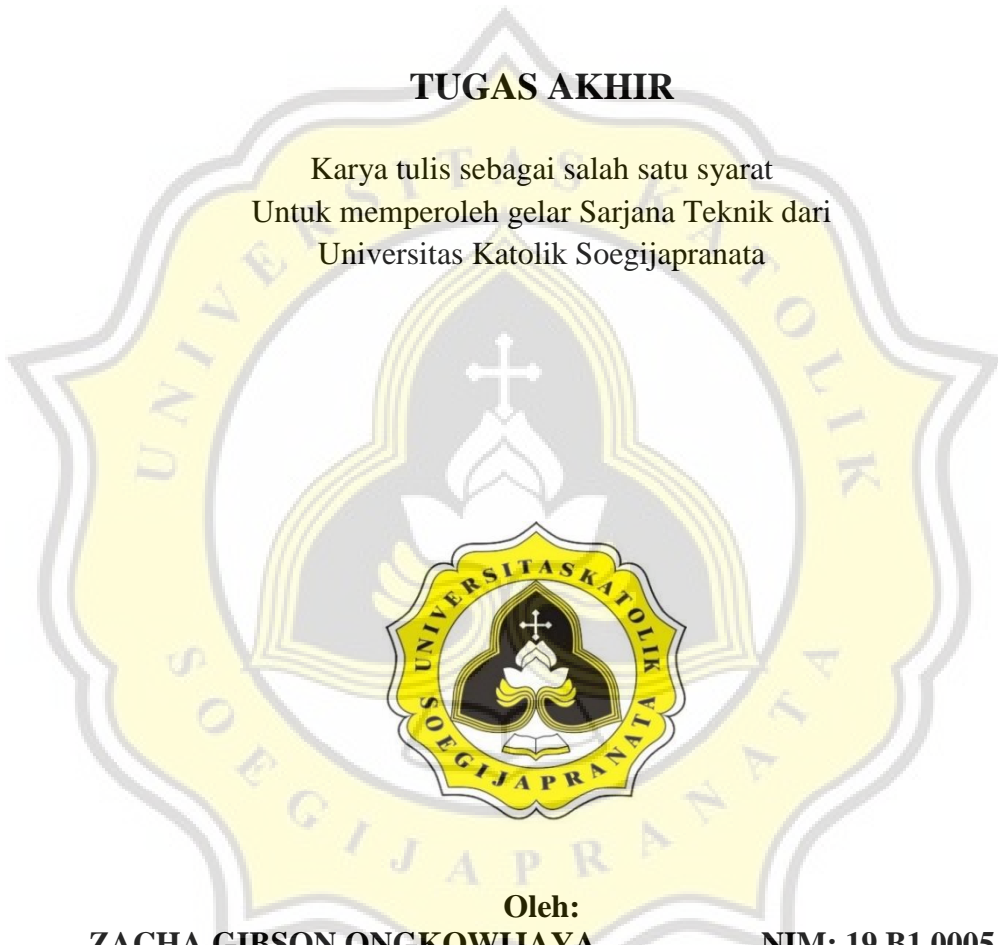


**IMPLEMENTASI *FINAL ASSESSMENT* BANGUNAN HIJAU
BERDASARKAN *RATING TOOLS GREEN BUILDING*
COUNCIL INDONESIA
(Studi Kasus: Gedung *Innovative Program Cluster*)**

TUGAS AKHIR

Karya tulis sebagai salah satu syarat
Untuk memperoleh gelar Sarjana Teknik dari
Universitas Katolik Soegijapranata



Oleh:

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ABSTRAK

IMPLEMENTASI *FINAL ASSESSMENT* BANGUNAN HIJAU BERDASARKAN *RATING TOOLS GREEN BUILDING* *COUNCIL INDONESIA* (Studi Kasus: Gedung *Innovative Program Cluster*)

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Negara Indonesia merupakan salah satu negara dengan jumlah penduduk terbanyak di dunia karena terus terjadinya peningkatan pertumbuhan tingkat penduduk beberapa tahun terakhir. Peningkatan pertumbuhan penduduk menyebabkan meningkatnya permintaan akan kebutuhan sektor konstruksi. Peningkatan kegiatan konstruksi mengakibatkan berkurangnya lahan hijau dan bertambahnya kerusakan pada lingkungan. Konsep *green building* merupakan salah satu langkah pembangunan berkelanjutan yang dapat dilaksanakan untuk meminimalisir dampak lingkungan. *Green building* di Indonesia sudah mulai diterapkan, namun jumlah bangunan dengan sertifikat *green building* belum mencapai angka yang signifikan. Untuk mendukung implementasi konsep *green building* di Indonesia, khususnya Kota Semarang, gedung *Innovative Program Cluster* (IPC) Unika Soegijapranata melakukan pendaftaran sertifikasi *green building* dengan *Green Building Rating System* (GBRS) yakni *GreenShip*. *GreenShip* untuk *new building* dengan versi 1.2 terbagi menjadi enam kategori dengan perlu penggunaan metode *self assessment* pada masing – masing kategori untuk mendapatkan perolehan poin. Berdasarkan penelitian yang dilaksanakan, poin yang diperoleh dari kategori *Appropriate Site Development* (ASD) yakni 6 poin, kategori *Energy Efficiency and Conservation* (EEC) yakni 14 poin, kategori *Water Conservation* (WAC) yakni 8 poin, kategori *Material Resources and Cycle* (MRC) yakni 8 poin, kategori *Indoor Health and Comfort* (IHC) yakni 2 poin, dan kategori *Building Environment Management* (BEM) yakni 1 poin. Nilai tersebut cukup jauh dari poin maksimum yang dapat diperoleh di dalam penilaian *GreenShip*. Meskipun demikian, perolehan poin masing – masing kategori dalam *GreenShip new building* versi 1.2 berhasil mendapatkan 39 poin sehingga gedung IPC Unika Soegijapranata dapat mencapai peringkat *bronze*.

Kata kunci: *green building*, *Innovative Program Cluster* (IPC), *GreenShip*, poin

ABSTRACT

IMPLEMENTATION OF GREEN BUILDING FINAL ASSESSMENT BASED ON GREEN BUILDING COUNCIL INDONESIA'S RATING TOOLS (Case Study: Innovative Program Cluster Building)

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Indonesia is one of the countries with the largest population in the world because of the continuously increase in population growth in the recent years. The increase in population growth causes an increase in demand for the needs of the construction sector. Increased construction activities result in reduced green space and environmental damage. The concept of green building is a form of a sustainable development that can be implemented to minimize environmental impact. Green building in Indonesia has started to be implemented but currently the number of buildings with green building certificates has not achieved a significant number. To support the implementation of the green building concept in Indonesia, especially in the City of Semarang, the Innovative Program Cluster (IPC) building is registering for a green building certification with the Green Building Rating System (GBRS), namely Greenship. Greenship for new buildings version 1.2 is divided into six categories with the need to use the self-assessment method in each category to get points. Based on the research on this report, the amount of points that have been obtained in Appropriate Site Development (ASD) category is 6 points, Energy Efficiency and Conservation (EEC) category is 14 points, Water Conservation (WAC) category is 8 points, Material Resources and Cycle (MRC) category is 8 points, Indoor Health and Comfort (IHC) category is 2 points, dan Building Environment Management (BEM) category is 1 point. The total points from each categories are quite far from the maximum points that can be obtained in Greenship. Nevertheless, the points obtained in each categories from Greenship new building version 1.2 with the total of 39 points able to get IPC Unika Soegijapranata building a bronze rank.

Keywords: green building, Innovative Program Cluster (IPC), Greenship, points