

## Sustainable architecture: pendekatan adaptive reuse dalam pemanfaatan kembali shipping container bekas sebagai bangunan = Sustainable architecture: adaptive reuse approach in reusing of unused shipping container as building

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### Abstrak

Naskah ini membahas mengenai pemanfaatan kembali unit shipping container bekas sebagai bangunan dengan pendekatan arsitektur adaptive reuse. Adaptive reuse merupakan strategi desain yang menekankan isu sustainability sebagai upaya untuk memperoleh arsitektur berbasis lingkungan. Adaptive reuse unit shipping container bekas sebagai bangunan bertujuan memanfaatkan sumber daya limbah, juga mengelola shipping container guna mencapai efektifitas bangunan melalui metode pasif desain. Penelusuran gagasan sustainability pada bangunan shipping container berdasarkan aspek sustainable architecture, yang mencakup: site, komunitas, kesehatan, material, energi, dan air. Secara spesifik, aspek sustainabilitas pada adaptive reuse unit shipping container bekas sebagai bangunan difokuskan menjadi tiga ide pokok: site, material dan energi. Ketiga ide ini menjadi aspek utama dalam kajian studi kasus bangunan shipping container, naskah ini juga akan membahas secara kualitatif mengenai metode desain pasif yang diterapkan guna menunjang performa shipping container sebagai bangunan.

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This text discusses the reuse of shipping container as building in architectural approach through adaptive reuse. Adaptive reuse is a design strategy which emphasize sustainability issue as effort to acquire an architecture with environment awareness. Adaptive reuse of shipping container as a building have a purpose to reusing wasteful resources, and managing shipping container in order to achieve building effectiveness through passive design method. Investigation idea of sustainability at shipping container buildings by virtue of sustainable architecture aspects, including site, community, health, material, energy, and water. Specifically, sustainability aspects in adaptive reuse of shipping container as a building which has been focused on three main ideas site, material and energy. This main idea will be a fundamental aspect in the case study of shipping container buildings, this text will qualitatively discuss by using passive design method which has been applied to support a building performance of reusing shipping container.