

Achieving Harmony: The Intersection of Architectural and Sustainable Design

Hamed Amir Hossein*

Department of Electrical and Electronic Engineering, Brac University, Bangladesh

Abstract

Architectural design is a multifaceted discipline encompassing the conceptualization, planning, and realization of built environments that harmonize with their surroundings while fulfilling functional requirements. In recent decades, there has been a paradigm shift towards sustainable architectural design, driven by escalating environmental concerns and the imperative to mitigate the adverse impacts of urbanization on ecosystems and human well-being. Sustainable design integrates tog

Keywords: Architectural design; Sustainable design; Green building; Environmental sustainability; Passive design; Bioclimatic design; Building Information Modeling (BIM); Parametric design; Adaptive reuse; Urban regeneration; Circular economy.

Introduction

The intersection of architectural and sustainable design is a multifaceted discipline encompassing the conceptualization, planning, and realization of built environments that harmonize with their surroundings while fulfilling functional requirements. In recent decades, there has been a paradigm shift towards sustainable architectural design, driven by escalating environmental concerns and the imperative to mitigate the adverse impacts of urbanization on ecosystems and human well-being. Sustainable design integrates tog

Sustainable design is a multifaceted discipline encompassing the conceptualization, planning, and realization of built environments that harmonize with their surroundings while fulfilling functional requirements. In recent decades, there has been a paradigm shift towards sustainable architectural design, driven by escalating environmental concerns and the imperative to mitigate the adverse impacts of urbanization on ecosystems and human well-being. Sustainable design integrates tog

Architectural design is a multifaceted discipline encompassing the conceptualization, planning, and realization of built environments that harmonize with their surroundings while fulfilling functional requirements. In recent decades, there has been a paradigm shift towards sustainable architectural design, driven by escalating environmental concerns and the imperative to mitigate the adverse impacts of urbanization on ecosystems and human well-being. Sustainable design integrates tog

***Corresponding author:** Hamed Amir Hossein, Department of Electrical and Electronic Engineering, Brac University, Bangladesh, E-mail: hamedhossein_a@gmail.com

Received: 01-May-2024, Manuscript No: jaet-24-135912, **Editor assigned:** 03-May-2024, PreQC No: jaet-24-135912 (PQ), **Reviewed:** 17-May-2024, QC No: jaet-24-135912, **Revised:** 24-May-2024, Manuscript No: jaet-24-135912 (R), **Published:** 29-May-2024, DOI: 10.4172/2168-9717.1000390

Citation: Hossein HA (2024) Achieving Harmony: The Intersection of Architectural and Sustainable Design. J Archit Eng Tech 13: 390.

Copyright: © 2024 Hossein HA. This is an open-access article distributed under the terms of the Creative Commons Attribution License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited.

... feaibe b.a. ec ... ica, iabe.

Concl io

... e i.eg ai f achi ec. a de ig a d ... ai abi i h d
i e e. e. i e f. he f. e. f. he b. i. e. i. e. e. B
e b. aci g. i. ci. e. f. bi. hi. c. de ig, e. e. g. e. ci. e. c, a. o. ia
... ai abi i, a. d. ci. a. e. i, a. chi. ec. ca. o. ea. e. a. ce. ha
i. i. e. e. e. e. a. d. e. d. e. A. e. e. a. d. f. he. b. i. e. i. e. e. e.,
a. chi. ec. ha. e. a. f. d. e. e. i. bi. i. . de ig. / i. h. f. e. i. g. h,
e. a. h, a. di. g. e. i. I. he. / d. f. a. chi. ec. F. a. L. d. W. i. g. h,
"E. o. g. ea. a. chi. ec. i. - e. ce. a. i. - a. g. ea. e. He. ... be. a. g. ea.
o. i. i. a. d. a. i. d. e. b. a. i. a. i, he. i. e. ha. c. e. f. a. chi. ec. . o. i. e.
. he. cha. e. ge. be. e. f. o. g. e. a. d. g. a. d. i. a. f. ... ai abi i
i. e. a. e. a. e. I. he. e. a. f. a. chi. ec. a. de ig, ... ai abi i
ha. be. ce. e. e. ha. ... a. e. d. i. ha. e. e. di. a. f. da. e. a.
. o. i. ci. e. ha. i. g. he. f. o. e. f. o. b. i. e. i. e. e. e. e. e. gh. hi.
e. x. o. ai, i. i. e. i. de. . ha. ... ai ab. e. de. ig. i. . o. e. a. ad. ded
fea. e. b. a. h. i. c. a. o. ach. ha. i. e. g. a. e. e. i. e. a. . . cia,
a. de. c. i. c. i. d. o. ai. i. i. e. o. a. e. c. f. he. de. ig. / o. ce. .
F. i. ai ab. e. a. chi. ec. e. h. d. he. o. i. e. f. i. g. a. i. g. he.
e. i. e. a. i. . ac. f. b. i. d. i. g, / h. i. c. c. o. e. . . acc. . . f. o. a
. i. g. i. c. a. . . o. i. f. g. ba. e. o. g. c. . . i. a. d. g. e. e. h. . e. g. a.
e. i. i. . B. e. . . . i. g. . a. e. g. i. e. . ch. a. . a. i. e. de. ig, e. o. g.
e. ci. e. . tech. . . g. i. e, a. d. e. e. r. ab. e. e. o. g. . . . ce, a. chi. ec. ca.
o. ea. e. b. i. d. i. g. ha. . . i. i. e. e. . . ce. c. . . i. a. d. ca. b
f. . . i. / h. i. e. a. x. i. i. g. c. f. o. a. d. f. ci. ai. .

... e i.eg ai f achi ec. a a d ... ai abe de ig / o i ci e
i e e. ia f. o. ad. de. i. g. he. c. . e. x. ha. e. ge. f. he. 21. ce. . . .
B. e. b. aci. g. i. . ai, c. ab. o. ai, a. d. a. c. . i. e. . . .
e. i. e. e. a. e. a. d. h. i, a. chi. ec. ha. e. he. . . . i. . . ha. e
a. . . e. . . ai ab. e. a. d. e. i. e. f. o. e. f. o. g. e. o. ai. . . c. e. A.

... e. c. i. e. . . i. e. f. o. e. ce. i. de ig, e. . . e. e. b. o. he
/ o. f. d. i. . ac. ha. . . de. ci. i. . ca. ha. e. . . he. . a. e. a. d. i.
i. ha. b. i. a. . . . gh. h. gh. f. a. d. c. . . cie. i. . . de. ig. / o. ac. i. ce, / e.
ca. o. ea. e. b. i. d. i. g. ha. . . . i. i. e. e. . . ce. c. . . i. a. d. ca. b
f. . . ai abi i, e. . . i, a. d. e. i. e. ce. i. a. e. o. -cha. gi. g. / o. d.

References

1. Wei HH (2016) Conflict and consensus in stakeholder attitudes toward sustainable transport projects in China: An empirical investigation. *Habitat Int* 53: 473-484.
2. Bert VW, Flyvbjerg B (2010) Large Transport Infrastructure Projects: Improving Institutions and Decision Making. *EJTIR* 10: 1-4.
3. Locatelli G, Invernizzi DC, Brookes NJ (2017) Project characteristics and performance in Europe: An empirical analysis for large transport infrastructure