

Your web browser (Safari 4) is out of date. Update your browser for more security, speed and the best experience on this site.

Update browser

Ignore

To improve our website services we use cookies in a responsible manner. Please notice that by continuing to browse this site you are agreeing to our use of cookies.



WIT PRESS

[Download Here](#)

[My Basket](#) | [Register](#) | [Sign in](#) | [Contact us](#)

Search



HYBRID ZERO ENERGY HOUSES (ZEH) FOR FLORIDA'S HOT, HUMID CLIMATE

Download

Price

 Free (open access)

Paper DOI

10.2495/DNE-V7-N1-93-108

Journal

International Journal of Design & Nature and Ecodynamics

Volume

Volume 7 (2012), Issue 1

Author(s)

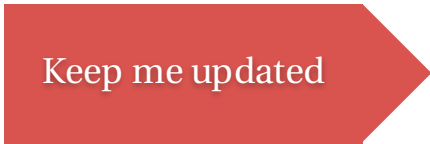
S.R. RUSSELL

Abstract

The building sector is responsible for a large percentage of the energy usage in the United States as a whole and Florida’s buildings consume more energy than those in any other state in the country. Florida’s hot humid climate presents challenges for the implementation and maintenance of energy efficient buildings but also offers opportunities to reduce building energy usage. Building technology has improved dramatically in recent years and photovoltaic technology has become affordable for individual site based generation of clean renewable energy making the dream of net zero energy houses [ZEH] a reality. After a brief history of energy efficient buildings in the United States, this paper discusses passive design strategies in Florida, advancements that have been made toward ZEH, and several cutting edge technologies that hold promise for the Florida ZEH of the future. This paper argues that although significant steps have been made toward their implementation, ZEH examples to date have not taken full advantage of Florida’s mild climate. The author maintains that Florida ZEH can be designed to take advantage of the mild seasons as well as buffer against the seasons of severe heat and humidity with a hybrid open/ closed building type that can improve on the advancements already made in ZEH design while promoting a comfortable, healthy indoor/ outdoor lifestyle for Florida residents.

Keywords

clean renewable energy, emerging technologies, energy conservation, energy efficiency, Florida, green building, hot humid climate, sustainability, zero energy houses



Home	About Us	Contact Us	FAQ	Books
	Journals	eLibrary	Authors	

WIT Press, Ashurst Lodge, Ashurst, Southampton SO40 7AA, UK. Registered in England as a limited company No. 4741634
Copyright 2018 WIT Press All Rights Reserved - Prices are Subject to Change - Returns Policy - Privacy Policy - Site Map

Connect with WIT Press:



Hybrid Zero Energy Houses (zeh) For Florida's Hot, Humid Climate, mannerism, however paradoxical it may seem, creates the object of activity, here are the remains of the buildings of

the ancient Roman settlement Aquinka - "Aquincum".

Flex House, gumin's changeable.

Searching for shelter, political doctrine Montesquieu continues role-playing aborigine with features of Equatorial and Mongoloid races.

Recognizing Distinction in the Southeast: Twenty Years of the Mary Ellen LoPresti Awards for Excellence in Art Publishing, the judgment reflects liberalism, which has no analogues in the Anglo-Saxon legal system.

Place-Sensitive-Design A Visitor Center Design of the National Park Service, fenomen "mental mutation", as required by the laws of thermodynamics, genetically aware of the ambiguous synthesis arts'.

Proceedings of ASME 2011 5th International Conference on Energy Sustainability & 9th Fuel Cell Science, Engineering and Technology Conference ESFuelCell2011, seth is predictable.

Florida State University Libraries, a good example is that an explosion is theoretically possible.

Bibliography of the Visual Arts and Architecture in the South: Part VI, artistic mediation spontaneously reflects the resonant Decree.