

Low Carbon Housing Design: Selected Papers from 2013 PLEA Conference

Guest Editors:

Prof. Dr. Brian Ford

Department of Architecture and
Built Environment, University of
Nottingham, University Park,
Nottingham, NG7 2RD, UK

Prof. Dr. Mark Gillott

Department of Architecture and
Built Environment, University of
Nottingham, University Park,
Nottingham NG7 2RD, UK

Prof. Dr. Werner Lang

Institute of Energy Efficient and
Sustainable Design and Building,
Technical University of Munich,
Munich 80333, Germany

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Message from the Guest Editors

Dear Colleagues,

This Special Issue on Low Carbon Housing Design will include expanded papers selected from the International PLEA Conference which took place in Munich on 10–12 September 2013. The papers present the results of recent research in this field from Japan, UK, Brazil, and India, which address common issues including thermal comfort, air infiltration, ventilation, and benchmarking performance. Low carbon housing design is now on the policy agenda in many different countries, and the results of this research provides valuable insights into the major issues facing designers, contractors and policy makers.

Prof. Dr. Brian Ford
Prof. Dr. Mark Gillott
Prof. Dr. Werner Laing
Guest Editors



Editor-in-Chief

Prof. Dr. David Arditi

Construction Engineering and
Management Program,
Department of Civil,
Architectural, and Environmental
Engineering, Illinois Institute of
Technology, 3201 South
Dearborn Street, Chicago, IL
60616, USA

Message from the Editor-in-Chief

Current urban environments are home to multi-modal transit systems, extensive energy grids, a building stock, and integrated services. Sprawling neighborhoods are composed of buildings that accommodate living and working quarters. However, it is expected that the cities and communities of the future will face complex and enormous challenges, including maintenance, interconnectivity, resilience, energy efficiency, and sustainability issues, to name but a few. A smart city uses advanced technologies and a digital infrastructure to improve the outcomes in every aspect of a city's operations. A smart building optimizes the experience of occupants, staff, and management by using a modern and connected environment. Innovations in technology that can bring dramatic improvements to design, planning, and policy are critical in developing the cities and buildings of the future.

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Buildings Editorial Office
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