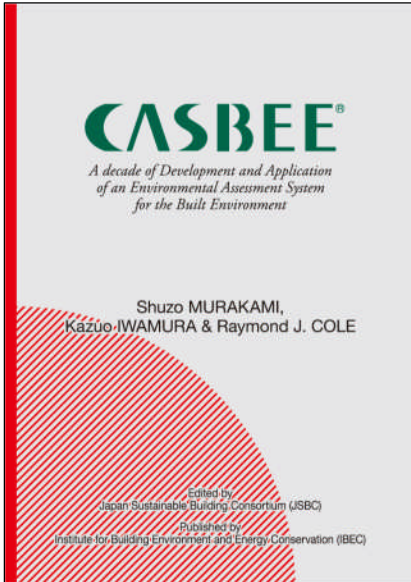


by Shuzo MURAKAMI, Kazuo IWAMURA & Raymond J. COLE



In promoting sustainable buildings, CASBEE (Comprehensive Assessment System for Built Environment Efficiency) has become an industry-standard in Japan with societal significance since a decade after its official publication. In between, it has garnered considerable global interest and been actively promoted overseas.

However, the corresponding growth in its user base has resulted in some first-time users finding the CASBEE system and its numerous tools somewhat complex and difficult to understand. To address such issues, and also for the benefit of global users, this book, all written in English, is intended to offer an easy-to-understand comprehensive introduction to the CASBEE system structure, scope and emphasis.

Environmental assessment as tool for promoting sustainable buildings has become an important social movement. Amidst such a global trend, we hope CASBEE will make a meaningful contribution to solving global environmental issues. As the movement for the advancement of sustainable buildings continues to evolve, we will strive to further improve the contributions and offerings of CASBEE in this effort. *(Extracts from the Preface by Shuzo MURAKAMI)*

Contents

Chapter 1: Introduction

- 1.1. Situating CASBEE within a broader context, by Raymond J. COLE
- 1.2. Background of CASBEE development, by Shuzo MURAKAMI
- <Column-1> Sustainability and Trust, by Martin TOWNSENT
- <Column-2> LEED and CASBEE, by Scot HORST & Gretchen SWEENEY

Chapter 2: Basic Concept of CASBEE

- 2.1. R&D Structure: Academia+Industry+Governments
- 2.2. Space-scale classification from a single home to a whole city
- 2.3. Time-process classification according to the life-stage of built environment
- 2.4. Virtual enclosed space boundary
- 2.5. From Eco-Efficiency to Built Environment Efficiency (BEE)
- 2.6. Unique rating index: Built Environment Efficiency (BEE)
- 2.7. Graphic indication system of the rating results for dissemination
- 2.8. Input operation and output results
- <Column-3> Assessment Systems and LCCO₂, by Thomas LÜTZKENDORF

Chapter 3: CASBEE Family of Tools

- 3.1. Overall structure
- 3.2. CASBEE for Housing
- 3.3. CASBEE for Buildings
- 3.4. CASBEE for Market Promotion (CASBEE-MP)
- <Column-4> Sustainable assessment as a tool for translating sustainability features into value, by Frank HOVORKA
- <Column-5> Linkage between environmental performance assessment and property appraisal, by Thomas LÜTZKENDORF & David LORENZ
- 3.5. CASBEE for Urban Development (CASBEE-UD)
- 3.6. CASBEE for Cities (CASBEE-City)
- <Column-6> Towards green cities, by Serge SALAT
- 3.7. CASBEE Connector to BIM (Building Information Modeling)

Chapter 4: CASBEE Promotion and Support Systems

- 4.1. CASBEE Accredited Professional registration system
- 4.2. CASBEE certification system
- 4.3. Building administration systems

Chapter 5: Benefits from Using CASBEE

- 5.1. Relationship between BEE Index, Energy/CO₂e conservation and cost
- 5.2. Incentives provided by local governments
- 5.3. Health promotion in housing and community

Chapter 6: Utilization and Dissemination of CASBEE

- 6.1. Overview
- 6.2. Utilization in governmental policies
- 6.3. Practical application
- 6.4. Utilization in education
- 6.5. Publicity and academic releases
- 6.6. Overseas collaborations
- <Column-7> The Chinese green building labeling systems and CASBEE, by ZHU Yingxin
- <Column-8> CASBEE-City in Putrajaya, Malaysia, by HO Chin Siang
- 6.7. CASBEE evaluation of vernacular houses

Appendix

Title: **CASBEE**

*A decade of Development and Application
of an Environmental Assessment System
for the Built Environment*

Authors: Shuzo MURAKAMI,
Kazuo IWAMURA & Raymond J. COLE

Editor: Japan Sustainable Building Consortium
(JSBC)

Publisher: Institute for Building Environment
and Energy Conservation (IBEC)

Design: Kazuo IWAMURA

Volume: B5 / 297 Pages / Monochrome

Publication Date: April 2014

ISBN 978-4-9907425-8-4 C3052

Price: JPY 6000 (plus tax)

Overseas Distributor:

Japan Publications Trading Co.,Ltd.

1-2-1, Sarugaku-cho, Chiyoda-ku, Tokyo,
101-0064 JAPAN

Email: mono@jptco.co.jp

Tel. +81-3-3292-3753

Fax. +81-3-3292-0410

URL <http://www.jptco.co.jp/>

<http://iptbooknews.jptco.co.jp/>