

The Eighth International Conference on EcoBalance

**The challenge of creating social and
technological innovation through system-thinking**



EcoBalance

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Preface

– The challenge of creating social and technological innovation through system-thinking –

With the climate having gone through drastic changes since the mid 20th century, it is critical to cut down greenhouse gas emissions to less than half of the current level to stabilize the climate. At the G8 Summit held at Toyako, Hokkaido, Japan in July 2008, it was agreed to seek to adopt as a global target of at least a 50% reduction of global emissions of greenhouse gases by 2050.

A key to put the agreement into practice is environment- and human-oriented technological and social innovations, or eco-innovation and specific problem solving thorough it. Inevitably, there will be accelerated increases in efforts that bring together the wisdom of international industrial and academic communities for the purpose of making shifts to sustainable living, including the establishment of sustainable production through the cyclical and multi-step use of resources hand-in-hand with a departure from dependence on scare resources, and the development of a zero-emission social infrastructure through promoting the use of renewable energy. In order to promptly apply the results from such technological and social innovations to industries and markets, it is urgent to develop environmental performance indicators, make the environmental and sensitivity values 'visible,' and coordinate international cooperation and unified actions to standardize and promote methods to measure them. Under such a stipulation, eco-balance evaluation is gaining a greater importance than ever as a method to quantify environmental burdens.

Having Life Cycle Assessment (LCA) as the core concept, the International Conference on EcoBalance has been held since 1994 as a biennial meeting, playing a central role in the world as a forum for the discussions on environmental performance evaluation, information disclosure of the evaluation results, and the development and implement of its methods.

This volume contains the papers presented at the 8th International Conference on EcoBalance at TOKYO BIG SIGHT during the period from December 10 to 12, 2008. We believe that all papers in this volume serve as a significant source of information on the latest achievement in the LCA and other tools of system analysis, and will make a fruitful contribution to designing our future society.

Finally, we wish to thank all the member of the International Advisory Committee, the Organizing Committee, the Executive Committee, and, all participants, session chairs, as well as many colleagues who worked together with us in various ways for this conference.

Dr. Yasunari MATSUNO
Chairman of the Executive Committee
The Eighth International Conference on EcoBalance

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