

Environmental Cost Accounting An Introduction And Practical Guide Cima Research

"The book is intended for all those interested in EMA as either researchers or practitioners. It will also be of interest both to those interested in how well-established management accounting methods can be adapted and extended in order to meet new demands on companies, and also to environmental managers interested in learning how accounting techniques can be of value in achieving environmental management objectives."--BOOK JACKET.

Environmental Management Accounting (EMA) is increasingly recognised as a distinguished tool of environmental management. It helps to integrate a company's environmental and business interests, whereby enhancing corporate eco-efficiency in terms of reducing environmental costs or making one's product more competitive. This book gives a comprehensive coverage of the state of the art. It presents a number of EMA frameworks that companies can take as a basis for implementing their own specific EMA structures. Besides discussing environmental accounting issues within conventional management accounting, it gives a detailed picture of materials flow (cost) accounting as an alternative way of looking at the ecology-economy relationships at the corporate level. A fascinating case study shows how a large company (Siemens) applies materials flow accounting and what benefits it entails.

In order to survive in the changing business environment, organisations should rethink their strategic philosophy and the role of management accounting. The primary focus of this book is on techniques and concepts of cost and management accounting for strategic business decisions. It focuses on both conventional and contemporary issues. The book will serve as a reference source for practicing accountants, senior executives and managers working in human resources, operations, and accounting divisions. As the principal focus of this book is on conceptual foundations, it would also be ideal for courses in graduate programs such as master's degree, MBA or Executive MBA.

To date, both internal and external corporate environmental reporting and management systems have focused on physical input-output measures. However, external stakeholders are increasingly demanding that organisations provide more financial information about the costs and benefits of their environmental actions. As environmental costs rise, internal decision-makers are also seeking such information to ensure that money is well spent. Beyond basic compliance, many companies will not countenance environmental actions for which a "business case" cannot be made. A number of companies – such as Baxter, BT, Xerox, Zeneca and others – are now beginning to develop a better understanding of the costs and benefits of environmental action. The US Environmental Protection Agency has also done considerable work on models designed to understand the "full costs" of pollution control investments, with the aim of demonstrating that – when these are properly considered – pollution prevention can be a more cost-effective alternative. The Green Bottom Line brings together much of the world's leading research and best-practice case studies on the topic. Divided into four sections, covering "General Concepts", "Empirical Studies", "Case Studies" and "Implementation", the book includes case studies from the US EPA's Environment Accounting Programme and contributions from authors at institutions including the IMD,

INSEAD, Tellus Institute and the World Resources Institute. It constitutes a state-of-the-art collection.

This book explains how True Cost Accounting is an effective tool we can use to address the pervasive imbalance in our food system. Calls are coming from all quarters that the food system is broken and needs a radical transformation. A system that feeds many yet continues to create both extreme hunger and diet-related diseases, and one which has significant environmental impacts, is not serving the world adequately. This volume argues that True Cost Accounting in our food system can create a framework for a systemic shift. What sounds on the surface like a practice relegated to accountants is ultimately a call for a new lens on the valuation of food and a new relationship with the food we eat, starting with the reform of a system out of balance. From the true cost of corn, rice and water, to incentives for soil health, the chapters economically compare conventional and regenerative, more equitable farming practices in and food system structures, including taking an unflinching look at the true cost of cheap labour. Overall, this volume points towards the potential for our food system to be more human-centred than profit-centred and one that has a more respectful relationship to the planet. It sets forth a path forward based on True Cost Accounting for food. This path seeks to fix our current food metrics, in policy and in practice, by applying a holistic lens that evaluates the actual costs and benefits of different food systems, and the impacts and dependencies between natural systems, human systems, agriculture and food systems. This volume is essential reading for professionals and policymakers involved in developing and reforming the food system, as well as students and scholars working on food policy, food systems and sustainability.

The book highlights innovative ideas, cutting-edge findings, and novel techniques, methods and applications touching on all aspects of technology and intelligence in smart city management and services. Above all, it explores developments and applications that are of practical use and value for Cyber Intelligence-related methods, which are frequently used in the context of city management and services.

Recognizing the increasing importance of environmental issues, energy prices, material availability and efficiency and the difficulty of adequately managing these issues in traditional accounting systems, several companies all over the world have started implementing "Environmental and Material Flow Cost Accounting" (EMA and MFCA). "Environmental and Material Flow Costs Accounting" explains and updates the approach developed for the United Nations Department of Economic and Social Affairs (DSD/UNDESA) and the International Federation of Accountants (IFAC) and in addition includes experiences of several case studies and recent developments regarding EMA and MFCA in national statistics and ISO standardization.

'This book is a good comprehensive text and comes highly recommended to anyone currently involved in, looking to get involved in, or just interested in environmental management, environmental accounting and reporting' - Pacific Accounting Review

This is the long-awaited 2nd edition of the benchmark publication that helped shape the developing agenda of environmental accounting. This excellent new edition provides an overview of the subject ranging from environmental management to sustainability, and integrates the major advancements that have occurred since the first edition - in both research and practice. It introduces and explains environmental issues as they relate to

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accountants today. This new work also places an increased emphasis on the emerging research literature in the field and reveals a consciousness of the difficulties of developing an environmental agenda in business. It makes an excellent stand-alone text for lower level students, a firm base from which the advanced student or researcher can explore research and more complex issues, and a useful guide for practitioners seeking to understand and implement environmental practice.

The study of the interactions between business organizations and their natural environments has gained momentum recently under the aegis of social and environmental accounting and reporting (SEAR), and as a diluted form of response in corporate social responsibility (CSR). Environmental Accounting, Sustainability and Accountability envisages accounting as an effective instrument in improving this interrelationship. It comprehensively describes how organizations can capture their environmental performance and thereby address societal concerns. The book closely explores how organizations can embed care for the environment as fundamental to their functioning. It broadly covers traditional accounting as a measuring instrument, contemporary advances and unresolved problems, alternative perspectives and recent developments. The central idea proposed here is to evolve the environmental accounting framework and bring calculative aspects into sustainability thinking that businesses are responsible for. Among the other important innovative ideas discussed are new costing techniques for waste management, accounting schematics of carbon trade, green information needs of management and the extension of the environmental viewpoint to information systems and technology.

This title was first published in 2003. Our cherished economic indicators of income, product, consumption and capital fail in taking a long-term view of social progress. They do not account for environmental deterioration, which impairs the quality of life of present and future generations, and hence the sustainability of development.

"Greening" the conventional national (and corporate) accounts introduces environmental impacts and costs into these accounts and balances. The result is a new compass for steering the economy towards sustainability, which may change not only our main measures of economic performance but also the basic tenets of environmental and resource policies. This book presents methodological advances and case studies of environmental accounting, and discusses their use in environmental management and policies. In their introduction, the editors provide a critical perspective of historical developments and current debates.

Industrial ecology is a concept that has emerged in response to growing public concern about the impact of industry on the environment. In this framework the natural flow (or circulation) of materials and energy that takes place in biological ecosystems becomes a model for more efficient industrial "metabolism." What industrial ecology is and how it may be applied to corporate environmentalism are the subject of *The Industrial Green Game*. This volume examines industrial circulation of materials, energy efficiency strategies, "green" accounting, life-cycle analysis, and other approaches for preventing pollution and improving performance. Corporate leaders report firsthand on "green" efforts at Ciba-Geigy, Volvo, Kennecott, and Norsk Hydro. And an update is provided on the award-winning industrial symbiosis project in Kalundborg, Denmark. *The Industrial Green Game* looks at issues of special concern to business, such as measuring and shaping public perceptions and marketing "green" products to

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consumers. It offers discussions of the appropriate roles of government and private business.

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This book provides an introduction to the dynamic subject of corporate environmental accounting. It outlines the business case and rationale for engaging in environmental accounting. It also illustrates how leading UK companies are already adding value and reducing risk through the use of innovative environmental accounting techniques and methodologies. The second part of the book presents an environmental accounting tool kit which focuses on external cost accounting. The methodology detailed in this section provides a tool to estimate the environmental sustainability of a company's activities and operations. The methodology presented has been developed by the sustainable development organisation Forum for the Future, a UK registered charity, with support from the Chartered Institute of Management Accountants (CIMA). An introductory guide to environmental accounting will help organisations identify and cost their impact on the environment

This is the fourth in a series publishing the best contributions on environmental management accounting (EMA) from around the world. This volume brings together international examples of leading thinking and practice in this rapidly developing area. This is the most comprehensive volume to date covering theory, practice and case studies on sustainability accounting and reporting. It covers tools, frameworks, concepts as well as case studies and empirical analysis.

This exciting book is one of the first textbooks in this fast growing field. Contributed to, and edited by an impressive array of internationally renowned authorities, it draws on real life examples and case studies.

Contemporary Environmental Accounting: Issues, Concepts and Practice has been written by two of the world's leading experts in the field in order to provide the most comprehensive and state-of-the-art textbook on environmental accounting yet attempted. The book is suitable for both undergraduate and graduate students and their teachers, professional accountants, and corporate and organisational managers. Although no prior knowledge of environmental accounting is necessary to understand the critical issues at stake, academic accountants will also find that the book provides a useful introduction to the topic. The goals of the book are to discuss and illustrate contemporary conceptual approaches to environmental accounting; to make readers aware of crucial controversial topics; and to offer practical examples of how the concepts have been applied throughout Europe, North America and Australia. In order to increase the usefulness of the book for relevant courses, each chapter concludes with a set of questions for review. This book is essential reading for all those who are interested in how environmental issues influence accounting. A solutions manual is available on request with the purchase of this book.

Around the world the focus is on the relationship between ethics and governance codes and how widely this should be interpreted. Sustainability has three main accepted dimensions: economic growth, social responsibility, and environmental protection. It is a truly multidimensional and multidisciplinary concept, and one which directly affects the risks and opportunities for markets and businesses. In three distinct parts, **Sustainable Markets for Sustainable Business** explores the relationship between markets and business and sustainable development, as

well as issues such as climate change, pollution, land degradation and biodiversity loss. Firstly the authors, all experts from around the world, consider a variety of theoretical issues concerned with sustainability in the new environment. In Part Two the emphasis is on looking at these issues in the market and business practice under various guises. Although every chapter contains discussion and recommended solutions, the final part specifically focuses on future perspectives and the solution strategies for implementation of sustainability measures. Throughout the book the authors address the need for business and market sustainability reforms. The world's markets have the potential to improve the lives of billions in developing countries, reducing poverty and securing environmental quality for future generations. Often they fail to capture the full value of natural resources or promote the interests of poor people. Therefore, an effective public policy framework is required. Sustainable Markets for Sustainable Business and future titles in the Finance, Governance and Sustainability Series address this need.

This comprehensive book, now in its third edition, brings into fore the fundamental concepts of environment management. The elegantly combined presentation of various aspects of environment, ecosystems, effects of global warming and pollution, and various ways to conserve nature and save environment, with profundity, is a highlight of this text. The third edition, while retaining the thorough coverage of the various areas of environment management—ecology, biodiversity, degradation of environment, agro-ecosystem and sustaining agriculture, forest and wildlife, waste management, emerging disciplines in environmental management, environment legislation, ethical aspects of environment—throws light on a new chapter on Ecological Dynamics and Human Influence that discusses the various environmentally significant behaviour, including environmental activism, eco-terrorism, bio-terrorism, agro-terrorism, ecotage, Green Scare, and environmental refugee. Designed as a textbook for the postgraduate students of management, this book can be equally useful for the undergraduate students of all disciplines.

This book brings together examples of leading thinking and international practice in the rapidly developing area of environmental management accounting (EMA). The authors include academics and practitioners from industry and the subjects covered range from individual company experiences with implementing EMA to national experiences regarding the adoption and diffusion of EMA practices.

"Implement the green strategies outlined in Dan Esty's and Andrew Winston's bestseller Green to Gold" Hard-nosed business advice for gaining competitive advantage through sustainability action in buildings and operations, information technology, product design, sourcing, manufacturing, logistics and transportation, marketing, accounting, and other key business functions Whether you are a climate change skeptic or an environmentalist, sustainability issues cannot be ignored in today's corporate world. With rising energy and natural resource costs, intensified regulations, investor pressures, and a growing demand for

environmentally friendly products, sustainability is no longer an option—it's a business imperative. Unlike many green business books, the Playbook skips the environmental ideology and deals exclusively with tools and strategies that have been shown to cut costs, reduce risks, drive revenues, and build brand identity. Builds on Dan Esty and Andrew Winston's prizewinning Green to Gold, which has become a business classic and a staple of management training across the world. Shows in detail how each business function or department can achieve an eco-advantage over the competition Offers frameworks, checklists, and action plans applicable to any business—big or small, in manufacturing or services The Green to Gold Business Playbook gives you the tools to make green work-and work profitably-for your business.

CIMA offers a business qualification with a finance focus, aiming to produce members with accounting prowess who are skilled in strategic decision-making. 98% of its members work in business, the highest proportion of any worldwide accountancy body. Paper P1 looks at how information is obtained, evaluated and used to control and predict business performance. The syllabus is split into the following five areas: * Cost accounting systems * Forecasting and budgeting techniques * Project appraisal * Dealing with uncertainty in analysis * Managing short-term finance P1 requires a good understanding of the underlying concepts and techniques in all five areas. P1 also needs you to be able to apply these concepts to practical situations, evaluate them critically and interpret the results. The P1 Study Text contains all you need to know for P1, featuring step-by-step guides to techniques such as investment decision making and budget preparation. There are also reminder sections of knowledge brought forward from earlier studies such as costing terminology. Key terms are identified throughout the Text to help you to get to grips with the new material.

Written at a level that is accessible to students in all disciplines, Introduction to Environmental Management, Second Edition translates complex environmental issues into practical and understandable terms. The book provides students and practitioners an understanding of the regulations, pollutants, and waste management issues that can be applied in various related environmental fields and industries. This new edition is updated throughout and adds eleven new chapters, including coverage of water conservation, water toxins, measurement methods, desalination, industrial ecology, legal issues, and more. Features: Updated throughout and includes eleven all-new chapters Reviews the specialized literature on pollution prevention, sustainability, and the role of optimization in water treatment and related areas, as well as references for further reading Provides illustrative examples and case studies that complement the text throughout Includes ancillary exams and a solutions manual for adopting instructors This book serves as a complete teaching tool, offering a combination of insightful coverage, concise language, and convenient pedagogical features, and supplies practical guidance that will aid students and practitioners alike. The concept of the 'triple bottom line' (TBL) - the idea that business activity can

simultaneously deliver financial, social and environmental benefits - was introduced in the early 1990s. A decade on, *The Triple Bottom Line: Does it All Add Up?* brings together the world's leading experts on corporate responsibility to assess the implications, benefits and limitations of the TBL. This collection provides a review of what has already been achieved in stimulating change in corporate culture and bringing businesses to an appreciation of the importance and benefits of corporate social responsibility (CSR) and good environmental performance. It further explores the conceptual and practical limits of the metaphor of the TBL and sets out what can be achieved through regulation and legislation, presenting detailed professional procedures for environmental accounting and management and social auditing. The contributors' wealth of experience and insight provides a vivid picture of how much attention is now being focused by businesses on delivering more than just financial targets, and they clearly outline the necessary steps for successfully continuing along this trajectory.

A practical guide to both the tools of environmental management and the ways they can be used to enhance a corporation's profitability while eliminating negative environmental impacts and consequent financial liabilities.

As our great economic machine grinds relentlessly forward into a future of declining fossil fuel supplies, climate change and ecosystem failure, governments are at long last beginning to question the very structure of the global economy. In this fresh, politically charged analysis, Jonathon Porritt wades in on the most pressing question of the 21st century: can capitalism, as the only real economic game in town, be retooled to deliver a sustainable future? Porritt argues that indeed it can, and it must, as he lays out the framework for a new 'sustainable capitalism' that cuts across the political divide and promises a prosperous future of wealth, equity and ecosystem integrity.

Sustainability is a concept that unifies the environment, economy, and society, and has spread as a key concept in enterprise management. The United Nations adopted the Sustainable Development Goals (SDGs) in 2015, which require worldwide efforts to reach a sustainable society, and also applies to private enterprises. Sustainability should be developed in connection with management strategy, and Asia's role, including that of Japan, is important to improve global sustainability. This book addresses how sustainability management in the Asian context is currently practised and proposes practices for the future. Investigation of the effect of business domain characteristics on the integration of sustainability and management, and elucidation of the process and features of EMCS (Environmental Management Control System) inside and outside of companies have been indicated. The book points that companies need to use and design Sustainability Management Control Systems in order to implement a CSR (Corporate Social Responsibility) strategy and match employees' behavior to CSR activities. MFCA (Material Flow Cost Accounting) has started to expand rapidly into other Asian industries from Japan as a method of Environmental

Management Control. The fundamental idea and procedure of MFCA and many case examples of Japanese MFCA have been reported. These findings help us to consider a policy for continuous use of MFCA. Moreover, the relationship between Toyota Production System and MFCA has been explained and 'Material Flow Time Costing' as a new management accounting concept is proposed. Based on the literature review, the study has made recommendations for Asian companies' strategic management and governmental policy-making to improve both quality and quantity of sustainability disclosure in Asia. One of the papers has identified the development and implementation of social and environmental accounting by Indonesian state-owned enterprises and their determining factors. In a Japanese manufacture, the effect of smoothed production has been analyzed as an example of environmental management. This led to an increase in production quality without additional capital spending. *Studies in Accounting and Finance: Contemporary Issues and Debates*, useful for business executives, accounting and finance practitioners, researchers, and students discusses contemporary issues in accounting and finance. Topics discussed include globalization of accounting standards, accounting for financial instruments, fair value accounting, accounting for intangibles, corporate governance and accounting, accounting for social and environmental costs, accounting for employee stock option plans, obstacles to the development of high-quality accounting standards, small company reporting, accounting ethics, technology reporting, and global economic meltdown.

This book, dedicated to Prof. Jacques Richard, is about the economic, political, social and even environmental consequences of setting accounting standards, with emphasis on those that are alleged to be precipitated by the adoption and implementation of IFRS. The authors offer their reasoned critiques of the effectiveness of IFRS in promoting genuine global comparability of financial reporting. The editors of this collection have invited authors from 17 countries, so that a great variety of accounting, auditing and regulatory cultures, and educational perspectives, is amply on display in their essays.

It is increasingly being recognised across society that the preservation of our natural environment should shape political, economic and social policies. This book delves into the partnership of non-governmental organisations (NGOs), Environmental NGOs (ENGOs), their communities, and their governmental counterparts in responding to this need.

Sustainable development will not happen without substantial contributions from and leading roles of companies and business organizations. This requires the provision of adequate information on corporate social and ecological impacts and performance. For the last decade, progress has been made in developing and adapting accounting mechanisms to these needs but significant work is still needed to tackle the problems associated with conventional accounting. Until recently, research on environmental management accounting (EMA) has concentrated on developed countries and on cost–benefit analysis of

implementing individual EMA tools. Using a comparative case study design, this book seeks to redress the balance and improve the understanding of EMA in management decision-making in emerging countries, focussing specifically on South-East Asian companies. Drawing on 12 case studies, taken from a variety of industries, *Environmental Management Accounting: Case Studies of South-East Asian Companies* explores the relationship between decision situations and the motivation for, and barriers to, the application of clusters of EMA tools as well as the implementation process itself. This book will be useful to scholars interested in the environmental and sustainability management accounting research field and those considering specific approaches to EMA within emerging economies.

This new edition has been revised throughout, and adds several sections, including: lean manufacturing and design for the environment, low impact development and green infrastructure, green science and engineering, and sustainability. It presents strategies to reduce waste from the source of materials development through to recycling, and examines the basic concepts of the physical, chemical, and biological properties of different pollutants. It includes case studies from several industries, such as pharmaceuticals, pesticides, metals, electronics, petrochemicals, refineries, and more. It also addresses the economic considerations for each pollution prevention approach.

It is vitally important for businesses to have a holistic understanding of the many issues surrounding and shaping sustainability, from competitors to government and political factors, to economics and ecological science. This integrated textbook for MBA and senior-level undergraduates offers a comprehensive overview of the issues of sustainability as they relate to business and influence corporate strategy. It also features a wide range of cases and an extensive discussion of tools to incorporate sustainability issues into strategic decision making, helping instructors and students to build and then apply a solid understanding of sustainability in business.

Planet Earth is under stress from various environmental factors, increasing the importance of being able to estimate the environmental costs associated with dynamic material shifts. Such shifts are occurring in the electronics industry and the most famous recent example is the introduction of lead-free solders. "Global Life Cycle Impact Assessments of Material Shifts" describes the environmental implications of this shift to lead-free solders and conductive adhesives using the standardized methodology of environmental life-cycle assessment (LCA). As the product systems involved are rather small for interconnection materials it is possible – using uncertainty analysis and consequential LCA – to arrive at robust conclusions, even in the difficult holistic field of environmental cost accounting. The lead-free shift has many implications, such as the export of electronics waste, resource consumption, recycling issues, and technology development.

Sustainability requires companies to develop in an economically, environmentally and socially sustainable manner. Corporate sustainable development in turn requires movement towards cleaner production. In order to recognize the potential from cleaner

production – reduced costs and fewer environmental impacts through the reduced use of materials – environmental management accounting (EMA) is a necessary information management tool. Environmental Management Accounting for Cleaner Production reveals a set of tools for companies to collect, evaluate and interpret the information they need to estimate their potential to use cleaner production to realize cost savings and to make the best decisions about the available cleaner production options. EMA is therefore the key for driving environmental progress, cost savings, increased competitiveness and corporate sustainability through the means of cleaner production. This book is designed to meet the urgent need for a comprehensive and definitive introduction and teaching text on corporate environmental management. It aims to become the standard textbook for courses examining how business can take the environment into account while also providing an accessible and thorough overview of this increasingly multidisciplinary subject for practitioners. Written by the internationally acknowledged experts Stefan Schaltegger and Roger Burritt (authors of the highly influential Contemporary Environmental Accounting) along with Holger Petersen, the book invites the reader to join in an exploration of the ways in which companies can engage in environmental management and why such engagement can be profitable for business. The reader is invited to: examine whether the contents reflect their own experience, take their experience further, or oppose their own views; note which of the ideas presented are especially important, add to those ideas, or encourage a reaction (positive or negative); answer questions creatively (based on their own perspective of the issues); encourage themselves to be inspired by questions, which can be investigated further through other written sources of information, such as books you will be guided to through the bibliography, the Internet or the general media; and think about and plan the ways in which the knowledge provided can be implemented in your own situation. The book is organised into four main sections. First, the fundamental ideas and linkages behind business management, the environment and sustainable development are briefly but clearly sketched. The second part of the book outlines the criteria against which environmentally oriented business management can be assessed and the fields of action in which success can be achieved. The third part presents a discussion and examples of strategies for environmental management, which are linked, in the fourth part, to the essential tools of environmental management, especially green marketing, environmental accounting and eco-control. The book is full of case studies and examples related to the main contents of each chapter and each chapter provides a number of questions for the student or reader to address. An Introduction to Corporate Environmental Management is both a textbook and a sourcebook. The reader can either work through the material in a structured way or dip into the content and follow up on specific areas of interest. The materials are designed to be used for understanding and reference, rather than to be learned by heart. The primary aim is for the reader to obtain a practical understanding of the relationship between management and environmental issues which can be applied in day-to-day situations-whether as part of a student's wider view of management or within the practitioner's real-world situation. It will be essential reading for many years to come. In today's unsustainable world of goods, where products are desired, purchased, briefly used and then promptly landfilled to make way for more, consumption and waste are rapidly spiralling out of control with truly devastating ecological consequences. Why

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Policy failures in environment and development have been blamed on fragmented and eclectic policies and strategies. The 1992 United Nations Conference on Environment and Development, the 'Earth Summit' in Rio de Janeiro, called therefore for an integrated approach in planning and policy making to achieve long-term sustainable growth and development. The Conference also recognized in its action plan, the Agenda 21, that integrated policies need to be supported by integrated information, notably requiring the implementation of integrated environmental and economic accounting by its member States. During the preparations for the Rio Summit, scientists and practitioners of national accounting met in a Special Conference on Environmental Accounting, organized by the International Association for Research in Income and Wealth (IARIW) in Baden, Austria. Their aim was to explore the need for and methodologies of adjusting national accounts for environmental reasons. National accountants had faced mounting criticism that conventional accounting neglected new scarcities in natural capital, as well as the social cost of environmental degradation. The result of their deliberations was a draft manual, later issued by the United Nations Statistics Division (UNSD) as a handbook of Integrated Environmental and Economic Accounting.

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