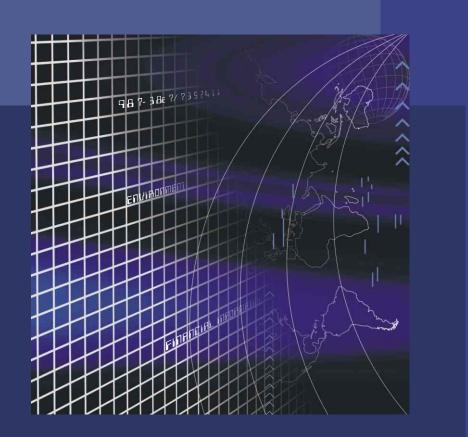
UNITED NATIONS CONFERENCE ON TRADE AND DEVELOPMENT

A Manual for the Preparers and Users of **Eco-efficiency Indicators**





UNITED NATIONS CONFERENCE ON TRADE AND DEVELOPMENT

A Manual for the Preparers and Users of Eco-efficiency Indicators

Version 1.1



United Nations New York and Geneva, 2004

NOTES

UNCTAD serves as the focal point within the United Nations Secretariat for all matters related to foreign direct investment and transnational corporations. In the past, the Programme on Transnational Corporations was carried out by the United Nations Centre on Transnational Corporations (1975-1992) and the Transnational Corporations and Management Division of the United Nations Department of Economic and Social Development (1992-1993). In 1993, the Programme was transferred to the United Nations Conference on Trade and Development. UNCTAD seeks to further the understanding of the nature of transnational corporations and their contribution to development and to create an enabling environment for international investment and enterprise development.

UNCTAD's work is carried out through intergovernmental deliberations, technical assistance activities, seminars, workshops and conferences.

Symbols of United Nations documents are composed of capital letters combined with figures. Mention of such a symbol indicates a reference to a United Nations document.

The designations employed and the presentation of the material in this publication do not imply the expression of any opinion whatsoever on the part of the Secretariat of the United Nations concerning the legal status of any country, territory, city or area, or of its authorities, or concerning the delimitation of its frontiers or boundaries.

Material in this publication may be freely quoted or reprinted, but acknowledgement is requested, together with a reference to the document symbol. A copy of the publication containing the quotation or reprint should be sent to the UNCTAD secretariat and Ellipson.

UNCTAD/ITE/IPC/2003/7

UNITED NATIONS PUBLICATION Sales No. E.04.II.D.13 ISBN 92-1-112620-7

ACKNOWLEDGEMENTS

This publication is the third contribution of UNCTAD and the Intergovernmental Working Group of Experts on International Standards of Accounting and Reporting (ISAR) to the field of environmental accounting. The manual was prepared under the overall direction of Lorraine Ruffing and Con Bartel.

The UNCTAD secretariat would like to thank the World Bank for its funding and the authors, Dr. Andreas Sturm, Kaspar Müller (Ellipson Ltd, Basel, Switzerland) and Suji Upasena (Arrow Consult, Kandy, Sri Lanka).

This manual was vetted by a number of experts from the ISAR steering group, including Christophe Butz (Pictet & Cie), Claude Fussler (WBCSD), Ndung'u Gathinji (ECSAFA), Dr. Udo Hartmann (DaimlerChrysler Ltd), Charles Peter Naish (Ciba Specialty Chemicals Inc), David J. Moore (CICA), Dr. Suphamit Techamontrikul (Chulalongkorn University Bangkok), R. Child Villiers (Nestlé) and Christopher Wells (ABN AMRO).

PREFACE

The United Nations' work on transparency and accountability originated in 1975 when the former UN Commission on Transnational Corporations became concerned about the lack of meaningful disclosure by transnational corporations in their financial statements. It found that the financial information provided by transnational corporations was not reliable, transparent or comparable. In order to promote the harmonization of financial information and meaningful disclosure to all users of financial statements, the Economic and Social Council created the Intergovernmental Working Group of Experts on International Standards of Accounting and Reporting (ISAR).

In 1989 ISAR took up the topic of corporate environmental accounting. The Group soon discovered in its first survey that there were no national accounting standards specific to environmental information disclosure. Furthermore, some CEOs believed that environmental information was not necessary for a true and fair view of the enterprise's performance or that it was too difficult to obtain. To meet this obvious need for guidance, ISAR issued its first recommendations for environmental disclosure in financial statements in 1991.

This guidance was soon followed by intense study and analysis by national standard-setters. In 1998 ISAR revisited the issue of environmental disclosure and expanded its recommendations based on emerging best practices. Its objective in issuing a new guideline - Accounting and Financial Reporting for Environmental Costs and Liabilities - was to ensure that different standard-setters did not adopt different solutions for the same problems.

However, it is clear that the conventional accounting model is not able to assess an enterprise's environmental performance and its impact on financial performance to the degree desired by all stakeholders. This is because the conventional model was developed to provide information only on financial position and performance. However, it is obvious that in the post-Enron era, stakeholders want non-financial information covering the enterprise's environmental and social performance, as well as information on its corporate governance structures and procedures. The environmental world summits in Rio (1992) and Johannesburg (2002) have shown that the business community has become committed to the concept of sustainable development and to improving its environmental performance. On the other hand, various stakeholders are demanding that enterprises report on these improvements. In particular, the financial community is concerned about how environmental performance affects the financial results of an enterprise.

This concern about sustainable development is now complemented in the post-Enron era by corporate concern about "sustainable value" or "sustainable business". To achieve sustainable development, sustainable value or sustainable business, enterprise management must take into account the impact of their performance on their employees, their customers, their suppliers and the community, including its environment. This manual presents the results of ISAR's work to extend the conventional accounting model and to link environmental performance with financial between improved performance. The precise correlation environmental performance of an enterprise and its bottom line is extremely difficult to prove because of the many factors that can affect profits. However, the concept of ecoefficiency, where increased profits are achieved under conditions of declining environmental impact, demonstrates such a link. Despite the practical usefulness of eco-efficiency indicators, their construction and use are highly problematic. This manual presents a method by which environmental and financial performance indicators can be used together to measure an enterprise's progress in attaining eco-efficiency or sustainability. The manual provides detailed explanations and examples for the preparers and users of eco-efficiency indicators so that they can produce internally consistent environmental and financial information, thus improving the quality of environmental reporting and stakeholder satisfaction.

> Rubens Ricupero Secretary-General of UNCTAD

Table of Contents

Note	es		. ii					
Ack	nowle	dgements	iii					
Pref	face		iv					
Abb	revati	ions	xii					
Ι.	Intro	Introduction1						
	I.A.	Overview1						
	I.B.	Rationale for an Accounting Framework for Eco-efficiency Reporting						
		I.B.1. Objectives	. J					
		·····						
		I.B.3. Duty of Users						
		I.B.4. Financial Accounting Framework as a Starting Point	. 4					
Н.	Conceptual Accounting and Reporting Framework for Eco- efficiency Reporting							
	II.A. Introduction to the Framework							
	п.д.							
	II R	The Accounting Framework for Eco-efficiency	7					
	п.р.	II.B.1. Purpose and Status						
		II.B.2. Scope						
		I						
		II.B.3. Users and Their Information Needs	. ð					
	II.C.	II.C. Objectives of Eco-efficiency Indicators						
		II.C.1. Provide Information						
		II.C.2. Improve Decision-Making						
		II.C.3. Complement Financial Statements						
	II.D.	Elements and Items of an Eco-efficiency Statement	. 9					
	IL.E.	II.E. Underlying Assumptions						
		II.E.1. Reporting Entity and the Principle of Congruity						
		II.E.2. Reporting Scope						
		II.E.3. Accrual Basis						
		II.E.4. Going Concern						
	II.F. Qualitative Characteristics							
		II.F.1. Understandability	13					
		II.F.2. Relevance and Materiality						
		II.F.3. Reliability						
		II.F.4. Comparability						
			-					

		II.F.5. II.F.6.		Qualitative Characteristics		
	II.G.	Recogr II.G.1.	nition and M Recognitior	easurement of Items	16	
				nt	16	
III.	Guidelines					
	III.A. General Scope					
	III.B. Accounting Treatment of Water Use					
		III.B.1.	Objective		20	
		III.B.2.	Scope		20	
		III.B.3.				
			III.B.3.a.	General		
			III.B.3.b.	Water Received and its Source		
			III.B.3.c.	Kinds of Water Use		
			III.B.3.d.	Releases of Water		
		III.B.5.		۱		
				nt of Water Use		
			Disclosure	·····		
		III.B./.		Water Use		
			III.B.7.a.	Example of Disclosure of Water Use		
	III.C.	Accour	nting Treatn	nent of Energy Use	29	
			Objective			
		III.C.2.	Scope		29	
		III.C.3.	Definitions		29	
			III.C.3.a.	General Definition of Energy and Energy Use	29	
			III.C.3.b.	Purchase and Sale of Energy		
			III.C.3.c.	Forms and Sources of Energy	30	
			III.C.3.d.	Conversion Factors from Thermal		
			_	Equivalents to Work		
				n of Energy		
		III.C.5.	weasureme	nt of Energy		

预览已结束, 完整报告链接和二维码如下:



https://www.yunbaogao.cn/report/index/report?reportId=5_10536