



TOMORROW'S MARKETS

Global Trends and Their Implications for Business





United Nations **Environment Programme**

Warld Business Council for Sustainable Development







CREDITS

WRI Authors: Don S. Doering, Amy Cassara, Christian Layke, Janet Ranganathan, Carmen Revenga, Dan Tunstall, Wendy Vanasselt

WRI Contributors: Norbert Henninger, Marissa Irwin, Johnathan Kool, Liz Moss

Project Director: Don S. Doering

WBCSD Advisors: Claude Fussler, George Carpenter (Procter & Gamble), Bill Wallace (CH2M Hill)

UNEP Advisors: Jacqueline Aloisi de Larderel, Daniel Puig, Cornis Van der Lugt









ACKNOWLEDGMENTS

The authors are grateful to the following colleagues who provided critical review and other valuable contributions to this publication:

Michel Andrieu (OECD Futures Programme), Matthew Arnold (WRI), Fritz Balkau (UNEP), Mark Bateman (IRRC), Robert Bisset (UNEP), Stefan Bringezu (Wuppertal), Andrew Buchman (WRI), Surya Chandak (UNEP), Nada Chaya (Population Action International), Marion Cheatle (UNEP), Douglas Cogan (Investor Responsibility Research Center), Marc Cohen (IFPRI), Nevin Cohen (eMarketer), Liz Cook (WRI), Ama Dadson (UNEP), Pogo Davis (Conoco), Simeon Djankov (World Bank), John Elkington (SustainAbility Ltd.), Knut Felberg (Directorate for Public Construction and Property, Norway), Al Fry (WBCSD), Julie Fox Gorte (Calvert Group), Tessa Goverse (UNEP), Kirk Hamilton (World Bank), Phil Hay (World Bank), Arend Hoogervorst (UNEP), James Howard (ICFTU), Fran Irwin (WRI), Stephanie Kendall (Hastings Group), Miwako Kurosaka (WRI-Japan), Ji Sun Lee (Columbia University), Patrick Love (OECD Futures Programme), Bill Mahder (International Herald Tribune), Jim MacKenzie (WRI), Sonia Mata (Strategic Insight, LLC), Emily Matthews (WRI), Paul Maycock (PV Energy Systems, Inc.), Kate Menken (Columbia University), Riel Miller (OECD Futures Programme), Becky Milton (WRI), Paul Portney (RFF), Mark Radka (UNEP), Dan Reicher (WRI), Ana Revenga (World Bank), Dawn Rittenhouse (DuPont), Luiz Ros (WRI), Carol Rosen (WRI), Steve Scheuth (First Affirmative Financial Network), Frances Seymour (WRI), Barrie Stevens (OECD Futures Programme), Anne Thiel (WRI), Lloyd Timberlake (Avina), Michael Totten (Conservation International), Pierre Trevet (Innovest), Laura E. Williamson (UNEP), Pieter Winsemius (McKinsey & Company), Stan Wood (IFPRI), and Peter Zollinger (SustainAbility Ltd.).

Tomorrow's Markets is supported by The World Business Council for Sustainable Development, The United Nations Environment Programme and The World Resources Institute. We also gratefully acknowledge additional financial support through the generosity of:

Booz Allen Hamilton, DuPont, Ford Motor Company, International Finance Corporation, Johnson & Johnson, Procter & Gamble, The International Herald Tribune, and UN Foundation.







Environment Programm



Warld Business Council for iustainable Development

TOMORROW'S MARKETS Global Trends and Their Implications for Business





2002

ORDERING PUBLICATIONS

WRI

Hopkins Fulfillment Service PO Box 50370 Baltimore, Md 21211-4370 Tel: (1 410) 516 6959 Fax: (1 410) 516 6998 E-mail: hes.custserv@mail.press.jhu.edu

Publications may be ordered from WRI's secure online store: www.wristore.com

WBCSD

WBCSD, c/o The Sales House Tel: (44 1423) 357 904 Fax: (44 1423) 357 900 E-mail: wbcsd@thesaleshouse.com Publications are available on WBCSD's

website: www.wbcsd.org

UNFP

SMI (Distribution Services) Limited Unit L, Gunnelswood Park Gunnelswood Road Stevenage SG1 2BH Hertfordshire England United Kingdom Tel: (44 1438) 748111 Fax: (44 1438) 748844 E-mail: enquire@smibooks.com

Publications may be ordered from UNEP's online bookshop: www.earthprint.com



Jonathan Lash PRESIDENT World Resources Institute **Partners' Foreword**

ur three organizations ioin with this publication to communicate the trends that are shaping the global business environment. The future's successful companies will be led by people with the vision to combine the case for sustainable growth with personal and social values to create a powerful business case for change and innovation. *Tomorrow's Markets* shows that future growth will be in the competitive space in which winners are those that create value without environmental costs.

The shadows of environmental degradation, poverty, and lack of economic opportunity lie across the regions of the world that are fertile ground for ethnic conflicts, hatred, and violence. The private sector has a more important role than ever before to develop products and practices and to support policies that protect and restore the environment, that eradicate poverty, and that create a fair and transparent society. The challenge of the future is to choose a course that satisfies the market requirements for growth, maintains the natural balance that sustains our economies, and meets the needs and rights of global communities awakening to new dreams of health, prosperity, and peace. Tomorrow's Markets is a call for action and a sign of opportunity for the tremendous creative and innovative capacity of the business community.

Björn Stigson PRESIDENT World Business Council for Sustainable Development

DISCLAIMER

This report is released by WRI, UNEP, and WBCSD and its principal author is WRI. WRI takes responsibility for choosing study topics and guaranteeing its authors and researchers freedom of inquiry. It also solicits and responds to the guidance of advisory panels and expert reviewers. Unless otherwise stated, all the interpretation and findings set forth in WRI publications are those of the authors. Drafts were reviewed by a range of members of WBCSD to ensure that the document broadly provides useful insights to the business community.

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 United Nations Environment Programme, World Resources Institute or World Business Council for Sustainable Development concerning the legal status of any country, territory, city or area or of its authorities, or concerning delimitation of its frontiers or boundaries. Moreover, the views expressed do not necessarily represent the decision or the stated policy of the UNEP, WRI or WBCSD, nor does citing of trade names or commercial processes constitute endorsement.

Publications Director: Hyacinth Billings, WRI Design: Alston Neal, Barbieri & Green, Washington, DC Printer: CifiLaboureur Imprimeur, Paris, France



Photo Credits: Don Doering (pages 3, 33, 36), Molly Hewes (page 60), Andrew Katona (pages 48, 50, 51), Alston Neal (page 42)

Copyright © 2002 World Resources Institute, United Nations Environment Programme, World Business Council for Sustainable Development. All rights reserved.

This publication may be reproduced in whole or in part and in any form for educational or non-profit purposes without special permission from the copyright holders, provided acknowledgement of the source is made. The partner institutions, WRI, UNEP, and WBCSD, would appreciate receiving a copy of any publication that uses this publication as a source.

No use of this publication may be made for resale or for any other commercial purpose whatsoever without prior permission in writing from the copyright holders.

ISBN Number 1-56973-497-6 Library of Congress Control Number 2002101675. Klaus Töpfer EXECUTIVE DIRECTOR United Nations **Environment Programme**



any cases can be made for sustainable development; yet, being a business council, we have worked to define the business case for sustainable development. The business case is an entrepreneurial position. It looks at how business can be more competitive by being more sustainability-driven. It covers themes such as eco-efficiency, the role of global and capital markets, corporate social responsibility, transparency, innovation and technology, sound environmental management, and new partnerships, to name a few.

We live in a world of rapid change and our future is uncertain. Business leaders need to identify the fundamental signals that influence their future success and drive their innovation.

The WRI report, produced in partnership with UNEP, looks beyond daily preoccupations and identifies key trends that shape the business agenda. It does this in a concise and lively format

As encapsulated in its title, we hope the facts and trends presented in this report will help to shape the markets of the future by providing companies with intelligent information to devise better corporate strategies and identify new business opportunities.

ccess to reliable and timely information is increasingly important in our globalised world. For policy-makers and business leaders alike, recognising the trends that shape the marketplace and understanding the reasons behind them are more important than ever.

This is why UNEP is pleased to join forces with the WBCSD and WRI in producing this new publication, which builds on UNEP's Third Global Environment Outlook report to be launched later this year. We have concentrated on making the links between environmental, economic and social trends.

The World Summit on Sustainable Development is fast approaching, and 2002 promises to be a landmark year for environmental protection and poverty alleviation. With increasing interest in new public-private partnerships, the Summit in Johannesburg is expected to address the relationship between industry and the environment, and innovative ways of dealing with complex socio-economic issues.

Sustainable development also makes good business sense. The facts and trends presented in this new publication make it clear that we cannot go on as we have thus far. I hope they will also help business leaders to better understand the inter-relationships between environment and development issues, and therefore respond more effectively to the enormous challenges before us.

Preface by Michael Porter HARVARD BUSINESS SCHOOL

hat is the relationship between corporate strategy and societal issues such as the environment, poverty, health, population, and international development? Business leaders have a tendency to see "social" concerns as having little relevance to competing. Instead, these fall under the headings of corporate citizenship or corporate philanthropy, or are left to managers to address as matters of individual conscience.

It is becoming more and more apparent, however, that treating broader social issues and corporate strategy as separate and distinct has long been unwise, never more so than today. Seeing strategy narrowly leads to missed opportunities and bad competitive choices. It can also cause managers to overlook potential competitive advantages.

The same disconnect between social and corporate is also common among leaders in the social sector. There is a tendency to view firms as adversaries — not as allies in advancing social causes. Yet we are learning that the most effective way to address many of the world's most pressing problems is to mobilize the corporate sector in a context of rules, incentives, and partnerships where both companies and society can benefit.

In modern competition, economic and social policy can and must be integrated. Consider some examples. Controlling pollution and the emission of greenhouse gases is often viewed by firms as a social issue, and resisted as driving up the cost of doing business. Environmentalists, who often believe companies seek to profit from polluting, see their role as

advocating regulations to compel companies to install available abatement technology whatever the cost.

We are learning that the most effective way to address many of the world's most pressing problems is to mobilize the corporate sector where both companies and society can benefit.

Yet virtually all corporate pollution is a sign of economic waste and the unproductive use of resources, and can be addressed with

better technology or improved methods. Forcing companies to install abatement technologies is usually the wrong approach; the better approach is product or process innovation. The same is true with the use of energy, the cause of most greenhouse gas emissions.

Innovative corporate practices in the area of the environment, then, will often enhance internal competitiveness. Products that address environmental scarcities will also have enormous market potential. This means that companies should see environmental protection as an opportunity, while environmentalists need to recognize that progress on environmental improvement will be most rapid if they work cooperatively with companies. Governments in developing countries must understand that strategies of environmental degradation lead to continued poverty, not successful economic development. Similar conclusions apply to other social concerns areas such as racial and ethnic discrimination, worker health and safety, and training. For example, looming labor shortages in advanced nations give companies strong incentives to hire and train minorities, as long as social advocates do not create unnecessary legal and regulatory risks of employing such individuals.

Not only can corporate and social needs be integrated, but the success of the developing world in improving prosperity is of fundamental strategic importance to almost every company. The world economy is not a zero sum game in which one country's success comes at the expense of others. There is enormous potential for growth if many countries can improve in productivity and trade with one another. There are huge unsatisfied human needs to be met in the world, and demand will only increase as more nations become more prosperous.

Social and corporate also come together in the controversial areas of globalization. Social activists, not just companies, have a major stake in the openness and fairness of the international trading system. The evidence is compelling. Compared to local companies in developing countries, foreign companies bring higher environmental standards, pay and treat their workers better, and employ safer workplace practices. If social activists have improving these conditions as their true objectives, they will work with international companies rather than oppose them **Not only can corporate and social needs be integrated, but the success**

The volume provides a fascinating and important foundation of data that will help to highlight and help leaders capitalize on these opportunities. It catalogs the market opportunity in addressing social needs, and the payoff to successful international development. It reveals the competitive advantages and economic benefits of innovations to improve environmental performance and better utilize scarce resources. It highlights the importance of democracy and the role of transparency to achieve such win-win progress.

Both the corporate and the social sectors will need to adopt new mindsets. This book provides an invaluable tool for doing so.

Michael E. Porter is the Bishop William Lawrence University Professor, based at Harvard Business School. A University professorship is the highest professional recognition that can be given to a Harvard faculty member. Professor Porter is a leading authority on competitive strategy and international competitiveness and is the author of 16 books and over 75 articles.

4

er	Not only can corporate and social
	needs be integrated, but the success
	of the developing world in improving
r-	prosperity is of fundamental strategic
to se	importance to almost every company.

People and Tomorrow's Markets

SERVING SOCIETY

	Population Expanding population in developing regions will create large markets dominated by the young.	10
	Wealth Global wealth is rising but the income gap grows wider.	12
	Nutrition Millions are malnourished amidst an abundance of food.	14
•	Health Life expectancy rises, yet preventable disease continues to limit development.	16
	Education Primary education is widespread, but opportunities for learning elude many.	18

Innovation	20
MORE VALUE WITH LESS IMPACT	
Consumption Rising consumption creates environmental risks and business opportunities for innovation.	22
Energy Escalating demand for energy propels economic development but threatens Earth's climate.	24
Emissions Pollution remains a global challenge.	26
Efficiency	28

Throughput still grows even as energy and materials efficiency improves.

Natural Capital	30
PRESERVING THE RESOURCE BASE	
Ecosystems The productive capacity of the planet is in decline.	32
Agriculture Food production is the basis of many economies but threatens the ecosystems upon which it depends.	34
Water Freshwater is growing scarce amidst competing human needs.	36

Connections

DOING BUSINESS IN A NET

- Urbanization Urban growth concentrates business oppo
- Mobility

Humans are more mobile, accelerating the and raising demand for energy and infrast

- Communications Access to information and communication economic opportunity.
- Labor

As economies become service-based, women are a growing part of the formal labor force.

Roles and Responsibilities

- Democracy Democracy spreads, creating improved conditions for marketbased economies.
- Accountability Civil society is demanding greater account
- government and business.

 Privatization

Private sector investment is increasingly fi

Notes

Additional Resources

6 TOMORROW'S MARKETS Global Trends and Their Implications for Business

	38
TWORKED WORLD	
ortunities and societal challenges.	40
ne flow of goods and knowledge structure.	42
n technologies enables	44
	46

ARATE 50 nditions for market-

ntability and transparency from	
<u> </u>	54
financing economic development.	

56

60