



Back to the Future: Working Safely With Hydrocarbons

Video and booklet outlining safety precautions for using hydrocarbons as an efficient, cost-effective replacement for CFCs and HCFCs in refrigeration. Intended for technicians and refrigeration specialists in developing countries.

ⓂⓈ Video, 1999. 20 minutes. Standards: SECAM, PAL, NTSC.

OzonAction Order Code: VDO-5. \$50.

ⓂⓈ Booklet, 2000. 44 pp. ISBN: 92-807-1940-X.

Also in Arabic, Chinese, Russian, Portuguese.

Stock No. OZ-21.

Blends as Refrigerants to Replace CFCs and HCFCs

A basic overview of refrigerant blends, with basic technical information. Lists commercially available blends and tells which ones can replace which ODS refrigerants. Includes sources of additional information.

Information Paper, 1995. 10 pp.

Stock No. REF-3.

Case Studies on Alternatives to Methyl Bromide: Technologies with Low Environmental Impact

18 case studies from around the globe, intended to help in selecting biological and non-chemical alternatives to methyl bromide as part of an integrated pest management system for such crops as peppers, tomatoes, melons, strawberries and cut flowers.

2000. 77 pp. ISBN: 92-807-1764-2.

PDF file at: www.unepdtie.org/ozonaction/library/tech/main.html.

Stock No. MBR-5.



CFC Production and Related Issues

Assesses the needs of ODS-producing developing countries, reviews the outlook for production of CFC substitutes in developed countries and provides a global list of contacts for producers of ODS and ODS substitutes.

Information Paper, updated regularly. 28 pp.

PDF file at: www.unepnie.org/ozonaction/library/tech/main.html.

Stock No. INF-1.

Chillers and Refrigerant Management: Training Manual

Details the steps necessary to develop a strategic plan for a gradual, cost-effective move away from CFCs. Includes basic information on ozone depletion and refrigerants' role in the phenomenon, describes a refrigerant management plan and defines containment and service practice.

Ring binder, 1994. 404 pp. ISBN: 92-807-1469-4.

Stock No. TM2. \$85.

Cyclopentane: A Blowing Agent for Polyurethane Foams for Insulation in Domestic Refrigerator-Freezers

Compares cyclopentane with other alternative foam blowing agents. Discusses availability of cyclopentane systems and equipment, their status in developed countries, safety considerations and costs of converting from CFC-11. Includes literature abstracts and supplier contacts.

Information Paper, updated regularly.

PDF file at: www.unepnie.org/ozonaction/library/tech/main.html.

Stock No. REF-7.



Easing the Transition: Phasing Out Ozone Depleting Substances in Countries with Economies in Transition (CEITs)

Details the CEITs' special circumstances vis-à-vis the Montreal Protocol, reviews progress in bringing the countries into compliance and outlines future challenges.

Booklet, 1999. 15 pp. ISBN: 92-807-1802-9.
Stock No. 02-23.

Education and Training Materials

Citations of manuals, trainers' guides, videos, etc., in the OzonAction Library, consulted by organizations world-wide in conjunction with training activities related to ozone layer protection. Aimed at anyone planning to hold a training event.

Information Paper, 2000. 52 pp.
Stock No. INF-2.

«» Elements for Establishing Policies, Strategies and Institutional Framework for Ozone Layer Protection

Practical guide on national policies and programmes for phasing out ODS, from the very first step — ratification of the Montreal Protocol and its amendments — through the institutional, legislative, fiscal and other measures necessary. For policy makers in developing countries.

1995. 142 pp. ISBN: 92-807-146-78.
Stock No. GB-2. \$45.



Eliminating Dependency on Halons: Self-Help Guide for Low Consuming Countries

How to phase out unnecessary halon use and manage existing stocks for critical use. Follows a seven step process, from raising awareness and setting policies to managing a halon bank and ending halon imports. Includes key guidance from the UNEP Halons Technical Option Committee, sample brochures and slides for workshops. For countries that consume small volumes of halons.

1999. 123 pp. ISBN: 92-807-1783-9.

PDF file at: www.uneptie.org/ozonaction/library/tech/main.html.

Stock No. HAL-1. \$40.

Eliminating Dependency on Halons: Case Studies

Eight examples to inform developing countries about how other countries and organizations have approached and addressed different aspects of halon management.

2000. 70 pp. ISBN: 92-807-1784-7.

PDF file at: www.uneptie.org/ozonaction/library/tech/main.html.

Stock No. HAL-4. \$35.

Five Steps for Raising Awareness on Ozone Depletion: A Handbook for National Ozone Units

Shows ODS officers how to help the public and industry be aware of ozone issues. Includes a five-step planning cycle, with examples of each step. Intended mainly for National Ozone Units in developing countries but useful for anyone wishing to initiate awareness-raising activities on ozone depletion.

1996. 29 pp. ISBN: 92-807-1539-9

Stock No. OZ-27. \$25.



Foam Sector Technology in Use

6 technical case studies on polyurethane (appliance, flexible, block, panel) and phenolic (block) alternatives such as carbon dioxide, HCFC-141b, pentanes and HFC-134a.

1995. 34 pp.

PDF file at: www.uneptie.org/ozonaction/library/tech/main.html.

Stock No. FOA-1.

Glossary of Ozone Protection Terms

Provides a list of common terms used in the ozone protection field. Aimed at improving consistency of terminology used in publications on ozone protection.

Information Paper, 1998. 20 pp.

HTML file at: www.uneptie.org/ozonaction/faq/abc.html.

Stock No. OZ-20.

⑥⑤ Good Practices in Refrigeration: Training Manual

Follows the "train the trainer" approach to equip refrigeration service technicians with the technical knowledge to assist in ODS phase-out for most refrigeration equipment. Aimed at training-institute technical managers and instructors in developing countries.

1994. 435 pp. ISBN: 92-807-1459-7.

Stock No. TM-2. \$80.

⑥⑤ Good Practices in Refrigeration (video)

Highlights steps for servicing refrigeration equipment and emphasizes good business practices such as maintenance, conservation, detection, recovery and recycling. Intended for use at workshops/training courses for service technicians and in the preparation of refrigerant management plans.

Video, 1997. 14 minutes. Standards: SECAM, PAL, NTSC.

Stock No. VDO-2. \$50.



Government Strategies to Phase Out Ozone-Depleting Refrigerants: Four Case Studies from the Nordic Countries

Reviews government and industry experience on phasing out ODS in Denmark, Finland, Norway and Sweden, with examples of refrigerant management approaches combining voluntary and regulatory measures. Includes key features of the national strategy.

Published with SEI, 1997. 36 pp. ISBN: 92-807-1673-5.
Stock No. REF-6.

«» ⓘ Guidebook for Implementation of Codes of Good Practice: Phasing Out ODS in Developing Countries; Refrigeration Sector

How to design and implement codes of good practice for the refrigeration-servicing sector, covering system design, installation, operation, decommissioning and disposal as well as recovery/recycling, retrofitting and refrigerant handling, transport and storage. Explains stakeholder roles.

Also in Arabic.

1998. 78 pp. ISBN: 92-807-1688-3.

PDF files (except Arabic) at: www.unep.org/ozonaction/library/tech/main.html

Stock No. G-B-5. \$75.

ⓘ ⓘ Guidelines for Development of Refrigerant Management Plans

How to prepare RMPs for the refrigeration and air-conditioning sectors. Such plans are particularly well-suited for countries consuming low volumes of ODS. Intended for policy makers at national level.

Information Paper, 1997. 13 pp.

PDF file at: www.unep.org/ozonaction/library/policy/main.html.

Stock No. GB-9.



🌐🌐 Halon Management: Banking for the Future

Introduces the halon banking concept, tells how to obtain recycled halon through halon banks, explains the "essential use" concept and provides contacts for national halon banks.

Booklet, 1994. 8 pp.

PDF file at: www.uneptie.org/ozonaction/library/tech/main.html.

Stock No. HAL-2.

🔍🌐🌐 Handbook on Data Reporting under the Montreal Protocol

Explains the correct data reporting procedures, including those related to Article 7 and Multilateral Fund requirements. Written for National Ozone Units in developing countries but can help with Article 7 data reporting in any country.

Also in Chinese, Russian, Arabic.

Published with the Ozone Secretariat and Multilateral Fund Secretariat, 1999. 116 pp. ISBN: 92-807-1735-9.

Links to PDF files (except Chinese) at: www.uneptie.org/ozonaction/nou/datareport.html.

Stock No. GB-11. \$65.

🌐🌐 Healthy Harvest: Alternatives to Methyl Bromide

A video designed to raise awareness of methyl bromide use, existing and potential alternatives and actions to phase it out under the Montreal Protocol. Alternatives discussed include integrated pest management, solarization, phosphine and diatomaceous earth. For general use.

Video, 1999. 15 minutes. Standards: SECAM, PAL, NTSC.

Stock No. VDO-6. \$50.



How the Hotel and Tourism Industry Can Protect the Ozone Layer

Helps industry decision makers understand the implications of the Montreal Protocol deadlines and effectuate a smooth transition away from ODS. Aimed at both developed and developing countries. Also applicable to shopping centres, sports arenas, etc.

Published with Multilateral Fund, 1998. 54 pp. ISBN: 92-807-1668-9.

PDF file at: www.uneptie.org/ozonaction/library/tech/main.html.

Stock No. GB-6. \$45.

Identifying Alternative Solvents to Protect the Ozone Layer: Case Studies from Around the World

21 case studies documenting elimination of CFC-113 and 1,1,1-trichloroethane from industrial solvent applications at companies in North America, Europe and Asia. Includes the methods employed, the costs of conversion and the applicability of the study to developing countries.

Published with US EPA, 1997. 79 pp. ISBN: 92-807-1650-6.

Stock No. SOL-2.

Industry Initiatives: The Montreal Protocol at Work

195 case studies describing methods, chemicals, technologies, equipment, and "not-in-kind" options that reduce, replace or eliminate ODS.

CD-ROM, 2001. ISBN 92-807-1969-6.

Stock No. OZ-25. \$50.



Inventory of Technical and Institutional Resources for Promoting Methyl Bromide Alternatives

Identifies potential project partners for governments — such as NGO networks and programmes, intergovernmental and bilateral programmes, international research networks — along with organizations, consultants, etc. Entries include contact information, publications, online resources.

1999. 96 pp. ISBN: 92-807-1489-9.

PDF file at: www.uneptie.org/ozonaction/library/tech/main.html.

Stock No. MBR-2.

Making a Good Catch: Non-CFC Technologies in the Fishery Cold Chain

Case studies from France, Greenland, Jamaica, Micronesia, the Philippines, the UK and USA about existing replacement technologies. The applications include a fish processing plant, a conditioning facility, ice plants, harbour cold stores, transport, refrigeration and retail display cases. Includes overviews of refrigeration equipment, alternative refrigerants, and sources of information.

2000. 45 pp. ISBN: 92-807-1976-3.

Stock No. REF-8. \$30.

ⒺⓈ Making Good Decisions: How to Use UNEP DTIE's OzonAction Clearinghouse

Explains how the clearinghouse can support decision making in the selection of ozone-friendly technologies, products and policies. Describes the ODS phase-out process, in which specific information provided by OzonAction supports each step. English, French and Spanish

1997. 25 pp. ISBN: 92-807-1674-3.

PDF files at: www.uneptie.org/ozonaction/library/general/main.html.

Stock No. OZ-17.



«» Maintaining Military Readiness by Managing Ozone Depleting Substances: Guidelines for Armed Forces in Developing Countries

Provides background information and guidance on establishing and implementing programmes to reduce use of ODS in military systems. Designed for armed forces in developing countries.

2000. 54 pp. ISBN: 92-807-1785-5.

PDF file at: www.uneptie.org/ozonaction/library/tech/main.html.

Stock No. GB-13. \$30.

© Methyl Bromide: Getting Ready for the Phase Out

An overview of methyl bromide's impact on the ozone layer, existing and potential alternatives, control measures under the Montreal Protocol and the importance and benefits of ratifying the Copenhagen Amendment.

1998. 31 pp. ISBN: 92-807-1716-2.

PDF file at: www.uneptie.org/ozonaction/library/general/main.html.

Stock No. MBR-1.

Methyl Bromide Phase-Out Strategies: A Global Compilation of Laws and Regulations

An overview of policy options that can be taken in developing national action plans for methyl bromide phase-out. Outlines existing policies in more than 90 countries. Aimed at National Ozone Units, agriculture ministries, pesticide control authorities.

1999. 142 pp. ISBN: 92-807-1783-9.

PDF file at: www.uneptie.org/ozonaction/library/policy/main.html.

Stock No. MBR-4.



© Methyl Bromide Public Service Announcement

A short video to raise public awareness about methyl bromide. Emphasises the importance of making safe, efficient alternatives available. Designed for the general public in countries preparing to phase out methyl bromide under the Montreal Protocol.

Video, 1999. 30 minutes. Standards: SECAM, PAL, NTSC.

MOV file at: www.uneptie.org/ozonaction/library/general/main.html.

Stock No. VDO-4. \$50.

Monitoring Imports of Ozone-Depleting Substances

How to design systems to monitor and control ODS imports. Based on experience in South-east Asia and the Pacific, as well as Sweden. Aimed at government environment officers and customs officials in developing countries.

Published with the Swedish International Development Agency, 1996.

ISBN: 92-807-1622-0.

Stock No. GB-4. \$60.

Montreal Protocol: Celebrating our Success, Renewing our Commitment

Produced to mark the 10th anniversary of the Montreal Protocol. Describes achievements of the global community in ozone layer protection, reviewing initiatives taken after discovery of the ozone hole in 1979. Highlights the need for continued, collective work to meet Montreal Protocol commitments.

Video, 1997. 9.5 minutes. Standards: SECAM (Stock No. 2898),

PAL (Stock No. 2899), NTSC (Stock No. 2900).

Stock No. VDO-3. \$50.



Montreal Protocol Control Schedule and its Evolution, The

Provides schedules for developing and developed countries, dates and places of each amendment and adjustment, and an overview of the evolution of control measures for each group of controlled substances.

Information Paper, 2000. 17 pp.

Stock No. INF-3.

«» ODS Import/Export Licensing Systems: Resource Modules

How to design and establish national import/export licensing systems. Primarily written for government officials.

1. Phasing Out ODS in Developing Countries

Also in Arabic (Stock No. TM5A).

Published with SEI, 1998. 172 pp. ISBN: 92-807-1690-5.

Stock No. GB-10. \$40.

PDF file at: www.uneptie.org/ozonaction/library/reports/main.html.

2. Promoting Compliance with the Trade and Licensing Provisions of the Montreal Protocol in Countries with Economies in Transition

Also in Russian (Stock No. TM5R).

Published with SEI, 1999. 252 pp. ISBN: 92-807-1840-1.

Stock No. GB-12.

© OzonAction

Newsletter with updates on stratospheric ozone protection activities of industry, governments, NGOs and international organizations, with special supplements on issues of particular interest to developing countries (see below).

Also in Arabic, Chinese, Portuguese.

Quarterly. ISSN: 1020-1602.

PDF files in English, French and Spanish at:

www.uneptie.org/ozonaction/library/oan/main.html.

To subscribe, cite Stock No. OZ-5.



Special Supplement No. 1

("Halons", September 1993)

Stock No. OZ-6.

Special Supplement No. 2

("Non-Fluorocarbon Alternatives for Refrigeration", September 1994)

Stock No. OZ-7.

Special Supplement No. 3

("Vienna plus Ten", November 1995)

PDF file at: www.uneptie.org/ozonaction/library/oan/main.html.

Stock No. OZ-8.

Special Supplement "Gearing Up for Phase Out: Methyl Bromide"

(Nov. 1998)

PDF file at: www.uneptie.org/ozonaction/library/oan/main.html.

Stock No. OZ-9.

«» **OzonAction Strategic Information System (OASIS)**

An easy-to-use CD-ROM reference system providing essential resource material related to implementation of the Montreal Protocol. Designed primarily for National Ozone Units, industry associations and enterprises in developing countries.

CD-ROM. 2000. ISBN: 92-807-1528-3.

Stock No. OZ-12. \$100.

© **Patterns of Achievement: Africa and the Montreal Protocol**

Reviews Africa's performance in meeting the freeze on CFC consumption, reducing ODS consumption, etc. Focuses on compliance, national actions, cooperation, technology transfer and awareness raising.

Booklet, 2000. 23 pp. ISBN: 92-807-1971-8.

PDF file at: www.uneptie.org/ozonaction/library/policy/main.html.

Stock No. OZ-24.



©⁺ **Protecting the Ozone Layer**

A technical brochure series based on UNEP Technical Options Committee reports, summarizing the use of ODS in 6 subsectors, the availability of substitutes and the economic implications of conversion. Aimed particularly at National Ozone Units and those in the industries themselves.

Also in Arabic, Chinese (except Vol. 6).

Vol. 1, **Refrigerants**

1992. 40 pp. ISBN: 92-807-1333-7.

Stock No. TB-1.

Vol. 2, **Solvents, Coatings and Adhesives**

1992. 40 pp. ISBN: 92-807-1334-5.

Stock No. TB-2.

Vol. 3, **Fire Extinguishing Substances**

1992. 32 pp. ISBN: 92-807-1350-7.

Stock No. TB-3.

Vol. 4, **Foams**

1992. 32 pp. ISBN: 92-807-1337-X.

Stock No. TB-4.

Vol. 5, **Aerosols, Sterilants, Carbon Tetrachloride and Miscellaneous Uses**

1992. 27 pp. ISBN: 92-807-1356-6.

Stock No. TB-5.

Vol. 6, **Methyl Bromide**

1998. 35 pp. ISBN: 92-807-1718-9.

PDF file at: www.unepdtie.org/ozonation/library/tech/main.html.

Stock No. TB-6.



«» Recovery and Recycling Systems: Guidelines; Phasing out ODS in Developing Countries, Refrigeration Sector

Provides guidance to National Ozone Units and industry on how to design, establish and operate recovery and recycling systems for ozone-depleting refrigerants, and explains the roles of various stakeholders.

1999. 92 pp. ISBN: 92-807-1691-3.

PDF file at: www.uneptie.org/ozonaction/library/reports/main.html.

Stock No. GB-8. \$25.

© Refrigerant Recovery and Recycling

9 case studies on recovering refrigerants for reuse in domestic, commercial, industrial, transport and MAC use. Discusses when to recover, what steps are required, what the critical elements are, how to compare recovery methods and what to measure and record. For technicians in developing countries.

Information Paper, 1995. 63 pp.

Stock No. REF-2.

Regulations to Control Ozone-Depleting Substances: A Guidebook

Overview of structure and strategies in legally binding government directives on ODS. Discusses government guidelines, voluntary agreements, co-operation with industry and with industry associations, economic disincentives and labelling programmes. Designed for officials in developing countries.

Published with SEI, 2000. 363 pp. ISBN: 92-807-1621-2.

PDF file at: www.uneptie.org/ozonaction/library/policy/regs/main.html.

Stock No. GB-1. \$90.



ⓕⓈ Safe Sprays: CFC-Free Aerosols

A video overview of safety considerations in the use of hydrocarbon aerosol propellants as an alternative to CFCs in aerosol sprays. Includes information on handling, transport and storage, tips on what to do in emergencies and examples of enterprises using such propellants. Aimed at small aerosol fillers.

Video, 1999. 15 minutes. Standards: SECAM, PAL, NTSC.
Stock No. VDO-7. \$50.

ⓕⓈ Saving the Ozone Layer: Every Action Counts

Video and booklet on why the ozone layer is threatened, the implications of ozone depletion and how to prevent it, and how developing countries can help. The booklet provides more detail on the science of ozone depletion, in a question-answer format, and includes the script so countries can dub in their own language. Aimed at general audiences.

Video, 1995. 18 minutes. Standards: SECAM, PAL, NTSC.
OzonAction Order Code: VDO-1. \$50.
Booklet, 1996. 48 pp. ISBN: 92-807-1540.
Stock No. OZ-16. \$25.

ⓕⓈ Saving the Ozone Layer: Guidelines for United Nations Offices

Practical steps on phasing out use of ODS on UN premises, e.g. identifying equipment containing ODS, choosing the phase-out method, minimizing ODS loss during phase-out and ensuring that new equipment is ODS-free. Includes examples from UNEP Headquarters in Nairobi. Useful for any office-type building.

1997. 23 pp. ISBN: 92-807-1540.
PDF file at: www.unepdtie.org/ozonaction/library/tech/main.html.
Stock No. GB-5.



Sourcebooks of Technologies for Protecting the Ozone Layer

A series providing sources of technologies, equipment and products that reduce or eliminate ODS in selected subsectors. Designed to help developing countries select appropriate technical options.

1996.

Aerosols, Sterilants, Miscellaneous Uses and Carbon Tetrachloride

304 pp. ISBN: 92-807-1585-2.

Stock No. ARS-4. \$85.

Flexible and Rigid Foams

376 pp. ISBN: 92-807-1430-9.

Stock No. FOA-2. \$85.

Specialized Solvent Uses

136 pp. ISBN: 92-807-1588-7.

Stock No. SOL-1. \$100.

«» Study on the Potential for Hydrocarbon Replacements in Existing Domestic and Small Commercial Refrigeration Appliances

Comprises a desk survey, technical research, country field experiences and workshop results to help developing countries weigh the positive and negative aspects of retrofitting CFC-using equipment. Aimed at decision makers.

1999. 368 pp. ISBN: 92-807-1765-0.

PDF file at: www.uneptie.org/ozonaction/library/tech/main.html.

Stock No. REF-4. \$100.



Successful Conversion to Non-ODS Refrigeration: The New Zealand Experience

Technical case studies describing a cold store conversion to R507 and a farm vat refrigerant replacement. Includes summaries and contact information.

Information Paper, 1995. 19 pp.

PDF file at: www.unep.org/ozonaction/library/tech/main.html.

Stock No. REF-1.

Technology to Protect the Ozone Layer: Case Studies from the Japanese Experience

Documents the experience of 19 companies and industry associations in converting to non-ODS technologies for metal cleaning, precision cleaning, refrigeration, polyurethane foam, aerosol propellants and fire extinguishing. Includes economic benefits and advantages of the new technology.

Published with JICOP, 1997. 48 pp.

Stock No. SOL-3.

© Towards Methyl Bromide Phase Out: A Handbook for National Ozone Units

Presents options and actions through diagrams, decision trees, illustrations and checklists. Includes examples of some countries' activities and approaches. Designed to help developing countries elaborate strategies and action plans and promote adoption of alternatives.

1999. 37 pp. ISBN: 92-807-1734-0.

PDF file at: www.unep.org/ozonaction/library/tech/main.html.

Stock No. MBR-3.

Pollution Prevention and Management

Case Studies on Tailings Management

See Mining, p. 82.

Cleaner Production in Pulp and Paper Mills: A Training Resource Package

See Cleaner Production, p. 29.

Environmental Management in Industrial Estates in China

Examines the evolution of industrial zones in China during transition from central planning to a market system. Discusses opportunities for moving towards sustainable development. Based on a study by the Environmental Planning Institute of China Research Academy of Environmental Sciences.

Background paper, 2001. 96 pp. ISBN: 92-807-1997-1.
Stock No. 2896. \$20.

Environmental Management in Oil and Gas Exploration and Production: An Overview of Issues and Management Approaches

(Technical Review 37)

An overview of the environmental issues and the best approaches to achieving high environmental performance in the industry in worldwide. Describes management systems, practices, technologies and procedures to prevent or minimize impact.

Published with E&P Forum, 1997. 68 pp. ISBN: 92-807-1639-5.
Stock No. PM35. \$40.



Environmental Management in the Brewing Industry

(Technical Report 33)

Discusses EIA, water discharges, air emissions, solid waste, chemical handling, occupational health and safety, measurement of resource consumption, EMS development, with an overview of regulatory systems and how to assess and implement cleaner production options.

1996. 106 pp. ISBN: 92-807-1523-2.

Stock No. PM23. \$40.

Environmental Management in the Electronics Industry: Semiconductor Manufacture and Assembly

(Technical Report 23)

Highlights ways the industry and governments could avoid or minimize the industry's environmental impact. Underlines the need to address environmental impacts at the design stage. Includes a discussion of health hazards.

Published with UNIDO, 1994. 161 pp. ISBN: 92-807-1410-3.

Stock No. PM21. \$35.

Environmental Management in the Pulp and Paper Industry

(Technical Report 34)

Outlines the potential to improve environmental performance in large and small mills worldwide. Covers water and air pollution, resource use, solid waste and use of chemicals, with approaches such as cleaner production, waste management, chemical safety and occupational health.

1996. 232 pp. ISBN: 92-807-1589-5.

Stock No. PM32. \$60.



Environmental Management of Industrial Estates, The

(Technical Report 39)

Describes impacts on water, air, habitats, farmland and coastal fisheries, as well as waste issues. Includes ways for industrial parks to develop environmental performance objectives, define responsibilities and provide appropriate environmental services.

1997. 138 pp. ISBN: 92-807-165-2.

Stock No. PM34. \$60.

Environmental Management of Nickel Production: A Technical Guide

See Mining, p. 83.

Fertilizer Industry, World Food Supplies and the Environment, The

Examines fertilizer manufacture, distribution and use, in an effort to promote better-informed dialogue concerning fertilizers and their environmental implications.

Published with IFA, 1998. 66 p. ISBN: 2-9506299-2-X.

PDF file available; see Web site referred to below.

Available from IFA, 28 rue Marbeuf, 75008 Paris, France,

Tel: +33 1 53 93 05 00, Fax: +33 1 53 93 05 45/47,

Email: publications@fertilizer.org,

Internet: www.fertilizer.org.

Guide to Tailings Dams and Impoundments, A/ Guide des Barrages et Retenues de Stériles

See Mining, p. 84.



Industry & Environment Emission Standards & Guidelines Information Clearinghouse (IE-ESGIC)

Set of working papers on establishing environmental standards and guidelines for effluents and emissions as an important first step for countries concerned about regulating industrial activities as part of a pollution control strategy.

Vol. I, ***Textile Industry Effluent Discharge Standards***

Vol. II, ***Pulp & Paper Industry Effluent Discharge Standards***

Vol. IIIa, ***Iron & Steel Industry Air Emission Standards***

Vol. IIIb, ***Iron & Steel Industry Effluent Discharge Standards***

1996. 452 pp.

Stock No. PM27. \$90 per set.

Industry and Environment

Environmental management of industrial estates

1996. Vol. 19, No. 4.

Mining and sustainable development

1997. Vol. 20, No. 4.

Mining and sustainable development II: Challenges and perspectives

2000. Vol. 23, special issue.

See Overviews, p. 92.

Mineral Fertilizer Distribution and the Environment

Demonstrates environmental aspects of fertilizer distribution and describes its complexities. Intended to raise awareness of a crucial link in the development of globally sustainable agriculture. Includes case studies.

Published with IFA, 2000. 106 pp. ISBN: 2-9506299-4-6.

PDF file available; see Web site referred to below.

Available from IFA, 28 rue Marbeuf, 75008 Paris, France,

Tel: +33 1 53 93 05 00, Fax: +33 1 53 93 05 45/47,

Email: publications@fertilizer.org, Internet: www.fertilizer.org.



«» Mineral Fertilizer Production and the Environment

(Technical Report 26, Part 1 and Part 2)

An awareness-raising tool, in two volumes: *The Fertilizer Industry's Manufacturing Processes and Environmental Issues*, and *Environmental Management Systems*. Especially for countries where the industry is new or where action is needed to correct past practices.

Published with UNIDO and IFA, 1998. 140 pp. ISBN: 92-807-1640-9.
Stock No. PM31. \$40.

Mineral Fertilizer Use and the Environment

Analyzes arguments against the use of mineral fertilizers, concluding that most accusations are unfounded but that efficiency of fertilizer use needs improvement. Not intended as a scientific document, but aims to be technically correct.

Published with IFA, 2000. 51 pp. ISBN: 2-9506299-3-8.

PDF file available; see Web site referred to below.

Available from IFA, 28 rue Marbeuf, 75008 Paris, France,
Tel: +33 1 53 93 05 00, Fax: +33 1 53 93 05 45/47,
Email: publications@fertilizer.org, Internet: www.fertilizer.org.

Mine Rehabilitation for Environment and Health Protection: A Training Manual

See Mining, p. 85.



«» Monitoring Industrial Emissions and Wastes

(Technical Report 27)

How to optimize raw material and energy use by verifying that discharges and emissions conform with permit conditions and/or do not cause undue damage to receiving environments. Treats audits and monitoring as part of an overall management system. Relevant to most industries.

Published with UNIDO, 1996. 131 pp. ISBN: 92-807-1434-1.

Stock No. PM29. \$40.

Older Gasoline Vehicles in Developing Countries and Economies in Transition: Their Importance and the Policy Options for Addressing Them

See Transport, p. 148.

Phasing Lead Out of Gasoline: An Examination of Policy Approaches in Different Countries

See Energy, p. 58.

«» Recyclage des batteries plomb-acide et environnement

(Rapport technique 14)

Destiné aux décideurs, le rapport présente des options technologiques et de gestion visant à diminuer les impacts des procédés de recyclage sur l'environnement, y compris les options technologiques, les meilleures pratiques, la gestion de l'environnement et de la sécurité.

Available in French only.

1999. 165 pp. ISBN: 92-807-1715-4.

Stock No. PM40. \$40.



«» Steel Industry and the Environment: Technical and Management Issues

(Technical Report 38)

Overview of current and best practices to prevent pollution in steel making processes. Reports on the latest pollution control equipment and explains how by-products can be efficiently reprocessed. Includes examples from steel companies worldwide.

Published with IISI, 1997. 155 pp. ISBN: 92-807-1651-4.
Stock No. PM33. \$70.

«» Textile Industry and the Environment, The

(Technical Report 16)

Overview of the industry plus ways to prevent pollution and conserve raw materials through cleaner production at conception and during operations. Reviews factors in good environmental performance, particularly as regards wet processing, as well as the policy and legal framework.

1994. 120 pp. ISBN: 92-807-1367-1.
Stock No. PM18. \$35.



Technology

Aerosol Conversion Technology

See Ozone Layer Protection, p. 96.

«» Anticipating the Environmental Effects of Technology: A Primer and Workbook

Introduces the concept of technology as a concern for human health and safety and the environment, and offers aid in coming to grips with that concern. Directed at senior people in government and business and in organizations concerned with technology.

Spiral-bound paperback, 1995. 216 pp.
Stock No. TA2. Price: \$24.

Avoiding a Double Phase Out: Alternative Technologies to HCFCs in Refrigeration and Air Conditioning

See Ozone Layer Protection, p. 96.

Case Studies on Alternatives to Methyl Bromide: Technologies with Low Environmental Impact

See Ozone Layer Protection, p. 97.

Councillor as Guardian of the Environment, The: A Training Handbook for Elected Leadership on How to Utilize Environmentally Sound Technologies

See Management Systems and Tools, p. 74.

Environmentally Sound Management of Lake Erhai and Xier River Basin

See Water, p. 160.

Environmental Risk Assessment for Sustainable Cities

See Management Systems and Tools, p. 78.

Foam Sector Technology in Use

See Ozone Layer Protection, p. 101.

IETC's Insight

Newsletter on activities of the International Environmental Technology Centre and on developments in the EST field.

3 times yearly.

HTML and PDF files at: www.unep.or.jp/ietc/Publications/index.asp.

To request a hard copy, E-mail ietc@unep.or.jp or write the IETC (address on p. 191).

International Source Book on Environmentally Sound Technologies for Municipal Solid Waste Management

See Waste, p. 156.



maESTro

A database providing information on ESTs for the management of cities and freshwater resources, as well as on institutions and other information resources. Regularly updated by IETC and EST contributors.

Available as diskette or CD-ROM (send E-mail request to maestro@unep.or.jp or write to the IETC at the address on p. X) and on-line at www.unep.or.jp/ietc/database/maestro_intro.asp.

«» Methodological and Technological Issues in Technology Transfer

Describes how governments can facilitate and enhance transfer of ESTs, especially those related to GHGs. Also of use to decision makers in the private sector, lending institutions, multilateral agencies, NGOs and the public.

Published with IPCC and WMO, 2000. 466 pp. ISBN: 05-218-0494-9.

HTML and PDF files at: www.grida.no/climate/ipcc/tectran and www.ipcc.ch/pub/SPM_SRTT.pdf.
Stock No. 2640. \$35.

Natural Selection: Evolving Choices for Renewable Energy Technology and Policy

See Energy, p. 57.

«» Oil Industry Experience, The: Technology Cooperation and Capacity Building - Contribution to Agenda 21

Case studies from around the world. Describe industry initiatives contributing to sustainable development by improving national economies and local communities' quality of life via technology cooperation and capacity building while boosting the companies' long-term business success.

Published with IPIECA, 1995. 65 pp. ISBN: 92-807-1522-4.

Stock No. GM5. \$7.

Planning and Management of Lakes and Reservoirs: An Integrated Approach to Eutrophication

Also available: Technical Publication Series 12, Abridged Version: A Students' Guide

See Water, p. 161.

Proceedings

- ▶ **Environmental Technology Assessment in Sub-Saharan Africa:** A UNEP EnTA Leadership Training Programme (IETC Report Series 3). 1998. \$15.
- ▶ **International Shiga Forum on Technology for Water Management in the 21st Century** (IETC Report Series 4). 1998. \$50.
- ▶ **International Regional Conference on Environmental Technologies for Waste water Management** (IETC Report Series 7). 1999. \$50.
- ▶ **Transfer and Implementation of Environmentally Sound Technologies (ESTs) for Water Quality Management in the Mekong River Basin:** Regional Consultation with Stakeholders to Identify Needs and Action (IETC Report Series 8). 2001. \$20.
- ▶ **Workshop on Adopting, Applying and Operating Environmentally Sound Technologies for Domestic and Industrial Wastewater Treatment for the Wider Caribbean Region** (IETC Report Series 5). 1999. \$50.

Sourcebook of Alternative Technologies for Freshwater Augmentation

- A. **Africa**, 182pp.
- B. **East and Central Europe**, 247 pp.
- C. **Latin America and the Caribbean**, 125 pp.
- D. **Small Island Developing States**, 173 pp.
- E. **Some Asian Countries**, 223 pp.

See Water, p. 162.



Sourcebooks of Technologies for Protecting the Ozone Layer

Aerosols, Sterilants, Miscellaneous Uses and Carbon Tetrachloride

Flexible and Rigid Foams

Specialized Solvent Uses

See Ozone Layer Protection, p. 113.

Survey of Currently Available Non-incineration PCB Destruction Technologies

See Chemicals, p. 24.

Technology Needs for Lake Management in Indonesia, Case Studies: Lakes Rawa Danau and Rawa Pening, Java

See Water, p. 163.

Technology to Protect the Ozone Layer: Case Studies from the Japanese Experience

See Ozone Layer Protection, p. 114.

Training Needs in Utilising Environmental Technology Assessment (ETA) for Decision-making: A Preliminary Study to Strengthen Capabilities in Managing Environmentally Sound Technologies

See Management Systems and Tools, p. 80.

Trenchless Technology Systems: An Environmentally Sound Approach for Underground Services

(IETC Urban Environment Series 1)

An introductory guide for decision makers on trenchless technology, an environmentally sound approach to installing, rehabilitating and repairing underground utilities with minimum disruption of ground surface, streets and traffic.

2001. 8 pp.

Stock No. 2895. \$5.

UNEP Survey of Information Systems Related to Environmentally Sound Technologies: Contribution to the 1997 Session of the Commission on Sustainable Development

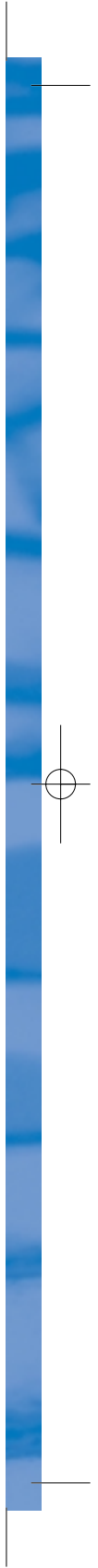
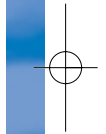
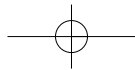
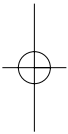
Results of an extensive survey (1994-96) to identify and characterize existing and planned information systems and sources of ESTs worldwide. Aimed at decision makers working towards adopting technological solutions.

Published with INFOTERRA, 1996. 238 pp. ISBN: 92-807-1502-X.

Stock No. 1945. \$40.

Workbooks for Training

- ▶ Adopting, Applying and Operating Environmentally Sound Technologies: A Pilot Programme (IETC Report Series 1). 1997. \$50.
- ▶ Adopting, Applying and Operating Environmentally Sound Technologies: Regional Workshop (IETC Report Series 6). 1999. \$50.
- ▶ Environmental Technology Assessment for Decision-makers: A Pilot Programme (IETC Technical Publication Series 5). 1997. \$40.





Tourism

«» Awards for Improving the Coastal Environment: The Example of the Blue Flag

Describes one model of how to integrate tourism and coastal environment concerns. Details the development of the European Blue Flag programme and its criteria, discusses the lessons learnt and highlights possible stumbling blocks.

Published with World Tourism Organization and Foundation for Environmental Education in Europe, 1997. 50 pp. ISBN: 92-807-1625-5.
Stock No. T6. \$30.

«» Ecolabels in the Tourism Industry

Examines the role of ecolabels as part of voluntary self-regulation in the industry and seeks to help those applying for ecolabels to better understand how they work. Describes the key elements in making a tourism ecolabel effective, credible and efficient.

1998. 52 pp. ISBN: 92-807-1708-1.
Stock No. T9. \$45.

«» Environmental Action Pack for Hotels: Practical Steps to Benefit Your Business and the Environment

(Technical Report 31)

Helps hoteliers respond to the Agenda 21 call to make environmental management a high corporate priority. Provides practical information, check lists and examples in areas such as self-auditing, dealing with contractors and suppliers, and monitoring progress.

Spiral-bound paperback, published with IHRA and International Hotels Environment Initiative, 1995. 64 pp. ISBN: 18-991-5010-0.
Stock No. T5. \$40.

«» Environmental Codes of Conduct for Tourism

(Technical Report No. 29)

Summarizes the status of tourism industry codes and provides guidance on how best to frame new ones.

1995. 69 pp. ISBN: 92-807-1470-8.
Stock No. T4. \$30.

«» Environmental Good Practice in Hotels: Case Studies from the International Hotel & Restaurant Association Award

15 case studies selected from applications over 1992-95 for this award, judged in recent years by UNEP-DTIE. Covers independent hotels as well as international chains. Highlights environmental and economic benefits.

Published with IHRA, 1997. ISBN: 92-807-1623-9.
Stock No. T7. \$50.

«» ⑤ Guidelines: Development of National Parks and Protected Areas for Tourism

(Technical Report 13)

A practical look at how tourism can be an integral part of sustainable stewardship of protected areas. Aimed especially at developing countries that need tourism to cover the costs of nature protection.

Published with the World Tourism Organization, 1992. 53 pp.
ISBN: 92-844-0026-0.
Stock No. T2F. \$30.

How the Hotel and Tourism Industry Can Protect the Ozone Layer

See Ozone Layer Protection, p. 104.



TOURISM

Tourism Focus

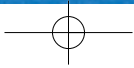
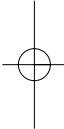
Newsletter covering developments in the field of sustainable tourism as well as activities of the UNEP DTIE tourism programme.

Twice yearly.

Appears as an insert in Industry and Environment (see p. 92).

PDF files at: www.uneptie.org/tourism/library/newsletter.htm.

catalogue
2002



Code of Ethics on the International Trade in Chemicals

See Chemicals, p. 17.

🌐🌐 Environment and Trade: A Handbook

Crosby, A. (co-ord.) and Petrik, J. (ed.)

How trade affects natural resource use and pollution, how and why international environmental agreements use trade measures, whether trade and effective environmental regulation can coexist, and how trade and environment issues can affect developing countries. Aimed at general readers.

Published for UNEP by IISD, 2000. 84 pp. ISBN: 18-955-3621-9.

PDF file at: www.earthprint.com/unep/download/2555.pdf.

Stock No. 2555 (Eng.), 2945 (French), 2828 (Spanish). \$20.

↔ Environmental Impacts of Trade Liberalization and Policies for the Sustainable Management of Natural Resources: Country Studies

Results of joint projects conceived, designed and conducted by national experts to identify environmental impacts of trade liberalisation and propose how to manage them sustainably using economic instruments. PDF files exist for some of the studies (see individual titles).

1999. ISBN: 92-807-1786-3.

\$15 each.

Bangladesh's Shrimp Farming Industry

Makes a simple cost-benefit analysis of this export-oriented industry to assess its environmental impact and elaborates a policy package for sustainable shrimp



farming integrating environmental concerns and trade expansion objectives.

44 pp.

www.earthprint.com/unep/download/2397.pdf.

Stock No. 2397.

Chile's Mining Sector

Provides insights into how tariff reductions and changes in the FDI regulatory framework ultimately affected air and water quality, water use and biodiversity.

79 pp.

www.earthprint.com/unep/download/2401.pdf.

Stock No. 2401.

India's Automobile Sector

Focuses on economic reforms, development needs and the environment, and designing market-based instruments for vehicular pollution abatement. 156 pp.

www.unep.ch/etv/etp/acts/capbld/rdone/india.htm.

Stock No. 2645.

Romania's Water Sector

Focuses on environmental and distributional implications. Proposes a way to assess the costs and benefits of trade liberalization and strategic management response, and discusses economic instruments to address current water pricing mechanism shortcomings. 95pp.

Stock No. 2646.

Uganda's Fisheries Sector

Identifies three main concerns: water pollution by fish processing and other manufacturing; overfishing and related use of unconventional fishing methods, including poison; and insufficient quality standards. Proposes command-and-control measures and economic instruments. 69 pp.

www.earthprint.com/unep/download/2400.pdf.

Stock No. 2400.



Philippines' Forestry Sector

(full title: *Economic Instruments for the Sustainable Management of Natural Resources: A Case Study on the Philippines' Forestry Sector*)

Reports results of a joint project by UNEP, REECS, EEPSEA and UPLB on the Mt. Makiling Forest Reserve, focusing on capacity building for environment-development integration and economic instruments for such concerns as watershed protection and biodiversity. 93 pp.

www.earthprint.com/unesp/download/2402.pdf.

Stock No. 2402.

See also **Trade Liberalisation and the Environment**, below.

Fisheries Subsidies, Overfishing and Trade

See Fishing, p. 72.

«» Global Product Chains: Northern Consumers, Southern Producers and Sustainability

(Environment and Trade Monograph 15)

Von Moltke, K. *et al.*

Examines whether Northern environmental concerns create obstacles or opportunities for Southern producers, in the context of how changes in production and consumption patterns affect trade. Includes case studies and incorporates feedback from an on-line conference.

1998. 303 pp. ISBN: 92-807-1757-X.

Stock No. 2048. \$30.

Information Bulletin

The newsletter of the UNEP DTIE Economics and Trade Branch.

See Economics, p. 52.



Monitoring Imports of Ozone-Depleting Substances

See Ozone Layer Protection, p. 107.

ODS Import/Export Licensing Systems: Resource Modules

1 Phasing Out ODS in Developing Countries

2 Promoting Compliance with the Trade and Licensing Provisions of the Montreal Protocol in Countries with Economies in Transition

See Ozone Layer Protection, p. 108.

«» Policy Effectiveness and Multilateral Environmental Agreements

(Environment and Trade Monograph 17)

Vaughan, S. and Dehlavi, A.

Examines how to determine MEAs' effectiveness as regards trade-induced environmental degradation, in the context of recent discussions in the WTO, OECD, UNCTAD, etc.

1998. 172 pp. ISSN: 1020-1610.

Stock No. 2191. \$30.

Reference Manual for the Integrated Assessment of Trade-Related Policies

How to develop a methodology for integrated economic, environmental and social assessment. Aims to enhance decision makers' understanding of trade-related policies' potential environmental effects and facilitate negotiation, formulation and implementation of trade policies and agreements.

2001. 105 pp.

Stock No. 2949. \$25.



TRADE

«» Role of Science in the Uruguay Round and NAFTA Trade Disciplines, The

(Environment and Trade Monograph 8)

Wirth, D.A.

Examines the increasingly important role of science in the structure and operation of international trade agreements. Highlights issues raised by the emphasis on scientific validity in the Uruguay Round and the North American Free Trade Agreement.

1994. 68 pp. ISSN: 1020-1610.

Stock No. 1341. \$30.

«» Trade Liberalisation and the Environment: Lessons Learned from Bangladesh, Chile, India, Philippines, Romania and Uganda (Synthesis Report)

Review of the country sectoral studies listed above under *Environmental Impacts of Trade Liberalization and Policies for the Sustainable Management of Natural Resources*.

1999. 88 pp. ISBN: 92-807-1786-3.

www.earthprint.com/unep/download/2403.pdf.

Stock No. 2403. \$15.

«» Trade Related Environmental Measures in the Field of Biotechnology

(Environment and Trade Monograph 14)

Ingrassia, A.

Illustrates how safety requirements intended to protect the environment and/or human health from potential adverse effects of biotechnology products can sometimes constitute trade restrictions. Also looks at how such requirements might interact with the GATT/WTO system.

1997. 51 pp. ISSN: 1010-20.

Stock No. 2047. \$30.



Training

Chemical Risk Assessment: Training Module No. 3

See Chemicals, p. 16.

Chillers and Refrigerant Management: Training Manual

See Ozone Layer Protection, p. 98.

Cleaner Production: A Training Resource Package

See Cleaner Production, p. 28.

Cleaner Production in Pulp and Paper Mills: A Training Resource Package

See Cleaner Production, p. 29.

Councillor as Guardian of the Environment, The: A Training Handbook for Elected Leadership on How to Utilize Environmentally Sound Technologies

See Management Systems and Tools, p. 74.

Education and Training Materials

See Ozone Layer Protection, p. 99.

Environmental Impact Assessment Training Resource Manual

See Management Systems and Tools, p. 76.

Environmental Management System Handbook

See Management Systems and Tools, p. 77.

Environmental Management System Training Resource Kit

See Management Systems and Tools, p. 77.

Good Practices in Refrigeration: Training Manual

See Ozone Layer Protection, p. 101.

Good Practices in Refrigeration (video)

See Ozone Layer Protection, p. 101.

Industry Environmental Compliance: Training Manual

See Cleaner Production, p. 34.

Integrated Environmental and Economic Accounting: An Operational Manual

See Economics, p. 53.



TRAINING

Landfill of Hazardous Industrial Wastes: A Training Manual

See Waste, p. 156.

Mine Rehabilitation for Environment and Health Protection: A Training Manual

See Mining, p. 85.

Proceedings: Environmental Technology Assessment in Sub-Saharan Africa

See Technology, p. 127.

Technical Workbook on Environmental Management Tools for Decision Analysis

See Management Systems and Tools, p. 79.

Training Needs in Utilising Environmental Technology Assessment (ETA) for Decision-making: A Preliminary Study to Strengthen Capabilities in Managing Environmentally Sound Technologies

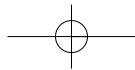
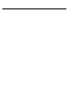
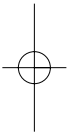
See Management Systems and Tools, p. 80.

Urban Environmental Management: Environmental Management System Training Resource Kit

See Urban Issues, p. 153.

Workbooks for Training

- ▶ Adopting, Applying and Operating Environmentally Sound Technologies:
A Pilot Programme
- ▶ Adopting, Applying and Operating Environmentally Sound Technologies:
Regional Workshop
- ▶ Environmental Technology Assessment for Decision-makers: A Pilot Programme
See Technology, p. 129.





Transport

APELL for Port Areas

See Disaster Prevention and Response, p. 45.

Energy Savings in the Transport Sector

See Energy, p. 56.

Global Opportunities for Reducing the Use of Leaded Gasoline

See Chemicals, p. 18.

Industry and Environment

Sustainable mobility

2000. Vol. 23, No. 4.

See Overviews, p. 92.

«» Older Gasoline Vehicles in Developing Countries and Economies in Transition: Their Importance and the Policy Options for Addressing Them

Helps in selecting the best options for controlling emissions from old vehicles and offers an opportunity to compare the strategies and experiences of other countries via examples and case studies. Aimed at policy makers.

Published with OECD, 1999. 38 pp. ISBN: 92-807-1796-9.

PDF file at: www.unep.it/energy/act/tp/oldveh/index.htm.

Stock No. 2431. \$30.

Phasing Lead Out of Gasoline: An Examination of Policy Approaches in Different Countries

See Energy, p. 58.

«» TransAPELL: Guidance for Dangerous Goods Transport Emergency Planning in a Local Community

(Technical Report 35)

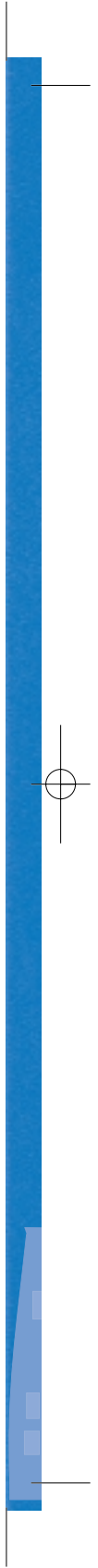
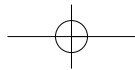
Intended to help raise awareness and understanding of dangerous goods transport, show emergency planning groups how to identify and evaluate hazards and guide local officials in developing, testing, training for and evaluating community emergency preparedness plans.

Published with Swedish Rescue Services Agency, 2000. 68 pp.

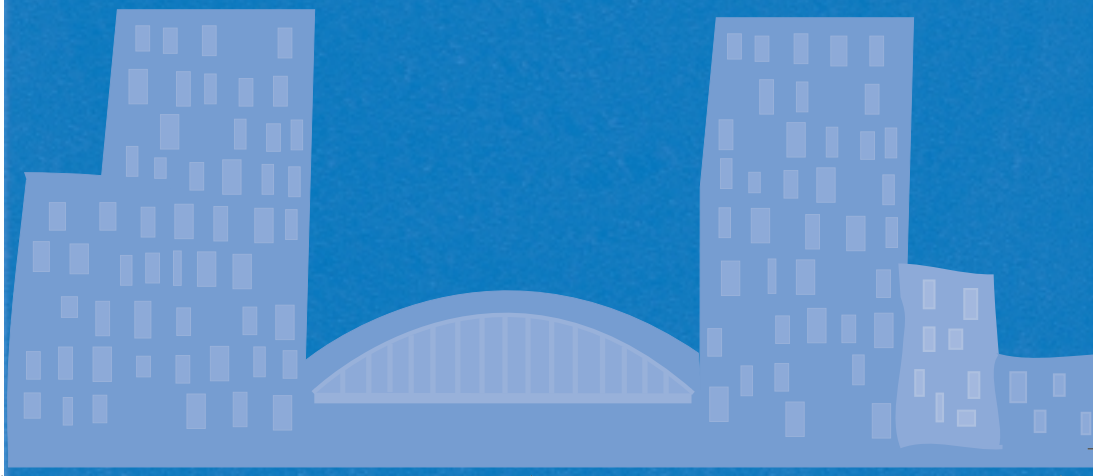
ISBN: 92-807-1907-6.

PDF file at: www.unepdtie.org/pc/apell/publications/publications.html.

Stock No. 2679. \$50.



Urban Issues



Childhood Lead Poisoning: Information for Advocacy and Action

See Chemicals, p. 17.

Councillor as Guardian of the Environment, The: A Training Handbook for Elected Leadership on How to Utilize Environmentally Sound Technologies

See Management Systems and Tools, p. 74.

Environmental Risk Assessment for Sustainable Cities

See Management Systems and Tools, p. 78.

IETC's Insight

Newsletter.

See Technology, p. 125.

Industry and Environment

Urban environmental management

2000. Vol. 23, No. 1-2.

See Overviews, p. 92.

**International Source Book on Environmentally Sound Technologies
for Municipal Solid Waste Management**

See Waste, p. 156.

**Proceedings of the International Symposium on Efficient Water Use
in Urban Areas: Innovative Ways of Finding Water for Cities**

(IETC Report Series 9). 2000. \$50.

Proceedings: Principles of Municipal Solid Waste Management

See Waste, p. 157.

**Trenchless Technology Systems: An Environmentally Sound Approach for
Underground Services**

See Technology, p. 129.

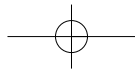
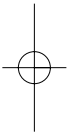
**«» Urban Environmental Management: Environmental Management
System Training Resource Kit**

A "train the trainer" kit to aid in EMS development and implementation at local level. Based on ISO 14001 requirements. Includes modules on water, transport, tourism, etc.; fact sheets, case studies and exercises. For trainers, city managers and any one interested in promoting EMS for local government.

Published with ICLEI and FIDIC, 2001. 2 binders 630 pp. each.

ISBN: 92-807-2054-6.

Stock No. 2894. \$400 including postage.





Waste

Industry and Environment

Promoting waste recycling – Part I

Promoting waste recycling – Part II

1994. Vol. 17, No. 2 and 3.

See Overviews, p. 92.

«» International Source Book on Environmentally Sound Technologies for Municipal Solid Waste Management

(IETC Technical Publication Series 6)

Information sources, selected technologies and analysis of sound practices, to aid strategic planning by officials, NGOs and community organizations in developing countries and those with economies in transition.

1996. 427 pp. ISBN: 92-807-1503-8.

Available at: www.unep.or.jp/ietc/ESTdir/pub/MSW/index.asp.

Stock No. 1894. \$60.

«» © Landfill of Hazardous Industrial Wastes: A Training Manual

(Technical Report 17)

Analyzes landfill problems and options, and reviews technical information. Includes case studies and problem-solving exercises, describes a model training workshop and offers resources on how to run a waste survey. For waste management trainers and professionals.

1994. 315 pp. ISBN: 92-807-1384-1.

Stock No. PM19. \$100.

Order Spanish version from ROLAC, Boulevard de los Virreyes No. 155, Col. Lomas Virreyes, Apartado Postal 10793, 11000 Mexico, D. F. Mexico.
Tel: 52 2 202 7529/ 7493, Fax: 52 2 202 09 50.

Monitoring Industrial Emissions and Wastes

See Pollution Prevention and Management, p. 121.

Proceedings

► **Earthquake Waste Symposium**, Osaka 12-13 June 1995 (IETC Technical Publication Series 2). Also in Japanese. 1996. \$40.

► **Principles of Municipal Solid Waste Management: Proceedings of a Seminar** (IETC Report Series 2). 1998. \$60.

Recyclage des batteries plomb-acide et environnement

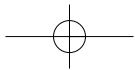
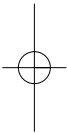
See Pollution Prevention and Management, p. 122.

Survey of Currently Available Non-incineration PCB Destruction Technologies

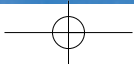
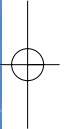
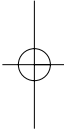
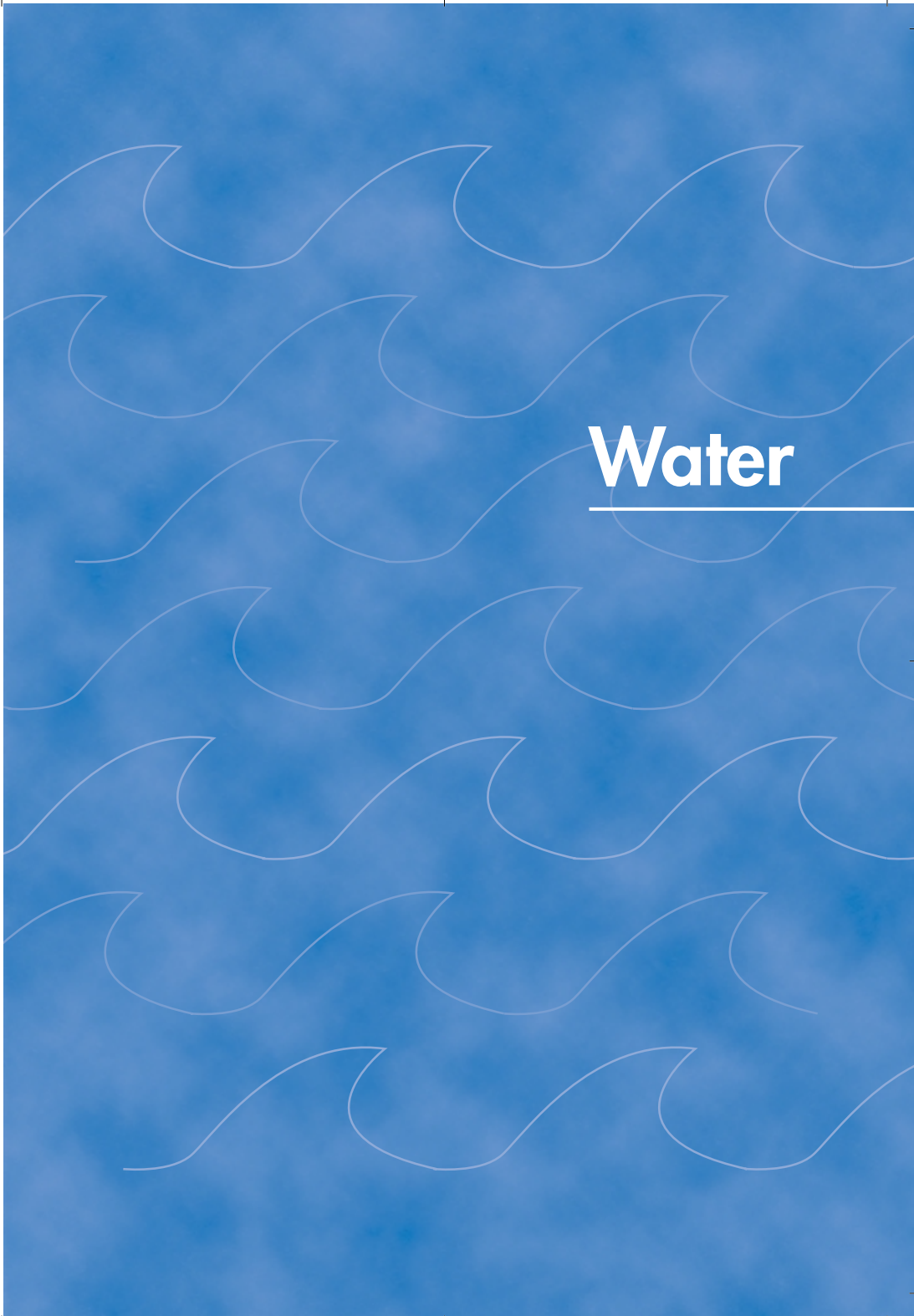
See Chemicals, p. 24.

Technical Guidelines on Wastes Comprising or Containing PCBs, PCTs, and PBBs

See Chemicals, p. 25.



Water



«» Environmentally Sound Management of Lake Erhai and Xier River Basin

(IETC Technical Publication Series 10)

An integrated report of an environmental planning programme carried out in Lake Erhai and Xier River Basin in China under UNEP-IETC auspices and a successful pilot-scale project for development of environmental infrastructure, led by UNDP.

Also in Chinese.

2000. 258 pp. ISBN: 92-807-1509-7.

Stock No. 2893. \$50.

IETC's Insight

Newsletter

See Technology, p. 125.

«» Lakes and Reservoirs: Similarities, Differences and Importance

(IETC Short Report Series 1)

A look at the characteristics of these types of water bodies, identifying their social and environmental values as well as providing information on ways to prevent their degradation.

Also in Japanese.

Booklet, published with ILEC and Environment Agency of Japan, 2000. 24 pp.

ISBN: 49-063-5627-3.

Stock No. 2892.

«» Planning and Management of Lakes and Reservoirs: An Integrated Approach to Eutrophication

(IETC Technical Publication Series 11)

Experts in freshwater resource management from around the world discuss societal factors in, causes of and prevention methods for eutrophication.

1999. 375 pp. ISBN: 92-807-1819-3.

HTML file at: www.unep.or.jp/ietc/Publications/TechPublications/TechPub-11.

Stock No. 2429. \$80.

Also available: Technical Publication Series 12, Abridged Version: A Students' Guide

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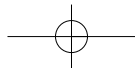
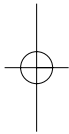
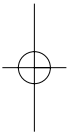
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Forthcoming publications

Chemicals

International Activities Related to Chemicals (3rd Edition)

Surveys the roles and responsibilities of chemicals-related legal instruments and international organizations. Includes information on the mandates involved, major provisions or activities, decision-making bodies, related agreements and activities, administration, and contact information.

Cleaner Production

Changing Production Patterns: Learning from the Experience of NCPCs

Describes the experience of UNIDO/UNEP National Cleaner Production Centres. Provides guidance to future NCPCs and to any institution that might like to open a Cleaner Production Centre.

Government Policies and Strategies for Cleaner Production

Revised and updated version of this key information and guidance document.

Guide for Investing in Cleaner Production

A primer with country-specific supplements on Guatemala, Nicaragua, Tanzania, Vietnam and Zimbabwe to serve as a framework and source of information on cleaner production investment related issues. Targeted to financiers.

International Declaration on Cleaner Production, The:

- Implementation Guidelines for Governments
- Implementation Guidelines for Companies
- Implementation Guidelines for Facilitating Organizations

Each volume gives a detailed analysis of UNEP's International Declaration on Cleaner Production and provides guidelines for implementing it. Specific implementation measures for governments, for companies and for facilitating organizations are suggested.

UNEP/UNIDO Guidance: How to Establish and Operate a CP Centre

A reference document on establishing and running a Cleaner Production Centre.



Finance

Meeting Reports. Business Case for Sustainability Performance, The: The Financial Sector in Asia-Pacific. Manila (Philippines), 5-6 April 2001.

Business Case for Sustainability Performance and Foreign Direct

Investment, The: Creating a Sustainability Dynamic - The Financial Sector in Latin America/Caribbean. UN ECLAC/UNEP FI Double Roundtable. Santiago (Chile), 26-27 November 2001.

Energy

Inventory of Sustainable Energy Funds

Compiles and describes over 100 global energy funds. Prepared jointly by UNEP Energy and the UNEP Finance Initiatives and the Basel Agency for Sustainable Energy. Provides an inventory of funding sources for projects in the sustainable energy field, in tabular format.

Managing Technological Change

Explanatory summary of the IPCC Report *Methodological and Technological issues in Technology Transfer*.

Technology Without Borders: Case Studies for Successful Technology Transfer

Lessons learnt globally.

Transport and the Global Environment: Accounting for GHG Reductions in Policy Analysis

Guidelines on analyzing the GHG emission implications of various transport options, with detailed case studies.

Engaging Stakeholders

Sustainable Entrepreneurship: Key Issues

Draws on the reports in *The Way Forward* (see below) and multi-stakeholder consultations to present a consolidated description of the key sustainability concerns arising from industrial development, both at regional and global levels.

Sustainable Entrepreneurship: The Way Forward

A series of 25 sectoral reports on progress by industry towards sustainable development in the last ten years. The reports, prepared by international industry sector associations, follow a common framework developed by UNEP, which includes a section on policy-relevant priorities for future action.



Mining

Best Practices for Environmental Management in Mining

Training modules.

Environmental Aspects of Fertilizer Mining Operations

Explores a variety of approaches and techniques used by the fertilizer raw material mining industry in response to environmental challenges.

Management Systems and Tools

Environmental Management for Industrial Estates: A Resources and Training Kit

Provides experts and trainers with the information and tools they need to carry out training and awareness-raising activities to develop environmental management for industrial estates. Builds on the successful Technical Report 39.

Ozone Layer Protection

Crop Manual on Alternatives to Methyl Bromide for Cut Flowers

Provides practical information on how to adopt alternatives for cut flowers, with a focus on options that have been identified in demonstration projects and can form part of integrated pest management systems. User-friendly, with a simple, pictorial approach. Can be used as part of training and investment projects in promoting the further adoption of alternatives for cut flowers. To be translated into French and Spanish.

Customs Officer Training on Substances Depleting the Ozone Layer: Training Manual

Provides practical guidance to National Ozone Units, implementing agencies and customs trainers on how to organize and conduct "Train the Trainer" and subsequent training for customs officers. Includes generic agendas, concept notes and evaluation questionnaires, as well as all relevant training materials and overheads. Focuses on identification of ODS and ODS-containing mixtures and products, equipment based on ODS, and various smuggling schemes. Should be used in conjunction with the individual country handbooks on ODS Legislation and Import/Export Licensing Systems, describing the national legislation and operational details of licensing systems.

Guide to Establishing and Operating a Stratospheric Ozone Protection Clearinghouse

Guidelines for NOUs wishing to establish and operate their own information clearinghouses on ozone layer protection.

Handbook on the Practical Use of Policy Instruments

Practical guidance to help developing countries formulate and implement legal, administrative, economic and other mechanisms necessary to phase out ODS and meet their compliance targets under the Montreal Protocol.

***How Small and Medium-sized Enterprises in Developing Countries Can Protect the Ozone Layer***

Details technologies in the refrigeration/air-conditioning, foam, aerosol and solvent sectors. Provides guidance to SMEs in developing countries on identifying steps towards achieving ODS phase-out in their sectors. Includes information on assistance available from the Multilateral Fund of the Montreal Protocol.

National Training Programmes on Good Practices in Refrigeration

Training module on how to design, prepare and deliver training programmes on good practices in the refrigeration-servicing sector, which can significantly reduce the emission of ozone-depleting refrigerants. As part of refrigerant management plans, such training programmes target service technicians who install, commission, service, maintain, repair, retrofit or decommission refrigeration and air-conditioning systems.

Sourcebook of Technologies for Protecting the Ozone Layer: Methyl Bromide

Contains critical technical descriptions of the full range of methyl bromide alternatives, data on cost and efficacy, and advantages and disadvantages of each option. Extensive tables, reference lists and annexes provide practical information, including names and addresses of experts and of vendors of products and services related to methyl bromide alternatives. Aimed at enabling methyl bromide users to weigh the options thoroughly.

Two Challenges, One Solution: Case Studies for Technologies that Protect the Ozone Layer and Mitigate Climate Change

15 fact sheets summarizing the experience of companies that have undertaken integrated environmental projects to protect the ozone layer and climate at the same time. Drawn from the refrigeration, foam and aerosol sectors.

Training Manual on Methyl Bromide Alternatives.

Outlines alternatives to methyl bromide as part of integrated pest management systems and focuses on how they can be adopted to meet local farmers' needs. Can be used by extension workers promoting the adoption of methyl bromide alternatives. Results from joint efforts by UNEP and FAO.

Technology***EnTA Handbook***

Guidelines on environmental technology assessment, in CD-ROM format.



FORTHCOMING PUBLICATIONS

Tourism

Ecotourism: Principles, Practices and Policies for Sustainability

Reviews the current status of and trends in ecotourism globally, the challenges ahead and the lessons learned in over 15 years of ecotourism development involving a broad range of stakeholders. Incorporates comments and suggestions from academics, NGO representatives and intergovernmental agencies such as the World Tourism Organization, the IUCN and UNEP. A preparatory document for the 2002 World Ecotourism Summit in Quebec.

Promoting Sustainable Tourism with Local Agenda 21

Looks at how tourism has been taken into account in Agenda 21 programmes drawn up and implemented by local authorities. Based partly on a study of hands-on experience by local communities that are involved to varying degrees in tourism activity and have adopted a local Agenda 21 approach.

Renewable Energies for the Tourism Industry

Provides the latest information on mature and reliable renewable energy technologies that can help tourism businesses improve service, contribute to environmental conservation and generate benefits for local communities. An easy-to-understand handbook to help small and medium-sized tourism businesses negotiate with suppliers and make informed decisions on which applications and suppliers to use.

Trade

Fisheries Subsidies and Overfishing: Toward a Structured Discussion

Aims at providing the basis for a structured approach to the next phase of international discussions of fisheries subsidies and sustainable fisheries management. Environment and Trade Monograph 18.

Social, Economic and Environmental Impacts of Mechanisms of Support to Senegalese Fisheries

Analyses the effects that support mechanisms have had on the Senegalese fishing industry.

Abbreviations

AIST	National Institute of Advanced Industrial Science and Technology (Japan)
ANPA	Italian Agency for Environmental Protection
APEC	Asia Pacific Economic Cooperation
APPELL	Awareness and Preparedness for Emergencies at Local Level
APRPC	Asia-Pacific Roundtable for Cleaner Production
CEIT	country with economy in transition
CEO	chief executive officer
CER	corporate environmental report(ing)
CFC	chlorofluorocarbon
CML	Centre of Environmental Science, Leiden University, Netherlands
CP	cleaner production
DHA	UN Department of Humanitarian Affairs (now Office for Coordination of Humanitarian Affairs)
DME	dimethylether, an alternative aerosol propellant
DTIE	UNEP Division of Technology, Industry and Economics
Ecomed	Agency for the Sustainable Development of the Mediterranean (Rome)
EEPSEA	Economy and Environment Program for Southeast Asia
EIA	environmental impact assessment
EMS	environmental management system
EnRA	environmental risk assessment
EnTA	environmental technology assessment (see ETA)

E&P Forum	Oil Industry International Exploration and Production Forum (now International Association of Oil and Gas Producers)
EST	environmentally sound technology
ETA	environmental technology assessment
FAO	Food and Agriculture Organization
FDI	foreign direct investment
FIDIC	International Federation of Consulting Engineers
GATT	General Agreement on Tariffs and Trade (now World Trade Organization)
GEF	Global Environment Facility
GHG	greenhouse gas
HCFC	hydrochlorofluorocarbon
HFC	hydrofluorocarbon
HTML	hypertext markup language
ICC	International Chamber of Commerce
ICLEI	International Council for Local Environmental Initiatives
ICME	International Council on Metals and the Environment
ICOLD	International Commission on Large Dams
IETC	International Environmental Technology Centre
IFA	International Fertilizer Industry Association
IFCS	Intergovernmental Forum on Chemical Safety
IHRA	International Hotel & Restaurant Association
IISD	International Institute for Sustainable Development
IISI	International Iron and Steel Institute
ILEC	International Lake Environment Committee

INC	Intergovernmental Negotiating Committee for an International Legally Binding Instrument for Implementing International Action on Certain POPs
IPCC	Intergovernmental Panel on Climate Change
IPCS	International Programme on Chemical Safety
IPIECA	International Petroleum Industry Environmental Conservation Association
IPM	integrated pest management
ISBN	International Standard Book Number
ISO	International Organization for Standardization
ISSN	International Standard Serial Number
JICOP	Japan Industrial Conference for Ozone Layer Protection
LCA	life cycle assessment
MAC	mobile air-conditioning
NEDO	New Energy and Industrial Technology Development Organization (Japan)
NGO	non-governmental organization
OECD	Organisation for Economic Co-operation and Development
ODS	ozone-depleting substance
OPRC	International Convention on Oil Pollution Preparedness, Response and Cooperation
PBBs	polybrominated biphenyls
PCBs	polychlorinated biphenyls
PCTs	polychlorinated terphenyls
PDF	portable document format
POP	persistant organic compound

PRTR	pollutant release and transfer register
PTS	persistant toxic substance(s)
REECS	Resources, Environment & Economics Centre for Studies, Inc. (consulting firm)
ROE	UNEP Regional Office for Europe
ROLAC	UNEP Regional Office for Latin American Countries
RMP	refrigerant management plan
SADC	Southern African Development Community
SBC	Secretariat of the Basel Convention
SEI	Stockholm Environment Institute
UNCHS	United Nations Centre for Human Settlements (Habitat)
UNCTAD	UN Conference on Trade and Development
UNDP	UN Development Programme
UNEP	UN Environment Programme
UNIDO	UN Industrial Development Organization
UNESCO	UN Educational, Scientific and Cultural Organization
UNITAR	UN Institute for Training and Research
UNICEF	UN Children's Fund
UNSD	UN Statistics Division
UPLB	University of the Philippines, Los Baños
US EPA	United States Environmental Protection Agency
WBCSD	World Business Council for Sustainable Development
WHO	World Health Organization
WMO	World Meteorological Organization

About the UNEP Division of Technology, Industry and Economics

The mission of the UNEP Division of Technology, Industry and Economics is to help decision-makers in government, local authorities, and industry develop and adopt policies and practices that:

- ▶ are cleaner and safer;
- ▶ make efficient use of natural resources;
- ▶ ensure adequate management of chemicals;
- ▶ incorporate environmental costs;
- ▶ reduce pollution and risks for humans and the environment.

The UNEP Division of Technology, Industry and Economics (UNEP DTIE), with the Division Office in Paris, is composed of one centre and four units:

The International Environmental Technology Centre (Osaka), which promotes the adoption and use of environmentally sound technologies with a focus on the environmental management of cities and freshwater basins, in developing countries and countries in transition.

Production and Consumption (Paris), which fosters the development of cleaner and safer production and consumption patterns that lead to increased efficiency in the use of natural resources and reductions in pollution.

Chemicals (Geneva), which promotes sustainable development by catalyzing global actions and building national capacities for the sound management of chemicals and the improvement of chemical safety world-wide, with a priority on persistent organic pollutants (POPs) and prior informed consent (PIC, jointly with FAO).

Energy and OzonAction (Paris), which supports the phase-out of ozone-depleting substances in developing countries and countries with economies in transition, and promotes good management practices and use of energy, with a focus on atmospheric effects. The UNEP/Risø Collaborating Centre on Energy and Environment in Roskilde, Denmark, supports the work of the Branch.

Economics and Trade (Geneva), which promotes the use and application of assessment and incentive tools for environmental policy and helps improve the understanding of linkages between trade and environment and the role of financial institutions in promoting sustainable development.

UNEP TIE activities focus on raising awareness, improving the transfer of information, building capacity, fostering technology cooperation, partnerships and transfer, improving understanding of environmental impacts of trade issues, promoting integration of environmental considerations into economic policies, and catalyzing global chemical safety.

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