

Harbor Project

Industrial Ecology, Pollution Prevention,
and the New York/New Jersey Harbor



Resources

Industrial Ecology

Full Accounting

Industrial ecology has a simple ambition: Treat consumer society as an ecosystem. Then benefits will accrue to both the environment and the bottom line by Reid J. Lifset, published in *The Sciences* (May/June 2000)

Journal of Industrial Ecology:

A must for those working or interested in industrial ecology. While a subscription is needed for full access, several articles from each issue are made available on the site.

International Society for Industrial Ecology:

Out of Yale University's School of Forestry and Environmental Studies, and excellent site for understanding IE methodology and its applications. Provides information on conferences, publications, and resources, as well as job opportunities in the field of IE.

Earth Engineering Center:

Columbia University. Provides information on projects utilizing the IE methodology.

Indigo Development:

A research and consulting organization that creates systems for sustainable development through the use of industrial ecology. Contains information on IE and its applications.

Articles on Industrial Ecology

Provided by AT&T, a helpful collection of articles by Braden Allenby on industrial ecology.

Pollution Prevention and Industrial Ecology

Industrial Ecology Compendium

 [References on Initiatives to Achieve Environmental Policy Objectives \(PDF 13K\)](#)

NY/NJ Harbor

Baykeeper

A citizen conservation advocacy organization for the Hudson/Raritan Estuary's waterways and shores, the site provides information on events, conservation efforts, legislation, action alerts, and more.

Clean Ocean and Shore Trust (COAST)

A bipartisan, bistate Legislative Committee aimed at maximizing the ecological, economic, and scenic resources of the Hudson-Raritan Estuary and New York Bight, from Montauk Point, Long Island to Cape May, New Jersey. Check out the Virtual Estuary and Vortex for research relevant to these areas.

[Contamination Reduction Assessment & Reduction Project \(CARP\)](#)

Under the NY/NJ Harbor Estuary Program, CARP is aimed at understanding the fate and transport of contaminants being discharged into the estuary.

[Harbor Estuary Program](#)

A National Estuary Program authorized in 1987 by the U.S. Environmental Protection Agency, the site provides information on all aspects of the program and its goals.

[NJ DEP](#)

New Jersey Department of Environmental Protection. Information on various environmental issues in New Jersey. Search under NY/NJ Harbor for items of relevance to the Harbor.

[NY DEC](#)

New York Department of Environmental Conservation. Information on various environmental issues in New York State. Search under NY Harbor for items of relevance to the Harbor.

[NYC DEP](#)

New York City Department of Environmental Protection. Includes information on various activities that affect the NY/NJ Harbor.

[PANYNJ](#)

Port Authority of NY&NJ, Port Commerce Department's site. Provides a wealth of information related to economic and transportation activities in the Harbor.

[Raritan Basin Watershed Management Project](#)

A project of NJ DEP, the site includes information on all aspects of the initiative.

[The River Project \(TRP\)](#)

Founded in 1986, TRP is dedicated to protection and restoration of the Hudson River ecosystem through scientific research and environmental education. TRP has also established an experimental facility at Pier 26 on Manhattan's lower west side to help restore an ecologically stressed habitat along the Manhattan shoreline.

[U.S. EPA Region 2](#)

EPA's regional site for New York, New Jersey, Puerto Rico, the U.S. Virgin Islands and seven tribal nations. Search under NY/NJ Harbor for items of relevance.

[Waterwire](#)

An online newsletter of the Metropolitan Waterfront Alliance with information on projects, research, events, educational and advocacy initiatives related to the NY/NJ waterfront.

Pollution Prevention

[About Pollution Prevention](#)

From EPA Region 2, a helpful overview of pollution prevention practices, activities, and policies geared toward different audiences.

[The Pollution Prevention Information Clearinghouse](#)

The PPIC is a free, nonregulatory service of the U.S EPA dedicated to reducing or eliminating industrial pollutants through technology transfer, education, and public awareness.

[National Pollution Prevention Roundtable](#)

A membership-based roundtable aimed at promoting pollution prevention. Includes information on workgroups, conferences and events, and policies related to pollution prevention.

[Great Lakes Regional Pollution Prevention Roundtable](#)

Regional group of the NPPR

[New Ideas in Pollution Regulation](#)

From the World Bank, a series of articles and other information related to sustainable development and pollution prevention.

[The Minnesota Sustainable Communities Network](#)

The Minnesota Sustainable Communities Network recognize that a transition to a more sustainable society is needed in order to leave a healthy natural environment, a prosperous economy, and vibrant communities for future generations. This network includes many individuals and organizations throughout the state working toward sustainability in areas as diverse as agriculture, waste management, energy, manufacturing, retail, urban planning, economic development, policy, housing, forestry, education, land use, and transportation.

[Pollution Online](#)

Pollution Online is geared toward the pollution control industry. It provides updated indicators to monitor changes in environmental conditions, information for companies to assess whether they are meeting EHS regulatory and management system requirements. It also reviews state-of-the-art technologies and products, suppliers, and expert advice.

Mercury

[Articles on Mercury](#)

U.S. EPA Software for Environmental Awareness. Includes dozens of articles relevant to mercury, from definitions and descriptions of key words and concepts to advisories and legislation.

[Binational Toxics Strategy Mercury Workgroup](#)

Provides comprehensive information on mercury, including the impact on human health and wildlife, sources, and uses of mercury. An excellent site for mercury regulations and for scientific papers on all aspects of the metal.

[Mercury Pollution Prevention in Healthcare](#)

Developed under the auspices of the National Wildlife Federation, this report details a number of issues related to pollution prevention of mercury.

[Mercury Study Report to Congress](#)

A December 1997 Report to Congress that offers a comprehensive view into the issues surrounding mercury.

Cadmium

 [2001 Update of Ambient Water Quality Criteria for Cadmium \(PDF 625K\)](#)

 [The OECD Nickel-Cadmium Battery Recycling Program \(PDF\)](#)

 Informinc.org

The report "Calling All Cell Phones: Collection, Reuse, and Recycling Programs in the United States" addresses four key current programs to collect, refurbish, and recycle used cell phones.

 [Theoretical Calculation of Product Contents: Battery and Cathode Ray Tube Examples](#) (PDF 145K)

 [Toward Intelligent Recycling: A Proposal to Link Bar Codes to Recycling Information](#) (PDF 763K)

Other Cadmium References

Lankey, Rebecca. Materials Management and Recycling for Nickel-Cadmium Batteries, PhD Thesis, Carnegie Mellon University, Department of Civil Environment Engineering, August 1998 (available from Carnegie Mellon University website).

Linden, D. & T.B. Reddy, Eds. 2002. **Handbook of Batteries, 3rd ed.** McGraw-Hill: New York.

Pistoia, G., J.P. Wiaux & S.P. Wolsky, Eds. 2001. Used Battery Collection and Recycling. In **Industrial Chemistry Library**, Volume 10, Elsevier, Amsterdam, The Netherlands.

Saar, Steven & Thomas, Valerie. 2002. Towards Trash That Thinks: Product Tags for Environmental Management. **Journal of Industrial Ecology**. MIT Press. 6(2): 133-146.

U.S. EPA, Characterization of Products Containing Lead and Cadmium in Municipal Solid Waste in the United States, 1970 to 2000; prepared for the U.S. EPA Municipal Solid Waste Program by Franklyn Associates, Ltd., Prairie Village, KS, January 1989, Report No. EPA/530-SW-98-015A

Other Toxicants

[U.S. EPA Region 5](#)

Provides information on lead, air toxicants (including mercury), cleaning solvents, PCB's, and more.

[Toxics Release Inventory](#)

Published by U.S. EPA, a source of information regarding toxic chemicals. In addition to health effects and legal levels, provides state by state data for selected toxic chemicals.

Other Sources of Interest

[Aquatic Research and Environmental Assessment Center \(AREAC\)](#)

Brooklyn College, CUNY. Information and research links related to basic and applied studies of aquatic organisms and the environments they inhabit. AREAC's areas of research include biomedical research, aquaculture, environment/ecology, and fisheries biology.

[Earth Pledge](#)

The Earth Pledge organization seeks to identify and promote innovative techniques and technologies that restore the balance between human and natural systems. Through demonstration, education, and research, their goal is to deliver viable models to government, industry, and communities. New York region is used as a laboratory for implementing replicable solutions that will inspire and facilitate a global transition to sustainability.

[The Earth Institute](#)

Columbia University's Earth Institute brings together resources from throughout the university to address complex issues facing the planet and its inhabitants, with particular focus on sustainable development

and the needs of the world's poor. The Earth Institute is motivated by the belief that science and technological tools already exist, and could be expanded, to greatly improve conditions for the world's poor while preserving the natural systems that support life on Earth.

[INFORM, Inc.](#)

Inform is an independent research organization that examines the effects of business practices on the environment and on human health. It promotes waste prevention and design of less wasteful products.

[International Society for Ecological Economics](#)

A nonprofit, member-governed organization dedicated to advancing understanding of the relationships among ecological, social, and economic systems for the mutual well-being of nature and people. Provides links to articles and several institutions working on ecological economics.

[Marine Conservation Biology Institute](#)

Information on activities and events affecting the marine environment, as well as articles on various topics of interest.

[New Jersey Sustainable State Institute](#)

NJSSI is an independent, nonprofit institute providing balanced information, analysis, and practical strategies to help New Jersey develop on a sustainable path. The Institute began operations in June 2002 and is jointly affiliated with two leading state schools, the New Jersey Institute of Technology in Newark and Rutgers, The State University of New Jersey in New Brunswick.

[Resources for the Future](#)

Provides information on several environmental and pollution related issues.

[Society of Environmental Toxicology and Chemistry](#)

Offers information on a number of toxicological and chemical concerns and methodologies, including fate and effects modeling and life cycle assessments.

[Sustainable Development Research Institute \(SDRI\)](#)

Out of the University of British Columbia, SDRI fosters research on sustainable development. The site offers links to research projects and papers.

[WRI](#)

Environmental research and policy organization that creates solutions to protect the planet and improve people's lives.