



CH1203 Industrial Pollution Prevention and Control

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Topics Covered

- 1 Sustainability
- 2 Environmental Regulations
- 3 Pollution
- 4 Air pollution control methods
- 5 Principles of water treatment



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Topics Covered

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Environmental Regulations

- Pollution prevention versus pollution control
 - Environmental policies and regulations
 - Regulations for clean environment
 - Environmental friendly chemical processes
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Environmental Regulations – Indian Context



Ministry of Environment, Forest and Climate Change
Government of India

Skip to Main Content | Screen Reader Access | A | A | A | हिन्दी

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Search MOEF

Go



Home	About the Ministry	Divisions	Project Approvals	Rules and Regulations	Public Information	Tenders and Advertisements	Major Initiatives	Fellowships and Awards	Contact the Ministry
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Home > Divisions > Control of Pollution (CP) > Rules and Regulations

Division

- Administration
- Right to Information
- Animal Welfare (AW)
- Budget and Accounts (BA)
- Civil Construction Unit (CCU)
- Clean Technology (CT)
- Climate Change (CC)
- Control of Pollution (CP)
- Conservation and Survey (CS)
- Desertification
- Economic Cell

Water Pollution

The Water (Prevention and Control of Pollution) Act was enacted in 1974 to provide for the prevention and control of water pollution, and for the maintaining or restoring of wholesomeness of water in the country. The Act was amended in 1988. The Water (Prevention and Control of Pollution) Cess Act was enacted in 1977, to provide for the levy and collection of a cess on water consumed by persons operating and carrying on certain types of industrial activities. This cess is collected with a view to augment the resources of the Central Board and the State Boards for the prevention and control of water pollution constituted under the Water (Prevention and Control of Pollution) Act, 1974. The Act was last amended in 2003.

Acts

- › No.36 of 1977, [7/12/1977] - The Water (Prevention and Control of Pollution) Cess Act, 1977, amended 1992
- › No. 19 of 2003, [17/3/2003] - The Water (Prevention and Control of Pollution) Cess (Amendment) Act, 2003
- › No.6 of 1974, [23/3/1974] - The Water (Prevention and Control of Pollution) Act, 1974, amended 1988

Rules

- › G.S.R.860(E), [30/11/2012] - The Central Pollution Control Board (Qualifications and other Terms and Conditions of Service of Chairman) (Amendment)

Environmental Regulations – *Indian Context*

Various Environmental Laws in India

Indian Forest Act, 1927

Wildlife Protection Act of 1972

Water (Prevention and Control of Pollution), 1974

Forest Conservation Act, 1980

Air (Prevention and Control of Pollution) Act, 1982

Environment (Protection) Act, 1986

Hazardous waste Handling and management act, 1989

Public Liability Insurance Act, 1991

Protection of Plant Varieties and Farmers' Rights Act of 2001

Biological Diversity Act, 2002

Wild Life (Protection) Amendment Act, 2002

The Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006

National Green Tribunal Act, 2010

Noise Pollution Act

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2

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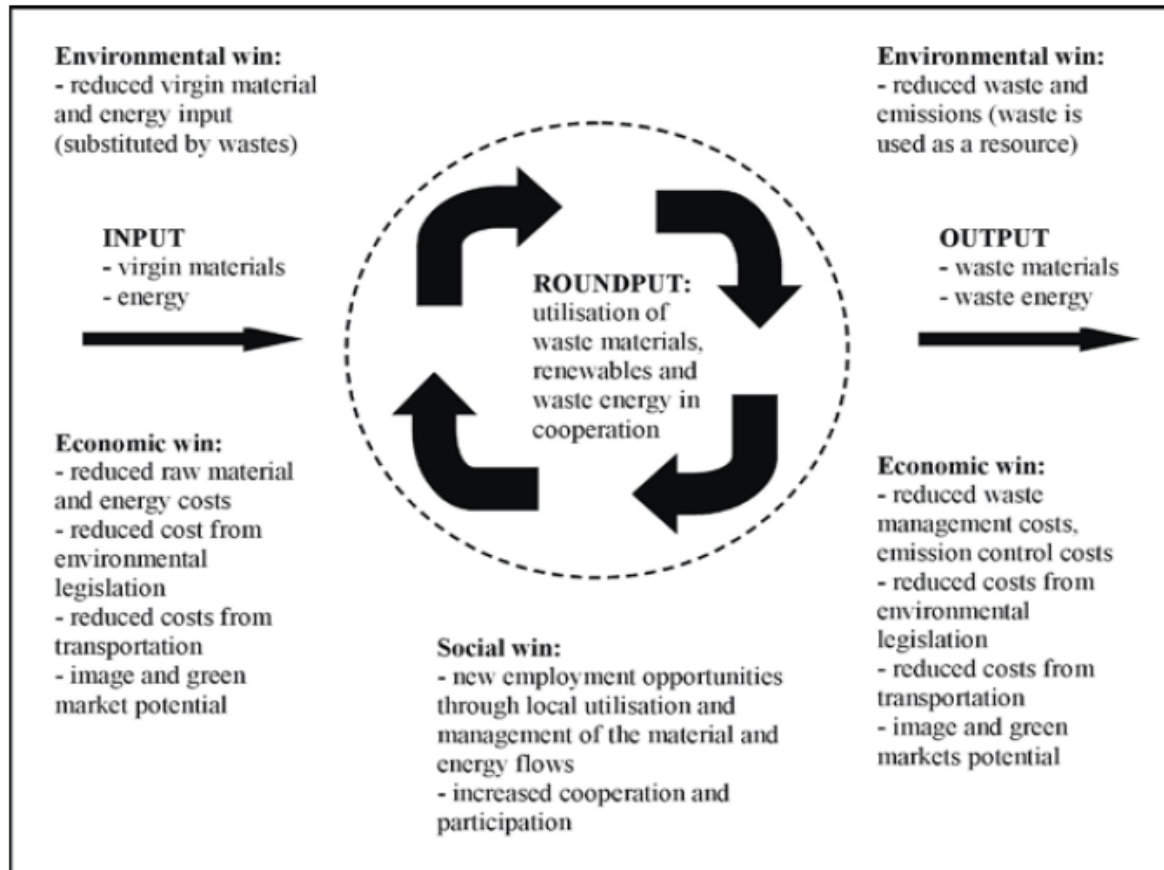
Topics Covered

2

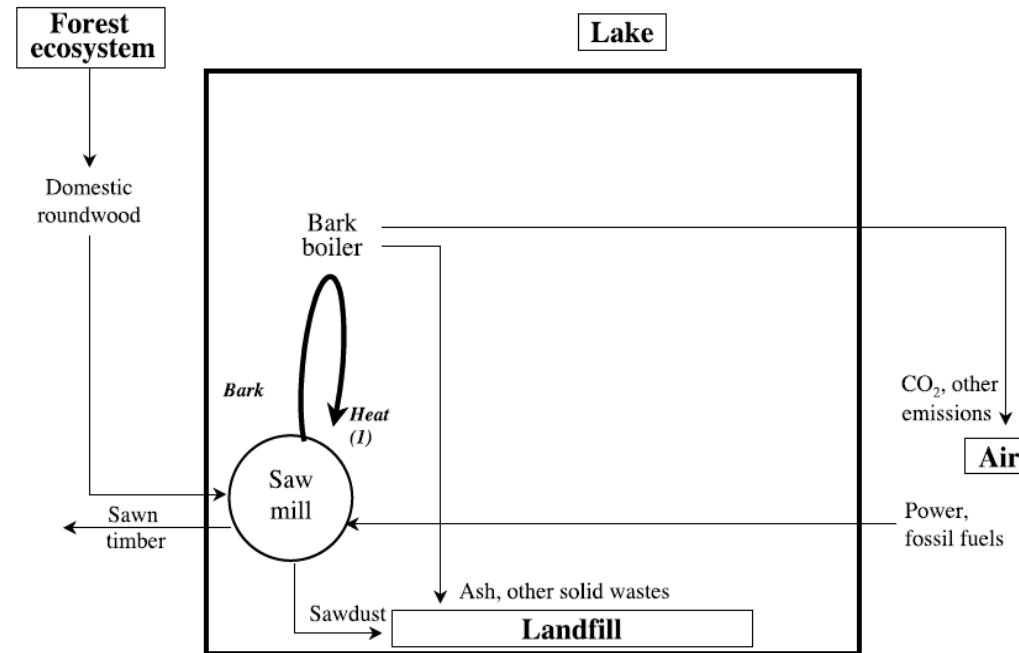
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Environmental Friendly Chemical processes

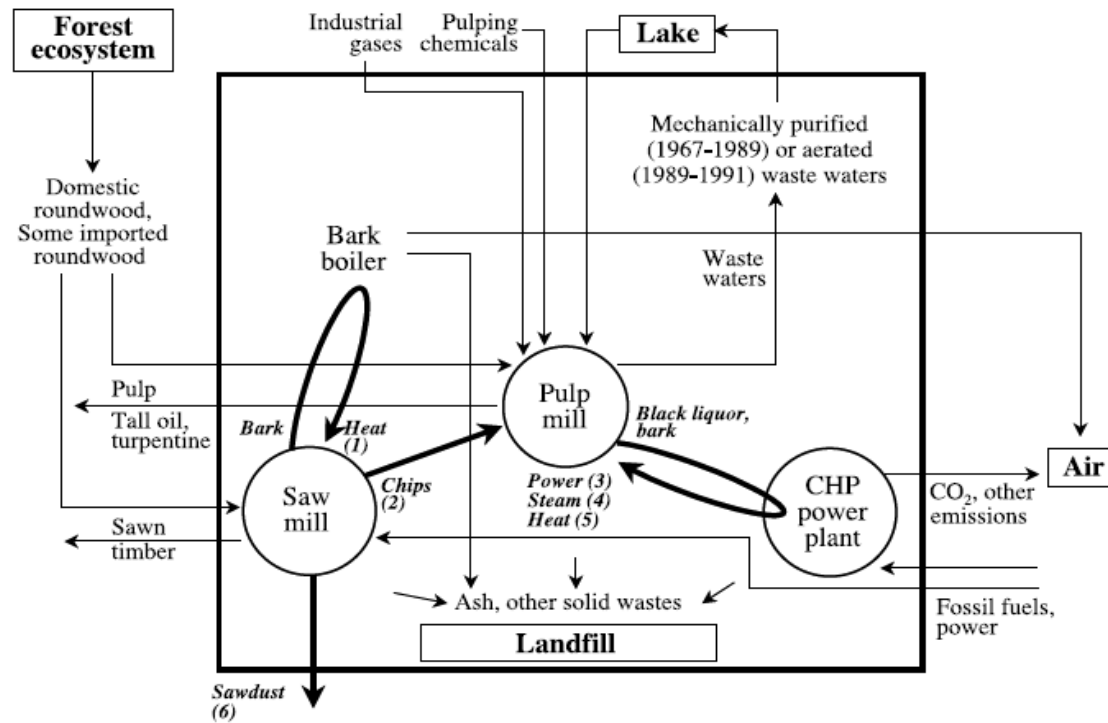


A Type I Ecosystem 1955 - 1966

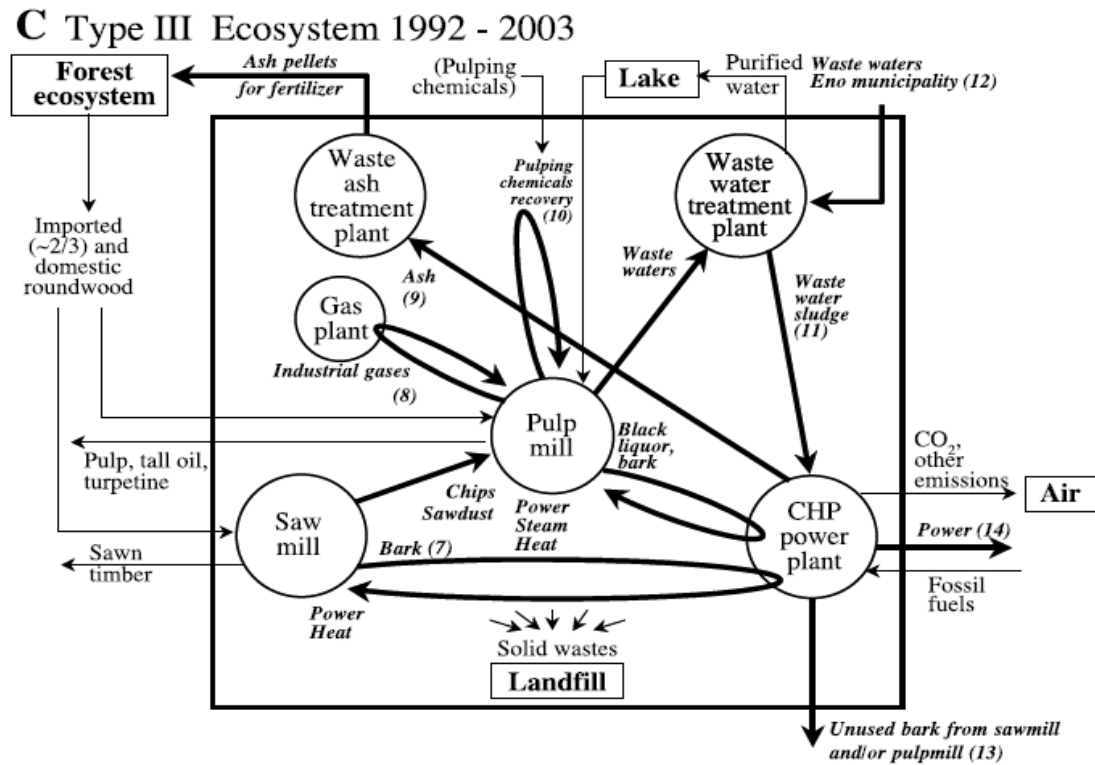


Flows of material and energy in the Uimaharju industrial park (Finland), development over time in three different stages. Thick arrows indicate the round-put flows; thin lines indicate material and energy flows in and out of the park area

B Type II Ecosystem 1967 - 1992



Environmental Friendly Chemical processes - Case Study



Environmental Friendly Chemical Processes - *Reference*

More theoretical details are provided in the document which is available in the following link:

<http://www.mv.helsinki.fi/home/Isaikka/publications/Julkaisu,%20englanti.pdf>

Follow page no 31. and 32 in the document to better understand the theory of environmental friendly chemical processes.