



REDUCING PAPER CONSUMPTION

ELECTRONICS &
TELECOMMUNICATION
(1ST Yr. B.E. PRESENTATION)

PRESENTED BY



CHAITANYA ROOP
TEJASWI (140080111013)



CHINMAY RAVAL
(140080111044)

Paper

Paper, thin sheets of compressed vegetable cellulose fibers, is used for writing and printing, for wrapping and packaging, and for a variety of special purposes ranging from the filtration of precipitates to the manufacture of certain types of building materials. Paper is a necessity in modern civilization, and the development of machinery for its high-speed production has been largely responsible for the increase in literacy and the raising of educational levels of people throughout the world.

Industrialized nations, with 20 percent of the world's population, consume 87 percent of the world's printing and writing papers.



To produce one ton of paper, 24 average trees must be cut.



Each year, the world produces more than 300 million tons of paper.



Tom Hollyman/Photo Researchers, Inc.

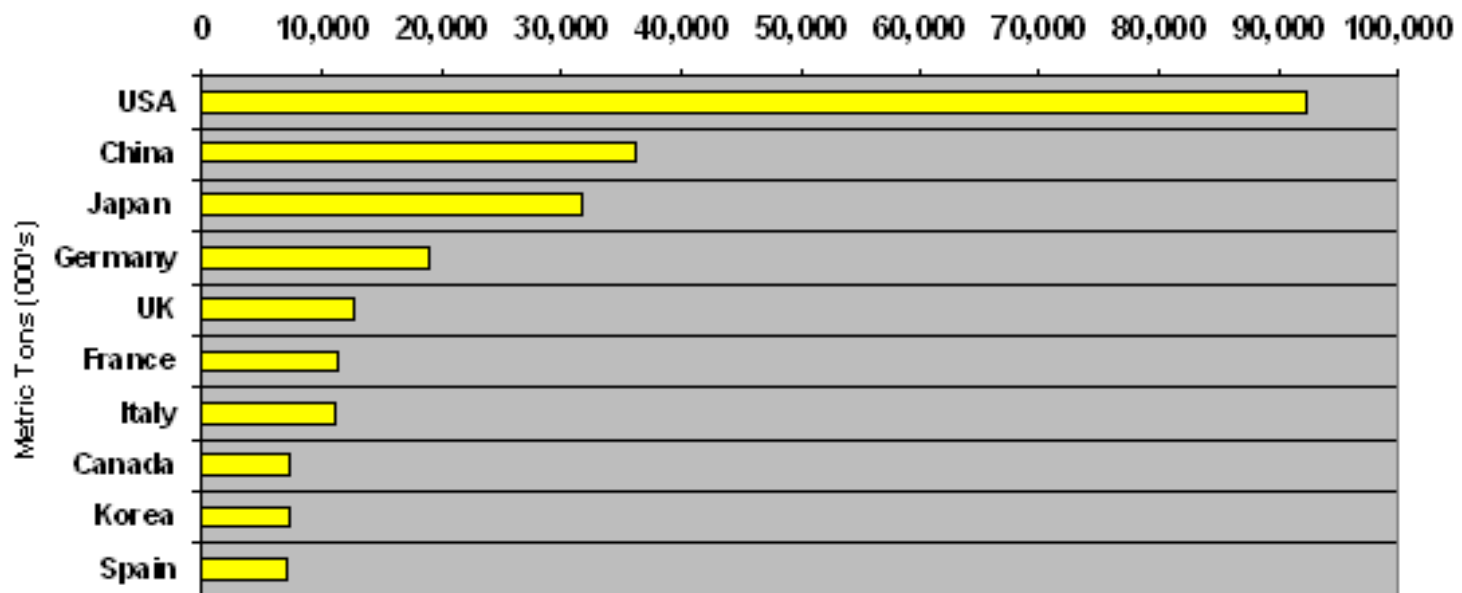
The first step in machine papermaking is the preparation of the raw material. The materials chiefly used in modern papermaking are cotton or linen rags and wood pulp. Today more than 95 percent of paper is made from wood cellulose.

Paper accounts for 25% of landfill waste (and one third of municipal landfill waste).



42% of the global wood harvest goes to paper production, a proportion expected to grow by more than 50 percent in the next 50 years.

World's Top 10 Paper Consuming Countries, 2000
(Source: Pulp and Paper International)



Paper pulp exports from Latin America from forests converted into plantations and from the harvesting and conversion of tropical and subtropical which grew 70 percent between 2000 and 2010.



Most of the world's paper supply, about 71 percent, is not made from timber harvested at tree farms but from forest-harvested timber, from regions with ecologically valuable, biologically diverse habitat.



Half the world's forests have already been cleared or burned, and 80% of what's left has been seriously degraded..



WHAT CAN BE DONE ?

- Recycling Paper
- Reducing Paper Usage

Paper Recycling

Paper recycling is the process of recovering waste paper and remaking it into new paper products. There are three categories of paper that can be used as feedstocks for making recycled paper: **mill broke**, **pre-consumer waste**, and **post-consumer waste**.

Mill broke is paper trimmings and other paper scrap from the manufacture of paper, and is recycled internally in a paper mill.

Pre-consumer waste is material that was discarded before it was ready for consumer use.

Post-consumer waste is material discarded after consumer use, including OM (old magazines), OTD (old telephone directories), and RMP (residential mixed paper). Paper suitable for recycling is called "scrap paper".

In 2003, only 48.3% of office paper was recovered for recycling.



Recycling paper does not only saves those trees from saw, but also saves about 26500 litres of water and 4100 kilowatt hours of electricity.



Encarta Encyclopedia, Hank Morgan/Photo Researchers, Inc.

Here are ways that we can reduce our use of paper products.

- Purchase inexpensive dish towels or cut up old towels and use those in place of paper towels.
- Purchase inexpensive wash cloths or cut up old towels and use those for small spills and for cleaning little faces.
- Don't let paper plates and cups into the house. If you are entertaining and don't want to use your regular plates, invest in some plastic ones that can be used over and over again. There are a lot of great designs for these plates and cups, especially during the summer season.
- Use newspaper to clean your windows instead of paper towels. I know it sounds weird, but it works and does not leave newsprint on the window.
- **Take advantage of all of the paper that already comes into your house for drawing, writing lists and printing. In a typical week, we get about seven notices from the school. Most of these notices are printed on one side of the page. Most of the time when we have something to print, we can use the blank side of a notice to serve the purpose. Use junk mail to write out grocery lists, phone messages and other notes. How much money do you spend on paper products?**

○ **Ways To Reduce Paper Use In Your Home Or Office:**

Use shredded paper as protective padding when shipping boxes.

Be sure to use both sides of each piece of paper. While this probably won't be possible on formal work documents, for nearly everything else it should be fine.

- **Make notepads out of “once-used” paper.** Cut each sheet into 4 and then make a stack held together by a staple. We have these all over the house!
- **Think before you print.** Check your document once, check it twice. No use in printing something just to find a typo right after printing!
- **Reuse file folders and envelopes over and over.** No need to throw them away; just cross the name out and write another one on it!
- The above being said, you can also **save web pages/articles/documents/receipts as PDF files.** Any receipt I get is saved as a PDF and put in a folder on my computer called “Receipts”.
- **Use digitized media rather than working out on paper.**

NEW IDEAS

- Gel –based Memory Storage Technology:
 1. One of the latest developments
 2. Uses intractability of solvent-solvent reactions to convert data into memory “Q-bits” rather than “Binary Bits”.
 3. Volume occupied by solvent decides memory space rather than memory locations.

**Thank you for your
attention.**

