Greening Your Library

Beth Filar Williams
Colorado Library Consortium

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Outline

- Why Recycle
- Paper recycling
- Other office type recycling
- Electricity
- E-waste
- Cleaning supplies
- Travel
- Other ways to be green
- Building Green
- Fun ideas!
FACT:
Today, more people in America recycle than vote!

BUT:
Over the past 30 years our garbage generated has increased by 87% -- twice as fast as our population!

WHY?
We consume too much (& there is way too much packaging!)
The 5 R’s

Respect
Rethink
Reduce
Reuse
Recycle
FACT:

Indirectly/directly each American citizen consumes his/her body weight in natural resources each day.

Are we not stealing from future generations and throwing it away?
Why Recycle?

- Saves energy = saves you money!
- Conserves natural resources
- Reduces pollution
- Reduces landfills
Landfills contribute methane gas that scientists believe is one of the gases contributing to global climate change.
Colorado lags nation is PAPER recycling.

Recycled paper waste:
- Colorado 10%
- Nationally 50%

Cost to dump in landfill:
- Colorado = $20/ton
- National average = $100/ton
Denver metro area is one of the most untapped places for recycling!

But things are changing ....

Denver Recycles:
http://www.denvergov.org/recycle/default.asp
FACTS:

- An average worker throws away 180 lbs of high-grade recyclable paper every year.

- A ton of recycled office paper save 380 gallons of OIL and 3 cubic yards of landfill space.
Recycling Paper @ your library

- Read it online if possible. Not everything needs to be printed.

- Duplex: For printing and copier. Why not set on automatic duplex?

- FACT: US duplexing rate is only 15%!
- **Reuse paper:**
  - print on the other side,
  - use it for notes,
  - have it bound as a “real” scratch pad

- **Shred sensitive documents** and they can be recycled. Can also use shred for mailing packages.

- **Reduce the size of images** before you print.

- **Email** instead of printing.
Buy recycled paper: look for chlorine free alternative bleaching agents → Using chorine to brighten paper sends carcinogenic chemicals into the water supply which in turn will affect humans and wildlife.

Charge patrons to print.

Recycling Bins: place one at everyone’s desk; have one by patron printer (and NO trash can)
- Use a white/black board instead
- Reuse envelopes, mailers, packages, etc → relabel over old label… or use for library courier!

These ideas can save your library $$$$$$$$$$$
Other Office tips:

- Look for non-toxic labels on pens and art supplies. Most solvents from correction fluid, highlighters and permanent markers are toxic to the environment and the fumes may cause health problems in people as well.

- Always purchase products that are reusable instead of disposable.

- Send faxes via your computer.

- Choose a green web host – one that is run via wind or solar power.  
  [Link](http://www.techsoup.org/news/news_article.cfm?newsid=1722)
Local Recycling Offers

- Recycle your books, CDs, DVDs, VHS, or cassette tapes!
  [http://recyclebooks.org](http://recyclebooks.org)
  - In the Front range area: free & request a pick up.
  - In the SW area, twice a year pick up in Durango.
  - The San Luis Valley area a stop may be coming soon.

- 3M offers recycling of transparency film & related items
  [http://www.3m.com/meetings/product_catalog/trans_recycle.jhtml](http://www.3m.com/meetings/product_catalog/trans_recycle.jhtml)

- Funding Factory – recycle inkjet & laser cartridges & cell phones.
  AND redeem them for equipment or cash!!!

- Also try Cartridge World [http://www.cartridgeworldusa.com](http://www.cartridgeworldusa.com) to refill your ink.
FACT:

The Electric Power Research Institute estimates that American businesses could save 50% or more of their electricity they use each year if they looked into better methods.
FACT:

Whenever you flip an electric switch, you negatively impact the environment. Electricity is the single greatest industrial source of air pollution \(\rightarrow\) contributes to smog, acid rain, global warming gasses, which all negatively affect human health and ecosystems.
Dirty vs. Green power:

DIRTY POWER:
- Coal – produces smog, toxic metals like mercury, and tiny particulars of pollution
- Nuclear Power – risk of catastrophic failure and radioactive wastes
- Natural gas – emit excessive carbon dioxide, other greenhouse gasses that cause global warming
- Large scale hydroelectric – degrade water quality and devastate river ecology

GREEN POWER:
- Wind – converted to energy, cheap and fastest growing
- Solar – energy produced electricity by collecting radiant energy of the sun
- Small-scale hydroelectric (under 30MW) – use flowing water to produce clean electricity without impact larger dams have on the water
- Geothermal – uses steam from geysers, molten rock and steam spouts
- Biomass – use energy stored in green plants and organic matter
Save electricity @ your library

- Buy EPA approved Energy Star equipment.

- Replace light bulbs by using compact, more efficient fluorescent bulbs → they last 13x longer!

- Use dimmers on lights.

- Keep lights turned off when not in use and at night. Try occupancy sensors that turn off lights when no one is in the room.
- Do an energy calculation by using the Energy Star online calculator. See how much you can cut and save: 
  http://www.energystar.gov/index.cfm?c=small_business.sb_calculate

- Check out Green-e to find out what alternatives are available:
  1-888-63-GREEN
  http://green-e.org/your_e_choices/colorado.html
Computers @ your library

- Purchase LCD monitors:
  - more energy efficient → can save you $\frac{1}{2}$ to $\frac{2}{3}$ the energy of traditional monitors.

- reduce heat generation and eye strain for users.

- Recycle your computer. Check out TechSoup:
  [http://www.techsoup.org/howto/articles/hardware/page2261.cfm](http://www.techsoup.org/howto/articles/hardware/page2261.cfm)
Travel @ your library

- Can you telecommute one day a week?
  - Bring your own shampoos, etc.
  - Use your towels for several days.
  - Turn off lights when not in room.
- Look into a hybrid vehicle for employees to use when traveling for work.
- Use Web base teleconferencing. Check out OPAL for libraries. http://www.opal-online.org/
Cleaning @ your library

- Use biodegradable and environmentally friendly cleaning products
- Buy recycled paper towels and toilet paper, put HEPA filters on vacuums cleaners, and buy floor mats from recycled micro fibers to reduce dust.

These ideas can reduce absenteeism due to environmentally caused factors!
FACTS:

- Using a permanent mugs instead of disposable for about 1000 uses:
  - Solid waste is reduced by 86%
  - Energy use is reduced by 98%
  - Water pollution is reduced by 86%
  - Greenhouse gasses are reduced by 29%
  - Air particulates are reduced by 86%

- Polystyrene (Styrofoam) can take about 500 years to break down.
Coffee Mugs @ your library

- Bring your own coffee mug to work to use/refill.
- Use real mugs for large meetings instead of Styrofoam or plastic if possible.
- If you must, use paper not the other choices since paper can be biodegradable.
- Offer thermal mugs for sale (via your Friends group) with the library logo. Raise money for the library and be eco-friendly!
Water Bottles @ your library

- Bring your own water bottle to work and refill.

- Offer water bottles for sale with the library logo. Raise money for the library and be eco-friendly!

**FACT:** Americans use 2.5 million plastic bottles every hour.
Recycling @ your library

- Set up glass, plastic and aluminum recycling at work.
  - Place containers in prime locations - lunch room, by soda machines, next to all trash cans.
  - Have a sign up sheet for staff or get a eco-friendly volunteer to pick up and take to the recycling center for the library.

**FACT:** Did you know some fleece jackets are made using recycled plastic soda pop bottles?!
EDUCATE

→ Remember to educate students, staff, patrons on your “green” programs & ideas!

Great example of a library web site explaining how they recycle:

http://library.georgiasouthern.edu/recycle/how.html
FACT:

- Well designed green buildings cost LESS to operate and maintain than conventionally constructed buildings.

- Use less energy through more natural lighting and less natural resources.

- Use native landscaping and construction items that better integrate into their communities and are more attractive to patrons.

- They are also less likely to cause health problems for workers.
Green Building @ your library

- Use skylights, atriums, overhangs to minimize over heating a building & to get lots of natural sunlight.
- Use southern exposure to maximize natural winter light
- Save water by getting faucet aerators, low flow toilets.
- Use native plants and efficient irrigation components like collection gray water for landscape irrigation
- Have bicycle racks for patrons/staff to encourage non-driving. Offer a shower for staff cyclists.
- Install solar panels.
- Reuse site materials when designing a new building (such as rock to build a fireplace)
Check out LEED (Leadership in Energy and Environmental Design)

→ a nationally accepted, green building rating system, which balances between effective practices and emerging technologies, promotes environmentally responsible, profitable and healthy workplaces.

→ **Example:** Fayetteville Public Library Arkansas savings about 1 million gallons of water every year and about 25 cents per square foot annual in utility costs!

Also check out [http://smartgrowth.org](http://smartgrowth.org)
Green elements libraries can use:

- collaboration (multi-use facility)
- more natural lighting
- using green materials
- a green roof
- raised floors (for heat/air flow underneath and room to rewire)
- energy efficiency
- natural ventilation
- green power and renewable energy
- indoor environmental quality

(from Bill Brown article)
Funding your green library

- For Colorado: check out: http://www.colorado.gov/rebuildco/
  offers FREE services to most libraries to help with more energy efficient building or just want advice on how to save money.

- EERE Financing http://www.eere.energy.gov/financing

- Western Area Power Administration http://www.energyexperts.org

- Database of State Incentives for Renewable Energy http://www.dsireusa.org

- Rebuild America (see "solutions center" on website) http://www.rebuild.org
Fun Ideas @ your library

- Plant a tree or garden at your library. Get students, volunteers, etc. involved. You never know who you might excite over the idea!!

- Plants in your library that are sprouting “babies” → have a plant sale of the offspring and raise a few bucks!

- Old CDs- there are so many ways to use old CDs for crafts, invitations, wind chimes, etc. Check the document on my web site for ideas!
Altered Books

- an artistic method of recycling weeded books!

- Make into a theme, poetry, book report, author study, historical event, even a purse or bench!
- Work with your art teacher at school.
- Public libraries can offer this as a class or for kids/youth.

The following photos are courtesy of Kimberly Hopkins, independent library consultant...
Library Bill of Rights

The American Library Association affirms that all libraries are forums for information and ideas, and that the following basic policies should guide their services.

I. Books and other library resources should be provided for the interest, information, and enlightenment of all people of the community the library serves. Materials should not be excluded because of the origin, background, or views of those contributing to their creation.

II. Libraries should provide materials and information presenting all points of view on current and historical issues. Materials should not be proscribed or removed because of partisan or doctrinal disapproval.

III. Libraries should challenge censorship in the fulfillment of their responsibility to provide information and enlightenment.

IV. Libraries should cooperate with all persons and groups concerned with resisting abridgment of free expression and free access to ideas.

V. A person’s right to use a library should not be denied or abridged because of origin, age, background, or views.

VI. Libraries which make exhibit spaces and meeting rooms available to the public they serve should make such facilities available on an equitable basis, regardless of the beliefs or affiliations of individuals or groups requesting their use.

Adopted June 18, 1948.
... metric, non-scriptural texts of the Greek and Slavonic congregations. An early hymn, such as Deum laudamus (Lord, we praise you), reveals the legacy of ancient Christianity. The national religion of the Roman Empire became, with Rome, Antioch, Alexandria and Constantinople, the seat of government of the Roman Empire and the Church. In Constantinople, the Eastern Greek and Roman monody and the dawning of the Byzantine liturgy. The influence of the Byzantine service is still felt in Russia and Byzantium. Tillyard and Egon Wellesz have done much in the revival of these chants, which probably developed from the Greek liturgy by St. Paul in Palestine (fourth century).

As well as those of the Eastern Catholic Church, we already mentioned St. Ambrose, Bishop of Milan, in connection with his hymnody. He desired to regulate tonality and the way of singing, so he replaced the heretical hymn with the plainsong, thus to eliminate the music of popular street customs. And its way into the sanctuary. Also associated with this is the Ambrosian chant, which is available to us, as well as the later Byzantine and Gregorian modes of our present. Carl Parrish writes of the melody as the melodic rhyme at the beginning of long sections of the repetition of a motive...
mysteries of mathematics

What is the number in this sequence: 1, 1, 2, 3, 5, 8, 13...

x + y = 6

Q: What do you get if you divide the circumference of a jack-o-lantern by its diameter?

A: Pi, of course.
DOGS—STORIES
Watson, Helen (Orr) 1892-
Beano, circus dog, illus. by Marie C. Nichols. Ariel Bks.
1953

Beano, helps his young master realize his
animal act. This is a story, rich in circus

woof!
Take the Greening Colorado Challenge!

- Greenbuild November 2006 in Denver

- Each fall the USGBC (United States Green Building Council) holds an international conference focused on environmentally-conscious buildings and other sustainable ideals called Greenbuild. Although the conference is focused on green building, projects featured at the Challenge will cover a range of environmental concerns.

- Participate, sponsor or volunteer! The Greening Colorado Challenge committee will be accepting project applications through the end of 2005. We encourage all kinds of groups (teams can be municipalities, businesses, non-profits, schools, student teams, and so on) to take up the Challenge!

- http://www.greeningcolorado.com
For this presentation, links, and many other ideas, visit:


I’d love to hear your ideas too!
Email them to me at:

bwilliams@clicweb.org