



ENVIRONMENTAL LAW & POLICY CENTER

FACT SHEET: ELPC'S LEED® PLATINUM OFFICE



GOALS

State-of-the-Art Green: ELPC's office combines open design and modern technology. It utilizes efficient lighting, plumbing, heating and cooling, and toxic-free materials.

Affordable: ELPC chose affordable products that will save money over time.

Replicable: ELPC used off-the-shelf materials, mostly from within a 500-mile radius, that would work well in many professional offices.

CONCEPTS

Renovating space in a historic building provides a valuable model. In coming years, 80% of building will occur as renovations of existing space rather than new construction.

Using natural daylighting; efficient lighting systems, appliances, plumbing fixtures and HVAC controls; and solar power cuts energy use dramatically.

Carefully selecting sustainable, non-toxic materials improves indoor air quality, making the office a healthier and more productive workplace.

Using local, recycled and recyclable materials and diverting 75% of construction waste from landfills reduces pollution and conserves resources.

Encouraging healthier commutes by providing secure bike storage, a private shower, and a location near public transit.

TECHNOLOGY

CO2 sensors measure occupancy by the amount of CO2 exhaled in a room and automatically reduce or increase heat or AC accordingly.

Motion sensors shut off power to lights and outlets in unoccupied spaces. Shutting off power to outlets at night and when space is unoccupied eliminates 'phantom load.'

Photo sensors monitor the amount of natural light coming from outside, minimizing the use of artificial light when natural light is available.

Energy Management Tools are integrated with officewide sensors and electricity monitors, making it possible to control the system from a personal computer.

An energy-efficient server replaces four old machines, cutting energy use by over 75% and requiring less energy to cool the server room.

Energy Star appliances and printers reduce our energy use.

Modern video conferencing system allows us to hold meetings with our regional staff without the expense and pollution associated with travel.

Solar photovoltaic panels on the south facade of the building will directly supply the office with clean energy.

Top Left and Top Right Images © 2010 Christopher Barrett

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MATERIALS - FROM TOP TO BOTTOM

Ceiling Tiles: 50% recycled content; fully recyclable through manufacturer take-back program; Second Look by Armstrong of Pittsburgh, PA.

Lights: Highly efficient fluorescent and LED fixtures come from a variety of manufacturers, including: Peerless (fluorescent hanging lights), Philips Day-Brite (recessed), and Juno Lighting (track).

Glass Doors and Interior Windows: Local, non-chemical etching process, glass recycler partnership; by Skyline Design of Chicago, IL.

Paint: Water-based; low-odor; no-VOC; Harmony by Sherwin Williams of Chicago, IL.

Workstation Partitions: Over 50% recycled; low-VOC resin; natural grasses; manufacturer take-back program; by 3form Ecoresin of Salt Lake City, UT.

Workstations: Recycled fiber; low-VOC varnish; sustainably harvested; by Imperial Woodworking of Chicago, IL.

Work Surfaces: No VOC; 46.5% recycled; 100% bio-based material (linseed oil, pine rosin, and jute); by Forbo Marmoleum.

Kitchen Cabinets: Recycled wood fiber and sustainably harvested wood, no urea-formaldehyde; by Urban Prairie of Chicago, IL.

Kitchen Backsplash: 100% recycled glass tiles; by Crossville Inc of Crossville, TN.

Kitchen Countertops: Sustainably manufactured, locally mined, VOC-free quartz; by Cambria of LeSueur, MN.

Rubber Wall Base: 20% recycled; no-VOC; by Johnsonite of Chagrin Falls, OH.

Carpet Tiles: 50% recycled content, no-VOC, manufacturer take-back program; by Shaw EcoWorx USA.

Kitchen Floor: 98% recycled porcelain tiles, 100% natural minerals, no added VOC; by Stonepeak Ceramics of Crossville, TN.

Pantry Floor: Bio-based tile; low-emitting, recycled content; by Armstrong of Jackson, MS.

