

... and Counting

David Meckel, FAIA

“For the first time in the history of the world, every human being is now subjected to contact with dangerous chemicals, from the moment of conception until death.”

Silent Spring by Rachel Carson,
Houghton Mifflin, 1962

Some online resources beyond architecture

www.climatemanual.org (climate research)
www.sustainer.org (multidisciplinary research)
www.sustainabilitydictionary.com (dictionary of terms)
www.saatchi.com/birthofblue (green vs blue)
www.naturalstep.org (sustainability framework)
www.globalreporting.org (sustainability index)
www.ecoinvent.ch (life cycle inventories)
www.eiolca.net (life cycle assessment)
www.asknature.org (biomimicry)
www.pharosproject.net (materials evaluation)
www.ethiscore.org (shopping guide)
www.kld.com (sustainable investing)
www.grn.com (recycling network)
Design is the Problem by Nathan Shedroff,
Rosenfeld Media, 2009

California's first net zero commercial building

One of the first zero-energy commercial buildings in the United States is David Kaneda AIA's Integrated Design Associates (IDeAs) Z-Squared Design Facility. Opened in October 2007, this San Jose, California building was designed by EHDD Architecture to meet a net-zero-energy/zero-carbon-emissions (Z-squared) target. Z-squared performance was achieved through simple, affordable strategies, including daylighting, radiant heating, ground source heat pump cooling, advanced insulation and glazing and reduced computer and appliance loads through careful equipment selection and wiring.
www.ideasi.com

Biology is the new Architecture

Terms that you thought you wouldn't need to be familiar with when you selected a college major in architecture instead of science.

Alkylphenols
Dichloro-diphenyl-trichloroethane
Eutrophication
Organochlorines
Persistent bioaccumulative toxins
Phthalates
Propylene glycol
<http://library.cca.edu>

Some Rating Systems other than LEED

Japan | CASBEE
Comprehensive Assessment System for Building Environmental Efficiency
www.ibec.or.jp/CASBEE
United Kingdom | BREEM
Building Research Establishment Environmental Assessment Method
www.breeam.org
Australia | Green Star
www.gbca.org.au
Hong Kong | HK-BEAM
Hong Kong Building Environmental Assessment Method
www.hk-beam.org.hk
France | HQE
Haute Qualite Environnementale
www.assohqe.org
Netherlands | GreenCalc
www.greencalc.com
Singapore | The Green Mark Scheme
www.bca.gov.sg
South Africa | GBCSA
Green Building Council of South Africa
www.gbcsa.org.za

Portugal | LiderA
Liderar pelo Ambiente
www.lidera.info
Germany | Guideline for Sustainable Building
www.bbr.bund.de
Italy | Casa Clima
www.agenziacasaclima.it
Fundamentals of Integrated Design for Sustainable Building by Marian Keeler & Bill Burke, John Wiley & Sons, 2009

Three environmental ideas you may not be familiar with yet

Blended Value: A term coined by Jed Emerson at Stanford University to describe social, financial, and environmental value created by all of an organizations' activities.
Ceres Principles: This is a ten-point code of environmental conduct that is publicly and voluntarily endorsed by companies as an environmental mission statement or ethic. Formed in 1989, Ceres is a partnership among environmental groups, labor unions, and institutional investors.
Dematerialization: Reducing the total material that goes toward providing benefits to customers. May be accomplished through greater efficiency, the use of better or more appropriate materials, or by creating a service that produces the same benefit as a product.
www.sustainabilitydictionary.com

Number of megawatts California needs on a summer day - 40,000

Number of megawatts added to grid-tied solar power in California last year - 158
www.wsj.com

“The world we have created today, as a result of our thinking thus far, has problems that cannot be solved by thinking the way we thought when we created them.”
—Albert Einstein