

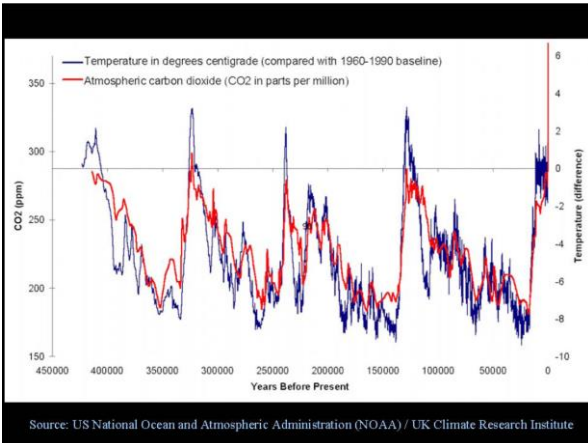
Standard Definition

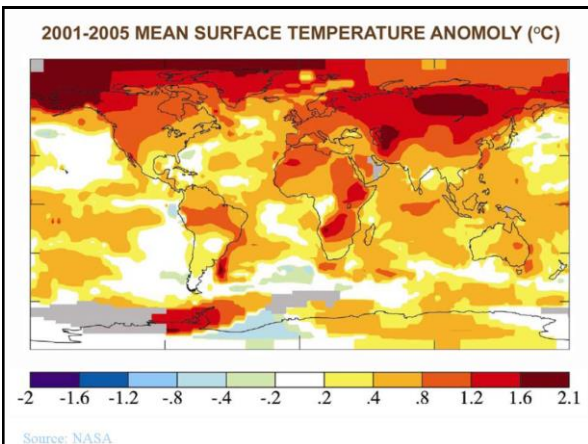
- To provide for the needs of today without compromising the needs of future generations.
- Is this good enough?



“Nothing is more boring” than sustainability, William McDonough, FAIA, has said. “Are you proud if your marriage is ‘sustainable’?” We need to do more than conserve resources, many observers contend, aiming instead to renew ecosystems and increase biodiversity.

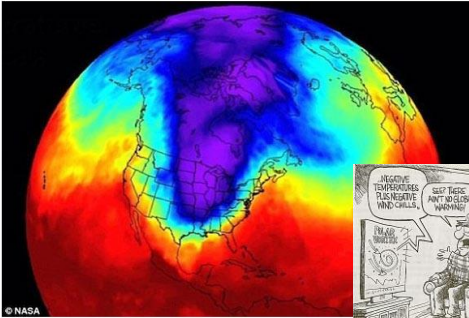
NASA Sustainability Base
William McDonough



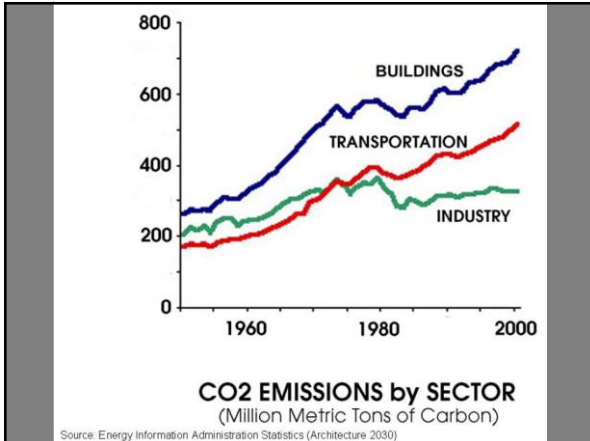


February 26, 2014

One of the Warmest Januaries Ever. Really.



Don't let the cold in parts of the US this January fool you. Globally, January 2014 ranked as the fourth warmest since 1880, according to NOAA data.



Source: Energy Information Administration Statistics (Architecture 2030)

City of Seattle's Rationale

Building materials and design, construction techniques, and building operations and maintenance all have environmental impacts that can be minimized.

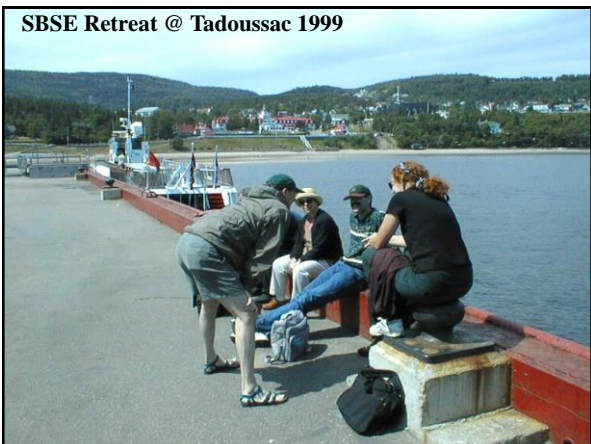
Sustainable building merges sound, environmentally responsible practices to look at the environmental, economic and social effects of a built project as a whole. The entire life-cycle of the built environment is examined (planning, design, construction, operation and maintenance, and demolition or disassembly).

- Buildings consume or are responsible for:
 - 40% of the world's total **energy** use,
 - 30% of raw **materials** consumption,
 - 25% of timber harvest,
 - 35% of the world's **CO₂** emissions,
 - 16% of fresh **water** withdrawal,
 - 40% of municipal **solid waste** destined for local landfills, and
 - 50% of ozone-depleting **CFCs** still in use

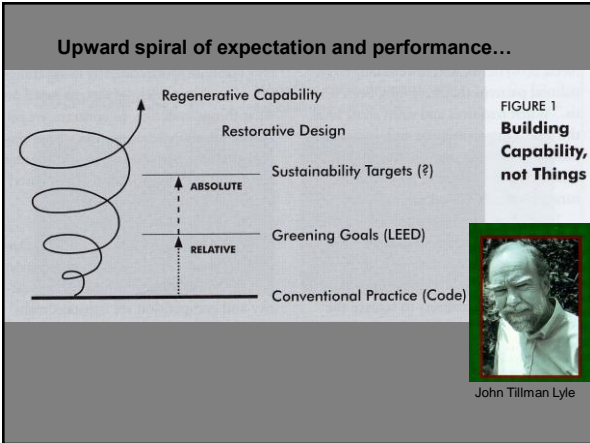






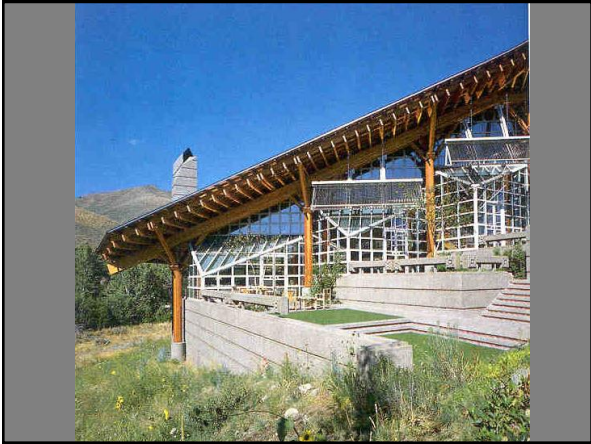


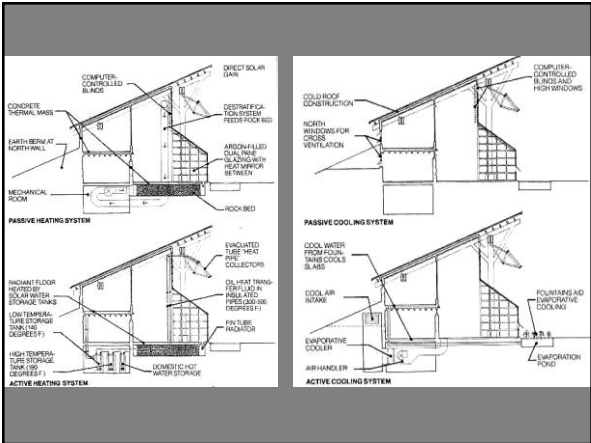


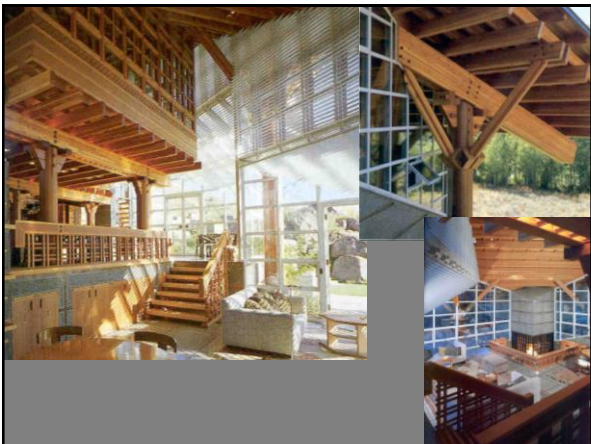


Regeneration-based Checklists for Design and Construction © SBCE & Johnson 2000

Project:	degeneration		sustainability		regeneration	
	100% always	100% sometimes	100% always	100% sometimes	100% always	100% sometimes
pollutes air					cleans air	
pollutes water					cleans water	
wastes raw material					recycles raw material	
consumes food					produces food	
destroys rich soil					creates rich soil	
dump wastes in landfill					consumes wastes	
destroys wildlife habitat					provides wildlife habitat	
imports energy					exports energy	
requires fuel-powered transportation					requires human-powered transportation	
intensifies local weather					moderates local weather	
excludes natural light					uses natural light	
uses mechanical heating					uses passive heating	
uses mechanical cooling					uses passive cooling	
needs cleaning and repair					maintains itself	
produces human discomfort					provides human comfort	
uses fuel-powered ventilation					uses human-powered ventilation	
pollutes indoor air					creates pure indoor air	
is built of recycled materials					is built of virgin materials	
cannot be recycled					can be recycled	
serves as an icon for the apocalypse					serves as an icon for regeneration	
is a bad neighbor					is a good neighbor	
is ugly					is beautiful	
			negative score	positive score		
			2000 possible	2200 possible		
			final score:			









It is an icon for regeneration because of the amount of good publicity it has received and the fame that awards have given it. ...they will associate good and beauty with sustainable architecture.

—Nathan Fox



Most of Sim van der Ryn's principles for ecological design are ignored as well as John Lyle's. This is a classic example of David Orr's social trap of bigger is better ... I think the home is an affront to regenerative design.

—Taze Fulford



The cost and size are ridiculous for the program and, aside from solar and ventilation issues, it's a typical house. The architect needs to address long-term impact on the site and methods of regeneration, not simply curtailment of energy costs.

—Curtis Banger

Welcome to City Hall



www.arup.com
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W ARCHITECTUREWEEK
THE NEW MAGAZINE OF DESIGN AND BUILDING

The GLA building was completed in May 2002.



Foster's New City Hall


"It seemed initially that the new city hall would be slightly out of context, given its location near historic landmarks."
—AW

No. 136, 26 February 2003

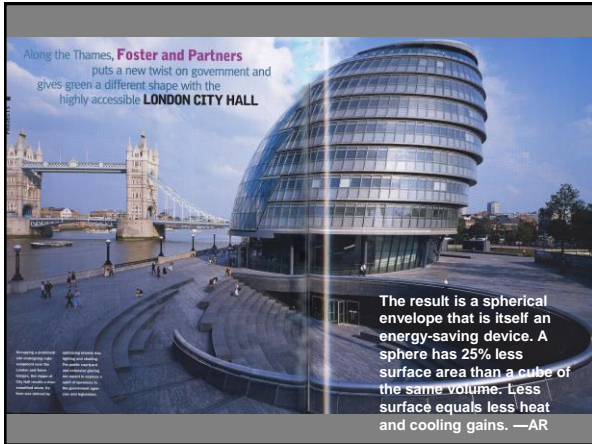
ARCHITECTURAL RECORD

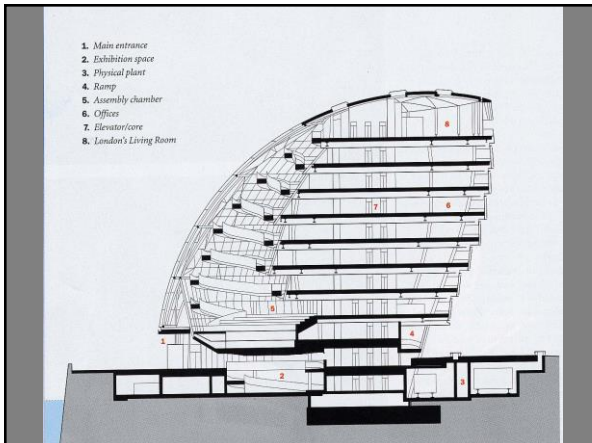
SEEKING THE SHAPE OF GREEN
Foster and Partners' Design for London City Hall

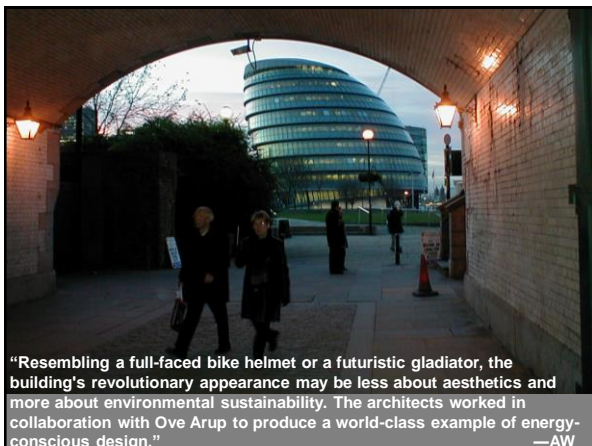
"Its shape was devised to minimize the surface area exposed to direct sunlight while still admitting daylight. The southern overhangs allow each floor to shade the one beneath it but make the structure seem a bit tipsy."
—AR 02/03

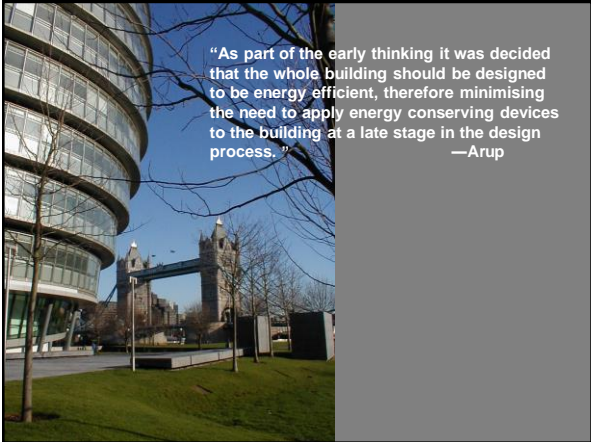


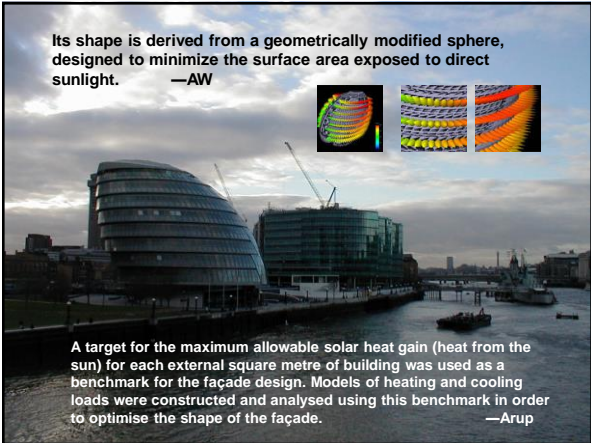
Special Presentation
Nine Proposals to Rebuild the World Trade Center
Will New York Rise to the Challenge?

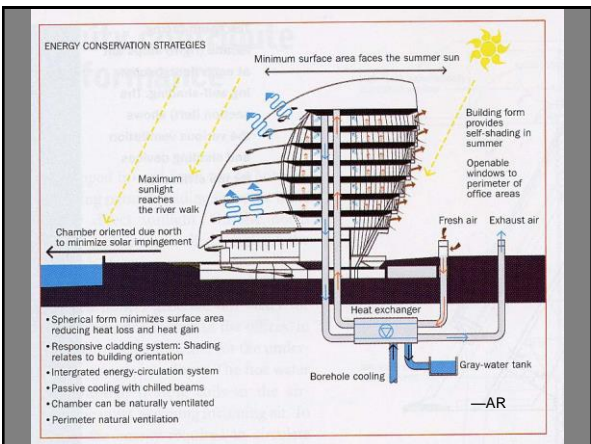










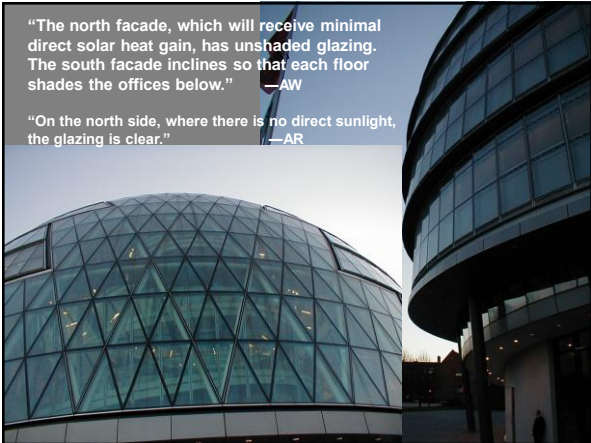


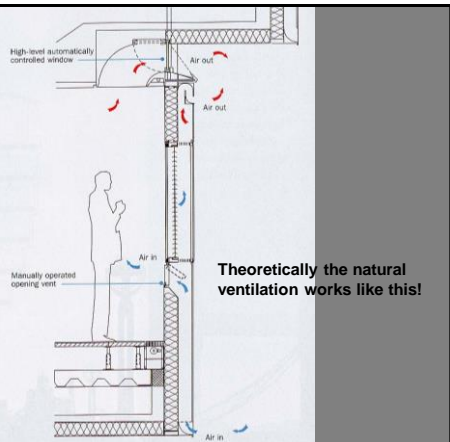
“From the outset of the design Arup, working with architects Foster and Partners, have strived to make the building a world-class example of energy conscious design.” —Arup



“The north facade, which will receive minimal direct solar heat gain, has unshaded glazing. The south facade inclines so that each floor shades the offices below.” —AW

“On the north side, where there is no direct sunlight, the glazing is clear.” —AR





"The building has an integrated system of environmental controls to minimize energy use. It is expected to consume 75 percent less energy on mechanical systems than a typical air-conditioned office building." —AW

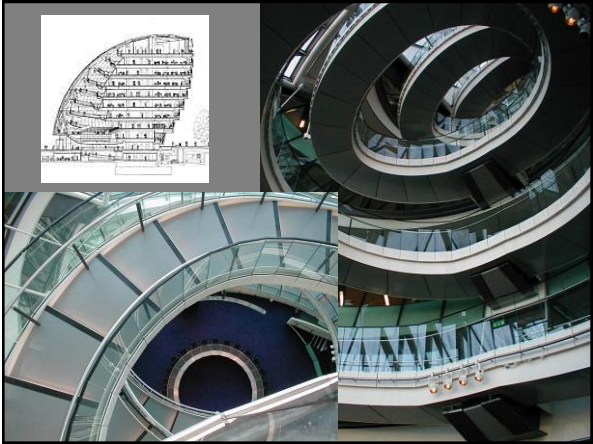


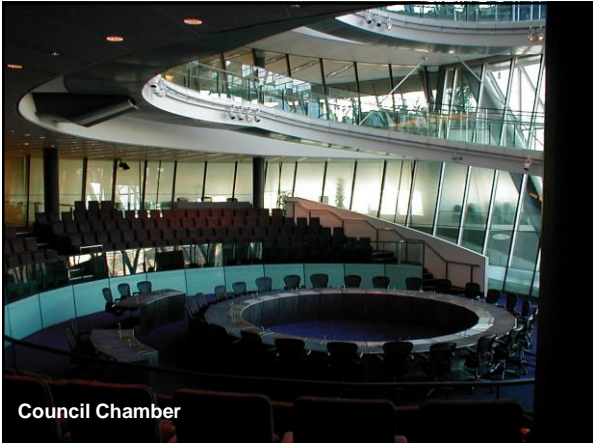
"Many of the building elements, including floor tiles and rubber doormats, are made from recycled materials." —AW



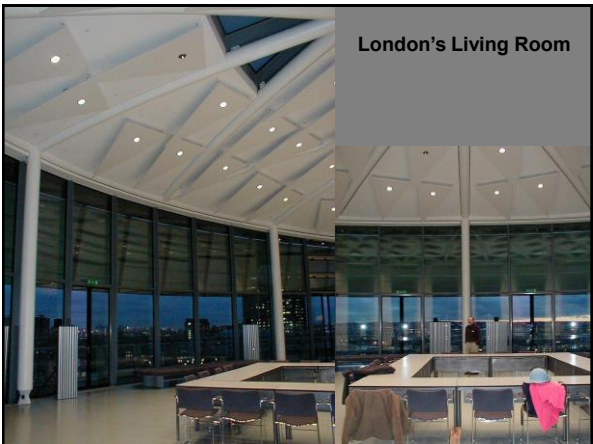
"The main feature of the interior is an 800-yard- (730-meter-) long spiral ramp/ staircase curving through all ten above-grade stories to the top of the building. This is open to the public, allowing citizens to view GLA activities." —AW







Council Chamber



London's Living Room

