



From the New York Times Science

Tuesday, August 20, 2002



MANAGING PLANET EARTH: AN ABUNDANCE OF WARNINGS



Engineering Challenge

• Can we change how we do things to help save the environment?

OR

Status Quo

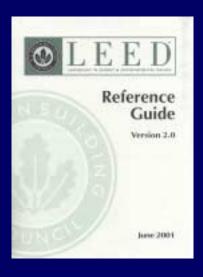
- Keep doing same old thing
- Not enough time/\$ to think or do it differently

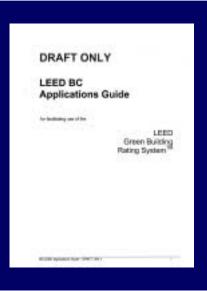


LEED Rating System

- Leadership in Energy and Environmental Design
- United States Green Building Council
- www.usgbc.org
- LEED-BC, RAIC/Fed. Government, City of Vancouver, SEFC
- In USA -34 States, 10 Cities, 9 Government Agencies

Kæfeen

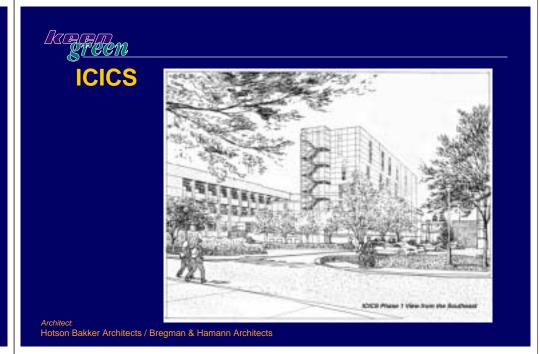






Karren

Green Projects





ICICS, University of BC

- Integrated design approach led to:
 - Lowest Capital Cost
 - Lowest Operating Cost
 - Lowest Maintenance Cost



York University Computer Science Building

52% of Canadian Model Energy Code

Canadian SB 2000 Entry

6 months of configuring before drawing drawing any lines

Built within original conventional building budget

Seasonal natural ventilation

Pre-cooled air - underground duct

Heat reclaimed from campus steam tunnel

Sod Roof



Architect:
Busby & Associates / Alliance
Architects

 Best Green Building of the Year















Vancouver Island Technology Park LEED Version 2 "GOLD"

First LEED Gold ever in Canada and Third in North America

Architect: Idea Link



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Potable Water Use

6 million litres less water than traditional design

- Water less urinals
- □ Dual Flush Toilets

 6/3 Litre Flush
- ☐ Infra-red sensor sinks
 25% less water
- ☐ Flow restrictors on showers

Benefits
Less capital & operating costs
Reduced site infrastructure water & sewer











Building Reuse — 99.9% structure – 91% Shell Construction Waste — 99% salvaged

Cabinets, toilets, sinks, concrete block, wiring, plaster, copper piping, metal pans etc









Puget Sound Learning Center, Washington State

LEED Gold. Almost made Platinum

Third LEED Gold Project in the USA

Architect: MITHUN PARTNERS



Solar Collectors - Residence Building



kreen

• Rain Water Collection and Storage



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Composting Toilet





Hydroponic Reactor Tanks



lkan Treen

C.K. Choi Institute of Asian Research

University of British Columbia





CK Choi Features

- Perimeter radiation with self contained control valves
- Natural ventilation trickle vents, opening windows, summer exhaust fans at top
- Composting toilets
- Grey water and "tea" bio filtered
- Storm water storage for irrigation
- Recycled brick and wood beams



"It's Easy To Be Green!"



