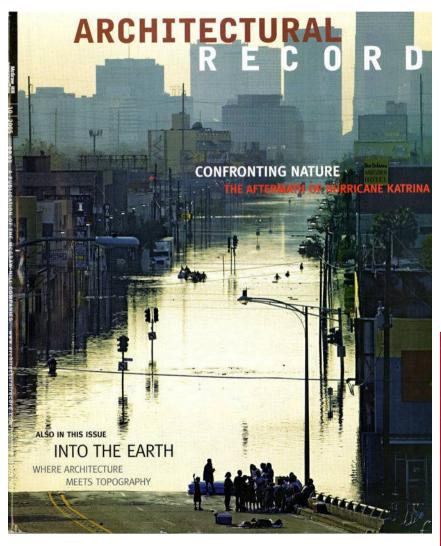


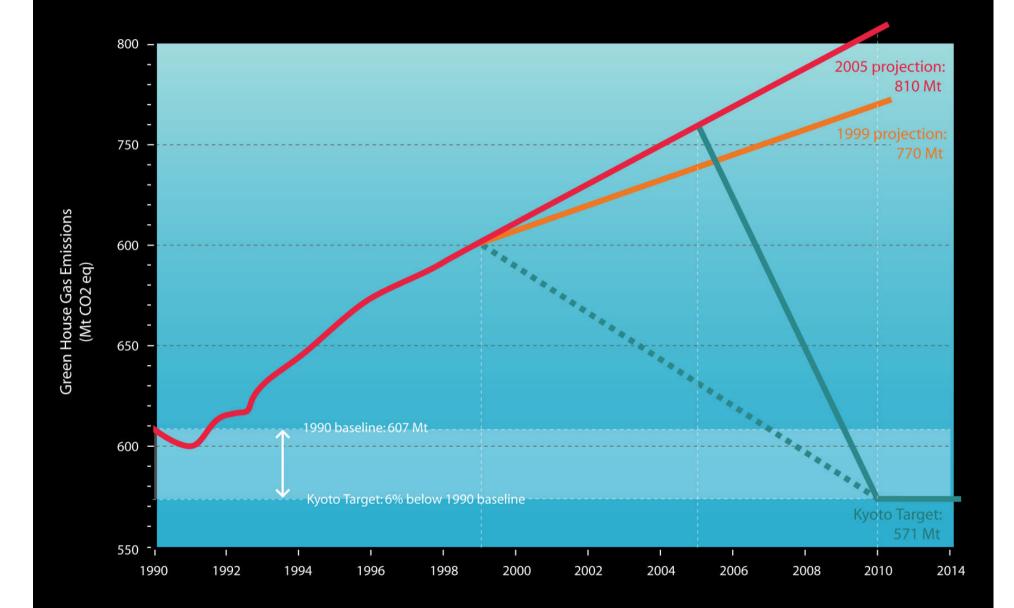


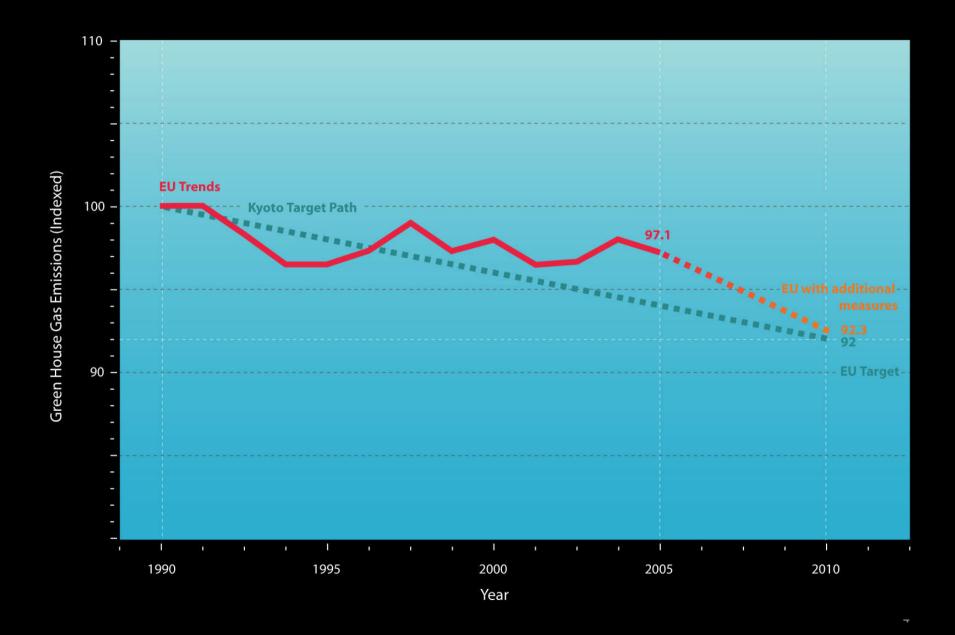
City of Greater Sudbury Mayor and Council October 25, 2006

Climate Change in the Media



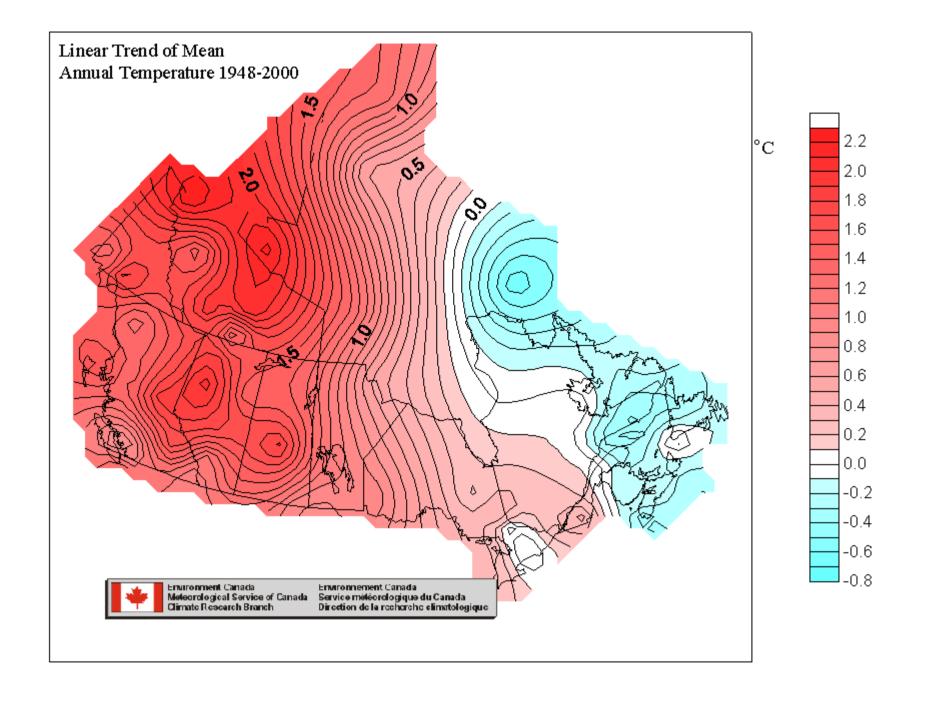






Overall Ranking of OECD Nations on 25 Environmental Indicators

1.	Switzerland	9.20	16.	Greece	13.38
2.	Mexico	10.72	17.	Norway	13.40
3.	Turkey	10.74	18.	Italy	14.01
4.	Austria	11.18	19.	Spain	14.25
5.	Netherlands	11.24	20.	Finland	14.32
6.	Germany 11.30		21.	Japan	14.67
7.	Korea	11.62	22.	Luxembourg	15.45
8.	Denmark 11.84		23.	France	15.56
9.	Hungary	12.07	24.	New Zealand	15.80
10	. Sweden	12.25	25.	Belgium	15.89
11	.Czech Rep.	12.32	26.	Iceland	16.52
12	Portugal	12.82	27.	Australia	20.58
13	.UK	13.19	28.	Canada	21.87
14	. Poland	13.25	29.	United States	22.14
15	. Ireland	13.31			



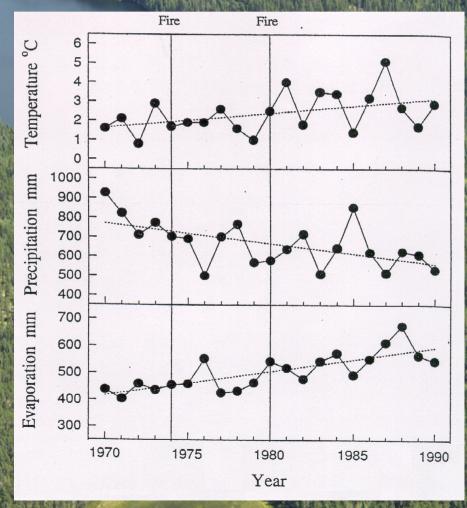
Experimental Lakes Area - North West Ontario

Increase of 1.4 degrees in average temperature led to 30% increase in evaporation between 1970 and 1990

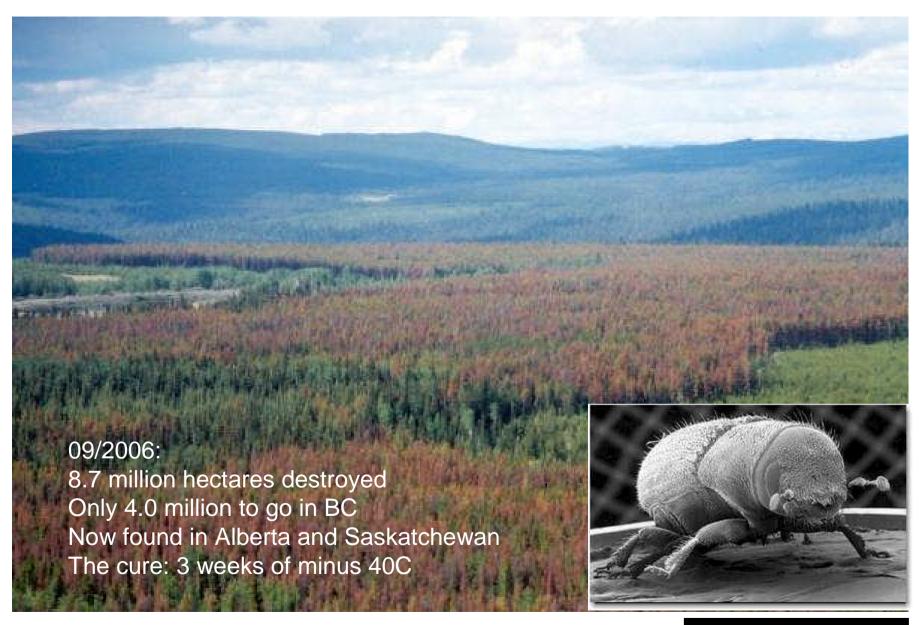
Temp

Precip

Evap



Schindler et al

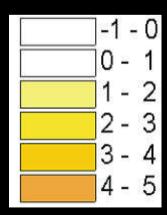


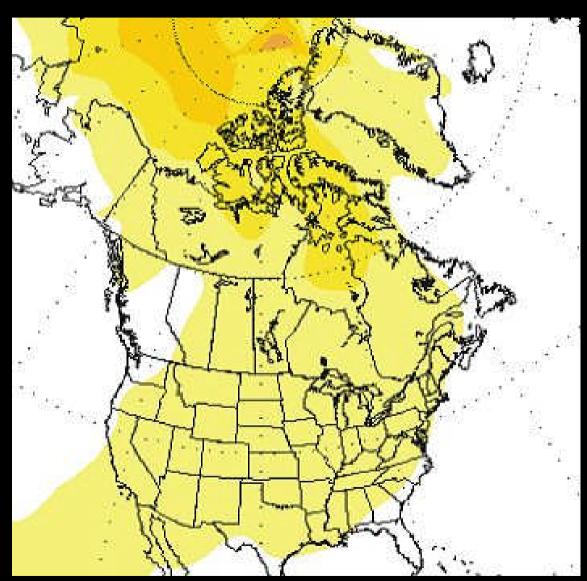
Mountain pine beetle

Long Term Temperature Changes

Average Temperature

2010-2030 with respect to 19**75-1995**

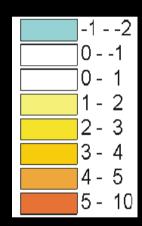




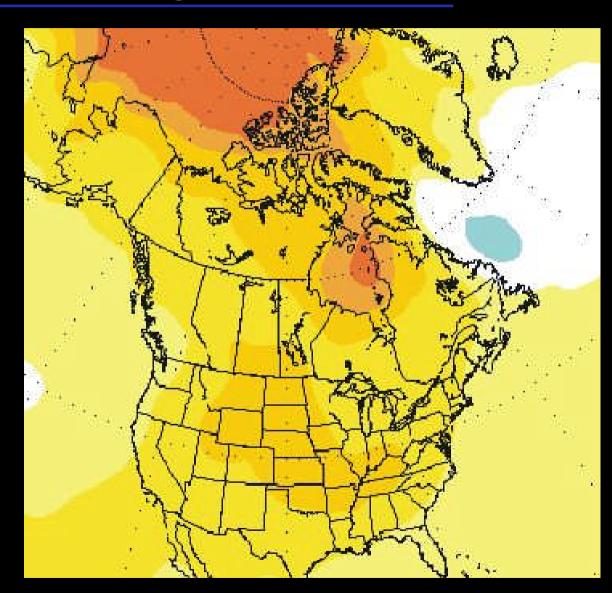
Long Term Temperature Changes

Average Temperature

2040-2060 with respect to **1975-1995**



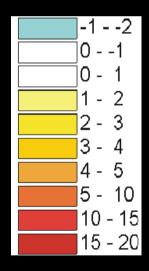
Sudbury to experience additional 2 to 4 degree average temp increase by 2050 esp. in fall/winter/spring (3-5 degrees)

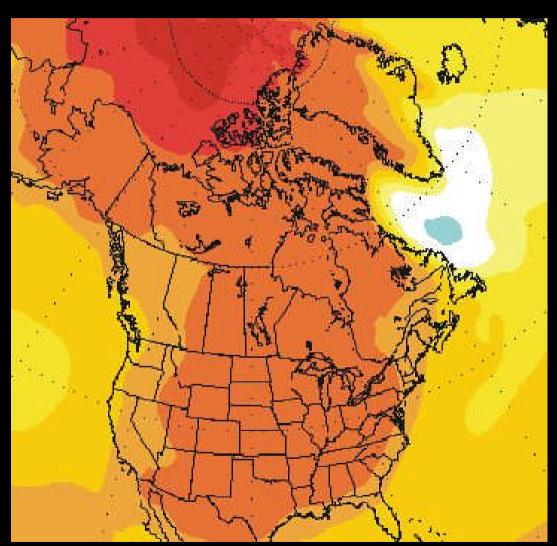


Long Term Temperature Changes

Average Temperature

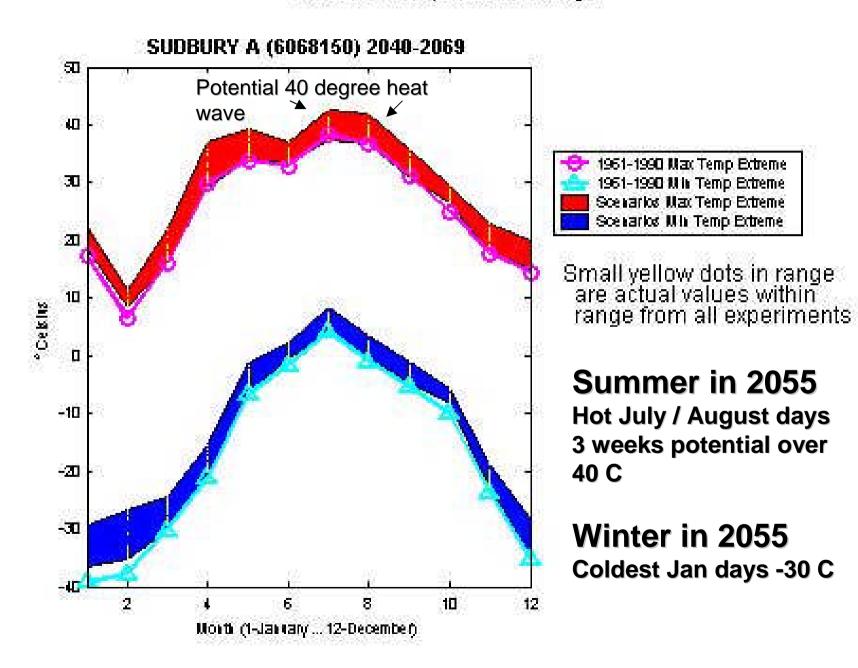
2080-2100 with respect to **1975-1995**







Extreme Temperature Range



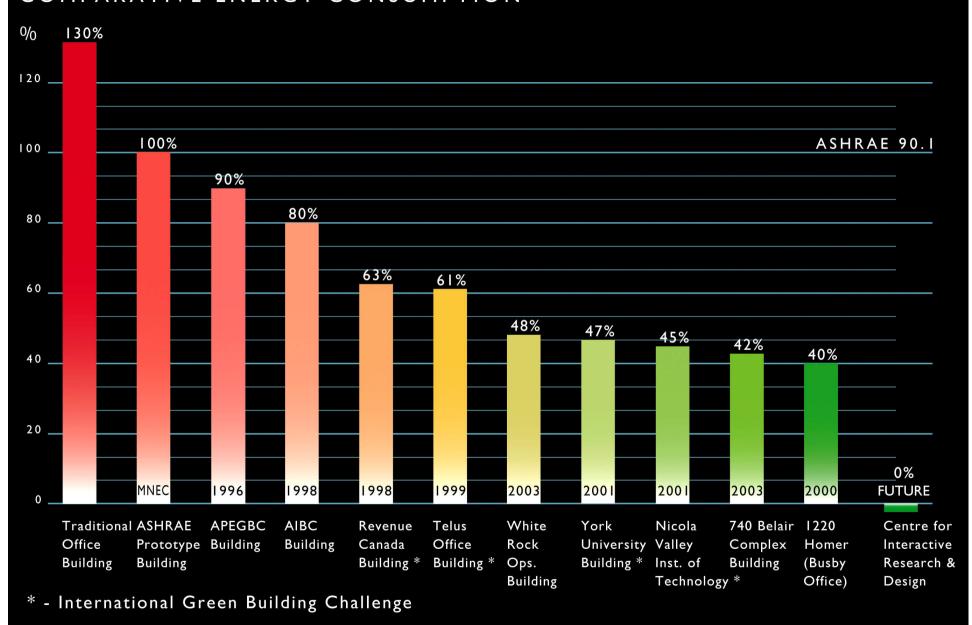
Canada's Role

Canadian Construction Industry:

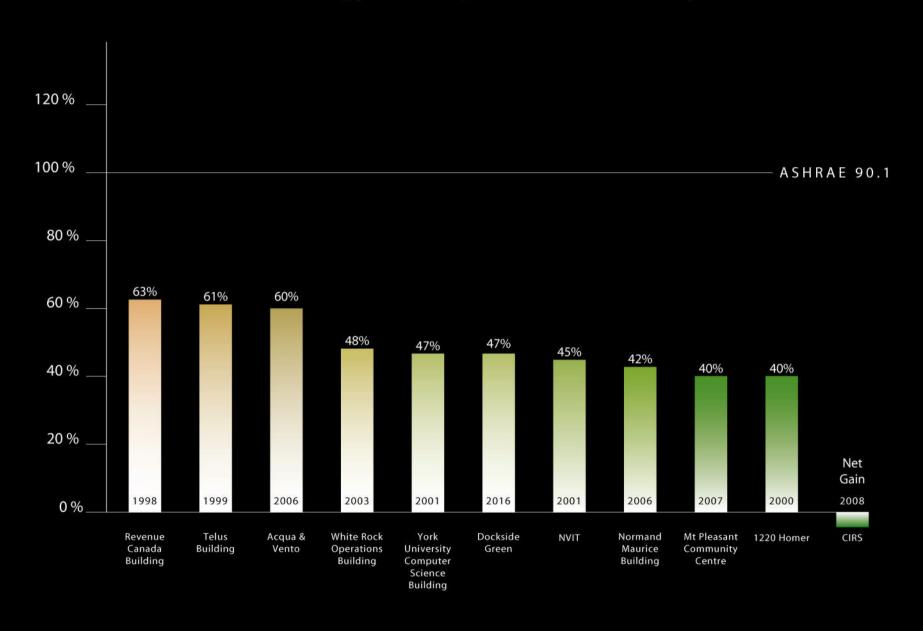
- Approximately 10 billion square metres of existing buildings
- Buildings contribute 10% of GHGs through operating energy
- Construction industry contributes 30% of GHGs indirectly through the production, transportation and waste of materials
- Cement production accounts for 8% of GHGs or 53 Mt (1 tonne of cement = 1 tonne of CO₂)
- Construction debris accounts for 30-40% of landfills
- Construction industry has potential to realize over 40% of Canadian GHG reductions to meet Kyoto targets.



COMPARATIVE ENERGY CONSUMPTION



Predicted Energy Consumption of Selected Projects



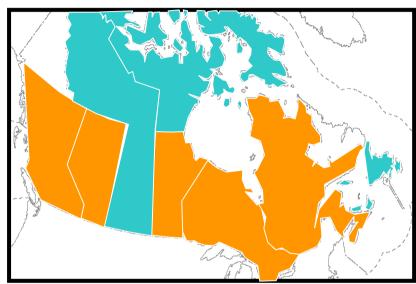
CaGBC Membership Growth

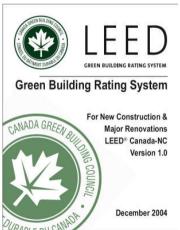


CaGBC, October 2006: 1,480 members



LEED® Canada-NC 1.0 Green Building Rating System™







LEED® ACCREDITED
PROFESSIONALS: (April '06)

Total: 2,800

LEED® REGISTERED PROJECTS:

(Aug '06) Total: 277

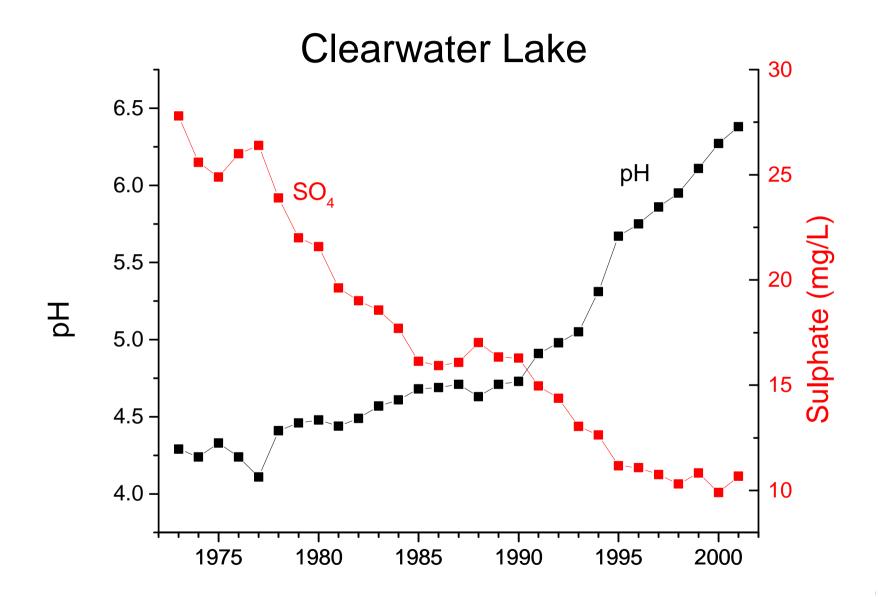
LEED® CERTIFIED PROJECTS:

(Aug '06)

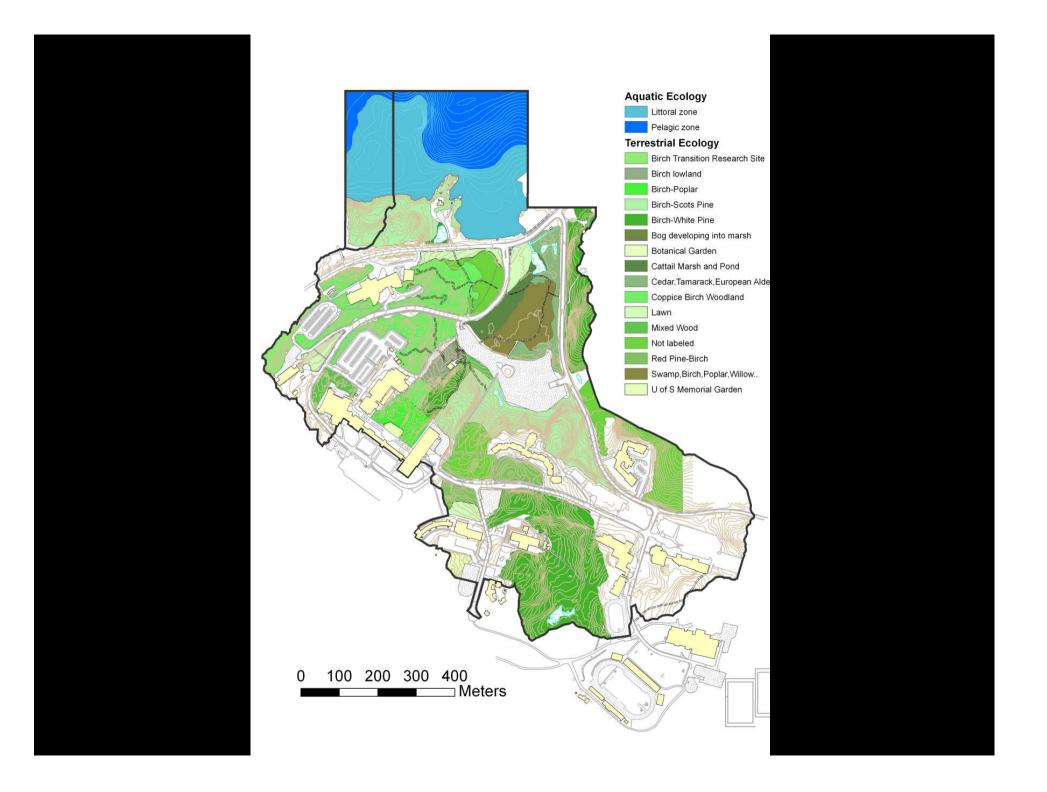
Total: 47 Canadian Projects: LEED Certifications Certified Silver Gold Platinum **Total** LEED BC-NC 2 LEED Canada 0 15 LEED -NC (USGBC) 0 22 NEED-CI (USGBC) 0 8 14 0 Total 15 18 47

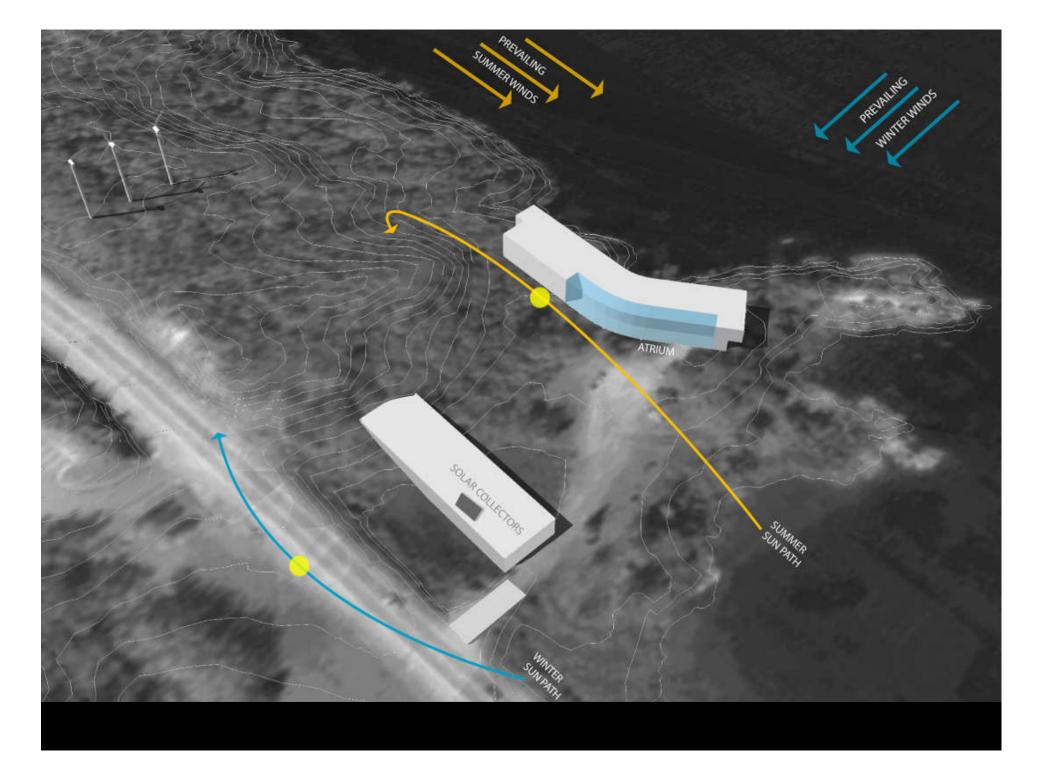


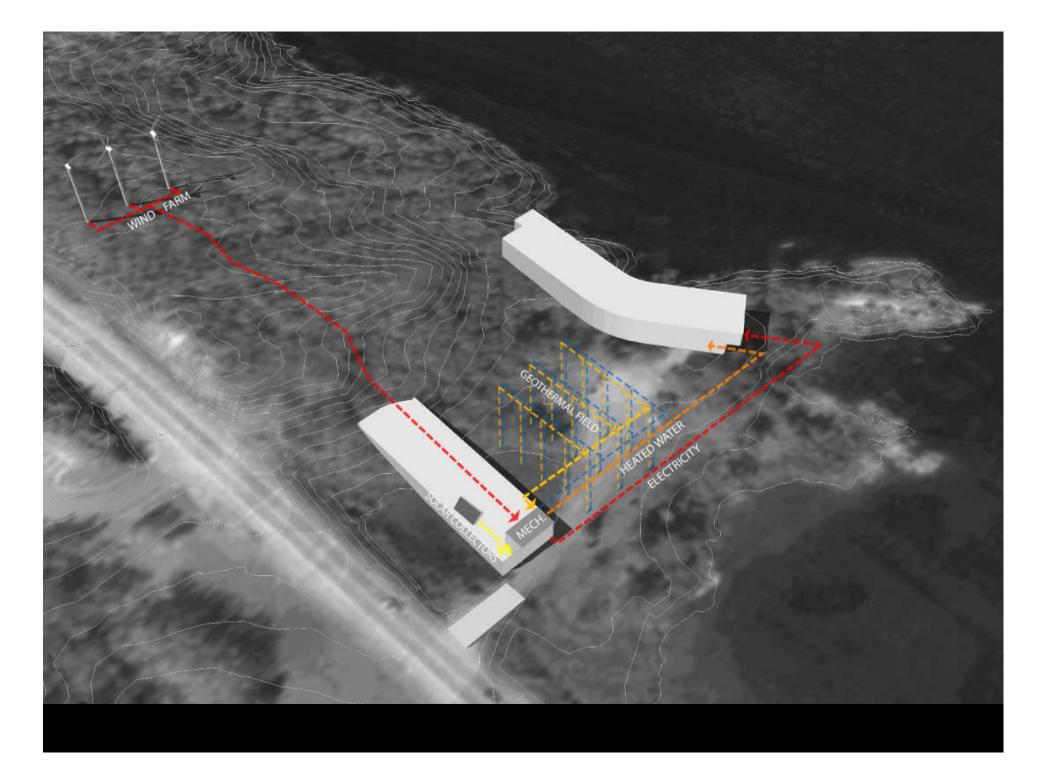




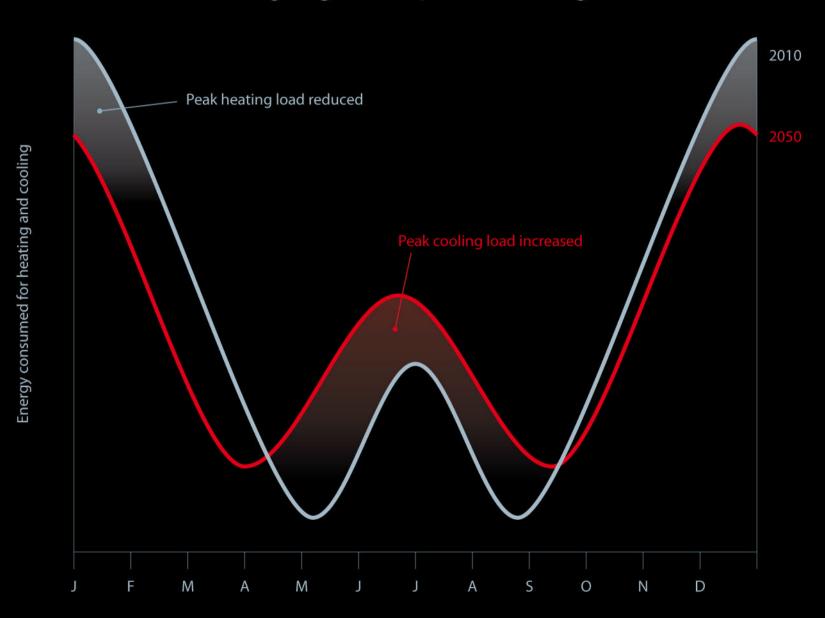




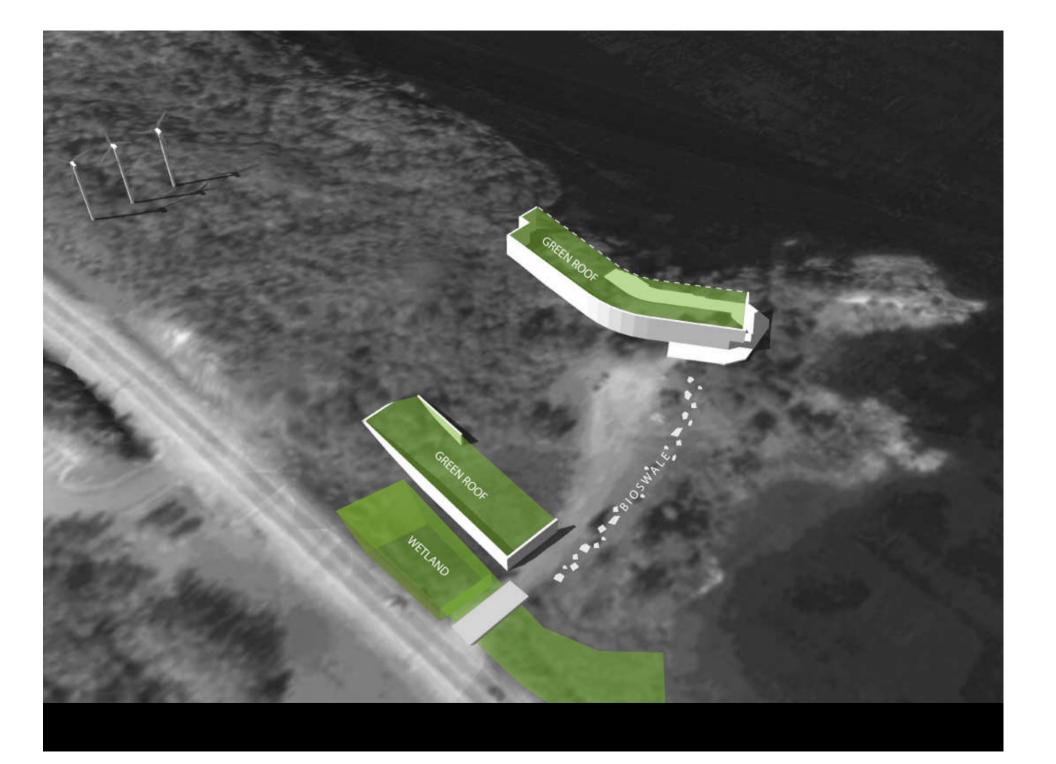




Designing for Temperature Change







Living with Lakes Centre Sustainable Design Strategies

- Research in the building is a top priority
- Designed to attract and retain best staff and faculty
- Showcase rehabilitation strategies
- Education and outreach programs
- 70% below MNECB
- Geothermal source, radiant slabs
- 20% windpower
- All Surface water cleaned, returned to the lake
- Zero air and water pollution on the site with monitored proof
- Flexible design for future laboratory uses
- Composting toilets
- 100% daylighting
- Healthy air quality

