WELCOME TO THIS PRESENTATION AND THANK YOU TO HCDC FOR THE OPPORTUNITY!

I PROPOSE TO ASK A QUESTION:

Could Haliburton County become a major Canadian hub of environmental initiatives?

A Wonderful Place

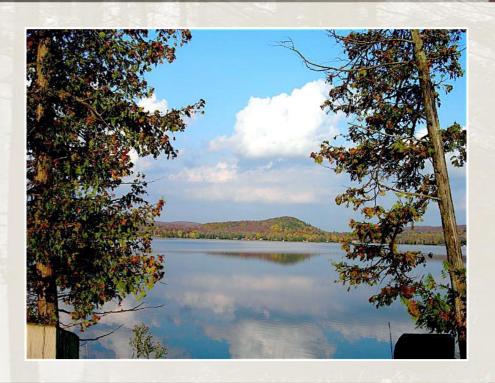


Haliburton is a great Canadian beauty spot

Lakes

Forests

Wildlife





Haliburton Has....

Fleming College **Haliburton Forest Murray Schafer** The Sculpture Forest **U-links** School of the Arts



Abbey North, Haliburton









COLLECTIVELY, WE FACE A MAJOR PLANETARY CRISIS.



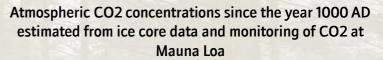
Carbon dioxide concentration in the atmosphere before the industrial revolution, 250 years ago, was 280 ppmv (parts per million by volume).

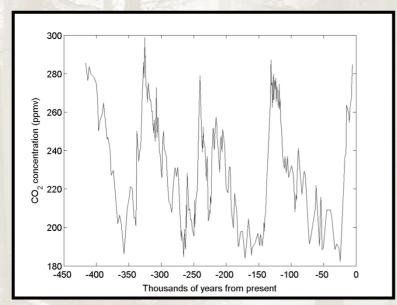
It has not been as high as 300 ppmv for at least 20 million years.

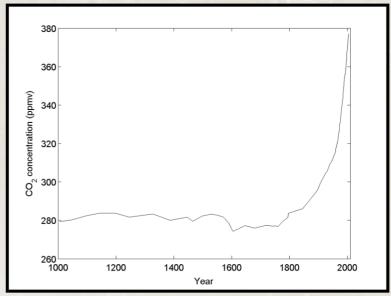
Today it is at 387 ppmv and rising faster than at any time in human history, despite the Kyoto Protocol and international efforts to curb carbon.



Atmospheric CO2 concentrations during the past 420,000 years based on the composition of air entrapped in the Vostok ice core.









Once the carbon dioxide concentration in the atmosphere reaches

450 ppmv, conservative estimates (for example, the Intergovernmental Panel on Climate Change or IPCC) say that roughly 20% of the planet's current species will have gone extinct.

That could well be in the next few decades unless the world moves to cut emissions AND concentrations of carbon dioxide in the atmosphere.



Predictions are that concentrations of carbon dioxide will reach 560 ppmv by 2065.

At that concentration, as many as 70 per cent of the planet's current forms of life will go extinct, meaning it will be a mass extinction spasm.

There have only been five of these in the history of life on the planet.

The last happened 65 million years ago when the dinosaurs (and a lot of other stuff) went extinct.





The very best brains in the world are saying that carbon dioxide concentrations must fall to 350 ppmv for life as we know it to prevail on Earth.

Every molecule of carbon counts

Abbey North

In the words of Alanna Mitchell:

"We are at a highly unusual time in the planet's history when every single molecule of carbon dioxide counts.

For the sake of life as we know it on the planet, we must cut emissions of carbon dioxide. We must reduce the carbon footprint of every individual in the world."

Every molecule of carbon counts

Abbay North

"Doing it on the scale of a whole county – (such as Haliburton) – where everyone can pull together to use less carbon in their own lives AND do their spending and economic production in the local region, is a huge benefit."

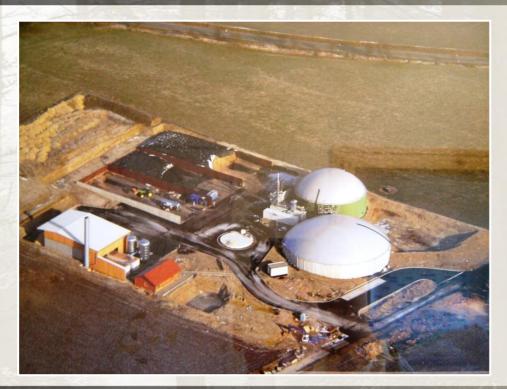
And if we do it, others will follow.



We Canadians have been woefully slow in responding

Jühnde, Germany





HCDC Presentation: J.Patterson: Jan. 30, 2009

Jühnde, Germany







HCDC Presentation: J.Patterson: Jan.30, 2009



SW England in Cornwall

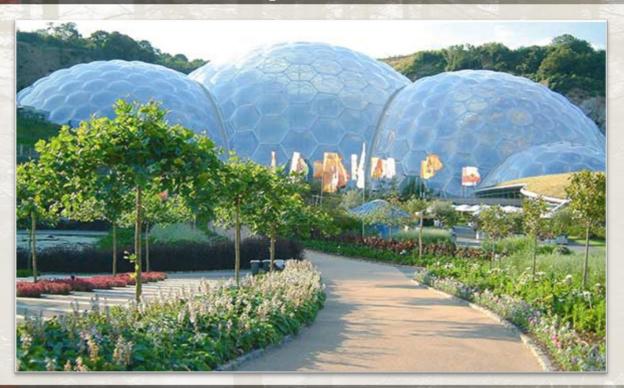
An old china clay mining pit to supply factories that make bone china





HCDC Presentation: J.Patterson: Jan.30, 2009









HCDC Presentation: J.Patterson: Jan.30, 2009





Inside Eden





Inside Eden





Spring at Eden







Summer at Eden







Autumn at Eden







Winter at Eden







Eden at night







Eden's "Flashbulb Mania" winner





HCDC Presentation: J.Patterson: Jan.30, 2009





Now, the Eden Project hosts

2 million visitors a year

SOME HAVE BEEN WONDERING

A POSSIBLE HALIBURTON INITIATIVE

"ABBEY GARDENS"

"7 GENERATIONS"

What if...

Abbey North

What if a place of beauty, demonstration and education were established here?



Haliburton in spring







Haliburton in summer







Haliburton in autumn







Haliburton in winter





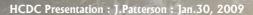


Existing Initiatives

Abbey North

Churches **Farmers Local Food Group** CSA - the Tylers Solar panels Windmills People's own vegetable gardens





What if...



What if Haliburton were to take a lead in Canada in caring for our environment, county-wide?

- ▲ Growing our food locally and sustainably
- ▲ Generating our own electricity locally and sustainably
- ▲ Reclaiming much of what goes into our landfills for re-use
- Composting our kitchen and yard wastes
- ▲ Building and improving our homes with their carbon footprints in mind

What if...



What if a site were designed to attract people to come and see what is possible?

With...

- ▲ Greenhouses and outdoor gardens
- ▲ Solar and wind farms for electricity generation
- ▲ Waste treatment wetland
- ▲ Bio-energy plant
- ▲ Staff living quarters that are environmentally friendly

Abbay North

What if we included...

An education centre to teach families

A kitchen area for both training and preparing meals for a 100-mile diet restaurant

An energy plant for heat and power

A vegetable outlet

A gift shop — all enviro-friendly products

A composting area

Maybe even a B and B for overnight guests



What if we included, perhaps...



An outdoor concert area – an amphitheatre

A centre for innovation and incubation of new ideas

A series of walks, with items of interest clearly sign-posted





"Abbey Gardens" Artist Rendering



Artist: Ted Radema

2-story 2400 sq. ft. townhouses

51 ft. diameter dome greenhouses

Wind turbines to be placed on western ridge



Composting

Summer vegetable garden

Garden Centre

Access roads

Parking

Distance between and including access roads 1000 ft.

Grid used 50 ft at 45 degrees

"Abbey Gardens" Artist Rendering





"Abbey Gardens" Artist Rendering



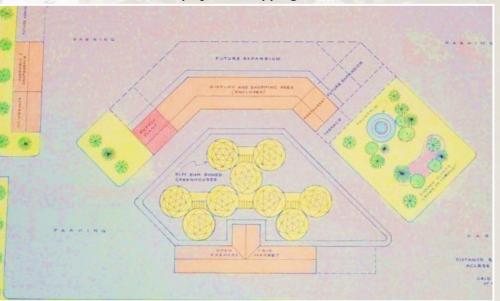
Display and shopping area

Future Admin

Assembly & Conference

Maintenance

Energy plant



Future expansion

Restaurant

Terrace

Fountain

Garden plants grown on compost

Open-air farmers market

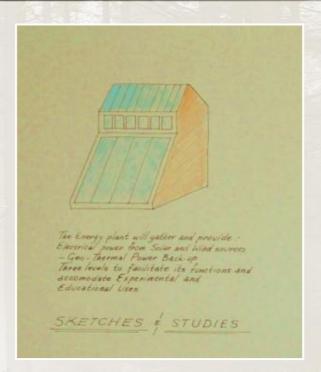


The energy plant will gather and provide:

Electrical power from solar and wind sources

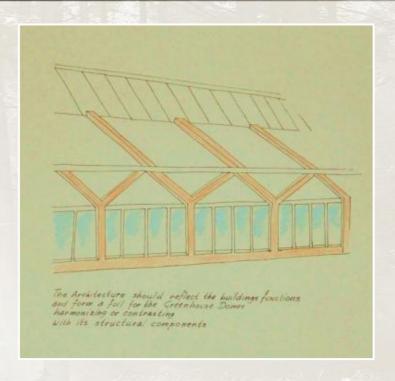
Geothermal power backup

Three levels to facilitate its function and accommodate experimental and educational uses



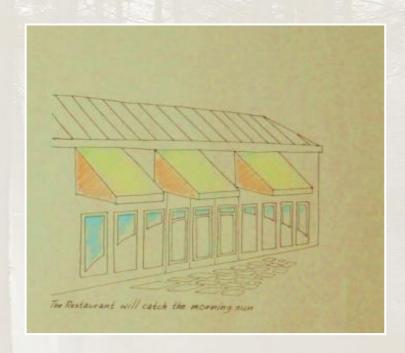


The architecture should reflect the building's functions and form a foil for the Greenhouse Domes, harmonizing or contrasting with its structural components.





The Restaurant will catch the morning sun



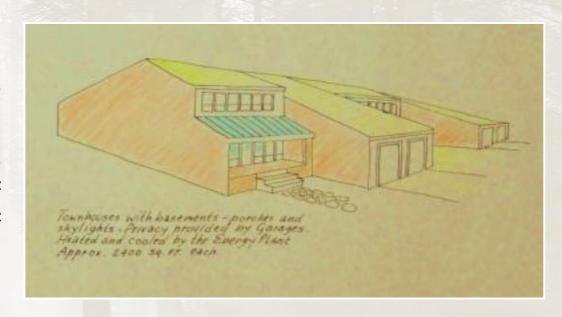


Townhouses with basements

– porches and skylights –
privacy provided by garages.

Heated and cooled by the Energy Plant

Approximately 2400 sq ft each



Beyond "Abbey Gardens"...Encouraging others Abbay North







We see countless opportunities for others to implement the best ideas throughout the county

Abbey North's coming greenhouse







Abbey North's coming solar installation Abbey North



HCDC Presentation: J.Patterson: Jan.30, 2009

Abbey North's wind turbine









What we are speaking of is...

An action research project aimed at developing a county-wide demonstration of food and energy sustainability in Haliburton County – one that will attract and teach others practical approaches for a dramatic reduction in the county's carbon footprint and solving this planetary crisis – locally.

Another Question



Is it possible?

If we do it, others will follow.