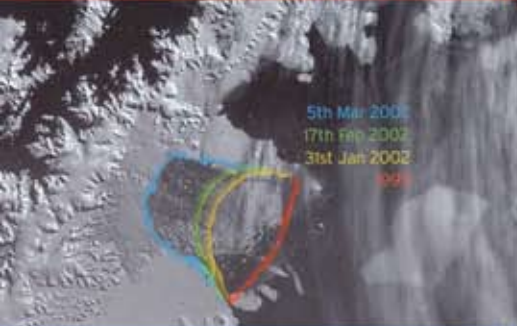




SATellite IMAGE OF THE ARCTIC IN 2003, WHICH ILLUSTRATES THE DIMINISHED RANGE OF SUMMER ICE SINCE 1979. THE GREENLAND ICE CAP CAN BE SEEN TO THE RIGHT.



This composite image of the Antarctic Peninsula shows the progressive break-up of the Larsen B ice-shelf.



The Nobel winning Intergovernmental Panel on Climate Change has reported that global sea levels today are rising more than 3 mm a year.

The University of Ottawa in Ontario claims the rapid deterioration of Canada's ice shelves is producing floating glaciers that fill the Bays in the Arctic and Antarctic. This NASA satellite image shows the Ayles Ice Shelf (in centre) breaking off Canada's Ellesmere Island in the Arctic.

Greenland's ice sheet holds enough water to drive up the sea levels by 7.0 metres.

Whilst these changes are irreversible, China is becoming over industrialised, making everything the rest of the world won't make to satisfy export demands. But also, much of China's demand for minerals comes from its own consumers and central government modernization projects.

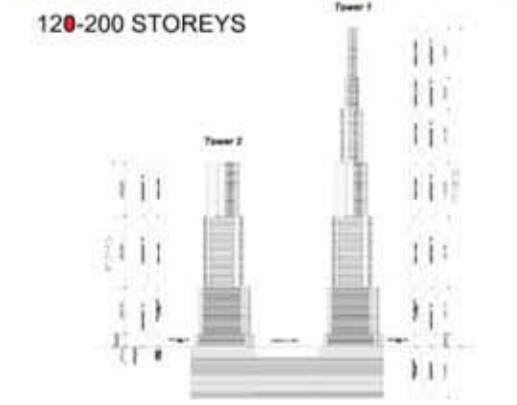
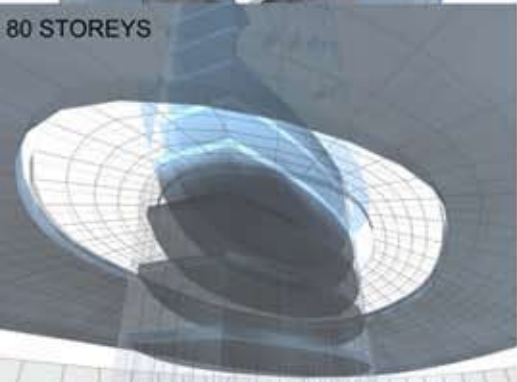
After many years of rapid growth, the Guangdong province for example, is taking the lead determined to solve it's shortage of energy resources and environmental pollution through GREEN ENERGY solutions

It is imperative my company and my colleagues, architects and engineers work to make China a "world leader" in clean energy; through URBAN RENEWAL The decisions we will make as Architects and Urban Planners to accommodate the transformation of China, require strategies for saving the natural ENVIRONMENT from the consequences of unrestrained Urban growth:

CLEAN ENERGY + CO2 ABATEMENT SUBMISSIONS BY INVITATION

	ASIA	URBAN MASTER PLANS (ESD / GREEN ENERGY PRINCIPLES)
2006	Yantai, 3.0 KM ² Carbon Neutral City	9 Million M ² GBA Multiple Towers Building Types and new City Infrastructure over 5 KM ² DA (in principle)
2007	Jiading Auto City Carbon Neutral City	1.0 million M ² GBA Multiple Towers and New City Infrastructure over 2 KM ² DA (in principle)
2008	Dalian Architecture as Green Power Station	Jinling Mansion, Dalian 60 storey (near zero emission) Tower DA (in principle)
2009	HCM City, Vietnam	Biotechnology / Nanotechnology Science Precinct SD Phase Multistorey Commercial Towers
2009	Shandong Province (Dezhou) Carbon Neutral City with zero Emission	20 KM ² Site Multiple building Types and New City Infrastructure Tendered Bid by invitation
2009	Shanghai Centre (715 metre Zero Emission Tower) Architecture as Green Power Station	
2009	Liaoning Province, Dalian 5.0 KM ² Vacation and Retirement Village / Carbon Neutral Community with zero emission vehicles	





CURRENT CO2 ABATEMENT SUBMISSIONS BY INVITATION

According to the World Watch Institute, air pollution from coal burning in China cost the economy \$63 billion in 2004 roughly 3% GDP.

Poverty, over consumption and environmental degradation are all aspects of the same problem, one of INDUSTRIAL DUPLICATION; ONE OF DISPROPORTIONATE TECHNOLOGIES, " by consuming multiple units of energy to produce less units of energy"

Governments of the world are looking for ways to produce more food with less land and water, without damaging natural resources or worsening climate change. So it is no longer enough for Architects and Developers to produce benign works of exceptional beauty: And it is no longer enough that new and modern buildings rely on just RENEWABLE ENERGY ALONE:

The creative process must highlight unexpected connections and possibilities To this end, China provides the world with the unique opportunity in history to work with the natural environment in a new way. The unique opportunity to employ world first technology, and abandon forever the depletion of natural resources.

We must overcome our reliance upon disproportionate returns for investments. We must overcome the boundaries of conventional thinking. China can dispense with disproportionate technology by embracing direct energy, revenue instant technology.

- Public policy, commercial logic and construction practices must respond directly to each primary energy source.

My company will specify world first Revenue Instant closed loop technology in China for any size of building.

From the bow and arrow to the industrial revolution, INNOVATION has come from 'CROSS DISCIPLINE' thinking the way ink jet technology from 1990's has provided the method for depositing cells in a 3D pattern to fabricate human organs digitally.

Today technology exists, which is not being adapted to BUILDINGS because of a mentality which is very short term, with a resistance to evolution in design and a reluctance to change in construction practices.

Environmental consultants worldwide agree, that if you consider long term design opportunities and building maintenance from the start the payback period could be less than one year.

Sustainable design proposals must be considered now, from the initial planning stages.

This is not empty rhetoric, it's about the mental landscape as much as the physical.

This is the pursuit of responsible ARCHITECTURE, memorialized in something more lasting than concrete, steel and glass.

Responsible architecture in China will transform the way we think about our environment, I believe, in the same way Galileo's telescope did 400 years ago.

AUSTRALIA

- 2009 CITY OF WYNDHAM TECHNOLOGY PRECINCT 2 KM2 ZERO EMISSION CARBON NEUTRAL CITY
- 2010 INITIATIVES IN INFRASTRUCTURE RESILIENCE MITIGATE CLIMATE CHANGE
- 2011 ENGINEERING SOLUTIONS TO MITIGATE SEA LEVEL RISE IN GLOBAL CITIES
- 2012 FLINDERS STREET TRAIN STATION INTERNATIONAL COMPETITION

CHINA

- 2009 22 KM2 CLEAN ENERGY CITY WUCHENG DEZHOU SHANDONG
- 2010 CLEAN ENERGY SUPER TOWERS, ZHENGZHOU HENAN
- 2011 1KM2 CLEAN ENERGY AUTO CITY JIADING SHANGHAI
- 2012 2 KM2 CLEAN ENERGY CITY YANTAI SHANDONG
- 2013 1KM2 CLEAN ENERGY CITY HUNAN

INDIA

- 2013 SOLAR CITIES INITIATIVE

