We don’t have much time left:

“How long have we got? We have to stabilize emissions of carbon dioxide within a decade, or temperatures will warm by more than one degree. That will be warmer than it has been for half a million years, and many things could become unstoppable. If we are to stop that, we cannot wait for new technologies like capturing emissions from burning coal. We have to act with what we have. This decade, that means focusing on energy efficiency and renewable sources of energy that do not burn carbon. We don’t have much time left.”

James Hansen, Director
NASA Goddard Institute for Space Studies
2/17/06 The Independent

We have met the enemy and he is us…

- How we get around
- The homes we live in
- The buildings we construct
- How we use land
- What we eat
- What we buy
- How much we waste

Our main source of electricity: Coal
The Human Cost

"a coal miner was more than 6 times as likely to get killed on the job as the average U.S. worker in 2004."

Our Global Climate Crisis is more than an environmental issue, it is an issue of civilization itself.

Need action for sustainable development in all sectors of society

- Education
- Business
- Government
- Faith
- Youth
- Communities
- More...

The Role of Higher Education

The planetary emergency unfolding around us is not a crisis of technology, although it certainly has technological aspects. It is rather first and foremost, a crisis of thought, values, perspectives, ideas and judgment. In other words, it is a crisis of mind, which makes it a crisis for those institutions which purport to improve minds. This is a crisis of education, not one in education.

David Orr
“The best way to start having new ideas…

“…is to stop having old ideas.”

An invasion of armies can be resisted; that of ideas cannot.
—Victor Hugo

Let’s Get Started…
What it's going to take (according to Ray Anderson)¹

- Eliminate Waste
- Reduce Emissions
- Become Energy Efficient
- Use Renewable Energy
- Recycle
- Improve our Transportation System
- Make a Culture Shift
- Redesign Commerce Itself

Founder and President of Interface Corporation, and author of "Mid-Course Correction"²

Close your eyes and find your comfort zone

Real Leadership is extraordinary courage by ordinary people.
“We need to remake the human presence

“We need to remake the human presence.”
Ray Anderson

Value of the World’s Ecosystem Services

$33,000,000,000,000
33 Trillion Dollars Annually

The Triple Bottom Line: People, Planet, Prosperity
Sustainability involves a transition:

**From**
- Fossil energy
- Wasteful linear extractive processes
- Living off nature’s capital
- Loss of cultural & biological diversity
- Exploitation
- War

**To**
- Renewable energy
- Cyclical resource use
- Living off nature’s income
- Maintenance of cultural & biological diversity
- Justice
- Peace

Adapted from Education for Sustainability by Anthony Cortese

“Hypocrisy is the first step to real change.”

Hunter Lovins

“We intended merely to be prosperous and healthy, but have inadvertently triggered a mass extinction of other species, spread pollution throughout the world, and triggered climatic change – all of which undermines our prosperity and health.”

David Orr
The Nature Of Design
(2002)