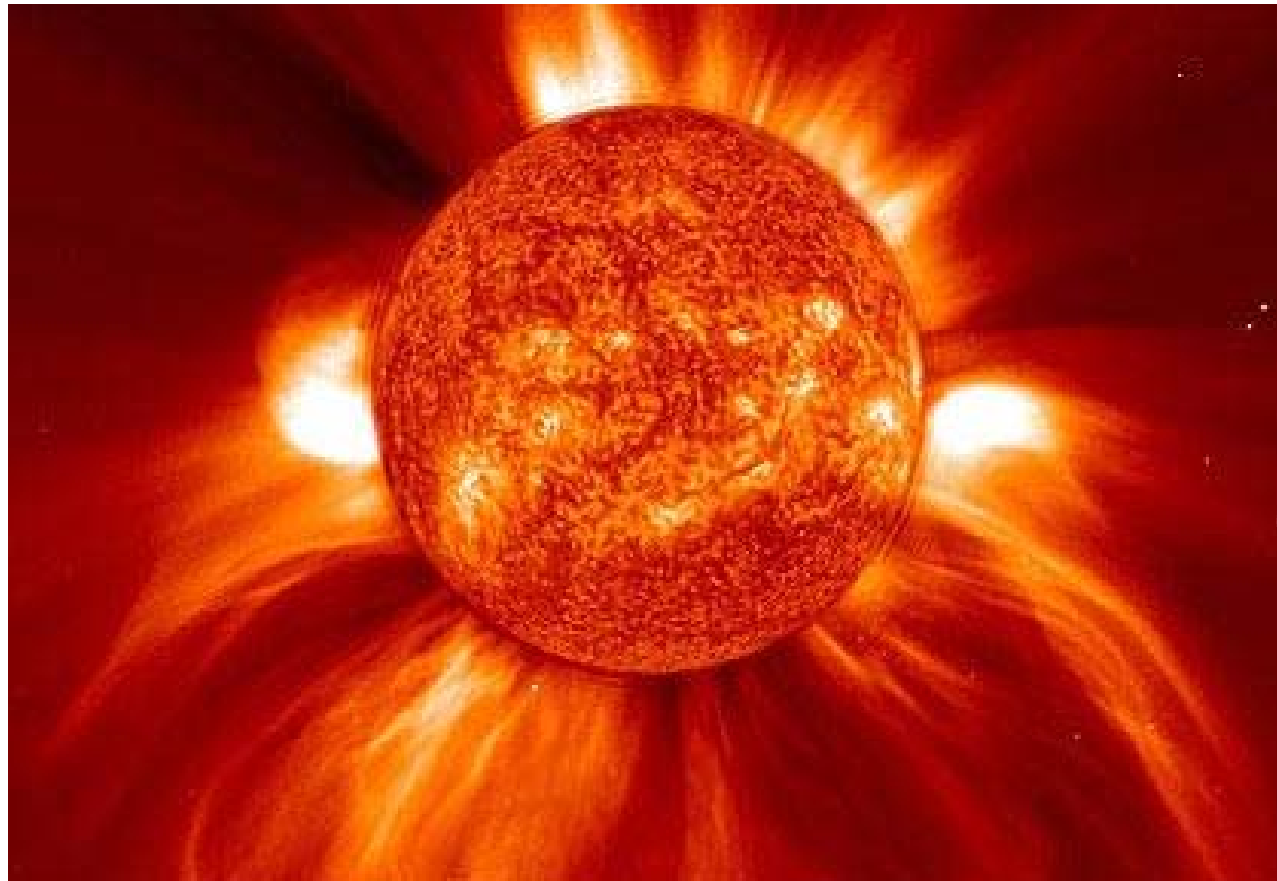


***Global Warming &
Sustainable Cities***

**Presented by:
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Most scientific and public opinion has come to the conclusion that the accumulation of greenhouse gases (especially carbon dioxide) in the atmosphere is the primary cause of global warming.

Global warming is the increase in the average temperature of the Earth's **near-surface air and oceans** and its projected continuation..



Atmospheric carbon dioxide has increased by about 35% since the beginning of the industrial age.

Most believe that this accumulation is due to human activity in burning fossil fuels and deforestation.



Global warming threatens the basic elements of life for people around the world — access to water, food production, health, and use of land and the environment.



Peak Oil: The other side of the Global Warming coin



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Peak oil is the point in time when the maximum rate of global petroleum extraction is reached, after which the rate of production enters a decline.

This phenomenon may be compounded by the global increase in oil consumption driven by emerging economies like China and India.

Is an oil shock coming?

**Resilience = a system's ability
to withstand shock.**

Do global economies and our urban habitats
currently have the resilience to withstand a
severe oil price shock?



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THE END OF
CHEAP

Oil

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BONUS Tear-out Map of Washington, D.C.

So What Do We Need?

A Low-Carbon Economy (LCE)

is a concept that refers to an economy which has a minimal output of greenhouse gas (GHG) emissions into the biosphere, but specifically refers to the greenhouse gas carbon dioxide.

The transition to a low-carbon economy will bring challenges for businesses but also opportunities for growth.

Policies to support the development of a range of low-carbon and high-efficiency technologies are urgently needed.

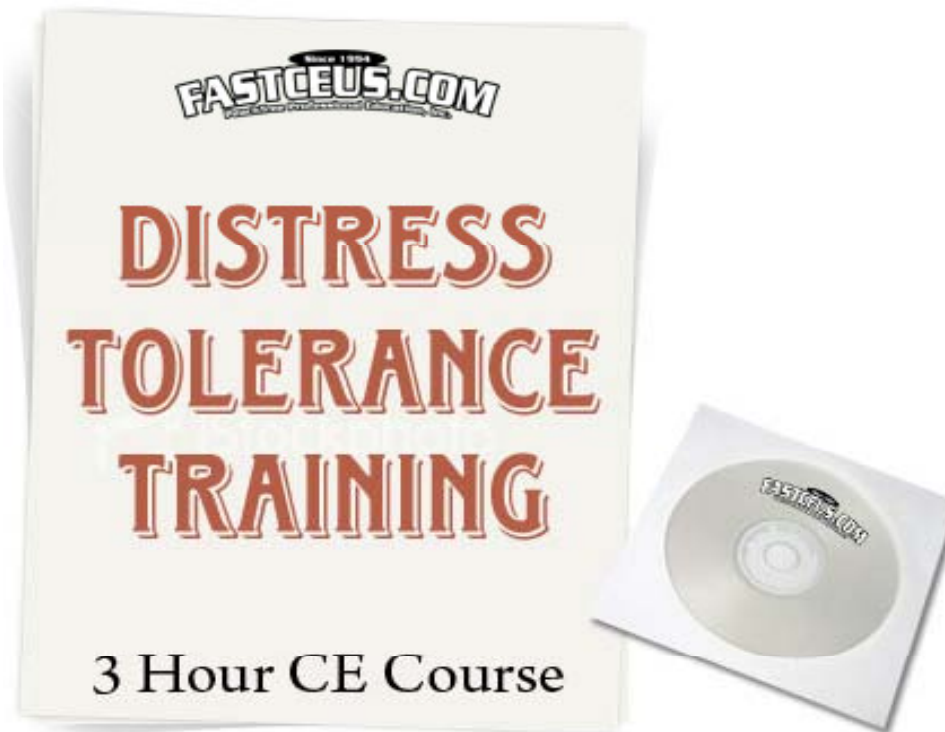
**Any sustainable city must have
a low-carbon economy.**



Most modern industrial transport, agricultural and industrial systems rely on the relative low cost and high availability of oil.

The post-peak production decline, and likely severe increases in the price of oil, will have negative implications for the global economy.

All cities, not just the major direct polluters, will be impacted by climate change, whether by physical impacts, new regulations and risks to commerce.



**Cities will need to work with
businesses in identifying opportunities
to operate more sustainably
and
in creating solutions to the challenges
of transitioning to sustainability.**

**New carbon-reducing
regulations will impact energy
pricing across entire
operations, supply chains and
distribution systems.**

Cities and companies will face reputation risks if they are unresponsive to climate change, whether in their operations, products or policy positions.



Climate change also presents huge economic opportunities for cities and businesses to create new climate-friendly technologies and products such as energy efficient computer servers, fuel-efficient equipment or carbon-free consumer items, or...

The solar powered bathing suit



The solar powered lawn mower



Companies that move quickly to develop and utilize such technologies will have a competitive advantage over their industry peers, especially as the low-carbon global economy takes hold.

Case in point: Toyota and Honda's aggressive push to provide hybrids and other fuel-efficient vehicles has given the Japanese automakers a distinct competitive edge over struggling U.S. automakers.



To reduce greenhouse gas emissions to the levels scientists say are necessary, the world must undergo the next industrial revolution to create a new low-carbon global economy.

This transition will require trillions of dollars of investment that will lead to entire new industries and major job creation and revitalized urban areas.

U.S. Department of Commerce's economic data shows that investments in clean energy create more jobs per dollar invested than tax cuts, military spending, or oil and natural gas development.



**The
American Recovery and
Reinvestment Act of 2009**
is an economic stimulus package
enacted by the U.S. Congress and
signed into law in February, 2009.

Among its broad provisions and spending, the plan includes **\$61 billion** for the development of green energy and energy efficiency initiatives.

Are there opportunities for businesses?



**Do you sell appliances?
\$300 million to buy energy efficient appliances**

**Are you in transportation?
\$300 million for federal fleet electric vehicles**

How about \$5 billion for weatherizing, \$2 billion for advanced car batteries, \$6 billion for renewable energy and electric transmission technologies.

It's a long list.

The occasion is piled high with difficulty and we must rise with the occasion. As our case is new so must we think anew, and act anew."

--Abraham Lincoln

Don't agonize – organize.

**BICEP – Business for Innovative Climate
& Energy Policy**

www.ceres.org/bicep



BICEP Nine Principles for Innovative Energy and Global Warming-Fighting Policy:

**Set short- and long-term greenhouse gas reduction
targets**

Stimulate green job growth

Adopt national renewable energy standard

Capture vast energy efficiency opportunities

Continued..

Continued..

Boost investment in renewable energy, energy efficiency and carbon capture and storage technologies

Establish cap-and-trade system with 100% auction of carbon allowances

Encourage transportation for clean energy economy

Limit construction of new coal plants to those that capture and store CO₂

Assist developing countries in adapting to climate change and reducing carbon emissions

What can you do to move your city toward sustainability?



Organize!

Join or create your own arena for business involvement in advancing climate and energy policies to counter the far-reaching risks and challenges posed by global climate change.

Work directly with key allies in the business community, local political leaders and with members of Congress to pass meaningful energy and climate change legislation to foster sustainable business practices.

**Drive a shift to local,
decentralized generation of wind
and solar power.**



**This must happen much faster than
business as usual in order to ensure
strong growth in the
clean energy industries
and jobs that are key to solving
environmental and economic crises.**

Seriously research your options and make investment in slashing energy waste in order to quickly, cheaply and effectively cut emissions.



**The recent economic crisis and the
looming threat of global warming
together present a profound economic
opportunity for U.S. businesses
and
an opportunity to develop more
sustainable U.S. cities.**

The bold steps that are needed to restore the US economy are closely related to actions needed to solve the climate crisis.

A rapid transition to a 21st century, low-carbon economy will create new jobs and stimulate economic growth while stabilizing the earth's climate.

Thank you.



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