



Global Consensus for Radical Change to a Sustainable Energy Economy Letter from Al Gore on Clean Energy and Gulf Disaster

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Energy Self-Sufficiency for all Nations

For thousands of years, all countries on all continents were fully energy self-sufficient with solar, bio and some geothermal energy. Then the disastrous mineral fuel age started with the exploitation of coal to fuel steam engines and heating systems. This was followed by polluting petroleum to fuel combustion engines for millions of vehicles, and turbines in thermal power plants, ships and airplanes. Uranium was added to the black list of depleting finite mineral resources to kill humankind and to fuel more thermal power plants. The environmental and health consequences became disastrous and the global climate dramatically unbalanced. Poor nations became much poorer from the curse of mineral energy imports, while the few energy exporting countries and coal & oil & gas multinationals became filthy rich on the public back.

In little more than a century most of these mineral energy resources were squandered to the bitter end, with most nations still dependent on imports from far afield. This caused energy wars with millions killed and billions of taxpayers moneys wasted.

Only renewable energies can solve this dilemma of negative trade balances experienced by most United Nations members - coupled with environmental disasters - and set them free of costly energy imports.

The competition between renewable energy systems using solar, wind, water, bio, and geothermal sources will fix the problem. While most RE sources provide irregular energy, a few systems like geothermal can supply constant, base-load heat and electricity,

The most abundant constant energy source comes from Mother Earth. Discovered millennia ago as hot springs, modern technologies now can harvest geothermal energy on a big scale, as pioneered by Swiss engineers, called GEOCOGEN = geothermal co-generation, supplying ample heat and electricity for all needs of modern civilization at an affordable cost. It is invisible, can be built near energy consumption centers and feeds the batteries of millions of future electric vehicles, replacing the inefficient, polluting combustion engines. See also www.geocogen.net.

The beauty of this evolution is that mineral energy resources no longer have to be burned up. Now they can be used to cover the growing demand of the chemical industry instead of just be burnt up.

Letter from Al Gore to ISEO

Yesterday, thanks to your hard work, the U.S. Senate did the right thing -- voting with the climate science and against a resolution that would have stripped the Clean Air Act's protections against climate pollution.

The Senate is to be commended for defeating Senator Lisa Murkowski's disastrously misguided proposal. But the truth is, in the face of the worst environmental disaster in our nation's history (in the Gulf of Mexico), Senator Murkowski's resolution never should have even reached the Senate floor.

The fact that we had to work to defeat this legislation is a testament to the continued strength of the fossil fuel lobby. **But the fact that we *did* defeat it gives us fresh momentum for the months ahead**, as our nation confronts the costs of our dependence on fossil fuels more directly than ever.

This summer, we can and must set our nation on the path of independence from oil and other dirty energy.

We must confront the growing plumes of oil now consuming the Gulf Coast and soon to affect much of the Eastern Seaboard. We must pass **comprehensive climate and clean energy legislation -- our best hope of staving off the catastrophic climate change that will dwarf the Deepwater Oil Disaster** in scope and devastation. And we must accomplish all this despite the millions of dollars that big oil will spend to defeat us.

Yesterday's vote shows that when we work together, we can defeat these forces. Over the last two years, over 250,000 of us have taken action to protect the Clean Air Act, including:

- Submitting over 180,000 comments to the administration urging the EPA to enforce the Clean Air Act's limits on greenhouse gases,
- Making over 30,000 phone calls opposing Senator Murkowski's proposal and
- Writing over 7,200 letters to the editor.

This summer, it's time to take exactly the same tenacity and commitment we have shown on these attacks on the Clean Air Act and win the biggest prize of all: comprehensive climate and clean energy legislation that **transitions our economy to clean energy**. We've won an important battle. Now, it's time to win the war.

Al Gore, Founder, The Climate Protection Action Fund

The Oil, Coal, Gas and Nuke Dilemma

- The multi-billion dollar disaster in the Mexican Gulf is destroying the ecosystem and bankrupting fisheries and coastal tourist areas !
- A coal ship on the way to China sinks on the Great Barrier Reef - destroying a unique ocean biotope !
- Gas pipeline explosions killing many people !
- Leaky old nuclear power plants, repetitive radiation safety threats everywhere, exorbitant two-digit billion cost of new nuclear power plants with huge budget overruns in Finland and elsewhere !

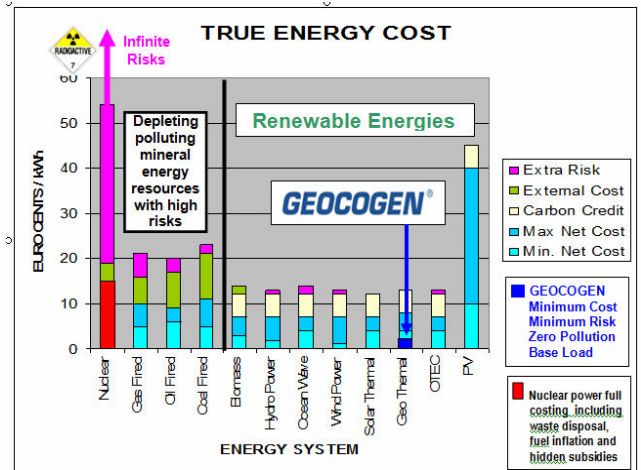
These points and thousands more signal the end of the irresponsibly disastrous mineral energy fuel age.



China had its first trade deficit in 2009 and the US is technically bankrupt due to mineral energy imports, beside its trillion dollar debts from the oil wars.

It is high time that politicians and industry decision-makers begin to understand the ISEO energy graph below; it clearly shows that the mineral energy age is condemned, and that the world energy demand can be fully satisfied with economic renewable energy systems.

The Honest Energy Cost Comparison



Competitive renewable energy gives even small countries like Slovenia the chance to become an electricity exporter, rather than to depend on coal, imported gas and uranium supplies and on imported power, which account now for about $\frac{1}{4} + \frac{1}{4} + \frac{1}{4}$ of their electricity consumption. They can close their dirty, uneconomical coal-fired power plants and the dangerous nuclear power, and also stop gas imports from politically risky countries.

Renewable energy like GEOCOGEN reduces the cost and can make all countries energy independent – even the worst polluters China, India and the USA can become 100 % clean energy countries and feed the millions of electric vehicles with domestically produced clean energy.

Bulgaria makes a good example: it shut down two unsafe reactors to satisfy the EU safe nuclear policy, and now has cancelled a new nuclear plant with runaway costs. It also can close the Maritza coal mines for ecological, safety and economic reasons.

