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THE TRANSFORMATION OF RISK

December 6, 2007

Introduction

Advanced Energy Research Organization, LLC (AERO) has identified several clean energy technologies which will transform the current world environmental and energy situation. This overview explains how the current risks of environmental global warming, air pollution and public health challenges, energy resource scarcity and competition, global terrorism and current electric grid obsolescence and vulnerability are transformed by these out-of-the-box technologies.

Technological Overview

Since 1900, significant advances in electromagnetic theory and innovative ways of generating electric power have occurred. These developments have been largely unheralded, ignored or actively suppressed. AERO has identified a very extensive portfolio of information, designs and scientists who are experts in this area.

These technologies are numerous and summarized elsewhere, but in summary fall into three broad categories:

- **Transitional Technologies:** These are systems that significantly increase the efficiency of existing internal combustion/fossil fuel systems. For example, several independent groups in the AERO network have developed computerized electrolysis systems that inject Brown's gas (hydrogen and oxygen) from water by using a car or truck's alternator for the needed electricity, resulting in an 80% decrease in emissions and up to 100% increase in fuel efficiency. A Chevrolet Tahoe SUV was obtaining 32 mpg, up from the usual 16 mpg, using this system. This process is in the beta-testing phase currently. It should be noted that most pollution from existing cars and trucks is due to the very low efficiency of the

internal combustion engine (ICE), which generally only converts 20-30% of available energy in gas or diesel to power. The above system greatly increases this efficiency, cutting in half fuel usage and greatly reducing pollutants.

Other scientists, using a multi-phasic electronic signal, have been able to electrolyze water into Brown's gas using very low power, thus closing the loop on the system while running a power load. (That is, they have been able to run the electrolysis system while also running a generator powering an external load.) Since the average home in America creates 400 gallons a day of waste water, which is mostly grey water and not sewage, all the power needs of a home can easily be met by such a system. The exhaust is water vapor, which can be collected, condensed and re-used for further Brown's gas creation.

These systems can also be used to inject Brown's gas into coal, diesel and oil based power plants to greatly decrease pollution and increase efficiency.

- **New Electromagnetic Generators:** These are generators that use unique circuitry to tap into the so-called zero-point or quantum vacuum energy located in the space around us. As far back as 1902, Nicola Tesla and Nathan Stubblefield demonstrated the ability to create a rotating magnetic field that accesses this environmental energy that is located in any given volume of space. The result is an off-the-grid system that uses no fuel to run the system. This so-called environmental 'free energy' has been proven scientifically to exist and AERO is working with the most accomplished physicists and engineers who are building these systems. These technologies have the potential to completely replace all current oil, gas, coal, and nuclear power generating systems. They use no fuel and cause no pollution. Energy costs are zero once the device is built and operational. The electric utility grid would be unnecessary using such a system, since each home, business, office, etc., could have its own power generating capability. Using nanocrystalline materials, solid state devices are possible that may eventually be able to power any object that needs electric power.
- **Electro-gravitic/magneto-gravitic propulsion:** Beginning in the 1920s, T. Townsend Brown and others experimented with high voltage systems that resulted in mass cancellation or so-called anti-gravity effects. By the early 1950s, documents prove that these systems became highly classified, where they remain today. Nick Cook, researcher and writer for Jane's Defense Weekly, provided an in-depth expose on this subject, and subsequently wrote the book "The Hunt for Zero Point". We have identified scientists who understand the physics underlying this new propulsion and energy generating technology and which can now be developed for peaceful energy use and transportation. The adoption of such systems will replace jet engines, rockets and other forms of aerospace transportation systems. Since the energy used by such systems is acquired from the zero point or quantum vacuum flux field, there is no fuel *payload* and no pollution. Energy costs are zero.

Risk Transformation

It may be argued that the types of technologies AERO has identified are *too good*. That is, they would completely upend the current oil, coal, gas and nuclear power infrastructure.

However, any realistic view of the current global situation reveals a world that is hurtling towards a number of interlocking disasters which cannot be rectified by incremental changes. These include: Global warming; geo-political conflict over resource competition for oil and gas; a creaky and rapidly failing electric utility grid; growing disparity between the developed and developing world; a mid-east and Persian Gulf policy driven by the West's endless appetite for oil (also euphemistically called 'our strategic national security interest...') growing mountains of nuclear waste from nuclear power plants attended by a 'not in my backyard' response to its disposition; and so forth. Add to this the fact that China and India alone will be adding an estimated 650 new coal fired power plants in the next decade, thus doubling current greenhouse gases.

Even if all of the above described advanced physics break-through technologies were ready for mass dissemination in 2008, it would take at least 10-20 years to replace the world's current fossil fuel and nuclear infrastructure.

In our analysis, the greatest risk is to do nothing- or to continue to adopt only incremental improvements in energy generation and transportation. Wind, solar, bio-fuels, carbon sequestration, however laudable and well-intentioned, are too little, too late, and must be augmented by a robust research and development program focusing on new energy sciences outlined above and in the AERO proposal.

Ironically, it is 'careful incrementalism' that is the riskiest approach, given the enormous environmental, societal, health and geo-political challenges facing humanity today.

AERO recommends a peaceful Manhattan-style research program to fully develop out-of-the-box new energy sciences to create solutions ready for the market within 18-24 months. This is feasible, given the extensive progress- however arcane and heretofore unacknowledged- already accomplished in this area.

The Transitional Technologies mentioned above can be quickly brought forward to retrofit existing cars, trucks and power plants, thus reducing fuel use and greenhouse gases, and greatly reducing overall pollution. They will also enable the West to wean itself off of its current destabilizing Mid-East oil addiction in less than 10 years, if robustly applied.

At the same time, the New Electromagnetic Generator can begin to be phased in to completely replace the need for oil, gas, nuclear power and the centralized power grid. Since these new systems use no fuel and create no pollution, we can transform the current high-risk global situation into a world of sustainability, abundance and wide-spread economic development. The nature of these technologies allows any home or village to be powered without the need for costly fuels or a transmission and distribution system. Just as many areas of the developing world bypassed old-fashioned land lines for telecommunications and went directly to cell phones, they will similarly be able to develop energy generation capacity free of smoke stacks and centralized utilities.

The current zero-sum game of oil, gas, coal and nuclear power only ensures environmental disaster and social and economic disparity- which only further destabilizes the already precarious global geopolitical situation. There is simply no way 6.5 billion people on the earth can all be driving ICE - based cars and trucks, and using oil, gas, coal and nuclear power for electricity. The current industrial and energy order, in fact, requires extensive global poverty- which serves only to breed resentment of the West, fuel global terrorism and foster radicalism.

The adoption of a bold initiative to support, disclose and disseminate the above clean energy technologies is our best hope at risk management, and more importantly, the transformation of the current world crisis into a peaceful, stable and sustainable human future.

AERO invites the world community to assist in network support and research underwriting so that these promising technological developments will have a chance of succeeding. For less than 1% of the estimated \$5 billion per year spent in the United States alone to study global warming, AERO can complete development and testing of these advanced clean energy technologies that will go a long way to solving the problem.

This represents a relatively small investment that will greatly mitigate the enormous risks facing the human future- and give the good future that awaits humanity a real chance of emerging.

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