

*"A government big enough to  
give you everything you want is  
strong enough to take away  
everything you have."*

*- Thomas Jefferson*

## Forward

First some definitions. The issue up until recently has always been that of global warming, in general, and manmade global warming, in particular. However, a subtle change has taken place over the last several years almost without notice. Global warming has faded away and something else has taken its place. The issue talked about today is climate change. This is political correctness rearing its ugly head, again. This is also a very clever change. Global warming protagonists are becoming increasingly aware that they might be losing the argument that man is to blame for global warming, what with every time Al Gore opens his mouth he utters some silly comment or outrageous error. So what better way to re-establish a position of strength in any argument than to change the argument. Warming is simple. Either it is warmer, or it isn't. If one year after another the weather around the world should start cooling, which it has for the last 9 years, this could throw the proverbial monkey wrench into the global warming argument. But, climate change is much more complicated, and difficult to wrap one's arms around. It would be extremely difficult for there to be antagonists for climate change. The climate can change in so many ways and in so many different regions that it would be extremely difficult for antagonists to assert a true cause. The climate could get cooler or warmer, wetter or drier, windier or calmer, sunnier or cloudier. How could these "deniers" now claim it was natural? Accordingly, I refuse to let the other side dictate the issue. They wanted a global warming issue and I insist they keep it. From here on in this book the issue remains global warming, not climate change. Now, that that issue is out of the way we can proceed.

Al Gore wants to Repower America with 100% clean electricity within 10 years. And I would like to earn a million dollars a week without doing any work at all. But, neither of these things are going to happen. The madness of this man is incredible. Does he have any idea of how disruptive such a colossal change in such a short period of time would have on the power industry, or for that matter, the entire economy? Only someone totally removed from reality and with no experience whatsoever in the industry he proposes to set on its ear would submit such an outrageous proposition.

Al Gore envisions new industries with high-paying jobs, lower energy costs, ramping up renewable energy generation, substituting clean domestic resources of energy for dirty

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coal and foreign oil, making buildings and homes more efficient, clean and affordable plug-in electric cars, and a unified national smart grid. All this while addressing our national security challenges and making huge strides to solve the climate crisis. Holy cow! Why didn't someone else think of doing all these things sooner?

Higher paying jobs usually come from a demand for jobs exceeding the supply of candidates. However, outside the free marketplace, higher paying jobs can be literally spun out of thin air. At this writing, the only higher paying jobs are government jobs which average \$71,000 a year compared to private paying jobs which average \$41,000. Higher paying jobs is what killed the steel industry, the rubber industry, the textile industry, the automobile industry, and every other industry that has left this country. The CEOs of these dead industries thought they could pay its workers whatever they wanted to secure union peace, even 10 times or more the amount foreign workers were getting for the same labor, without realizing that eventually all the work would go to foreign labor willing to accept less of a salary to manufacture the same goods. American industry asked for this outcome and it got it. It just didn't think it would happen in so few decades.

Lower energy costs will only happen when supplies of energy exceed demand for energy. But there is a limit as to how low prices can go. No one in the energy production business is going to produce all the energy they can in an attempt to reap endless profits, because they know in doing so, they will flood the market with supply, which will drive down prices, which are counterproductive to higher profits. This is why OPEC adjusts its prices in response to demand. It is easy for OPEC to do this, because it costs them very little to pump oil out of the ground and send it to market. The gold mining industry operates differently. When prices of gold are high, mining companies do not increase production to take advantage of higher prices. Rather, they switch production using lesser quality ores, because the higher price justifies such use, and they save their higher quality ores for another day when profitability will be more difficult. Then when gold prices fall, mining companies switch over to higher quality ores to reduce costs. Lower energy costs cannot possibly come from legislating new sources of energy that the marketplace does not want or need. This artificial supply increase to meet demand can only result in higher prices. This is the same thing proposed by politicians in the sub-prime mortgage debacle. What do you think will happen when people who cannot afford to pay a mortgage are told they can live in a house the monthly payment for which will be guaranteed by the government? How short are our memories anyway?

Ramping up renewable energy generation will have the same effect. Taking a technology which cannot pay for itself in its own lifetime may create a lot of jobs and new cottage industries. However, the overexpansion into the marketplace that has no real demand or need for this technology can only result in capital being misappropriated and a shortage of capital to where it is needed. The result will be more spending that will dislocate resources from projects where they would do the most good to rat holes where wealth will be lost, extending the existing recession, increasing more debt, and placing more burdens on the taxpayer to rectify the economic catastrophe that will surely follow.

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Substituting clean domestic resources of energy for dirty coal and foreign oil also does not happen in a vacuum. Much of our clean domestic sources of energy are locked up on government land or are offshore. Both these sources are sheltered by bureaucratic red tape brought about by environmental interference and/or legal obstacles. The use of dirty coal is already controlled by the use of emissions cleaning and ash disposal regulations. The substitution to clean domestic resources can only come from further government coercion.

Making buildings and homes more efficient is nothing new. This quest has been waged for the last 37 years, ever since the Arab Oil Embargo in 1973. Before the embargo, most glazing used for homes and buildings was single pane, using highly conductive aluminum frames without a thermal break. After the embargo, glazing has continuously improved from double pane, using less-conductive frames with a thermal break, to low-emissivity glass and inert gas-filled assemblies. Besides windows, there has been a continuous development of higher efficiency buildings and systems brought about by a never ending increase in innovation and technology. The US government has continually distorted the automotive marketplace in its effort to mandate more efficient cars. The result has been a loss of market share to foreign competitors, who were already geared up to meet demand for the smaller cars needed for narrower streets in crowded villages, and higher mileage efficiencies to answer the problem of higher fuel prices in those countries overseas.

Before a grid can become smart it must have dynamic capacity. It must be added to, replaced, deleted and upgraded to handle the electrical demands of today and for decades to come. This evolution previously came from the experience gained by hundreds of utility companies working several decades with millions of dedicated employees, scientists and engineers. It doesn't come from dreams, throwing a temper tantrum, jumping up and down until you turn blue, or just being 'concerned about the environment'. Our grids are already unified. Utility companies throughout the US are constantly adjusting generation output to match second-to-second changes in load. Power factor correction is continuously optimized to maximize efficiency. Users are given the option to have their service reduced to obtain a break on their bills, by permitting the utility to disconnect certain equipment during hours of peak grid load. Some homes, mine included, have a little black box on the air conditioning system condensing unit. This box receives radio signals from the utility company allowing them to cyclically turn off the compressor at certain intervals during the peak afternoon air conditioning load. This allows utilities to avoid brownouts and keep the system running without any interruption in service.

Clean and affordable plug-in electric cars is an oxymoron. To manufacture a clean car takes a lot of dirty energy. And, just where do you think the electricity in your wall outlet that will charge up your electric car comes from? Japan? The moon? Dreams? It comes primarily from burning good old fashioned American coal, followed next by nuclear power, natural gas, oil, and a smidgen of renewables like solar, biomass, hydro and - oh yes - wind. Do you have any idea how polluting it is to manufacture car batteries for an

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electric car? Do you know how many batteries an electric car needs? Do you know how long this set of car batteries will last? Are you willing to pay thousands of dollars every 5 or so years to replace those batteries? I didn't think so.

Addressing our national security challenges has never been a concern of Al Gore. It is convenient of him to throw this issue into the mix as an afterthought. His track record or lack thereof on this issue is a matter of record. If Al Gore was so concerned about national security why isn't offshore drilling, harvesting energy sources on government owned land, and ANWAR on the table? Somehow in Al Gore's mind alternative energies dependent on the fickleness of nature represent a contribution to our national security. It may come as a shock to Al Gore, but national security comes from strength – strength in reliable resources. It does not come from waiting for the wind to blow or the sun to shine.

Making huge strides to solve the climate crisis. For those of you unfamiliar with Al Gore, everything is a crisis – the climate, healthcare, energy, poverty, overpopulation. Whatever the subject might be, with Al Gore it is not just an issue, it is a crisis. Crises give politicians purpose. In order to remain on the radar screen of the voters and ensure perpetuity in office, politicians need a never ending stream of crises. If no crises are about, then they must be manufactured.

Asking for all the above at the same time is impossible. This is like demanding a car that will get 100 miles per gallon, carry 15 people comfortably, do 0 to 60 in 4 seconds, be affordable to everyone – all while being environmentally friendly. Folks, this simply isn't going to happen. Let me introduce you to the Laws of Thermodynamics. These Laws cannot be modified, nor can they be legislated out of existence. They care not what politicians think. They will not bend under public pressure. They are immutable.

Let me, also, introduce you to the Law Of The Triangle. It is universal. It pervades every aspect of living and non-living things. For example: take the airplane. Its overall performance consists of three parameters: altitude, range, and speed. If the designers want a plane that flies further, then it must come at the expense of altitude and/or speed. Another example is any project involving the human element. It is governed by price, quality and schedule. If a project must be done faster, then it must come at the sacrifice of quality and/or price. Finally, the example of health care. There cannot be quality and affordable health care, without waiting a very, very long time to get access to it.

**In short, wind power is a colossal waste of money.**