Enough wind power blows through the Midwest corridor every day to meet 100% of US electricity demand.

What if we could use fuels that are not expensive, don’t cause pollution and are abundantly available right here at home?

We have such fuels. Scientists have confirmed that enough solar energy falls on the surface of the Earth every 40 minutes to meet 100 percent of the entire world’s energy needs for a full year. Tapping just a small portion of this solar energy could provide all of the electricity America uses. And enough wind power blows through the Midwest corridor every day to also meet 100 percent of US electricity demand. Geothermal energy, similarly, is capable of providing enormous supplies of electricity for America.

The quickest, cheapest and best way to start using all this renewable energy is in the production of electricity.

But to make this exciting potential a reality, and truly solve our nation’s problems, we need a new start. That’s why I’m proposing a strategic initiative designed to free us from the crises that are holding us down and to regain control of our own destiny. It’s not the only thing we need to do. But this strategic challenge is the lynchpin of a bold new strategy needed to re-power America.

The Challenge: Setting Our Targets High

I challenge our nation to commit to producing 100 percent of our electricity from renewable energy and truly clean carbon-free sources within 10 years. This goal is achievable, affordable and transformative. It represents a challenge to all Americans, in every walk of life: to our political leaders, entrepreneurs, innovators, engineers and to every citizen.
A few years ago, it would not have been possible to issue such a challenge. But here’s what’s changed: the sharp cost reductions now beginning to take place in solar, wind and geothermal power coupled with the recent dramatic price increases for oil and coal have radically changed the economics of energy. Even those who reap the profits of the carbon age have to recognize the inevitability of its demise. As one OPEC oil minister observed, “The Stone Age didn’t end because of a shortage of stones.”

Sure enough, billions of dollars of new investment are flowing into the development of concentrated solar thermal, photovoltaics, windmills, geothermal plants and a variety of ingenious new ways to improve our efficiency and conserve presently wasted energy. And as the demand for renewable energy grows, the costs will continue to fall. …

Defying the Status Quo: Focusing on What’s Possible

To those who argue that we do not yet have the technology to accomplish these results with renewable energy, I ask them to come with me to meet the entrepreneurs who will drive this revolution. I’ve seen what they are doing, and I have no doubt that we can meet this challenge.

To those who say the costs are still too high: I ask them to consider whether the costs of oil and coal will ever stop increasing if we keep relying on quickly depleting energy sources to feed a rapidly growing demand all around the world. When demand for oil and coal increases, their price goes up. When demand for solar cells increases, the price often comes down. When we send money to foreign countries to buy nearly 70 percent of the oil we use every day, they build new skyscrapers and we lose jobs. When we spend that money building solar arrays and windmills, we build competitive industries and gain jobs here at home.

Of course there are those who will tell us this can’t be done. Some of the voices we hear are the defenders of the status quo—the ones with a vested interest in perpetuating the current system, no matter how high a price the rest of us will have to pay. But even those who reap the profits of the carbon age have to recognize the inevitability of its demise. As one OPEC oil minister observed, “The Stone Age didn’t end because of a shortage of stones.”

To those who say 10 years is not enough time, I respectfully ask them to consider what the world’s scientists are telling us about the risks we face if we don’t act in 10 years. The leading experts predict that we have less than 10 years to make dramatic changes in our global warming pollution lest we lose our ability to ever recover from this environmental crisis. When the use of oil and coal goes up, pollution goes up. When the use of solar, wind and geothermal increases, pollution comes down.

To those who say the challenge is not politically viable: I suggest they go before the American people and try to defend the status quo. Then bear witness to the people’s appetite for change. I for one do not believe our country can withstand 10 more years of the status quo. Our families cannot stand 10 more years of gas price increases. Our workers cannot stand 10 more years of job losses and outsourcing of factories. Our economy cannot stand 10 more years of sending $2 billion every 24 hours to foreign countries for oil. And our soldiers and their families cannot take another 10 years of repeated troop deployments to dangerous regions that just happen to have large oil supplies.

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Looking Back: Inspiration for Moving Forward

What could we do instead for the next 10 years? What should we do during the next 10 years? Some of our greatest accomplishments as a nation have resulted from commitments to reach a goal that fell well beyond the next election: the Marshall Plan, Social Security, the interstate highway system. But a political promise to do something 40 years from now is universally ignored because everyone knows that it's meaningless. Ten years is about the maximum time that we as a nation can hold a steady aim and hit our target.

When President John F. Kennedy challenged our nation to land a man on the moon and bring him back safely in 10 years, many people doubted we could accomplish that goal. But 8 years and 2 months later, Neil Armstrong and Buzz Aldrin walked on the surface of the moon.

Overcoming the Obstacles and Rising to the Occasion

To be sure, reaching the goal of 100 percent renewable and truly clean electricity within 10 years will require us to overcome many obstacles. At present, for example, we do not have a unified national grid that is sufficiently advanced to link the areas where the sun shines and the wind blows to the cities in the East and the West that need the electricity.

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Our national electric grid is critical infrastructure, as vital to the health and security of our economy as our highways and telecommunication networks.

Today, our grids are antiquated, fragile and vulnerable to cascading failure. Power outages and defects in the current grid system cost US businesses more than $120 billion a year. It has to be upgraded anyway. We could further increase the value and efficiency of a Unified National Grid by helping our struggling auto giants switch to the manufacture of plug-in electric cars. An electric vehicle fleet would sharply reduce the cost of driving a car, reduce pollution and increase the flexibility of our electricity grid.

At the same time, of course, we need to greatly improve our commitment to efficiency and conservation. That’s the best investment we can make.

America’s transition to renewable energy sources must also include adequate provisions to assist those Americans who would unfairly face hardship. For example, we must recognize those who have toiled in dangerous conditions to bring us our present energy supply. We should guarantee good jobs in the fresh air and sunshine for any coal miner displaced by impacts on the coal industry. Every single one of them.

Of course, we could and should speed up this transition by insisting that the price of carbon-based energy include the costs of the environmental damage it causes. I have long supported a sharp reduction in payroll taxes with the difference made up in CO2 taxes. We should tax what we burn, not what we earn. This is the single most important policy change we can make....

Of course the greatest obstacle to meeting the challenge of 100 percent renewable electricity in 10 years may be the deep dysfunction of our politics and our self-governing system as it exists today. In recent years, our politics has tended toward incremental proposals made up of small policies designed to avoid offending special interests, alternating with occasional baby steps in the right direction....

So I ask you to join with me to accept this challenge: for America to be running on 100 percent zero-carbon electricity in 10 years.... We need to act now. This is a generational moment. A moment when we decide our own path and our collective fate.

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This contribution is an approved adaptation of Vice President Gore’s challenge to the nation on July 17, 2008. Mr. Gore was the 45th vice president of the United States serving from 1993 to 2001. He is a Nobel laureate and global leader who has been engaging in research and coalition building for 30 years to halt the progression of climate change. He is currently the founder and chair of Alliance for Climate Protection, the cofounder and chair of Generation Investment Management, the cofounder and chair of Current TV, a member of the Board of Directors of Apple Inc., and a senior advisor to Google. In addition, Mr. Gore is on the faculty of Middle Tennessee State University as a visiting professor, and was a visiting professor at Columbia University Graduate School of Journalism, Fisk University and the University of California, Los Angeles.