

12/03/2016

To whom it may concern,

Of the many problems facing our country, I feel as though there is one that needs to be addressed as soon as possible. There is a problem with the source of our energy and how we create it. Most of our energy comes from non-renewable resources that cause massive amounts of pollution. These sources of energy are only thought to last maybe another 50 years if we're lucky, and then what? What do we do from there? The thing about it is, we have the resources and the technology to switch over to, and rely on, renewable energy, like wind and solar. All we need to do is set a plan in motion to start switching over, and that can very easily start, with you. In 2013, the world energy sources were 31.1% oil, 28.9% coal, and 21.4% natural gas. That means that 81.4% of the world's energy relied on non-renewable resources. In 2015, according to the U.S. Energy Information Administration, about 67% of the U.S.'s 4 trillion kilowatt hours was from fossil fuels. These are all resources that we will inevitably run out of. Studies and research done at Stanford believe we only have about 40-50 years of oil left, and after that, we will have to rely on whatever else we have available. On top of this, the way we gather and create the energy using these sources causes massive amounts of pollution, mostly through the release of CO₂. This is damaging the air we breath, and causing global warming. But there are solutions to this.

In one hour, the sun blasts the earth with about 430 quintillion joules of energy. Humans on earth use about 410 quintillion joules in a whole year. The sun alone can power the earth for a whole year in one hour, and yet, in 2015 the U.S. used solar for only 0.37% of its energy usage. This is something we can change. Solar panels continue to improve year by year. They are able to absorb more sun and turn more of it into energy. Tech Insider released an article with projections for 2030. They predict, that we would only need a land area the size of Spain to power the entire world. And this is if we only use solar. There are so many other forms of renewable energy we can use along with this, such as hydroelectric, geothermal, biofuels, and wind that way we are diversified. Wind energy provided for 4.7% of the U.S.'s energy in 2015. This is a lot more than solar, but still not that much. However, like solar panels, wind turbines are being improved constantly as well. The Industry has recently implemented new fins for wind turbines which mimic whale fins. They cut through the air better, spin faster, and make more energy. Think of all the potential that is all around us. Imagine vertical axis turbines to any street or parking lot pole lights. We must be proactive and think of the future we will leave to our children and grandchildren.

For this reason I support and ask that SEC support the Antrim Wind Energy project proposal to build 9 wind turbines in the town of Antrim in the area from Tuttle Hill to Willard Mountain for 28.8MW of clean renewable energy. The developer states that the wind farm will produce enough pollution-free energy for 12,000 average New Hampshire homes.

I am an instructor and Master license electrician in the electrical industry and always stress to my students how much the industry has changed in my career and that they will see much more improvements in their own. The foundation is being laid for the emergence of both wind and solar PV cells as the cornerstones of our future energy demands that our children will look back and say that we where looking out for their clean and healthy future's.

Thank you

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