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News. January, 2015. Issue #34. 50,000 ESB [video views](#). *100% Renewable by 2035*.

Humanity survived using 100% renewable energy for 99.99% of its existence. To say that we cannot do it now is hubris, at best. A better question might be 'Could humanity survive if we do not transition to 100% renewable energy?'

- from a comment by a person logged in as "Tad Montgomery" under the article:

<http://www.renewableenergyworld.com/rea/news/article/2014/03/readers-respond-day-1-can-we-reach-100-percent-renewable-energy>

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## **Electricity**

**Wind Saves Customers \$1 Billion in 2 Days During 2014 Polar Vortex (G)**

<http://aweablog.org/blog/post/cold-take-comfort-wind-energy-is-saving-you-money>

**2011 Texas Extreme Weather.**

**Texas February Extreme Cold - Coal & Gas Pop Off. Wind Saves the Day!**

**Texas Extreme Heat - Coal & Gas Generation Pop Off. Wind Saves the Day!**

*Winter: Wind energy played a critical role in limiting the severity of the blackouts, providing enough electricity to keep the power on for about three million typical households.*

*Summer: For three straight days in the real world last week, wind made the difference between keeping the lights on and the air conditioners running, and rolling blackouts. (Articles. Both G)*

<http://texasclimateneeds.org/wp/?p=1234> Winter.

<http://breakingenergy.com/2011/08/10/wind-power-lessons-from-the-texas-heat-wave/> Summer.

### **New Wind Turbine - In Brooklyn?**

A 100 kW wind turbine has been installed a mile or so South of the southern tip of Manhattan in an industrial part of Brooklyn. “They say, ‘If you can do it in New York, you can do it anywhere,’ ” Mr. Outerbridge said. “And if you do it in Brooklyn, you can do it anywhere and you can be very cool.” (G)

<http://www.nytimes.com/2015/01/16/nyregion/brooklyn-waterfront-is-fertile-ground-for-citys-first-large-scale-wind-turbine.html>

### **“Kite” Makes Electricity Under the Sea**

Most of the approaches to electricity generation in ocean currents or tides have involved pretty traditional looking turbines - similar to those used in hydro dams or sometimes like small wind turbines. This “kite” is a whole different approach. (G)

<http://www.renewableenergyworld.com/rea/news/article/2015/01/reflections-from-breakthrough-marine-energy-trials>

### **Solar PV A Better Investment Than Stocks in 46 of 50 Largest US Cities (G)**

[http://www.pv-magazine.com/news/details/beitrag/us--solar-better-investment-than-stocks--study-finds\\_100017770](http://www.pv-magazine.com/news/details/beitrag/us--solar-better-investment-than-stocks--study-finds_100017770)

## **Transportation**

### **Tesla “Insane Mode” Reactions Video.**

In December, Tesla introduced a dual-motor version of their Model S that can accelerate from 0 to 60 in 3.2 seconds. They have labeled the highest performance mode of this car as “insane”.

Watch the reactions. (G)

<https://www.youtube.com/watch?v=LpaLgF1uLB8> (explicit language version)

<https://www.youtube.com/watch?v=1qFV5i8tBhs> (bleeped version)

### **Everything You Wanted to Know About EV (Motorcycles) But Were Afraid to Ask**

A loving and detailed combination of technical and fun information on e-motorcycles. How they ride, how they work, battery and battery management system information, what is great and not about e-motorcycles. Most of this information applies pretty well to e-cars. (PG - the first of 5 parts... reach the rest of the parts from links at the bottom of the part 1 webpage).

<http://insideevs.com/electric-motorcycle-primer-insideevs-style-part-1-ride/>

## **Energy Storage, Etcetera**

### **2014 Update on Germany’s Energiewende**

*Renewable energies were the number 1 source of power production for the first time ever... Hard coal and gas are the big losers in the power mix... Greenhouse gas emissions have fallen considerably in 2014... Power demand fell dramatically in 2014... while at the same time the German economy grew. Finally, household electricity cost, after stabilizing over the last few years, is expected to fall in 2015. (A clear presentation of graphs over time. Anyone reporting on electricity use should look at these as examples of good communication. PG)*

[http://www.agora-energiewende.org/fileadmin/downloads/publikationen/Analysen/Jahresauswertung\\_2014/Agora\\_Energiewende\\_Review\\_2014\\_EN.pdf](http://www.agora-energiewende.org/fileadmin/downloads/publikationen/Analysen/Jahresauswertung_2014/Agora_Energiewende_Review_2014_EN.pdf)