

[Donations](#) help us make more and better videos more quickly. Thank you!



News. April, 2015. Issue #37. 57,000 ESB [video views](#). *100% Renewable by 2035*.

The technology pressure is irresistible. The business transitions are inevitable because these renewable sources are so cheap. By 2050, the only use for petroleum projects is going to be to lubricate our electric motors. We will see that transition. There is no doubt in my mind.

- From an excellent podcast by Barry Cinnamon: *Can We Get to 100 Percent Renewables*
<http://www.renewableenergyworld.com/rea/news/article/2015/04/listen-up-can-we-get-to-100-percent-renewables>

Please subscribe and view previous newsletters at

<http://energysouldbe.org/subscribe.html>

Ratings for articles and videos: (G = General Audience, PG = Pretty Geeky, VG = Very Geeky).

Like on Facebook:

<http://www.facebook.com/EnergyShouldBe>

Join on LinkedIn:

<http://www.linkedin.com/groups/EnergyShouldBeorg-4814036/about>

Subscribe or watch on YouTube:

<http://www.youtube.com/user/EnergyShouldBe>

Electricity

Solar & Wind Cheaper Than Traditional Generation.

A series of charts showing what has happened with the cost of renewable electricity. Deutches Bank predicts that solar electricity will be at grid parity in 2016 (next year) in all 50 states. (PG)
<http://cleantechnica.com/2015/04/13/solar-wind-power-prices-often-lower-fossil-fuel-power-prices/>

Costa Rica: 100% Renewable Electricity for first 75 Days of 2015...

... 100% Year Round Planned for 2021(G)

<http://spectrum.ieee.org/energywise/energy/renewables/costa-rica-runs-on-renewables-for-75-days>

Can Other Cities Do What Georgetown, TX Did (100% Renewable by 2017)

Yes, most of the country can cost-effectively. But only if the electric grid is locally controlled (e.g., a muni-electric) and long-term energy generation contracts are limited. (PG)

<http://www.renewableenergyworld.com/rea/blog/post/2015/04/can-other-cities-match-georgetown-low-cost-switch-to-100-wind-and-sun>

100% Solar Using Just 0.026% of the World's Land (PG)

<http://www.renewableenergyworld.com/rea/news/article/2015/04/measuring-the-effects-of-utility-scale-solar-growth>

California Public Utilities Commission President: Grid Can Handle 100% Renewables

50% is “not a challenge” (G)

<http://www.bloomberg.com/news/articles/2015-04-14/california-power-grid-seen-able-to-handle-100-renewables>

Interactive Wind Farm Website: Shows an Off-Shore Farm, Making Turbines & Blades...

... floating turbines, etc. Through short videos, 360 degree images, and text Siemens has put together a very watchable web experience. One fun geeky detail: the technician that used sensors and controls to cause the blades in a wind farm to turn in coordination with each other. (G)

<http://www.siemens.com/innovation/pool/features/siemens360/wind-power/>

South Africa to Add 6.3 GW of Renewables

Population 53 million. Rolling blackouts are common because of too much demand for electricity. The solution? Renewables! (G)

<http://renewables.seenews.com/news/south-africa-to-add-6-3-gw-to-future-green-tenders-472852>

Transportation

Korea: 20 Mile-Long Solar Bike Lane in the Middle of a Freeway

While many of us are not up for such a long bike ride, quite a few electric bikes have a no-pedaling 20 mile range. A quick, back-of-the-envelope, calculation puts this at about 14 MWs of capacity. And there are lots of roads in the world that could have their own solar bikeways. (G)

<http://www.autoblog.com/2015/04/13/solar-bike-lane-korean-highway-video/>

Why Businesses Are Installing EV Charging Stations (Hint: More Customers...) (G)

http://www.huffingtonpost.com/gina-coplonnewfield/why-small-businesses-are_b_7152164.html

Excellent EV Guides - Business & Home Charging Stations, Buying, Owning...

Get clear, honest, and well-thought out answers to most electric vehicle questions. (G)

<http://www.plugincars.com/guides.html>

Energy Storage, Etcetera

HINA: Powering Maui 100% by Sun and Water

This conceptual plan includes massive energy storage by pumping water 9,000 feet up the side of Haleakala into large tanks when there is excess electricity from the proposed solar.

Desalinization provides fresh water for farmers on the dry side of Maui. The dry weather, and being close to the equator, gives Maui a remarkable solar resource that doesn't vary much over the course of a year. And when wind farms are added in, the whole system becomes easier to manage and cheaper to build. (Article & Flyer G)

<http://hinamaui.com/#home>

<http://hinamaui.com/HINAflyer.zip>

Village Solar Power Business Lighting Kenya

100s of millions of people around the world have cell phone access but no power. Powerhive makes, installs, and trains local people to operate village scale solar plus storage electricity systems. Villagers pay using a model they are very familiar with - cellphone based pay-as-you-use. Powerhive makes a profit and does enormous good. (G)

<http://www.renewableenergyworld.com/rea/news/article/2015/04/clean-energy-in-the-developing-world-powerhive-hits-on-a-compelling-business-model>

Gallup Poll: 79% in US Want More Emphasis on Solar Please (G)

<http://www.seia.org/research-resources/polling-data-support-solar>

Electricity's Un-Natural Monopoly

The U.S. electricity system is undergoing the biggest change in its 130-year history, undermining the rationale for monopoly ownership and control. (G)

<http://www.renewableenergyworld.com/rea/blog/post/2015/04/electricitys-un-natural-monopoly>

Map of Opinion on Global Warming by Congressional District, County, State (PG)

<http://www.renewableenergyworld.com/rea/news/article/2015/04/what-americans-think-about-climate-change-in-seven-maps?page=all>

Al Gore Teams Up With Tea Party to Fight Solar-Hating Utilities

Politics makes strange bedfellows in Florida. (G)

<http://www.renewableenergyworld.com/rea/news/article/2015/04/al-gore-joins-teams-up-with-tea-party-to-fight-solar-hating-utilities>