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News. September, 2016. Issue #53. 94,000 ESB [video views](#). *100% Renewable by 2035.*

[Between 2015 and 2020, solar PV and onshore wind will add more to global energy supply than US shale oil production did between 2010 and 2015.](#)

- Goldman Sachs. (note: shale oil production = fracking)

<http://www.goldmansachs.com/our-thinking/pages/new-energy-landscape-folder/report-the-low-carbon-economy/report.pdf>

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Moving to 100% Renewables

A Not Very Secret Solar Society

Given that there are numerous societies and non-profits to support fossil fuels, ultra-conservative and liberal political agendas, and the like, it is nice to know that there might be a Solar Society as well. *A group of leaders in the solar industry have been holding secret meetings for the last 14 years, strategizing how to make solar the dominant source of energy on Earth.* (G)

<http://www.eenews.net/stories/1060042311>

Los Angeles Joins 17 Other Cities in the US Committing to 100% Renewables

The city owned electric utility (a “muni”) has 90 days to come up with a timeline for a plan. (G)

<http://nawindpower.com/los-angeles-takes-enormous-step-toward-100-percent-renewables>

Drones and Other Tech Help Reduce Sunpower’s Solar Cost by 30% (G)

<http://www.renewableenergyworld.com/articles/2016/09/drones-can-help-sunpower-reduce-solar-costs-by-30-percent-ceo-says.html>

Excellent Renewable Energy Youtube by Joe Romm

The title is “Almost Everything You Know About Climate Change Solutions is Outdated.” (G)
<https://www.youtube.com/watch?v=P6ag3b1WCYc>

Fair Electricity Markets

Competitive Electricity Markets Work

This thoughtfully researched report smashes most monopoly electric company arguments against competitive markets. In comparison to monopoly electric service, yes, competitive markets lower costs to business and consumers, yes, they provide reliable electricity, and yes, generation gets built to cover peak power needs. (PG)

http://www.competecoalition.com/files/COMPETE%20White%20Paper_Evolution%20of%20Revolution_Final.pdf

Policy to Support Fair Electricity Markets in the US & Canada

A detailed look at how states and provinces are performing where there are competitive electricity markets including a detailed ranking of competitive states/provinces. The report includes policy recommendations. (VG)

<http://competecoalition.com/files/ABACCUS-2015-vf.pdf>

Energy Storage and Miscellaneous

Oil Subsidies Are Bigger Than EV Subsidies

Depending on the source, US direct oil subsidies are from \$4 to \$8 billion annually, and possibly much more. Conservatively, with a \$7500 tax credit per EV, and about 116,000 EVs sold in 2015, EVs get a US subsidy of just \$870 million. (note that not all EVs get the full \$7500 credit). (G. First link, oil subsidies. Second link, number of EVs sold in US).

<http://www.autoblog.com/2016/09/26/us-china-fossil-fuel-subsidies/>

<http://www.nasdaq.com/article/the-rise-of-electric-vehicles-by-the-numbers-cm595564>

Massive Deployment of Storage Will Save Massachusetts' Residents' Money

The report concludes that 600 megawatts of storage capacity installed by 2025 would save the state's ratepayers \$800 million in system costs. Not only that, but if storage is properly located and market and policy barriers are removed, a deployment of 1,766 megawatts would optimize system benefits for ratepayers. (G)

<http://www.greentechmedia.com/articles/read/why-the-new-massachusetts-energy-storage-report-is-such-a-big-deal>

Abandoned Open Pit Gold Mine May be Converted to Massive Pumped Hydro Storage

This mine in Australia has two giant holes in the ground - one higher than the other. The site already has an electricity substation, water, and the rock strata looks promising for preventing water leaks. Hopefully this leads to very cost-effective electricity storage. (G)

<https://www.theguardian.com/sustainable-business/2016/sep/12/energy-storage-how-an-abandoned-goldmine-will-be-converted-into-a-world-first>