

Green energies in the world

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World investment in green energy by sector and country

The sun and the wind continue to defy gravity.

Renewables just finished another record-breaking year, with more money invested, \$329 billion, and more capacity added, 121 gigawatts, than ever before.Oil, coal and natural gas bottomed out over the last 18 months, with bargain prices not seen in a decade. That's just one of a handful of reasons 2015 should have been a rough year for clean energy. We can observe that the smaller countries that often don't register on charts like the one above. For the first time, half of the world's annual investment in clean energy came from emerging markets.





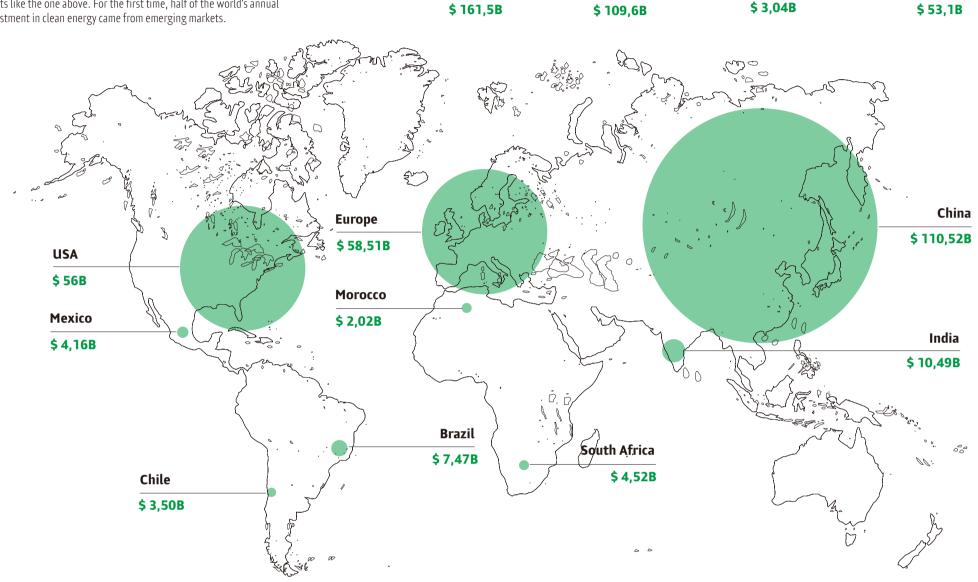


Gas





Other \$ 53,1B



Solar power generation capacity crosses 5,000 MW in India

The country's grid-connected solar power generation capacity has crossed the 5,000 MW mark today. The government has set an ambitious target of generating 100 GW of solar power by 2021-22 under the National Solar Mission. It is envisaged to generate 60 GW ground mounted grid-connected solar power and 40 GW roof-top

grid interactive solar power to meet the target.

The ministry has also fixed year-wise targets to monitor the solar power generation in the country.
The target for the current year is 2,000 MW and 12,000 MW for the next year.

Roof-top grid

interactive solar power to meet the target

Wind is the new top power generation source in Euro

In 2015 12,800 MW of new wind power capacity was installed in the EU, an increase of 6.3% over 2014, and more than any other form of power generation, according to recent new figures from the European Wind Energy Association (EWEA). Wind power accounted for over 44% of total power capacity installations in the EU last year.

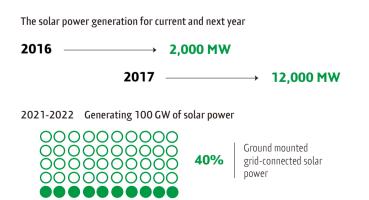
€26.4 billion was invested in Europe in 2015 to finance wind energy development. This was 40% more than the total investment in 2014. The total wind power capacity installed at the end of 2015 could produce 315 TWh and cover 11.4% of the EU electricity consumption in a normal wind year.

Renewables Take Top Share of German Power Supply in First

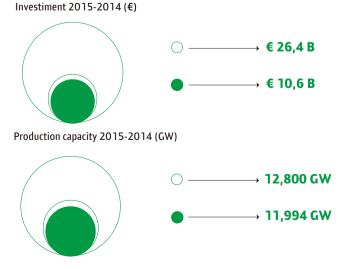
Germany for the first time got more electricity from renewables than any other source of energy.

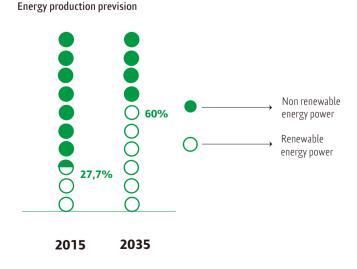
Clean-energy sources met 27.7 percent of Germany's demand in the nine months through September, for the first time exceeding the 26.3 percent share held by lignite coal, according to calculations by Agora,

an influential researcher owned by the Mercator Foundation and European Climate Foundation. Merkel intends to get as much as 60 percent of the country's power from renewables by 2035 under her "Energiewende" plan that will see all nuclear reactors closed by 2022.



60%





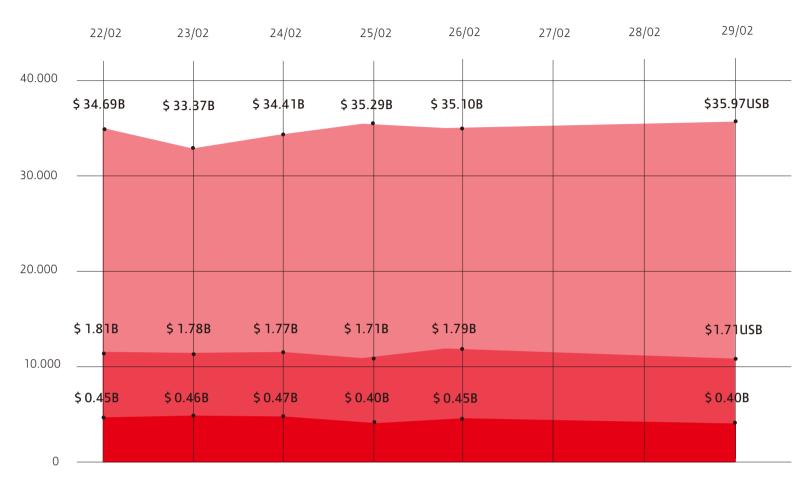
Fossil fuel news

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World trend market energy

Although the recent months price of oil has dropped dramatically around \$30 a barrel this week the price trend has been steady and has not suffered further declines. As for natural gas and coal, the prices remain stable stable on 1.8 and \$0.5, respectively.



The oil crash looks a lot like a subprime

The pattern of the decline in the price of oil that began in mid-2014 is remarkably similar to the 2007-2009 pattern of the price decline of ABX, the credit derivative index that referenced subprime mortgages and, ultimately, the U.S. housing market.

Brent crude (ICE)

Natural gas (Nymex)

Arch Coal Inc. (ACIIQ)

Key reasons to coal consumption drop again beacuse tries to wean itself off fuel that causes local air pollution problems and global warming. Markit's ABX Index, a basket of credit default swaps (CDS) tied to the welfare of subprime mortgages.

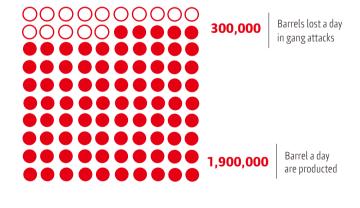


Nigeria deployes troops to protect oil facilities

Nigeria is deploying more troops to protect oil installations to curb sabotage after a leak forced crude loadings to be suspended last month at a major export terminal.

Nigeria, Africa's biggest oil producer, loses an estimated 300,000 barrels a day to criminal gangs that tap crude from pipelines

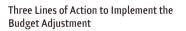
that criss-cross the oil-rich southern delta, using it in local refineries or selling it to tankers waiting offshore, according to state-owned Nigerian National Petroleum Corp. The country pumped 1.9 million barrels a day last year on average, according to data compiled by Bloomberg.

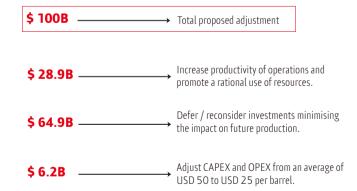


Mexico oil giant posts record 32 B loss

Petroleos Mexicanos also known as Pemex, announced not only its 13th consecutive quarterly loss amounting to \$9.3 billion, 44% bigger than the previous year, as revenue tumbled by 28% to \$15.8 billion, but also a gargantuan \$32

billion annual loss and at the same time announced it would slash capex spending of 100 billion pesos (\$5.5 billion) to preserve cash and optionality for a future which suddenly looks very bleak.

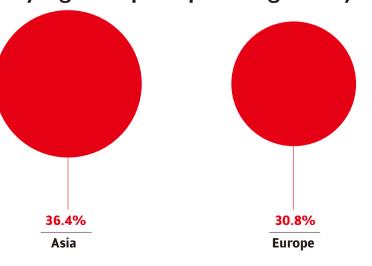


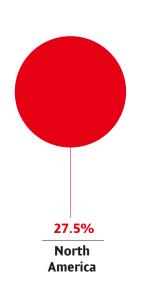


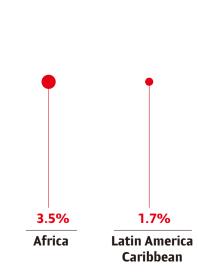
Coal recoverable reserves by region. Top coal producing country

Coal is the most abundant of fossil fuels. It is available from a wide variety of mines distributed globally. It is used for electricity generation, but also in steel and aluminium production as well as in cement manufacture and as a liquid fuel.

Global consumption of coal is growing and is expected to increase even more as developing countries expand their energy needs. The introduction of various carbon management schemes, particularly carbon capture and storage (CCS), is vital to mitigate the impact of future coal use on the environment.







Sources: www.bloombeg business.com; www.zerohedge,org; www.quartz.org; **#visualisingthecrisis**

Daily World CO₂ Emissions of March 4th, 2016