

# IEA: Global renewable energy growing fast

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In this May 18, 2011 file photo, a wind turbine stands near Arlington, Ore. Renewable energy is growing fast around the world and will be the second biggest source of electricity, after coal, by 2016, according to a five-year outlook published Wednesday, June 26, 2013, by the International Energy Agency. (AP Photo/Rick Bowmer, File)

Renewable energy is growing fast around the world and will edge out natural gas as the second biggest source of electricity, after coal, by 2016, according to a five-year outlook published Wednesday by the International Energy Agency.

Developing countries are building more wind, solar and hydro-[electric power plants](#) to meet rising power demand and combat local pollution problems. And the costs of [renewables](#) are falling below the cost of traditional power sources such as coal, natural gas and oil in some markets with high-priced power.

Renewable power, including hydropower, is the fastest-growing power generation sector and it is expected to increase by 40 percent in the next five years. By 2018 it will make up a quarter of the world's [energy](#) mix, according to the report, up from 20 percent in 2011.

Eighty percent of the [renewable power](#) generated in the world, however, is [hydropower](#), a technology frowned upon by environmental groups and sustainability experts because it requires the construction of dams that can damage [river ecosystems](#).

Non-hydroelectric sources such as wind, solar, geothermal and energy derived from plants are also expected to grow quickly, but they contribute a far smaller amount of energy to the global mix. These technologies will supply 8 percent of the world's energy by 2018, up from 4 percent in 2011 and 2 percent in 2006.

Still, renewable power is facing uncertain times as subsidies in developed countries wane. Investment in renewable projects fell in 2012, according to the IEA, an [energy security](#) and research organization based in Paris that serves 28 oil-importing countries, including the U.S.



Floodwaters are released from the Gravins Point hydroelectric dam on the Missouri River, near Yankton, S.D. Renewable energy is growing fast around the world and will be the second biggest source of electricity, after coal, by 2016, according to a five-year outlook published Wednesday, June 26, 2013, by the International Energy Agency. (AP Photo/Robert Ray, File)

In a report published in April, the IEA said the world's energy is no cleaner than it was 20 years ago because of rising reliance on coal-fired generation in China, India, and parts of Europe that are phasing out nuclear power and facing high [natural gas prices](#).

"The rapid growth of renewables continues to beat expectations and is a bright spot in an otherwise bleak assessment of global progress toward a cleaner and more diversified energy mix," the report concludes.

The use of biofuels is expected to grow, though at a slower rate than renewable electricity, in part because companies haven't succeeded in developing technology that can squeeze fuels from plant waste or dedicated biofuel crops such as grasses at commercial scale. The vast majority of biofuel used today is alcohol—called ethanol—made from sugar cane or corn.

Biofuels use is projected to increase 25 percent by 2018 to 2.4 million barrels per day. By comparison, the world consumes 90 million barrels per day of petroleum.

Developing countries, led by China, will account for two-thirds of the global increase in renewable generation. Growth in Europe and the U.S. is expected to slow, though President Barack Obama outlined a sweeping plan Tuesday that would encourage renewed investment in renewable sources.

Renewable sources were used to generate 12 percent of the electricity consumed in the U.S. last year, according to the Energy Department. Hydroelectric plants supplied 7 percent of the country's [power](#), and other renewables such as wind and solar supplied 5 percent.

Ethanol, mostly made from corn and blended with gasoline, was used to satisfy 10 percent of U.S. gasoline demand last year.

IEA Executive Director Maria van der Hoeven said in a statement that the biggest impediment to further renewable growth is changing energy policies that increase risk for investors. "Many renewables no longer require high economic incentives. But they do still need long-term policies that provide a predictable and reliable market and regulatory framework compatible with societal goals," she said.

The IEA estimates that worldwide subsidies for fossil fuels are six times

higher than incentives for renewables.

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