

# No evidence of residential property value impacts near US wind turbines

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Lawrence Berkeley National Laboratory (Berkeley Lab) analyzed more than 50,000 home sales near 67 wind facilities in 27 counties across nine U.S. states, yet was unable to uncover any impacts to nearby home property values.

"This is the second of two major studies we have conducted on this topic [the first was published in 2009, see below], and in both studies [using two different datasets] we find no [statistical evidence](#) that operating [wind turbines](#) have had any measurable impact on home sales prices," says Ben Hoen, the lead author of the new report.

Hoen is a researcher in the Environmental Energy Technologies Division of Berkeley Lab.

The new study used a number of [sophisticated techniques](#) to control for other potential impacts on home prices, including collecting data that spanned well before the wind facilities' development was announced to after they were constructed and operating. This allowed the researchers to control for any pre-existing differences in home sales prices across their sample and any changes that occurred due to the [housing bubble](#).

This study, the most comprehensive to-date, builds on both the previous Berkeley Lab study as well a number of other academic and published U.S. studies, which also generally find no measurable impacts near operating turbines.

"Although there have been claims of significant property value impacts near operating wind turbines that regularly surface in the press or in local communities, strong evidence to support those claims has failed to materialize in all of the major U.S. studies conducted thus far", says Hoen. "Moreover, our findings comport with the large set of studies that have investigated other potentially similar disamenities, such as high voltage [transmission lines](#), land fills, and noisy roads, which suggest that widespread impacts from wind turbines would be either relatively small or non-existent."

The report was authored by Ben Hoen (Berkeley Lab), Jason P. Brown (formerly USDA now Federal Reserve Bank of Kansas City), Thomas Jackson (Texas A & M and Real Property Analytics), Ryan Wiser (Berkeley Lab), Mark Thayer (UC San Diego) and Peter Cappers (Berkeley Lab). The research was supported by the U.S. Department of Energy's Office of Energy Efficiency and Renewable Energy.

**More information:** 2013 Study: "A Spatial Hedonic Analysis of the Effects of Wind Energy Facilities on Surrounding Property Values in the United States" download here: [emp.lbl.gov/sites/all/files/lbnl-6362e.pdf](http://emp.lbl.gov/sites/all/files/lbnl-6362e.pdf)

2009 Study: "The Impact of Wind Power Projects on Residential Property Values in the United States: A Multi-Site Hedonic Analysis" download here: [emp.lbl.gov/sites/all/files/REPORTlbnl-2829e.pdf](http://emp.lbl.gov/sites/all/files/REPORTlbnl-2829e.pdf)

Provided by Lawrence Berkeley National Laboratory

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