

# Property Values are Not Affected by Land-based Wind Turbines

**Studies show no evidence of long-term impacts on property values from wind farms in rural areas.**

## Key Takeaways

- 1 Numerous studies show that the planning, construction, and operation of utility-scale wind turbine installations have no long-term negative impact on property values.
- 2 Limited research suggests that the installation of wind turbines can lead to a regional increase in property values, particularly in rural communities.
- 3 Wind installations can economically benefit communities in numerous ways by bolstering the tax base, providing jobs, and raising per-capita income.

## Background

Utility-scale wind energy is the largest source of renewable electricity generation in the United States and is growing continuously. There are over 70,000 wind turbines deployed across the U.S., capable of generating 146 gigawatts of clean, reliable electricity – enough wind power to serve 46 million American homes.



## Research Refutes Economic Misconceptions of Wind Turbines

Years of research into the impact of wind turbines on property values have shown no evidence of negative long-term impact of wind installations to property values, including a 2023 study by Eric J. Brunner, Ben Hoen, Joe Rand, and David Schwegman which found no evidence of long-term negative impacts to property values in rural communities.

The only potential for an adverse effect from wind project installation was observed during the temporary construction phase in large “urban” counties, with populations greater than or equal to 250,000. This potential temporary effect only impacted properties within one mile of a wind installation and was limited to the construction phase of the project. Evidence shows that property values begin to return to pre-announcement levels after operation begins.

- Notably, the overwhelming majority of wind energy projects are in rural counties, where evidence emphasizes no negative impacts from installations.
- 88% of installed wind capacity is in counties with populations less than 100,000
- 94% of installed wind capacity is in counties with populations less than 250,000

Additionally, a 2019 analysis of property value research by researchers at the University of California, Davis found that wind turbines do not negatively impact property values at any point during their installation, including post-announcement, during construction, and post-construction.

A 2013 study by the Lawrence Berkeley National Laboratory (LBNL) found no significant impact on the property values of the 50,000 homes researchers analyzed near 67 different wind facilities.

- According to the lead author, Ben Hoen, “This is the second of two major studies we have conducted on this topic [the first was published in 2009], and in both studies [using two different data-sets] we find no statistical evidence that operating wind turbines have had any measurable impact on home sales prices.”

## Wind Installations Economically Benefit Property Owners

Some American homeowners have the perception that wind turbine installations can reduce property values in an area; however, extensive research indicates this is not the case.

A 2022 peer reviewed study found that beginning with the construction phase, wind energy projects led to economically meaningful increases in median home values, household income, and both county-level income and gross domestic product (GDP) per-capita. The study also suggests that wind energy investments may stimulate and diversify local rural economies at an increasing rate with installed capacity, implying rural communities with multiple installations and a greater amount of wind energy capacity benefit the most.

