

# Wind Power Pros and Cons



## PROS

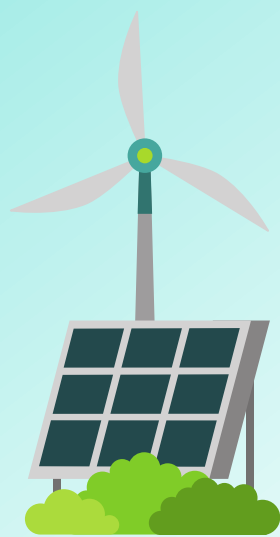


### CLEAN & RENEWABLE

- Emits **no air pollutants** or greenhouse gases unlike one of its main alternatives (fossil fuels).
- Creates **no physical waste**, requires no water, and does not contaminate bodies of water.
- **The wind is unlimited**, its energy can be harnessed day and night, in overcast/rainy weather, and all year round.

### RELIABLE IN CANADIAN WEATHER

- Wind power can **operate efficiently** in harsh weather conditions.
- The installation process is more **affordable and easier** in comparison to other renewable energy sources.



### HYBRID SYSTEM

- Wind turbines and solar panels working in tandem create large amounts of renewable energy that can significantly **reduce carbon emissions** and the reliance on fossil fuels.

### LITTLE MAINTENANCE REQUIRED

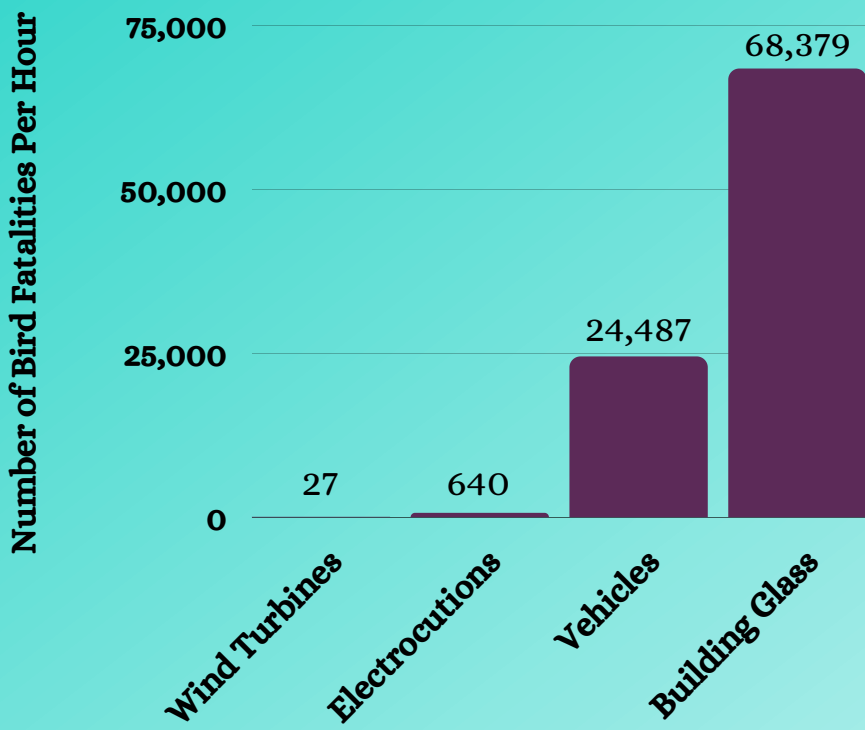
- After the microgeneration wind turbine is assembled and raised, they are **very low-costs to run and maintain**.
- Wind energy is now the **lowest-cost option** for new electricity generation in Canada.



Feel free to reach out to us with any questions you may have or learn more [here!](#)

# CONS

## BIRD FATALITIES



- The adjacent chart shows USA **bird fatalities** per hour in 2017.
- Black blades on a wind turbine can **greatly reduce** the number of bird collisions.

## INITIAL COST

- There is an **initial cost** to acquire the turbine and tower system.
- Turbines can range in price depending on their size, with higher capacity turbines usually costing more.



## VISUAL & AUDITORY CONCERN



- Many people are concerned with the **visual effects** that wind turbines have on the beautiful scenery of nature.
- Individuals are opposed to the **sound generated by wind power**. There is a multitude of factors that affect the noise level. Click [here](#) for more details.

## INTERMITTENCY

- Turbines can only generate energy when the wind is blowing at least **14.4km/h (4m/s)**.
- Some areas do not have the wind speeds necessary to make wind power viable.
- Canada is blessed with **good winds** which can be seen [here](#).



### Sources:

- <http://large.stanford.edu/courses/2014/ph240/lloyd2/>
- <https://windexchange.energy.gov/projects/economic-impacts>
- <https://canwea.ca/wind-facts/affordable-power/>
- <https://www.energy.gov/eere/wind/advantages-and-challenges-wind-energy>
- <https://www.statista.com/chart/15195/wind-turbines-are-not-killing-fields-for-birds/>
- <https://nergica.com/en/study-solar-pv/>

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Feel free to send us a message to learn more about wind energy [here](#).