

Home Wind Power Pros & Cons

PROS



CLEAN & RENEWABLE

- *The wind is unlimited*, its energy can be harnessed day and night, in overcast/rainy weather, and all year round.

EASY INSTALLATION

- *Small footprint* area required.
- *Do it yourself* installation option.
- Turbine can be placed *above tree canopy*.



RELIABLE IN CANADIAN WEATHER

- Home Wind Turbines are *not affected* by snow accumulation.
- Fall & Winter wind generates the *highest electricity* at a time when more heating is required.



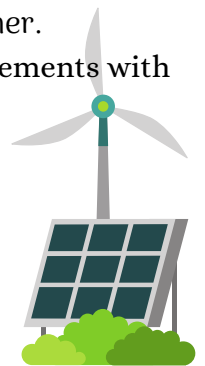
LITTLE MAINTENANCE REQUIRED



- After the microgeneration wind turbine is assembled and raised, there are *very low costs to run and maintain*.

HYBRID SYSTEM

- Can *co-exist* with other clean energy generation systems.
- Wind Turbines & Solar Systems *complement* each other.
- *Lower battery* requirements with hybrid system.



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

CONS

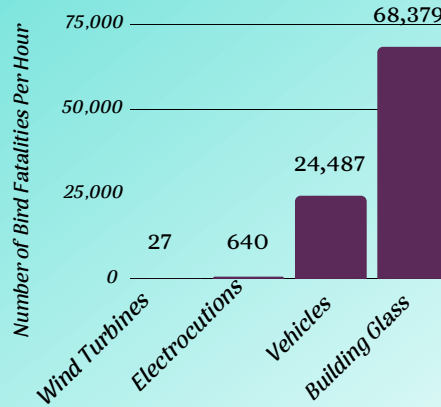
INTERMITTENCY

- Average wind is lower in the summer, when **less lighting** and **less heating** is required.
- Energy **stored in batteries** can be used when wind speeds are low.



BIRD FATALITIES

USA BIRD FATALITIES PER HOUR IN 2017.



- Wind turbines accounted for only 27, the **least** of the sample taken which came up to less than 1%.
- **Black blades** on a wind turbine can **greatly reduce** the number of bird collisions.

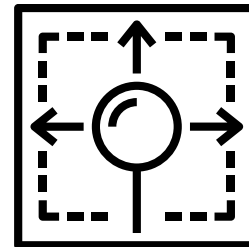
AUDITORY CONCERN

- Individuals are opposed to the **sound generated by wind power**. There is a multitude of factors that affect the noise level. For example, noise level **decreases with distance**.
- Home Wind Turbines have **short blades that displace less air per revolution**, thus generate **lower noise** when compared to utility sized Wind Turbines.



SPACE/ACCESSIBILITY

- Tower needs to be **lowered to access** turbine for maintenance/repairs.
- Turbine requires dedicated real estate, but a significant percentage can be **repurposed**.



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/>



Inquiries_BorrurEnergySolutions@outlook.com
519.743.9463 (WIND)
borrumenergysolutions.ca
@borrum_energy_solutions

