

PRODUCING WIND ENERGY

Wind is a renewable source of energy that can be generated from on-farm wind turbines. Wind energy can offset farm energy costs while reducing the amount of electricity generation from fossil fuel, which results in lower greenhouse gas emissions and air contaminants. Wind energy make sense on farms where winds are strong enough – for example on ridges, or wide-open windy spaces, to harness that wind power to generate renewable energy.

Implementation Tips

- Consider available wind resources, zoning regulations and aesthetic issues (neighbors and community members) during the planning process of installing wind turbines.
- Ensure that the scale of the wind turbine aligns with the amount of energy used on your farm (e.g., farming equipment, ventilation system of barn).

Resources

- **Webpage:** Electricity generation using small wind turbines for home or farm use, Government of Ontario (dfc-plc.info/PWE1)
- **Webpage:** Is A Wind Turbine Right For Your Rural Property?, Green Building Canada (dfc-plc.info/PWE2)
- **Webpage:** Putting wind in our sails, University of Alberta (dfc-plc.info/PWE3)

“The quality of the local wind conditions is a significant factor in determining if a turbine will be economically viable for the home or farm. The Canadian Wind Energy Atlas (CWEA) is available online through an interactive wind map that produces wind speed data for a site with 200-m (656-ft) resolution.”

— Government of Ontario

Benefits



Reduced GHG emissions



Estimated return on investment
Medium



On-farm emission mitigation potential +

