

# Ontario Wind Turbines website

<http://ontario-wind-turbines.org/> wayne@ontario-wind-turbines.org

**Ontario Wind Turbines**

Version: c20

This site contains the project areas and turbine layouts in southern Ontario, along with important conservation areas and transmission lines. When you click below a new window will open and you will see two maps. They are both based on Google Maps, so you can zoom in and pan around with your mouse. The left-hand map shows the project areas, which are either based on where the turbines are or on the project study area. When you move the mouse over them their names will appear above the map.

When you click in a particular area the individual turbines for that project will be presented in the right-hand map for many of the projects - if you get a "not available" message I probably haven't located the individual turbines yet, or turbines aren't involved. Each red circle is one turbine, and the circles have a radius of 550 metres, the Ontario noise setback. If the circles just meet the turbines are within 1100 metres of each other, and if they overlap they are closer than that. Recall that downwind turbulence is a major sapper of turbine efficiency - to avoid it turbines should be at least 1000 metres apart, preferably 1500 (15 times typical rotor diameter). The smaller yellow circles have a radius of 10 metres.

These maps are not authoritative. For reasons that should be obvious Ontario is unwilling to publish this information so I took it upon myself to do so, using the best information I have. March, 2015: The TVO documentary "Big Wind" had a map that apparently omitted a number of projects. Perhaps their criteria for what constitutes a "project" was different from mine. My main criteria is that some information about each project shown was published in some public forum/media. Since wind developers keep their projects secret as long as possible, no doubt there are more projects being pursued than I am showing here.

<http://ontario-wind-turbines.org/owt-maps-c20.html>



Count of Wind Turbines in Ontario (tallied left, below) --- Wind turbine projects in area just west of (pictured above) Niagara Falls along Lake Erie shoreline (tallied right, below):

ACROSS ALL OF ONTARIO:		NORTHSHORE, LAKE ERIE	
		NE-most 1/3rd part of lake	
<u>NUMBER OF TURBINES AND AREA IMPACTED:</u>		<u>Number of</u>	<u>MW, capacity</u>
		<u>turbines</u>	
Averag numb. of turbines per project:	26	5	10
Number of projects:	237	80	230
	x	5	9
Est. number of turbines:	6162	5	6
		5	9
Area per turbine (acres):	196	67	150
		58	128
Total area of turbines (acres):	1,207,752	58	105
		5	10
Total area of turbines (sq miles):	1,887	3	7
		4	10
	TOTAL:	295	674

Actual number of wind turbines: 6,736 <https://windpowergrab.wordpress.com/>



Above –Humans impacted by turbines: 36 residences lie along Rainham Rd between the ten (10) wind turbines. Turbines can be as close as 3,260 feet (1000 m) from the nearest residence, Ontario’s “setback distance”.

Image (below) is close-up of area in center of above image. Note location of 4 turbines visible. Bar scale (black) is 1500 feet.

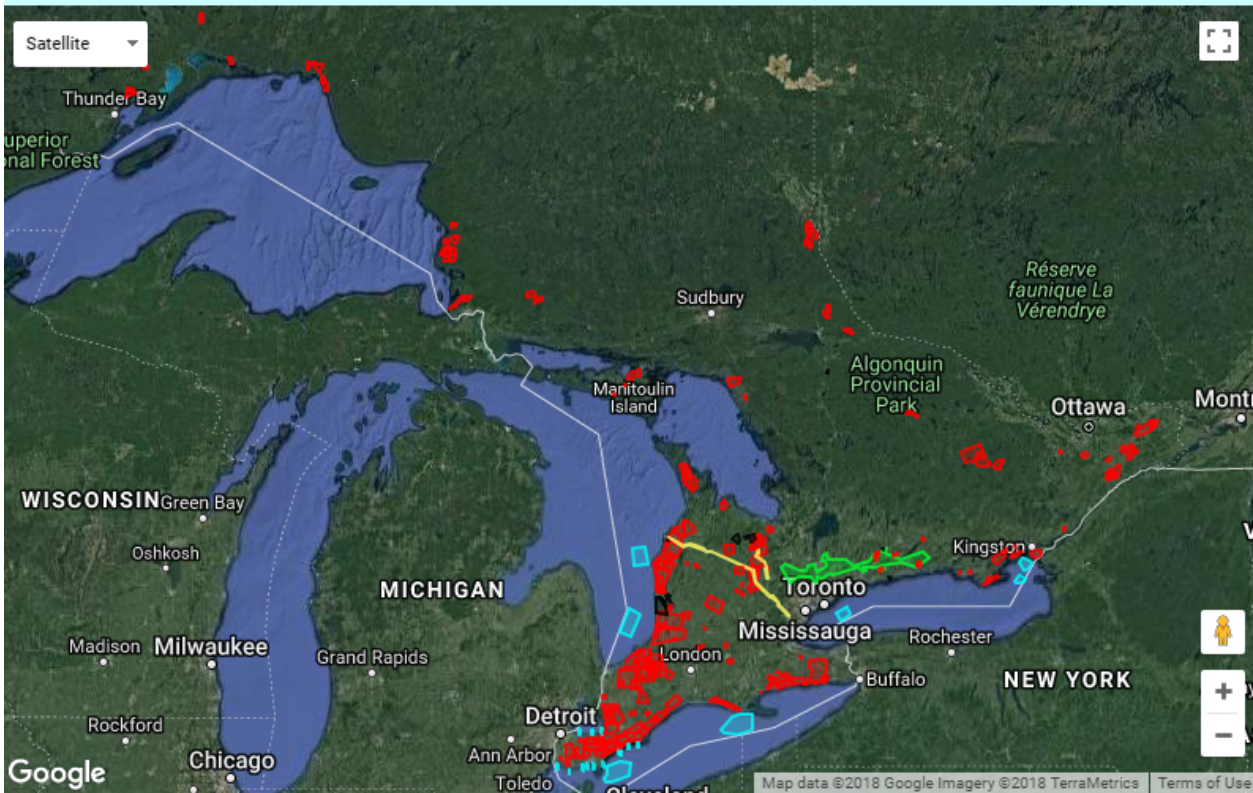


Above—Closeup of photo from above. Note 4 turbines



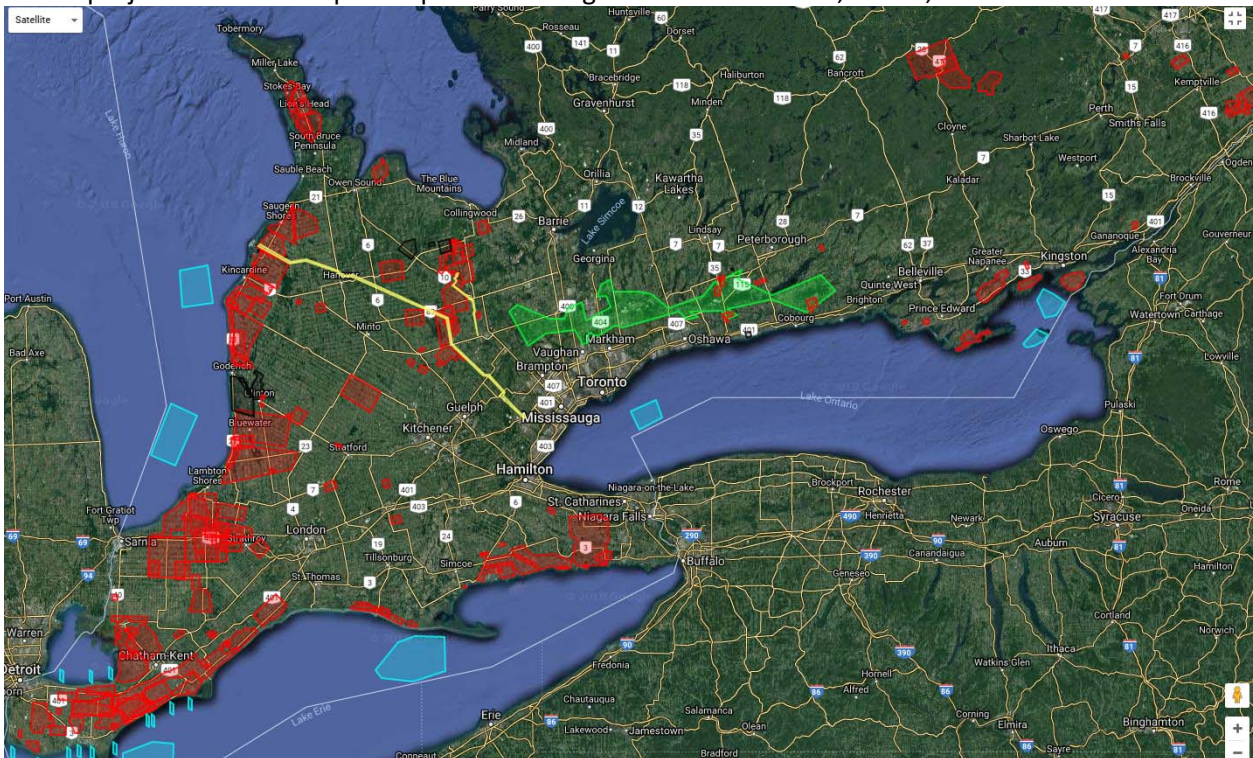
# Project/Study Areas

# of Projects Showing: 237  
Project Name



Above-Projects across all of Ontario.

Below-projects in southern part of province along shores of Lakes Erie, Huron, Ontario



## WIND TURBINES For Ontario **by County**

INSTALLED - APPROVED - PROPOSED IN ONTARIO ---- AS OF OCTOBER 2013

ALGOMA	609	NORFOLK	41
BRUCE	827	NORTHUMBERLAND	30
CHATHAM-KENT	629	OTTAWA	8
COCHRANE	15	OXFORD	28
DUFFERIN	246	PARRY SOUND	299
DURHAM	16	PEEL	5
ELGIN	97	PERTH	31
ESSEX	312	PETERBOROUGH	3
FRONTENAC	86	PRESCOTT	15
GREY	156	PRINCE EDWARD	195
HALDIMAND	216	RAINY RIVER	10
HURON	521	RENFREW	100
KAWARTHA LAKE	18	SIMCOE	17
LAMBTON	363	STORMONT	24
LANARK	6	SUDBURY	1
LEEDS	6	THUNDER BAY	537
LENOX	78	TIMISKAMING	200
MANITOULIN	204	TORONTO	10
MIDDLESEX	228	WATERLOO	10
NIAGARA	64	WELLINGTON	73
NIPPISING	48	YORK	151
PROVINCE OF ONTARIO - CROWN LANDS .....	203		

**TOTAL Turbines = 6,736**

Along Lake Huron 1915. For Further Information go to [windpowergrab.wordpress.com](http://windpowergrab.wordpress.com)