



NEWSLETTER

September 2016

With each passing month, we learn more about the plague of Industrial Wind Turbines in Ontario. This month the media has highlighted several stories from damages to local water supplies, to the ever-increasing cost of electricity and its negative impact on consumers and industry throughout the province.

Thanks to all those who completed our online [feedback form](#).

It provides us with personal insights into local issues, including health concerns, and gives everyone a chance to share their thoughts and opinions. You are encouraged to use this [feedback form](#) to communicate with us. Below you will find an editorial, shared with permission.

Editorial

Submitted By Gerry Buono

What is happening to Ontario?? For some unknown reason we have elected the most dangerous government in the province of Ontario. In a democracy the government is supposed to listen and follow the will of the majority. This government however has an agenda of its own. It has become totally deaf and disconnected from what is the will of the majority. New taxes are being introduced and approved by their senseless majority at an alarming rate. Taxpayers' money is being senselessly wasted. The deficit keeps increasing with no end in sight. We now have a Robin Hood type government that steals from the well to do (those that have worked / work very hard to achieve their status) and gives to those that are not so well to do and at the same time causing more problems like a monumental number of job losses, companies constantly leaving Ontario and relocating elsewhere where

electricity and other costs are more sensible. I could go on for hours relating the negativity of this government. I believe that the only thing left for Ontarians to do is to call for a public inquiry on this government and deal with it according with the results. These dangerous and very expensive wind turbines are definitely not the answer to the production of electricity. They will soon bankrupt Ontario if not done so already.



From our last newsletter:

If the turbines are turning, is power being provided to the Provincial Grid?

The question was posed to Suncor, and – it is true – turbines may be rotating without providing power to the provincial grid, specifically if the IESO has instructed them to stop producing. Keeping the blades rotating will make it easier to produce power more quickly when the IESO again accepts power to the grid.

It may surprise you to learn that the project may actually consume more power than it produces. The official estimate of consumption to keep the blades rotating, even without wind, is 8 kWh to 30 kWh per turbine, and higher in the winter with colder temperatures.

How do you know if the turbines in your area are producing power to the Provincial Grid?

There are several websites where you can check power production (output) at any given time, capability, power exported and imported, and much more information ... for any power project in Ontario:

<http://live.gridwatch.ca>

<https://www.sygration.com/gendata/today.html>

<http://www.ieso.ca/Pages/Power-Data/default.aspx>

As this is being written, all wind projects are contributing a total of 1.4% of Ontario's power to the grid.

These terms may help:

The Independent Electricity System Operator (IESO) manages the operation of the system, takes bids for generation and dispatches generation, telling each generator how much to generate at any time.

The Ontario Energy Board (OEB) regulates the prices charged by many generators, the transmission company and distribution utilities.

How much power do off-the-grid turbines actually CONSUME?

This is an eye-opening article that will surprise you. "Clean energy" giant turbines use a tremendous amount of energy to operate, even if they are not supplying energy to the grid. Net production may, in fact, be **negative production**. Click on the link below:

<http://www.aweo.org/windconsumption.html>

Note: Author worked specifically with Vespa turbines, but information is relatable to all turbines, as all turbines must turn to prevent warping and bowing, providing a forced-feed lubricating system to move the heavy load, as well as other functions.

Feedback Response

"It takes a wind speed of around 10 mph to start producing any power. Anything less can cause the WT to rotate, which is desirable to keep the bearings from becoming dented if the shaft sits ideal for a long period. When IESO cut them back, that they produce power for their own needs is wrong. If their output is 0 with a good wind, the turbine has to be disconnected and then would be unable to generate 60 Hz electricity. They can reduce the output by rotating the turbine slightly out of the wind. However, we need more information on the control of the WT.

From my own experience, when a generator is connected and synchronized, to the electrical system and producing electricity, a properly connected generator meter system should only measure the net power output of the

generator. The 8 to 30 kW of electricity that is used by the wind turbine and generator with all its auxiliaries, is taken off before the outgoing meters. However, when the WTG is not producing power and is not synchronized, then there would be the back flow of electricity to supply the auxiliaries. This, I believe, in the winter period would be a great deal more than the 30kW as mentioned. In the initial start-up of a WTG unit, the wind provides the energy to rotate the generator up to speed. During that period the aux power is most essential to pump the lube oil, the hydraulic oil pump and to control the rotation of the WTG into the wind and provide some heat for the aux. equipment.

If there is no wind, there can be a back feed of electricity to feed the generator and keep the turbine rotating. This is only done when the generator is an inductive generator/motor. My understanding is that the new WTG units of 2MW capacity and larger are asynchronous generators and could not feed power to keep them rotating unless the generator is special in its design.

These past few days the wind turbines have not been producing much. Yesterday I noted in the Sygration spread sheet that the total WTG output at 10, 11 and 12 AM was less than 40 MW. At one time it was only 27 MW. The gas turbine backup power system was running over 3000 MW and all hydraulic water power and nuclear plants were running at capacity.

Are we crazy in believing that this renewable source of energy will give use a cleaner atmosphere and less CO2?

This is the output from a WTG capacity of over 5000 MW. The capital cost of that 5000 MW at \$2000 per kW would be over 10 billion dollars and on average it will only produce 30% of that capacity. A nuclear plant can be built for less than that and would be available 90 % of the time."

- **Joe Zanyk, P. Eng.**

What other Jurisdictions are Saying...

From the World Health Organization:



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[Study calls for a 16-km turbine setback on Great Lakes:](#)



[From the Association of Municipalities of Ontario 2016 Conference in Windsor:](#)

[Chatham Counsellor Bondy seeking turbine moratorium | Chatham Daily News](#)



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Follow-up on Ground Water Turbidity....

**Read response in the article above from Chatham Kent Daily News

<http://blackburnnews.com/chatham/chatham-news/2016/08/24/tribunal-hears-well-water-concerns/>

Ontarians Can No Longer Afford to Pay Their Hydro Bills



566,902 Ontario homes behind on hydro bills

TORONTO — More than eight per cent of Ontario households were in arrears with their electricity bills at the end of 2015, owing more than \$172.5 million. The Ontario Energy Board reports 566,902 homes were in arrears last year, 263 fewer customers than were behind in their electricity bills at the end of 2014. The board says any account that is 30 or more days past the 16-day minimum payment period is considered to be in arrears. Hydro One Networks, the electricity distribution arm of Ontario's giant transmission utility, was owed \$105,583,215 by 225,952 customers who were in arrears, which is up more than 1,750 households from 2014

Toronto Hydro had the second largest number of clients in arrears, with 60,528 households owing \$13,194,511 last year. The Ministry of Energy says there are about 4.6 million residential electricity customers, or households, in Ontario.

[Hydro ratepayers can't keep up](#)



Years of increases in Ontario electricity prices are taking their toll in the London region, with more people behind on their hydro bills.

Look at the stats for all SW Ontario municipalities in this article.

[Rising Electricity Costs Impact On Industry](#)



Large industrial users are struggling to stay competitive in a province whose electricity rates are among the highest in North America, and certainly in comparison to competing jurisdictions, but the government has given no guarantees that the sale won't drive up bills, he said.

By [Antonella Artuso](#), Queen's Park Bureau Chief

Global News Articles

[Hydro One bills driving people into poverty....](#) Ontario Energy Board (OEB) was obligated to release information on rising electricity bills and how people are being driven into energy poverty.

<http://globalnews.ca/news/2796958/rural-ontarians-left-in-the-dark-as-electricity-bills-skyrocket/>

Feedback

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