ONTARIO'S QUEST for RENEWABLES BRINGS LITTLE ENERGY, HIGH COST, WIDESPREAD POVERTY to PROVINCE

by David Boleneus

A BRIEF - HOW RENEWABLE ENERGY CAME AND WENT IN ONTARIO

Fraser Institute reports: In 2013 7.5% of Ontario households are in energy poverty. Parker Gallant reports: In 2014, 20% of Ontario households are in energy poverty. Fraser Institute, 2016 reports: Province is only able to use 4% of energy supplied by wind and solar while the cost of wind and solar is 20% of the commodity cost and the environmental benefits associated with renewables could have been accomplished with ongoing retrofits of coal plants at 1/10th of the cost. (July 6, 2016 https://www.fraserinstitute.org/blogs/high-electricity-prices-putting-ruralontario-in-energy-poverty)

HERE IS HOW IT ALL CAMEAND THEN COLLAPSED

ONTARIO 's home-town boy, Maurice Strong, got a first job in post -WWII was at United Nations in 1949. In the 1990's Strong returned to Ontario to became the CEO of Ontario Hydro, the Province's electric utility, which eventually split into five parts, one of which became HydroOne Ltd., the company that proposed and failed in 2019 to purchase Avista Corp. in Spokane. Maurice Strong, became founder of the UN's Environment Programme is famous as the organizer of the 40,000 participant Rio de Janeiro Conference on the Environment and put together the Kyoto Protocol signed by the US. One of Strong's famous presiding statements at the Rio Summit was this:"We may get to the point where the only way to save the planet will be for industrial civilization to collapse....isnt it our job to bring that about". Thus was born global warming, which in 10 years morphed into climate change. Strong was also recipient to half million dollar kickback from Sadam Hussein in Iraq's "Oil for Food" Scandal. Strong also mentored North Korea's government with its nuclear ambitions. Strong essentially mentored Al Gore, and Barack Obama. Before becoming senator Obama, a board member of the Joyce Foundation in Chicago gifted \$1 million startup capital to the Generation Investment Management, a vendor and part owner to the Chicago Climate Exchange, both co-founded by Al Gore, with Gore later joined by Strong and Obama. Their plan was to capitalize on cap-and-trade carbon trading opportunities through the Chicago Climate Exchange.

Terence Corcoran reports these events in October, October 21, 2016 (http:// business.financialpost.com/opinion/boondoggle-how-ontarios-pursuit-of-renewable -energy-broke-the-provinces-electricity-system):

At the beginning, coal provided more than 20% of Ontario's electric supplies at a price of 5.5 cents/kwhr. In 2010, deep green environmentalist Rick Smith, PhD in Biology, then head of Environmental Defence Canada, hailed Ontario's Green Energy and the Green Economy Act regime as a cost-free operation that would catapult the province into the big leagues of renewable energy.

Smith was absolutely sure that Ontario's campaign to become the North American leader in renewable energy would not be a burden on consumers. He had the facts, the study, and the numbers. Renewable is doable. "We've done some modelling on this and we're talking a penny's increase to your average person's electricity bill," he said. "Ontarians won't even notice any impact on their electricity rates."

One of the most influential green studies was a 2005 report commissioned by the Ministry of Energy: "Cost Benefit Analysis: Replacing Ontario's Coal-Fired Electricity Generation." The authors included Bruce Lourie, who later headed the Green Energy Act Alliance among other things, and Peter Victor, a veteran green guru came to Ontario's aid from a post at York University's department of environmental studies.

In 2009, the Green Energy Act, 2009 passed by Parliament

Post-Green Energy Act 2009; Smitherman and Ontario Premier Dalton McGinty, both liberals sign a \$7 billion deal with Samsung and more deals with other vendors pledging future payments for renewables of 400% over the cost of competitive coal power to build wind turbines for a 20 year term and 1,000% above the cost of coal power to build solar.

Former premier Dalton McGuinty who originated the Green Energy Act, repeated claims in a recent speech from the throne, that closing coal plants would dramatically reduce smog and save \$4.4 billion in health care and other costs are now found to be demonstrably untrue.

RENEWABLE COSTS OUT-OF-THIS WORLD

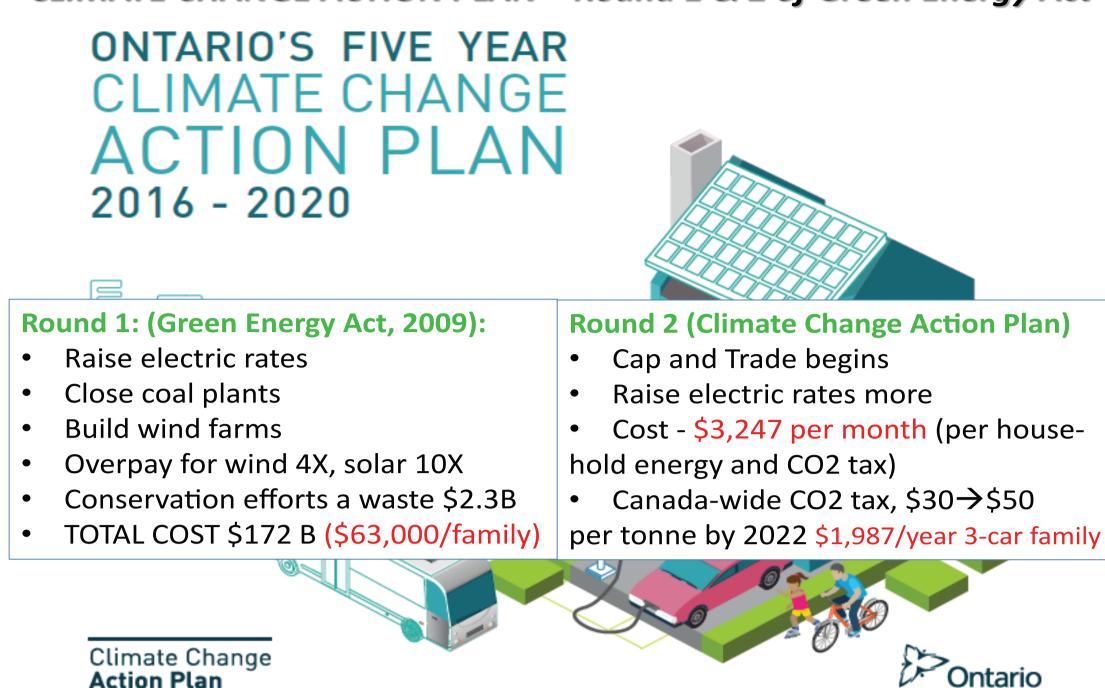
Totalling all the costs of going green — Ontario's auditor general estimated costs to total \$170 billion over 30 years— while none of the alleged economic and social benefits have materialized....continues above

Carbon Tax Opponents Keep On Winning

Alberta's United Conservative Party (UCP) won a landslide victory against the liberal New Democratic Party (NDP) Tuesday night. UCP Leader Jason Kenney's first priority: repeal the province's carbon tax.

ONTARIO'S GREEN ENERGY ACT, ITS COST Is it State-sponsored Energy Poverty?

CLIMATE CHANGE ACTION PLAN – Round 1 & 2 of Green Energy Act



directives right out the Premier's office.

continues from bottom left.... Ontario's Society of Professional Engineers had issued more than half a dozen reports critical of the Liberals' tendency to let green talk and politics override sound policy. Instead of following the expert advice of engineers and people who understand the intricacies of electricity production and distribution, the government took to issuing

"Because they know how to turn a light bulb on and off, they'll issue policy statements on the most complex engineering system on the planet," said Paul Acchione, a former head of the engineers' society. Toronto consultant Jon Kieran, who has helped develop Ontario's solar industry, recently wrote that the renewables program based on paying financial and project developers to build large wind and solar plants has morphed into "green corporate welfare." Paul Acchione, an OSPE engineer with long experience in the electricity industry, said the government was "hiring political scientists and environmentalists because they thought they were the experts." As a result, the government has issued more than 100 ministerial directives that ignored the dramatic decline in demand and the realities of managing an electrical grid where new expensive supply was mushrooming all over the province

"Quite frankly, the province, and the electricity sector in particular, was taken over by what I would call a radical environmentalist agenda," said Bryne Purchase, adjunct professor at the Queen's Institute for Energy. The 2007 coal exit plan was "physically impossible to do," he added, "but for the longest time you could not say, 'This is impossible,' because if you did, then obviously you were not onside."

The provincial auditor general last year delivered a devastating report on the Liberal's green electricity campaign. The Auditor's report estimated that by 2014, electricity consumers had "already paid a total of \$37 billion, and they are expected to pay another \$133 billion in *Global Adjustment* fees from 2015 to 2032." That's \$170 billion over 30 years.

Global Adjustment fees, a super-surcharge, are the sum total of all the monies Ontario industries and consumers pay to fund all the back-room policy fiddles, sweetheart cash transfers and subsidies the Liberals brought in to fund renewable power, shut down coal and manipulate the system.

It was now costing \$257 per tonne of carbon dioxide to reduce emissions rather than the \$17 per tonne charged by the Quebec-California cap-and-trade system.

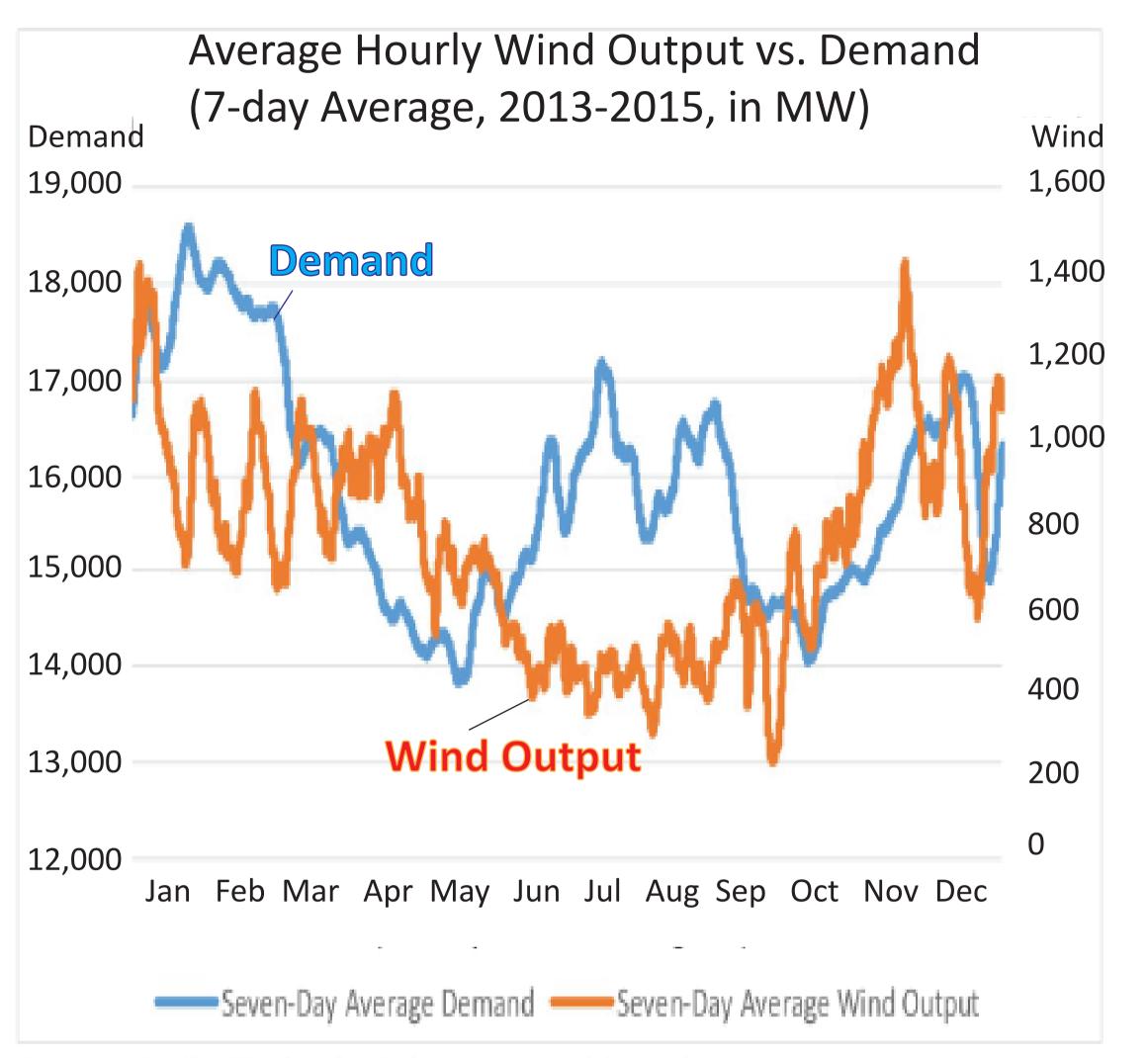
Dr. Rick Smith, Environment Defence Canada, and company claimed hundreds of thousands of jobs would result, but the number now was 42,000. By 2015, Energy Probe International of Toronto reported the price of Ontario's electricity had rocketed to 29.9 cents /kwhr and then accelerated to 36 cents /kwhr in 2016, rising 5 times faster than Canada's Consumer Price index according to Statistics Canada.

Then in 2017, Ontario Premier Kathleen Wynne doubled down on failure. The Province would issue the "Fair Trade Hydro Plan", a Parliament measure effectivley rebating 7 cents/kwhr to customers for 10 years, which will delay the both the real price in addition to all interest on borrowings, when all would come due.

The only way out is for the Province to default on contracts to renewable providers, estimated at \$133 billion which would destroy the Province's credit rating; customers of the Province's utilities had already paid \$35 billion above the cost of coal provided

Ontario's green electricity was a monumental failure. Doug Ford's election to Conservative Premier in 2018 and ousting of liberal Kathleen Wynne is set to re-order Ontario's energy but at a very high cost and along with the end of the Green Energy Act, to end Ontario's adventure with its carbon tax.

ONTARIO -- WIND OUTPUT VS. DEMAND



Source: IESO 2013-2015 hourly wind generation and demand.

Above, is Ontario wind generation (orange) and demand (blue)---7 day averaged values

NOTE—Springtime, March-April and autumn, Oct-Dec, wind output exceeds what can be sold.

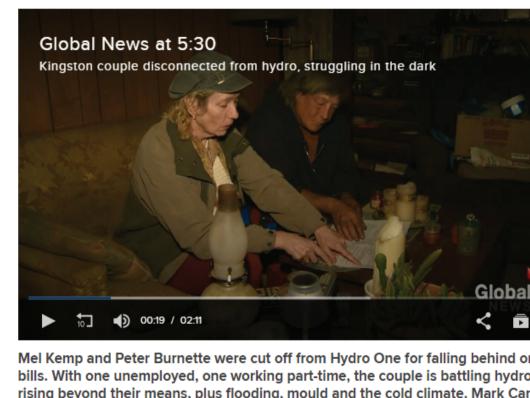
Brouilette reports ("Ontario's high cost wind millstone") on the downside of wind, that: 1. Wind is a high cost option, as it misaligns with demand. At current wind capacity

- of 6,500 MW, 68% of wind generation is surplus, costing \$550 million above its cost. 2. The per kw-hour price falls by 39% during these periods of surplus.
- 3. This is a cost of \$1.1 billion with another \$300 million additional cost because the power is unsalable; even considering existing interties with adjacent provinces and U.S. states. In March 2018, wind only provided 3% of all energy supply, so 65%
- 4. Dividing cost by output gives the cost per MWhr of \$410/mwhr, or 4 times more than cost of other sources; "Parker Gallant Energy Perspectives" a bank executive, says the actual cost of wind in 2018 is \$440/mwhr (44 cents per kwhr).

THIS RESULT ENABLES ONE TO REJECT SUGGESTIONS MADE BY THOSE WITHOUT KNOWLEDGE OF WIND TURBINES, WHO SAY, THAT IF A FEW WIND TURBINES CANNOT DO THE JOB THEN JUST ADD MORE. ITS CLEAR FROM ONTARIO THAT ADDING MORE WIND TURBINES JUST INCREASES COST WITHOUT ADDING PERFORMANCE.

RISING ENERGY COSTS AND POVERTY COLLIDE IN RURAL ONTARIO - A HYDRO ONE STORY

By Brian Hill Associate Producer Global News https://globalnews.ca/news/3080057/rising-energy-costs-and-extreme-poverty-collide-in-rural-ontario/



driver while Burnette is a mechanic currently out of work in the Kingston, Ontario area. The lack of work has left them far behind on payments to **Hydro** Their current bill was \$1,418. Next

and heating first hand.

They know the battle between eating

Kemp works part-time as a school bus

month, **Hydro One** told them that next payments would be about \$1,000 and then the bill comes in and its \$3,142. Then they couldn't pay. Hydro One c off the power. In the basement the sump pump had no electric so could not operate and about 3 feet of flood water accumulated. The mold started



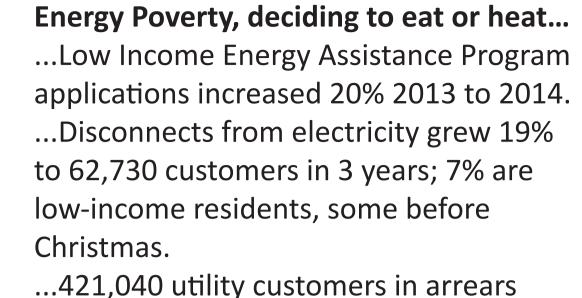
Chart—Who is in energy poverty? The \$27,000-\$47,700 income group is energy impoverished (2013, Fraser

...17% of those who earn \$27,000 to \$47,700 belong to this group. ...Increases to 28% if adding gasoline ...Energy poverty has increased 34%

since 2010

April 19, 2016https://www.fraserinstitute.org/blogs/who-suffers-most-from-high-energy-prices-in-canada

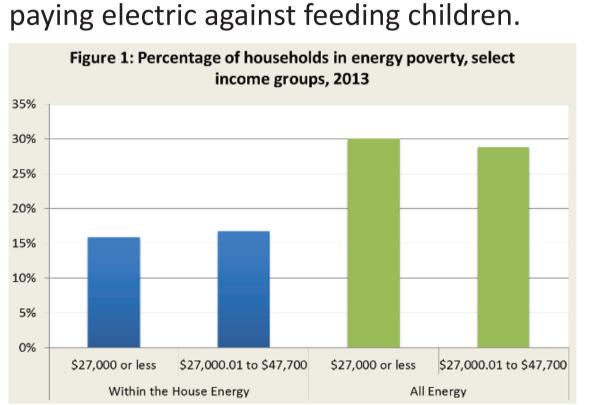
ENERGY POVERTY -- WHO IS AFFECTED?



consisting 16% of low-income residents. ...Arrears electric debt grew 40% to \$148,210,000.

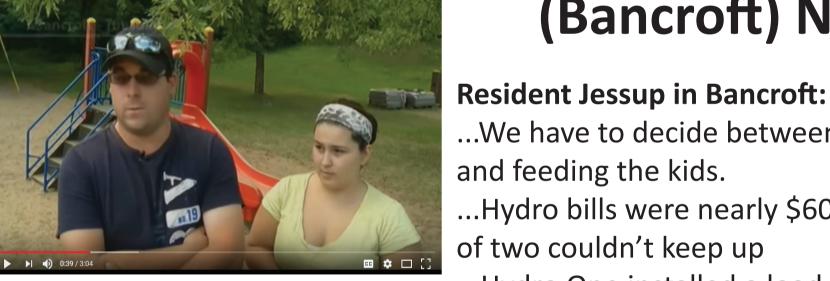
...9,824 load limiters & interrupters were installed on smart meters, 13% for low-income recipients; load limiters prevent used of microwave and conv.

...Rural residents now rely on backyard generators and families must weigh



ENERGY POVERTY -- INCREASING ENERGY

PRICES ARE DEVASTATING RURAL ONTARIO



https://youtu.be/EAmChm584z0

Commentator: Electricity prices according to Statistics Canada in Ontario jump 16 percent in the last year

(Aug 2015 to Aug 2016). **Residents in rural Ontario** are being hardest hit by increasing costs of electricity. Residents in Bancroft have

reached a breaking point with soaring Hydro (electricity) costs Ian Seaborn, Bancroft resident ... I was disconnected. With family

help, I was able to get a generator to heat my house. Even in budget billing and ditching TVs and computers I couldn't keep up.

...Right now we are thinking about moving in with parents so we can afford to live (Bancroft) NewsWatch

...We have to decide between heating the house and feeding the kids. ...Hydro bills were nearly \$600 a month and father of two couldn't keep up

..Hydro One installed a load limiter with the Smart meter. Jessup said it only made matters worse. He could not run the microwave oven now ...I'd rather feed my kids than anything, but in the

end I am behind on my Hydro (electric) bill. Bill Kilpatrick, Bancroft Councillor: ...Bancroft has been hard hit by high cost electricity

...When you need to choose between basic necessities, that's a crisis. We are in a crisis. ..Half the cost of bills are delivery costs. Costs are at least several hundred dollars during summer months and double that amount during the winter months. That's more than a mortgage payment. Social worker, Marcia Depotier:

..Electric costs forced her to sell her house, downsize. The level billing was \$798 each month, but still at the end I still owed \$798 more

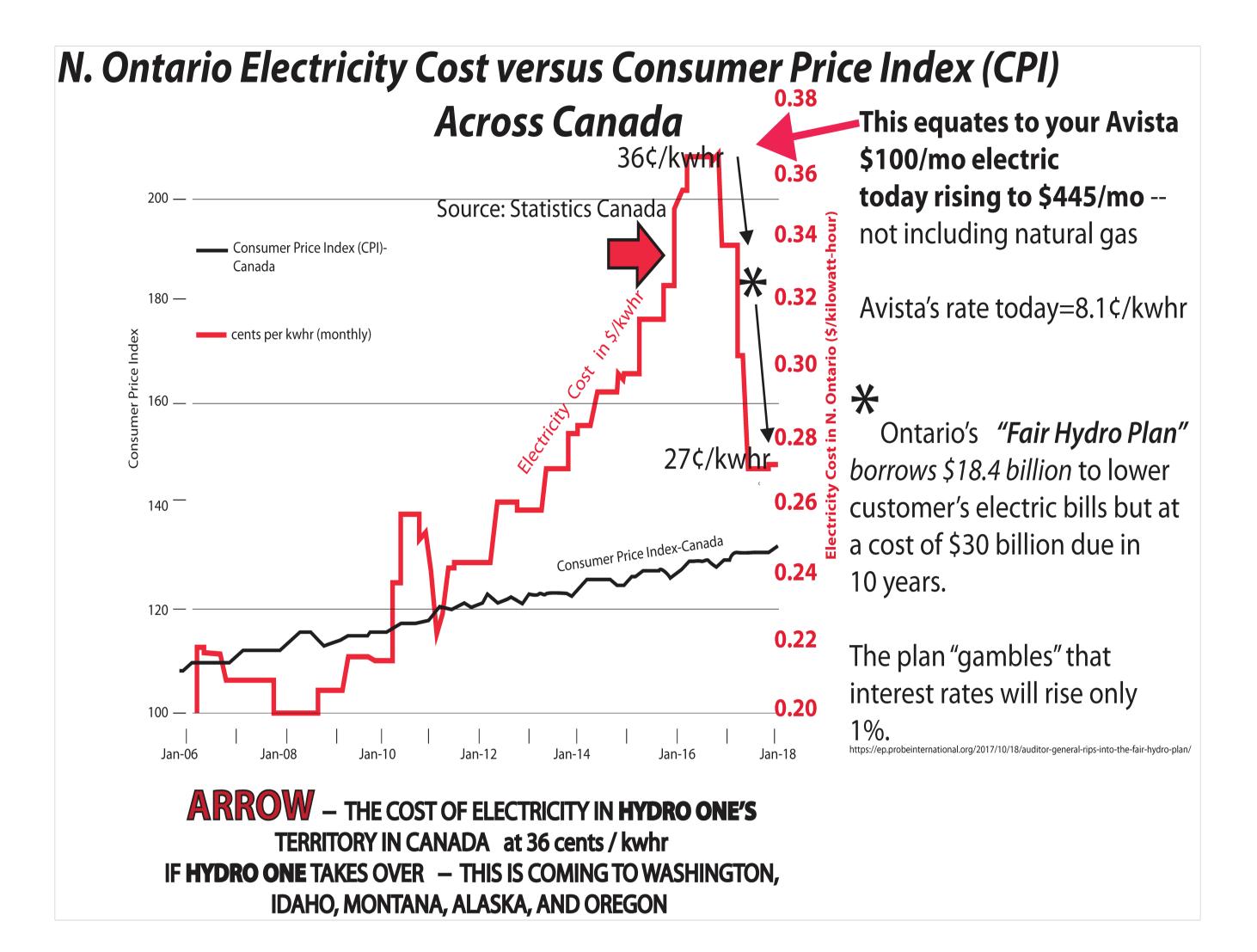
...Over one-half of my paycheck is going to hydro costs. Thank you Premier Wynne, Thank you Hydro One. I'm broke

...60,000 customers had their electricity disconnected due to non-payment

growing and reached six feet, destroying drywall. Because there is no sump means they are not insured for the damage. The stinch in the basement was terrible and could hardly go down there. Burnette says "it makes you sit down and cry, is what it does." Mel says, "taking a shower is something you cant do anymore." "Its even difficult to have a good meal in these hard times." They finally got a generator which they run four hours a day, to bring the heat up to temperature and charge the batteries, then run on batteries and 2 or 3 inverters and candles. Rising hydro rates are driving a lot more Ontarians into energy poverty. They cannot afford internet, cellphone, so they cannot communicate their need, condition to the outside, said Francesca Dobbin, United Way told Global News. Dobbin said **No Power is driving people into hospitals**, driving them into mental health facilities. She says the need for electricity should be considered a human right and not denied or overpriced.

WIND TURBINES-- THE CAUSE of ENERGY POVERTY

Ontario's Electric Rates Rocket to Highest in North America, to 36 cents per kilowatt-hour to Serve "Green Energy"



ENERGY POVERTY -- ELECTRIC UTILITY HYDRO ONE LEAVES FAMILY OF 6 WITHOUT ELECTRICITY FOR MONTHS - GlobalNews



WATCH: High Hydro costs ruining the lives of Ontario families

By Brian Hill Associate Producer Global News https://globalnews.ca/@news/3085450/hydro-one-leaves-family-of-six-without-

Hydro One, the province's largest utility

distributor, disconnected nearly 10,000 homes from their electricity services in 2015. In total, customers owed the company more than \$105 million dollars in back-payments by the end of last year. Despite knowing how difficult it has been for families in Ontario struggling with rising energy costs, the company continues to disconnect residential custome even as winter approaches.

'Growing' profits at Hydro One

...On Nov. 11, Hydro One released its most recent third-quarter financial statements. The company, which was recently privatized by the Ontario Liberal government, reported profits of approximately \$835 million, or roughly \$750 for each of Hydro One's 1.1 million residential customers

Families simply can't afford to pay their Hydro (electric) bills. Mother and father and four children haven't had electricity for six months. They fear and distrust HYDRO ONE. Their bill has often hit more than \$900 a month, close to \$400 of which was deliver costs, money spent before they even turned a light on.

The utility, HYDRO ONE, they say was unforgiving. ..Electric cost - \$474; Use - 4454 kwhr ..Delivery - \$369; Total cost - \$843

...Or 0.189 per kwhr

..Arrears debt - \$3.949

They are desperate. Once the arrears debt reached \$10,000, Hydro One sent a letter to explain. HydroOne would remove the wires from their house. To reconnect would cost them thousands.

Her husband uses a hose to fill plastic-lined garbage cans with water so he and his family can bathe. "My husband, every day, brings water home for us," Carol said, unable to hold back her tears." We drink bottled water. We cook on the BBQ. We boil water so the kids can have showers from shower bags." The couple, who live about an hour east of Toronto, were disconnected as a result of their owing over \$10,000 in late payments.

They say that while their usage has not changed since they moved to the rural community 20 years earlier, their bills have increased 20-fold. It has just gone up and up and up," Carol said, referring to her monthly electricity bill. "Try explaining to your children why you can't get water from tap. Try explaining to your children why mommy is out in a blizzard trying to cook dinner on the BBQ.

Carol said. "I usually wait until the kids are asleep, then I cry. I try to be as positive but I can't".