

Avista Corp.'s Acquisition by Hydro One Ltd.

(Ontario, Canada)

Announced July 2017

What Advantages?

No Advantages for Customers

What's Not Revealed?

What's in the Future for Avista Customers?

Are Avista Customers' Well-served, Protected?

Why HydroOne? For What Reason?

NW Property Owners Association, Coeur d'Alene

By David Boleneus, geologist, business owner, wheat grower

Citizens Alliance for Property Rights member

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OUTLINE

- Avista announced Hydro One's sale terms – July 2017
- KEY DISCUSSIONS:
 - WHAT'S NOT IN NEWS RELEASES
 - FEAR OF CARBON DIOXIDE (CO2) CONTROLS
 - ONTARIO GOV'T. WILL CONTROL HYDRO ONE & AVISTA
 - GREEN ENERGY is too expensive
- Electricity Costs
 - Washington and Avista
 - Hydro One & Ontario
- History of providing electricity in Ontario
 - Maurice Strong legacy with Ontario Hydro
 - Strong was the CEO of Ontario Hydro in the 1990s, the predecessor of Hydro One
 - "Fear of CO2 Hoax" promoted
- Benefits of Carbon Dioxide (CO2)
 - Definitive Proof
 - Climate not controlled by CO2
- Ontario's Green Energy Act (2009) & Climate Change Action Plan (2016-2022)
 - Canada's Climate Plan (stress carbon-free renewable power)
 - *Read between the lines: "Key driver of Avista acquisition"*
 - Extraordinary expansion of wind turbine farms to reduce CO2 emissions
- Renewable energy (wind turbines)
 - Engrained in Ontario's, Hydro One's liberalism
 - Canada, UK, Australia, Europe (examples)
 - Washington-Oregon (BPA) (example)
 - Reliability, Cost (unreliable, unaffordable)
 - Address renewable (wind turbines) because:
 - Convinced of the danger of climate and CO2
 - Taking extreme actions against CO2
 - Unwise decisions causing extreme hardships
- Battling Climate (ending carbon, because climate damage, cap and trade, switch to renewables)
 - Green Energy Act, 2009 (ROUND 1)
 - Climate Change Action Plan (2016) (ROUND 2)
 - Taxing CO2
 - Canadian policy Canada-wide
- Impacts on Avista
 - Concluding Remarks

What is Hydro One?

- Canada's largest electric supplier (in 2016)
 - ❑ **2-year old company public utility**
 - ❑ IPO on Oct. 31, 2015
 - ❑ Serves 75% of Ontario's electricity, home to 38% of Canada's population
 - ❑ Assets \$25 B
 - ❑ Revenues \$6.5 B
 - ❑ 1.3 million customers (54% residential)
 - ❑ 7,500 employees
 - ❑ **Province of Ontario a "majority" 70% shareholder**
 - ❑ 137 million MW hrs. transmitted
 - ❑ S&P credit rating – A
 - ❑ Debt \$20.2 B
 - ❑ Primarily a "transmission" company



Mayo Schmidt
Pres. and CEO
Hydro One Ltd.

Source: Hydro One Ltd. Annual Report

- Terms of transaction:
 - ❑ Pay US\$53 per share or \$6.7 B in cash
 - ❑ Issue C\$1.4 B in conv. debentures
 - ❑ Issue C\$1.4 B common stock
 - ❑ Issue US\$2.6 B secured corp. debt
 - ❑ Hydro One Ltd and Avista customers rates **will not be impacted by costs of the transaction**
 - ❑ Avista preserves identity
 - ❑ No workforce reductions
 - ❑ Creates US\$ 25.4 B in combined assets (C\$32.2 B)



July 19, 2017 16:27 ET

Hydro One to Acquire Avista to Create Growing North American Utility Leader with C\$31.2 Billion in Enterprise Value

Hydro One and Avista combined create a top 20 North American utility focused on regulated transmission as well as electricity and natural gas local distribution

TORONTO, ONTARIO and SPOKANE, WASHINGTON--(Marketwired - July 19, 2017) -

Highlights:

- Establishes one of North America's largest regulated utilities with over C\$32.2 billion (US\$25.4 billion) in assets and a leader in electricity transmission and distribution as well as natural gas local distribution businesses
- Expands into complementary and diversified regulated assets, inclusive of natural gas local distribution
- The transaction will be accretive to earnings per share in the mid-single digits in the first full year of operation
- Provides Hydro One with a significant and stable increase to earnings and cash flow underpinned by fully regulated utility operations jurisdictions with constructive regulatory mechanisms
- A long-term intention of continuing Hydro One's dividend payout of 70-80 per cent of earnings
- Avista shareholders receive US\$53 in cash per common share, a 24% premium as of market close on July 18, 2017
- Both Hydro One and Avista to maintain healthy balance sheets as well as strong investment-grade credit ratings
- Hydro One's acquisition financing strategy involves the issuance of C\$1.4 billion of Hydro One common equity and US\$2.6 billion of Hydro One debt

History, Electric Firms in Ontario

- ❑ **Hydro-Electric Power Commission of Ontario**
 - ❑ For much of the 20th century, most of the province's electricity generation and transmission were overseen by a single government agency
- ❑ **1970s rebranding as Ontario Hydro**
- ❑ **1990s – Maurice Strong, as CEO**
 - ❑ Began talk of re-organizing Ontario Hydro
- ❑ Progressive Conservative Mike Harris gov't.
 - ❑ In 1999, the dismantled into **Ontario Power Generation, Hydro One**, guided by Ontario Energy Board to privatize most of the system.
- ❑ Its overseen by the **Ontario Ministry of Energy**
 - ❑ The Tories eventually abandoned their privatization plan, but the new structure remained.
 - ❑ Today regulated by **Ontario Energy Board**
- ❑ **Transmission** is primarily handled by Hydro One, a government company that is in the process of being privatized.
- ❑ In 2015, **Ontario's Premier Ms. Wynne unveiled a plan to sell 60 per cent of Hydro One** in a bid to raise \$4-billion to fund her transit plans and \$5-billion to pay down debt.
- ❑ So far, **the government has sold 30 per cent** of the company on the stock market.
- ❑ **Ontario's GREEN ENERGY ACT, 2009** initiated greatest impact ever seen on electricity generation and deliver
 - ❑ As we will see, this Act is the most unwise decision ever
 - ❑ The Act, is a Maurice Strong legacy codified
 - ❑ A "Trojan Horse"

Avista Corp. (Annual Report, 2016)

Washington Water Power (1889)

Avista Corp. (2016)

- ❑ 1,980 employees
- ❑ Revenues – \$1.4 B
- ❑ Assets - \$5.3 B
- ❑ Debt - \$1.6 B

• Avista Utilities - Electricity Generation

- ❑ Coal (10%), Wind (5%), Biomass (2%), Hydro (49%), Nat. gas (35%)
- ❑ 374,000 customers (WA, OR, ID, MT)
- ❑ 823 MW cap.; 5 million MWhrs hydro-electric (8 dams)
- ❑ 4.9 million MWhrs coal, biomass, nat. gas electric gen. (8 plants)
- ❑ 105 MW Palouse Wind turbines (38 % efficiency); can purchase in 2022 after PTC ends

• Alaska Light and Electric Co. (acquired 2014) – Electricity Generation

- ❑ 190 MW hydro capacity (5 dams)
- ❑ 108 MW diesel-elect. capacity (four units)
- ❑ 415,000 MWhrs (2016)
- ❑ Revenues - \$46 M

Source: AvistaCorp.

Avista Corp. - Climate Change compliance issues:

- Federal “Clean Power Plan”
 - ❑ Federal rules promulgated Aug 3, 2015 to reduce GHG emissions by 32% below 2005 level by 2030
 - ❑ U.S. Supreme Court Stay - Feb. 9, 2016
- State of Washington regulations
 - ❑ Prevents use of energy source if GHG’s >970 lbs. per MWh
 - ❑ Utility’s qualified renewable energy (Initiative 937-Energy Independence Act) must be 9% by 2016 and 15% by 2020
 - ❑ Must reduce GHG emissions by 1.7% per year until 2035 (Ecology’s Sept. 2016 Clean Air Rule [CAR]) by methods of cap & trade, carbon offsets, or add renewable energy credits
 - ❑ Avista and other Washington utilities challenged the Clean Air Rule as invalid and arbitrary and that it violates the U.S. Commerce Clause in U.S. District Court
 - ❑ No tax on carbon as yet (I-937); failed in Nov. 2016 general election ballot
- Sierra Club legal action consent decree:
 - ❑ Forces closing of Colstrip 1&2 coal power plants by 2022
- Portland General Electric & PacifiCorp
 - ❑ Must remove Colstrip units 1&2 and 3&4 from electric supplies impacts Avista, which is a partner

Why Hydro One Covets Avista

13 hydro-electric dams (931 MW) and 58 wind turbines [108 MW capacity produce only 37MW] (34% efficient renewable*) and 839 MW thermal (gas, wood, coal)

Avista Utilities – 8 hydro-electric dams
(1,029 MW capacity):

Avista Utilities Projects (1 of 2)

Hydropower, Fish & Wildlife, Water Quality, Recreation on Clark Fork River, 751 Megawatts to Serve 253,087 households

Noxon Rapids

Located on the Clark Fork River in northwestern Montana, Noxon Rapids was completed in 1959. Noxon Reservoir and the surrounding lands provide many recreational opportunities, and the reservoir is one of the top bass fisheries in the state of Montana. A \$45 million upgrade of all four turbines was recently completed, and allows us to generate more power with the same amount of water.

Constructed: 1959
Licensed Generating Capacity: 488 MW
Dam Height: 260 feet
Generating Units: 5



Cabinet Gorge

Cabinet Gorge dam and powerhouse are located on the Clark Fork River in northern Idaho, although much of the reservoir lies in Montana. To construct the concrete arch dam, 1,700 people worked around-the-clock in order to help solve the critical Northwest energy shortage of the late 1940s and early 1950s, completing it in just 21 months.

Constructed: 1952
Licensed Generating Capacity: 263 MW
Dam Height: 208 feet
Generating Units: 4



<https://www.avistautilities.com/environment/clarkfork/Pages/default.aspx>



Scott Morris
Chairman, CEO, and Pres. of Avista Corp.

Source: AvistaCorp.

Alaska Electric Light & Power Co. – 5 hydro-electric dams (107 MW capacity):

- Annex Creek (top)
- Salmon Creek (mid.)
- Snetisham (bottom)
- Not shown:
 - Lake Dorothy
 - Gold Creek



Salmon Creek Dam

Avista Utilities Projects (2 of 2)

Hydropower, Recreation, Fish & Wildlife, and Water Quality on Spokane River, 137 Megawatts to Serve 46,170 Households



Post Falls Dam



Monroe Street Dam



Upper Falls Dam

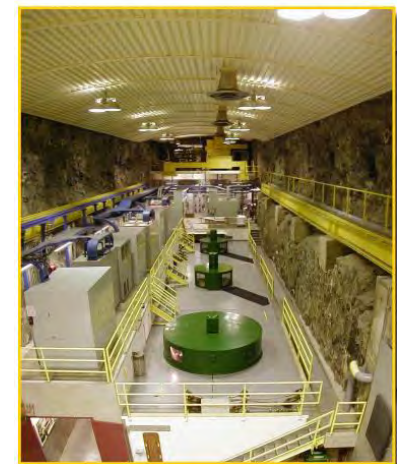


Nine Mile Dam

<https://www.avistautilities.com/environment/spokaneriver/dams/Pages/default.aspx#postfalls>

Missing Avista Facilities:

1. Long Lake Dam
2. Little Falls Dam



...Covets Avista: The Rest of the Story



New Ontario
Or ...?

ONTARIO'S FIVE YEAR
CLIMATE CHANGE
ACTION PLAN
2016 - 2020



Climate Change
Action Plan



History, Actors





WHY: There is a constant push to manipulate climate data and hype natural disasters as proof that fossil fuels and man are responsible. This is how it started.

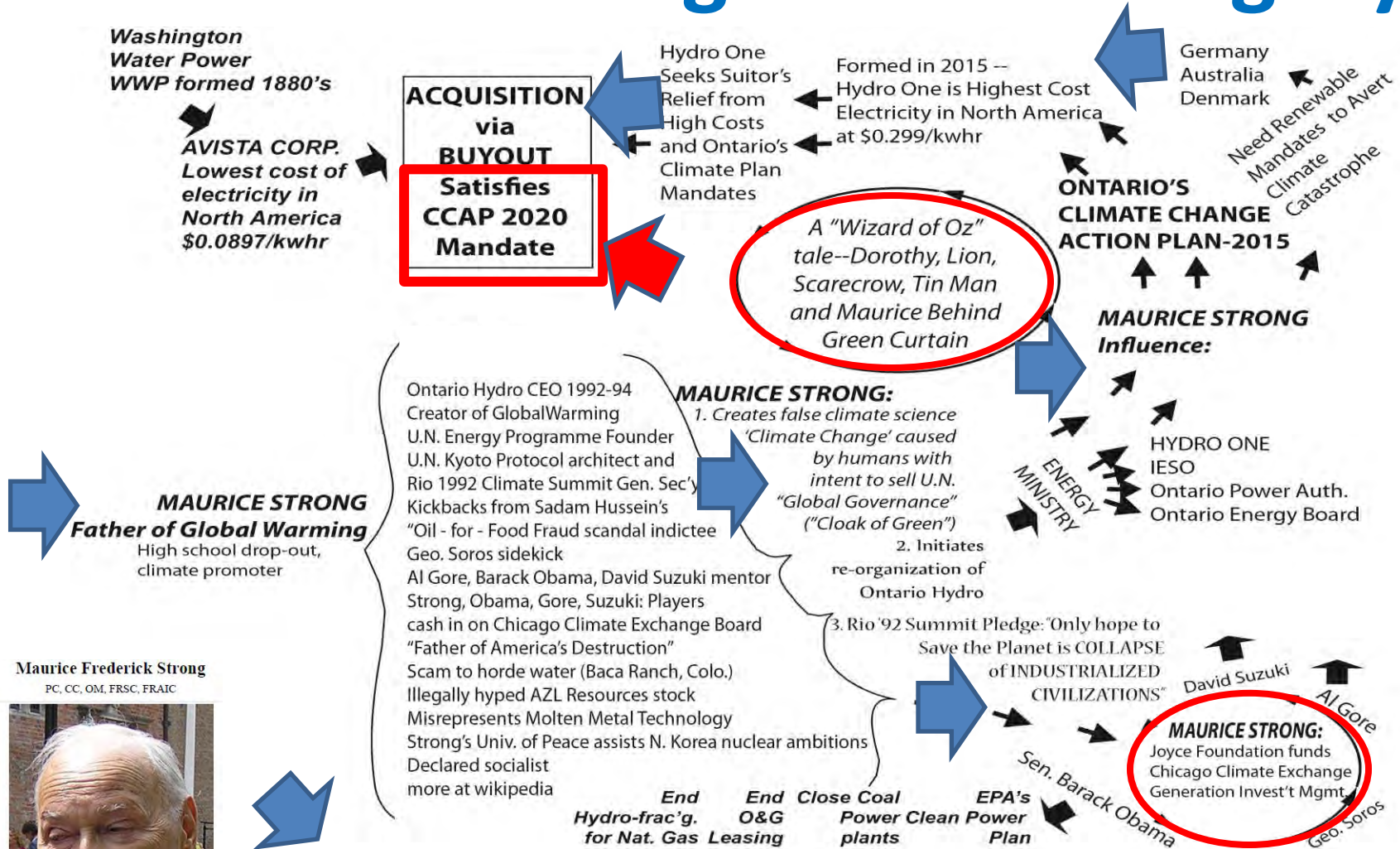
Maurice Strong

- Senior advisor to Kofi Annan, U.N. Secretary-General who chaired the gigantic (40,000 participants) “U.N. Conference on Environment and Development” in **Rio de Janeiro in 1992**, who was responsible for putting together the **Kyoto Protocol** with thousands of bureaucrats, diplomats, and politicians..
- **.. stated: “We may get to the point where the only way of saving the world will be for industrial civilization to collapse...isn't it our job to bring that about”**
-All these dangers are caused by human intervention...and thus the **“real enemy, then, is humanity itself...believe humanity requires a common motivation, namely a common adversary *in order to realize world government*. It does not matter if this common enemy is “a real one or...one invented for the purpose.”** (Quote by the Club of Rome)

Christiana Figueres

- Executive secretary of U.N.’s Framework Convention on Climate Change, **admitted that the goal of environmental activists is not to save the world from ecological calamity but to destroy capitalism.**
- **“This is the first time in the history of mankind that we are setting ourselves the task of intentionally, within a defined period of time, to change the economic development model that has been reigning for at least 150 years, since the Industrial Revolution,”** she said. <http://icecap.us/index.php>
<http://news.investors.com/ibd-editorials/021015-738779-climate-change-scare-tool-to-destroy-capitalism.htm>

Maurice Strong's Climate Legacy



Maurice Frederick Strong
PC, CC, OM, FRSC, FRAIC



The all-round corruptocrat who launched and shaped the UN effort to rid the world of CO2 has died, appropriately enough as his heirs gather in Paris to rob the world blind. <https://quadrant.org.au/opinion/doomed-planet/2015/12/discovering-maurice-strong/>

Maurice Strong is dead but the damage he did will carry on **TIM BALL** REBEL COLUMNIST [HTTPS://WWW.THEREBEL.MEDIA/MAURICE_STRONG_IS_DEAD](https://www.therebel.media/maurice_strong_is_dead)

Maurice Strong the Father of Americas Destruction Richard Salbato 12-29-09 <http://www.unitypublishing.com/Government/Maurice%20Strong.htm>

"Like Dorothy, Lion, Tin Man and Scarecrow in *The Wizard of Oz*, we've all been dancing down the Yellow Brick Road of "settled science" in search of answers from the Emerald City, only to find that what we suspected all along – the Wizard has been telling us fibs."

Apollos Fire Chapter 1: (Inslee's claims about climate change.....ARE ALL WRONG....PROPAGANDA

1. Seas are rising
2. Drowning coral reefs
3. Killing coral reefs
4. Ocean temps rising
5. Oceans becoming acid
6. GW causes more frequent and more powerful storms
7. CO2 absorbs radiation that would otherwise be dissipated to space and radiates back to earth (GH effect)
8. GH effect are as well accepted a law of gravity
9. Humans have increased the concentration of GH gases to a level not seen in the last 20 million years
10. CO2 remains in the atmosphere - Emissions now will be a part of our atmosphere for 200 years
11. The rate of increase in CO2 is 2-2.5 ppm per year
12. Mean temps have risen 1.4 deg F and sea temps have risen 1.8 deg
13. We can expect further increases of 7.2 deg this century
14. Temps mean increase in durations of storms becoming more severe
15. Sea levels have risen 6 inches
16. Arctic ice has decreased 15%
17. Declining soil moisture means less crops. Productivity and more droughts, pests, and forest fires
18. 928 peer reviewed articles in science journals did not question the conclusions
19. Ice caps in Greenland are melting faster, the African is melting; when the ice sheet goes the whole world will change
20. Extreme weather events are increasing in frequency
21. CO2 from the atmosphere is entering the water and making it more acid
22. We are in a century of the third worst drought so far
23. A clean energy economy represents jobs for the future
24. Over 10 years \$180 billion was invested in a clean energy economy
25. Renewable energy generates four times the number of jobs per megawatt as natural gas does;
26. Renewable jobs generate 40% more jobs per dollar than fired power plants
27. Mitigation of climate change will mean investment to avoid consequences of the future;
28. 1% of GDP spent now will avoid 5 to 20% of the losses due to global warming
29. The wind energy industry is the first mainstream commercial success in renewable energy

ALL WRONG
PROPAGANDA
CLIMATE

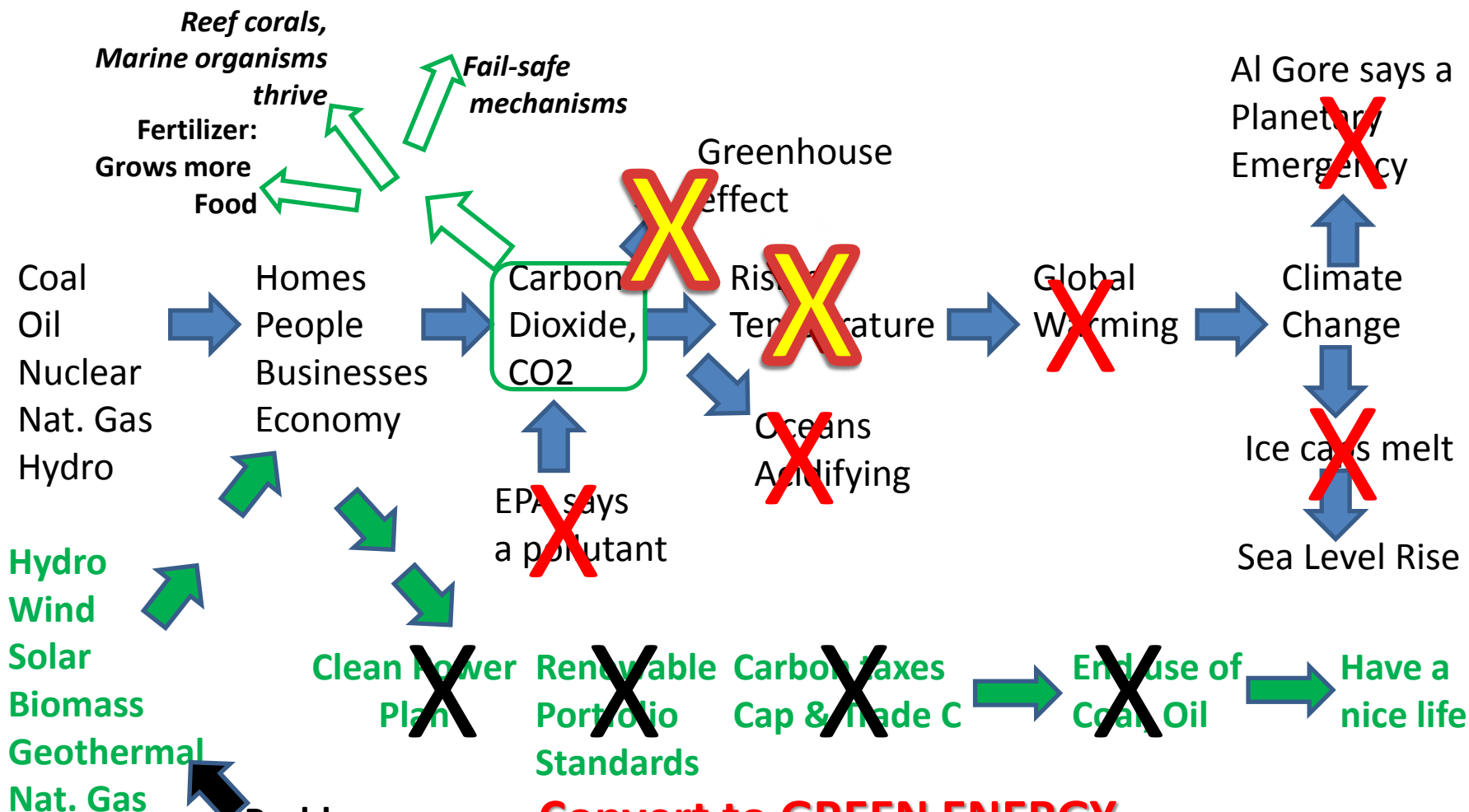
WHAT THEY HAVEN'T TOLD YOU– 1 to 52.

→ Evidence Supports Natural Causes of Climate Change (in black)

→ Evidence for Human-causes of Climate Change/global warming (in red)

1. Gore pockets \$16 billions for your climate guilt
2. Gov. Inslee (climate expert) doesn't know what it is
3. Inslee's EO 14-04 a "suicide pact" for Washington
4. **HL Mencken: "Urge to save humanity is almost always a false front for urge to rule"**
5. **If you tell a lie big enough and keep repeating people will eventually come to believe it**
6. Climate reasons are propaganda
7. **Earth's climate has been changing for 4,600,000,000 years**
8. **Temperature was 22°F warmer 52 million years ago**
9. **Earth has cooled 6°F since Egyptian times**
10. **Carbon dioxide cannot, does not control temperature**
11. **There's no such thing as a greenhouse gas**
12. **NASA-GISS has been manipulating temperature records – Greatest fraud of all times**
13. **90% of US Hist. Climate Network Stations unreliable**
14. **Model temperatures predict warming, but Real temperatures (balloon, satellite) are not following "model" temperatures**
15. **Fire risk has been falling for 200 years**
16. **Drought risk is down**
17. **Hurricane, tornado frequencies are falling**
18. **Highest recent temperatures in US are in 1930-1940s**
19. **Ice coring confirms carbon dioxide follows temperature change**
20. **Polar sea ice globally, is increasing; the ice caps are not melting**
21. **Oceans are not becoming acid**
22. **Coral reefs defeat ocean acidification**
23. **Carbon dioxide (CO₂) is entirely a benefit**
24. **CO₂ will not destroy agricultural crops**
25. **CO₂ will add \$9.8 trillion to crop incomes from 2012- 2050**
26. **CO₂ increases efficient use of water resources**
27. **More CO₂ helps Washington farms grow more food**
28. **Prof. Feynman: The scientific method easily disproves global warming: There is no greenhouse effect**
29. **CO₂ is a coolant**
30. **CO₂ is absorbed as rapidly as it becomes available**
1. **Prof. Lindzen: The negative feedback is confirmed; there is no greenhouse effect**
2. **Sea levels are both rising and falling; Alaska's sea level is falling rapidly and Washington's is falling slowly**
3. **Sea levels have fallen 2+ meters in 5,000 years (Australia)**
4. **The sun drives climate**
5. **Sixth mass extinction is not underway**
6. EPA's theory of global warming collapses: a. there is not a "hot spot" in the upper atmosphere, and b. CO₂ does not control temperature
7. After the sun, Water vapor is the main climate modifier
8. **Water vapor is 1,667 times more powerful as a modifier than CO₂**
9. **97%-98% of CO₂ comes from natural sources**
10. **Today, CO₂ is near a deficit level**
11. **Washington's average electricity is 9.5 cents compared to Germany's as 38 Euro cents per kwhr**
12. "Going Green" and building wind turbines for electricity cannot satisfy world demand
13. Renewables requirement of land area is unrealistic and a barrier to its expanding
14. **Coal, Natural gas, Hydro, and Nuclear are key sources of electrical power generation**
15. Buffett: "Wind turbines don't make sense with a tax credit"
16. Following the EPA Clean Power Plant/Paris Agreement to meet CO₂ goals would reduce GDP to that of today's Haiti and increase electricity prices by at least 40%
17. For Washington to follow the Paris Climate Plan would damage the state immensely and not reduce the temperature
18. Washington's electricity horror: Relying on wind turbines to replace hydro power
19. Wind turbines have several fatal flaws
20. Costs of renewables are unacceptable
21. Renewables experience in Europe and Australia prove them unreliable
22. Inslee's Carbon Tax would cost a 3-car family \$1987 per year¹²

Carbon Dioxide: A Logic Disconnect; "Myth-busting"



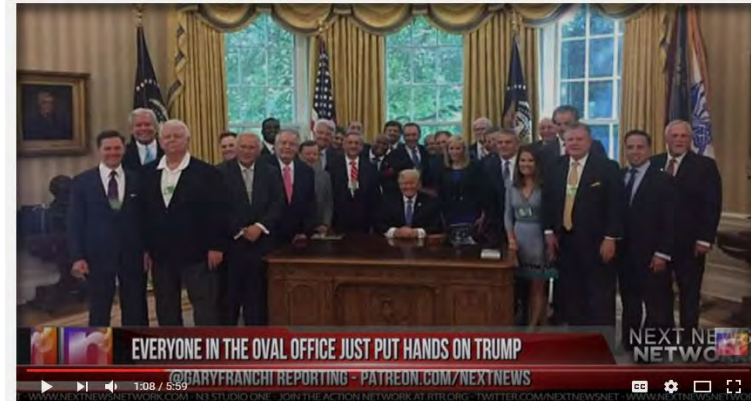
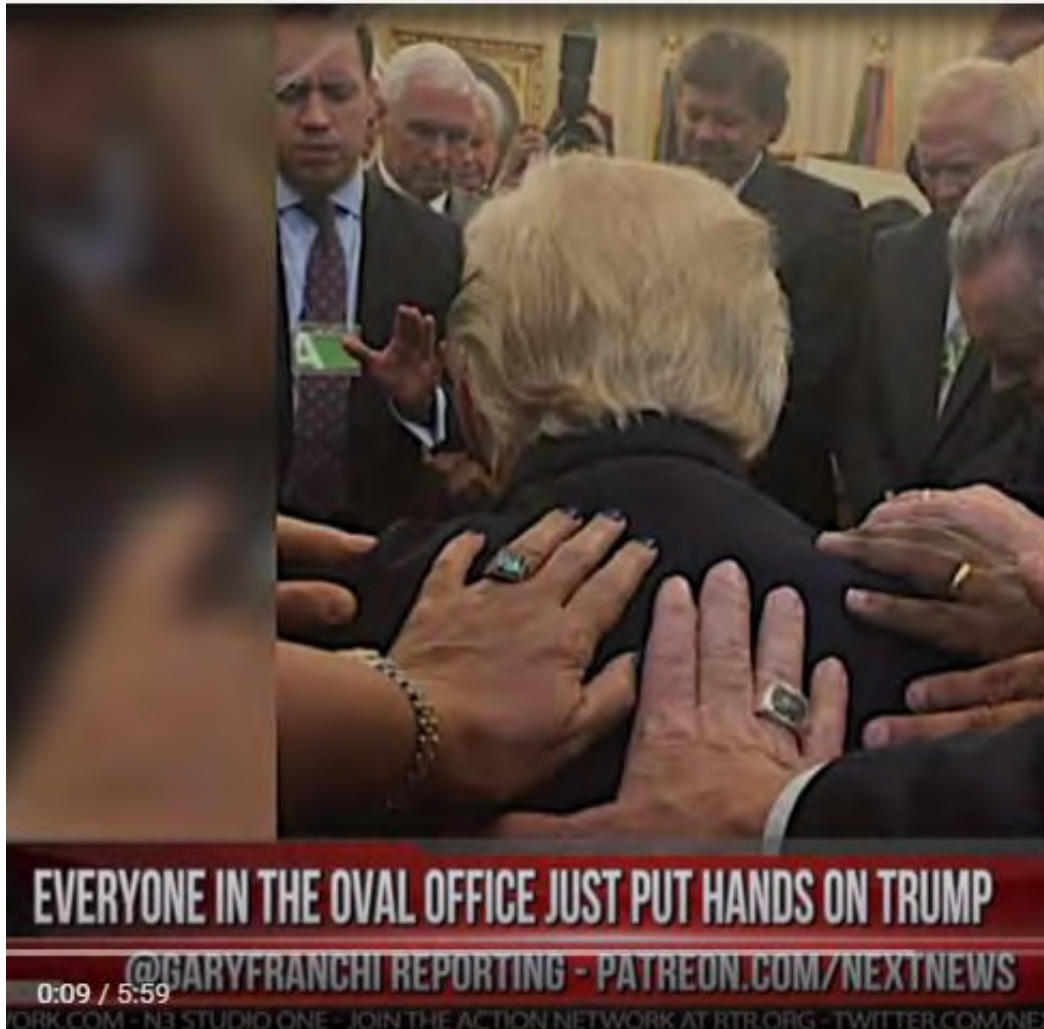
Problems:

- \$176 B subsidies already paid
- Renewables-only local success; abandoned when PTC expires after 10 years
- No fuel options for: Transportation, farm operations

Convert to GREEN ENERGY

POWER PRAYER! EVERYONE IN THE OVAL OFFICE JUST PUT THEIR HANDS ON TRUMP, SUDDENLY A MIRACLE HAPPENED

<https://www.youtube.com/watch?v=fQdlcWd45k4>

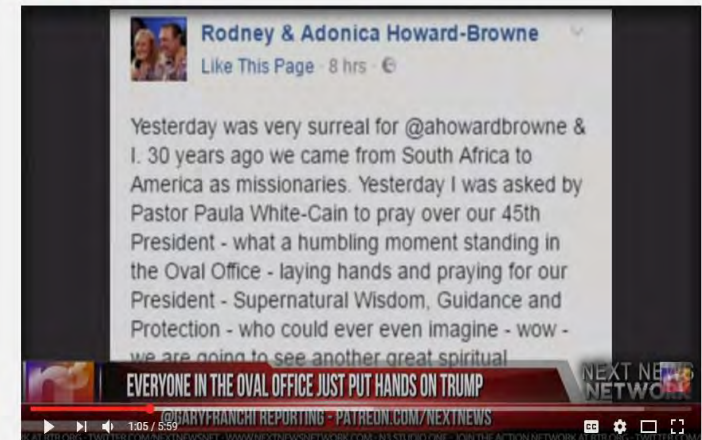


POWER PRAYER! EVERYONE IN THE OVAL OFFICE JUST PUT THEIR HANDS ON TRUMP, SUDDENLY A MIRACLE HAPPENED

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Who Else is Exiting the Paris Agreement?

and Who actually paid into the Paris Green Climate fund?



June 1, 2017

- **U.S. exits Paris Agreement** <https://wattsupwiththat.com/2017/06/03/one-graphic-ays-it-all-who-actually-paid-in-to-the-paris-green-climate-fund/>
- **Russia, China** – “Just along for the ride”. Dictated their own non-participating terms for the Paris Agreement, quite unlike that of the US, although a part of Paris Agreement

May 30, 2017

- **Poland, Czech Republic, Slovakia, Hungary, Ukraine** the Visegrad countries
- **Romania, Latvia, Lithuania** <https://wattsupwiththat.com/2017/05/30/east-european-states-mount-revolt-against-paris-agreement/>
- **Bulgaria** -- Bulgaria’s new Environment and Water Minister, Neno Dimov, appeared in a video in 2015 describing global warming as a fraud (May 30, 2017) *30/05/17The Sofia Globe*
<http://www.thegwpc.com/bulgarias-new-environment-minister-casts-doubt-on-global-warming/>

June 12, 2017

- **Canada’s** Trudeau—Switched from objection to US withdrawal to appeasement
- **UK and Japan** -- No longer part of the Paris Agreement
- **Japan’s** Shinzo Abe couldn’t put his country’s alliance with the US at risk and due to tensions with North Korea <https://wattsupwiththat.com/2017/06/12/standing-up-to-the-g-7-climate-bully/>

July 13, 2017

- **Turkey** -- President Recep Tayyip Erdoğan: Turkey will not be ratifying the Paris climate accord, citing President Donald Trump’s decision to abandon the deal.
- **Australia** is number 16 http://www.americanthinker.com/blog/2017/07/the_avalanche_begins_turkey_dumps_paris_accord_following_us.html
- **Oil-rich Arab and Gulf states** **Germany is at risk of tacitly joining Donald Trump** in turning its back on the Paris climate change deal.

18 July 2017: Germany

Two of the country’s regional governments have decided to put preserving jobs in coal mines and power plants ahead of cutting carbon emissions. <https://www.breakingviews.com/considered-view/german-climate-change-policy-takes-trumpian-turn/>

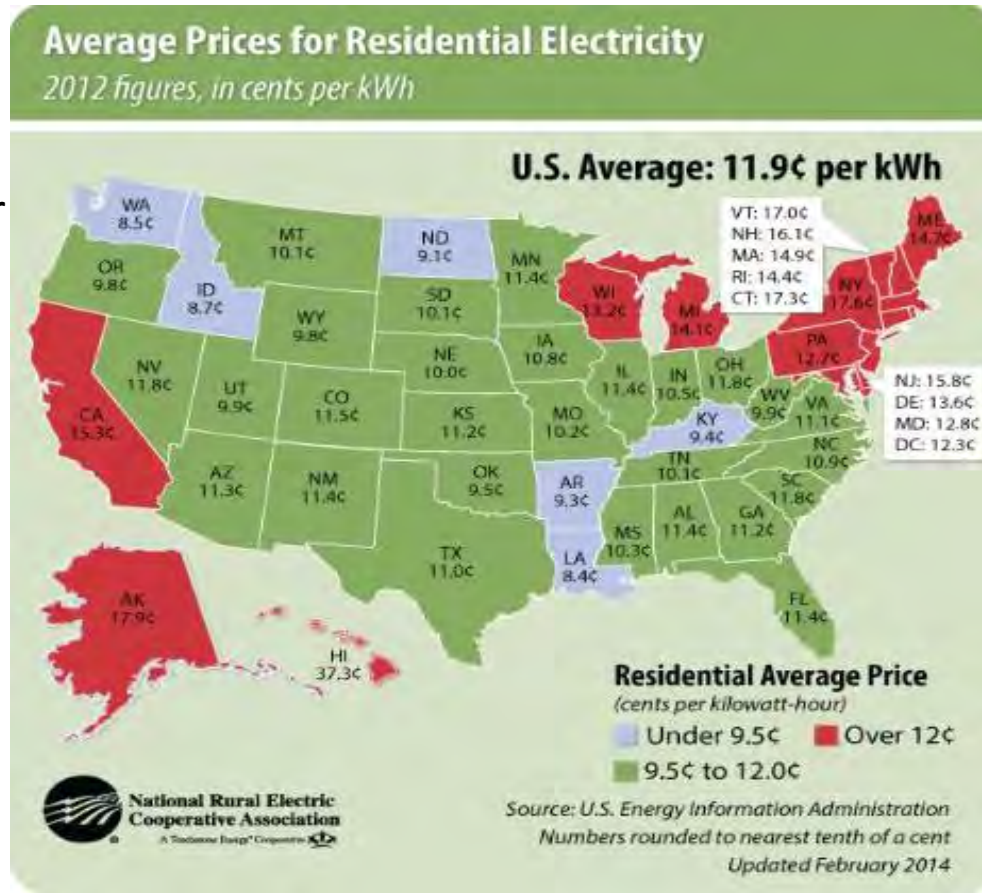
Electricity: What's the Cost Experience?



Choices of Electrical Power

- This chart shows the power costs by state in 2014. Washington is lowest (blue states).

Avista rate
\$0.0789/kwhr
(2017)

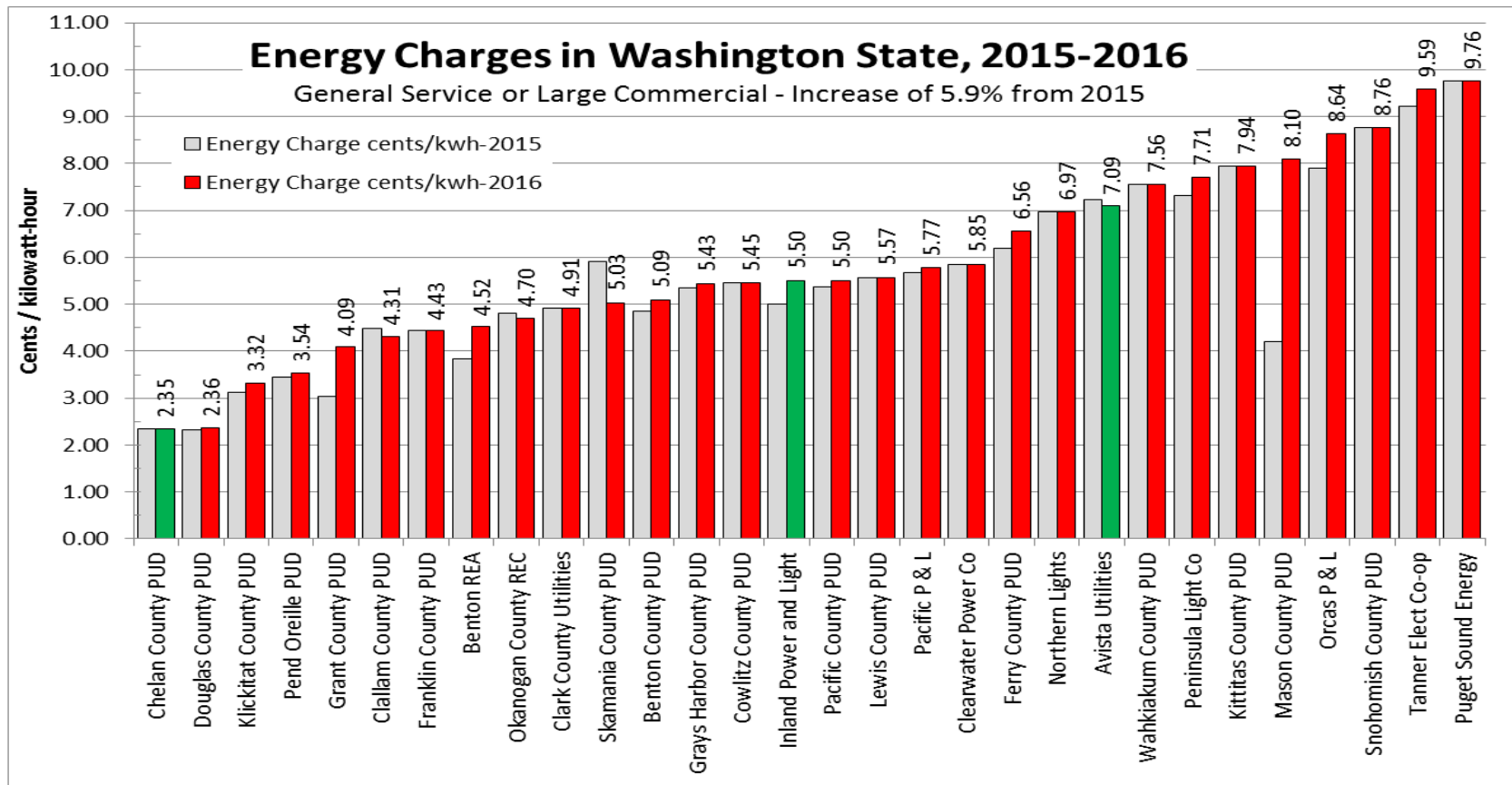


- The cost to generate electricity by fuel: <https://edmhdtme.wordpress.com/european-renewable-energy-costs-and-performance-2014/>

- Nuclear – 4.8 cents per kwhr
- Natural gas – 5 cents per kwhr

General service /large commercial power costs

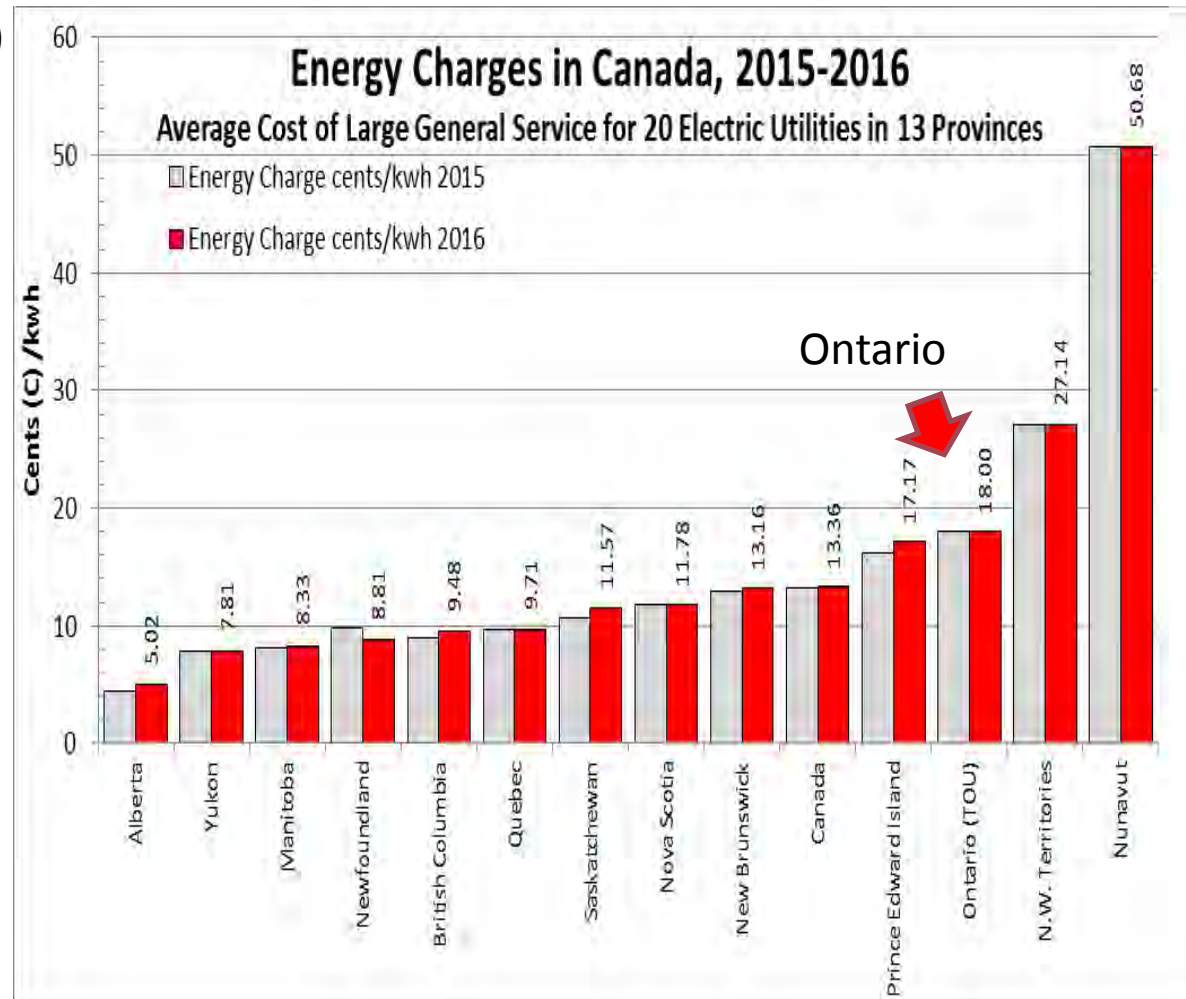
Data collected by author in 01- 2017



Energy Charges in Canada for Large General Service (up to large business)

- Electric charges only (at right)
- **In addition to electric charge:**
Add 15-25% of billing:
 - Other costs per kwhr: transmission, distribution, regulatory, debt retirement, sales tax, smart meter, rate rider, & remote area costs, and rebate (if any)
 - Demand charge (\$/kwhr)
 - Monthly fixed costs

- **In Addition:**
Global Adjustment charge (70% of billing)
 - Difference between market value of electricity and what's promised in generous contracts to generators
 - Shutdown of coal plants, adding renewables
 - Building of renewables



Sources: 1. Hydro One website; 2. Survey of average electric rates from utilities across Canada (D. Boleneus, 01-2017)

3. [Top 10 takeaways from auditor general's report on Ontario's electricity sector](https://ep.probeinternational.org/2015/12/04/top-10-takeaways-from-auditor-generals-report-on-ontarios-electricity-sector/) December 4, 2015 by [consumerpolicyinstitute](http://consumerpolicyinstitute.org)

<https://ep.probeinternational.org/2015/12/04/top-10-takeaways-from-auditor-generals-report-on-ontarios-electricity-sector/>

Ontario Electric Bills Increase, 2005-2016

Electricity increases

(Ontario-wide):

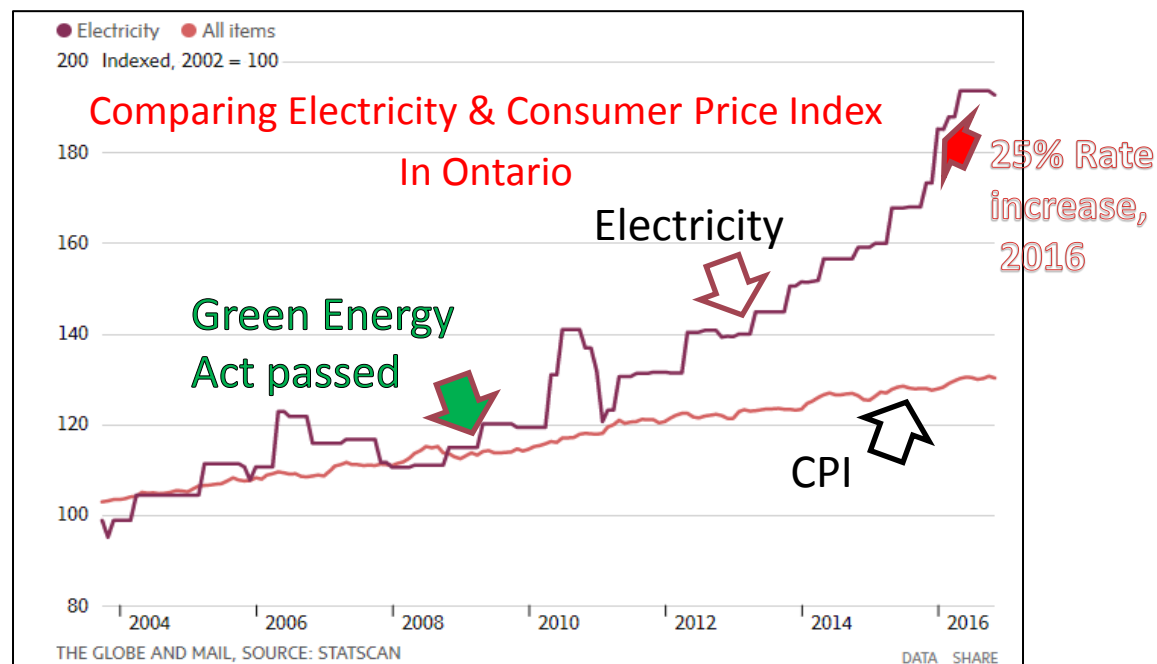
- **149%--Off-peak** electric rate increase in 10 years
3.5 cents to 8.7 cents/kwhr (Ontario Energy Board)
- **71%--On-peak** electric rates increased in 10 years
- **107 %--Average** increase in 9 years
- **25%--One year** rate increase in 2016
- **17.8%--Consumer Price** index increase over 10 years (StatCan)

Power rate increases (U.S.)

- **1%--U.S.** electric rate increases on average per year

Table 1: Ontario electricity price increases

		Cents per kilowatt hour 2006	Cents per kilowatt hour 2015	% change
Toronto Hydro		11.75	20.26	72.4%
Hydro Ottawa		11.17	19.11	71.1%
Hydro One R1	Med. Density	13.20	22.52	70.6%
Hydro One R2	Low Density	17.91	29.90	66.9%
Hydro One UR	Urban	12.02	19.99	66.3%



Source: StatisticsCanada – www.statcan.ca

Source: Why does Ontario's electricity cost so much? A reality check

<https://beta.theglobeandmail.com/news/national/why-does-electricity-cost-so-much-in-ontario/article33453270/?ref=http://www.theglobeandmail.com&>

Source: Getting zapped: Ontario's residential hydro prices increasing faster than anywhere in North America:

Brady Yauch, economist, Energy Probe, Consumer Policy Institute, <http://cpiprobeinternational.org>

Electricity Experiences

ENERGY POVERTY COMES TO ONTARIO

When?? to Avista Territory

COSTS

- Hydro One's electric costs rocketed to North America's highest cost electricity in 2015 at 29.9/kwhr.
- Rates increased 25% more in 2016
- *Hydro One* promised to add \$285 more to billings by January 2019
- **Hydro One billings are 12 times larger than Avista's 2016 business rate of 7.1 cents /kwhr and....35 times larger than Chelan and Douglas County PUDs 2.36 cents/kwhr**

SERVICE

- *HydroOne's* service is poor. It charges ratepayers more for deteriorating service yet ignored 10,000 complaints about high costs.
- *HydroOne* outages are 30% longer, 24% more frequent.
- Their transmission system is in considerable disrepair, the least reliable of Canada's distribution companies.

PEOPLE

- Ontario's seniors cannot afford *HydroOne's* electricity.
- One in 20 businesses closed, including grocers.
- **Ruralites now rely on backyard generators and families must weigh paying electric bills against feeding children.**
- 58,000 households were cut off that couldn't pay bills.
- **Just before Christmas families had to decide whether to eat or heat.**
- **Disconnects grew 19% to 392,963, with arrears debt growing 40% in one year to \$134,886,000.**

Ontario's Wind Power Obsession Punishing Thousands-390,000 Families Struggling to Pay Power Bills and 58,000 Disconnected <https://stopthesethings.com/2018/01/17/ontarios-wind-power-obsession-punishing-thousands-390000-families-struggling-to-pay-power-bills-58000-disconnected/>

WHY HYDRO BILLS ARE SO HIGH IN ONTARIO--REVISED

By Mike Crawley, [CBC News](http://www.cbc.ca/news/canada/toronto/ontario-hydro-bills-1.3860314) Nov 22, 2016 10:22 AM ET

<http://www.cbc.ca/news/canada/toronto/ontario-hydro-bills-1.3860314>

<http://www.cbc.ca/radio/thecurrent/the-current-for-september-1-2016-1.3744010/people-have-to-choose-between-heating-and-eating-rising-hydro-costs-hit-ontarians-1.3744013>

Electricity Cost Experience in Rural Ontario

Outrage grows over rising electricity rates in rural Ontario

Hydro one cuts off power to customers who don't pay

<https://youtu.be/5IYT8MDsrp0>

hydro prices up 100 % in last decade

Many disconnect notices

\$800 electricity per month for this trailer



Hydro Rates in Ontario are killing small business.

MAYOR LYNN WATSON (Echo Bay, ON.):

- Hydro rates are killing small businesses
- Seniors are on fixed incomes and can't afford power bills
- The grocery will close due to high electricity cost

<https://www.youtube.com/watch?v=1w5dRlzyY7g>



- Hydro rates crippling small business, owner says
<http://www.torontosun.com/2015/04/23/hydro-rates-crippling-small-business-owner-says>

Google Search Results: Hydro rates in Ontario are killing small business

- About 566,000 results (0.59 seconds) Search Results
- [Hydro Rates in Ontario are killing small business. - YouTube](#)
- [▶ 0:41](#)
- <https://www.youtube.com/watch?v=1w5dRIzyY7g>
- Oct 15, 2016 - Uploaded by ShadesofNorth CanUsa
- Echo Bay, **Ontario**. Oct. 15, 2016. Dinelle's Country Market. 1/3 of it's original size, due to the high **cost** of ...
- [Hydro Rates in Ontario are killing small businesses. - YouTube](#)
- [▶ 3:10](#)
- https://www.youtube.com/watch?v=H8Dr4U_1mQs



Echo Bay Ontario, Oct. 2016 Dinelle's Country Market, now 1/3 of its original size closes its refrigerated foods due to high cost of electricity.

- [Hydro Rates in Ontario are killing small business.](#)
- [Ontario's job killer: Business sounds alarm over soaring electricity prices](#)
- [financialpost.com/.../ontarios-job-killer-business-sounds-alarm-over-soaring-electricity-p...](#)
- Jul 10, 2015 - ... are painfully clear: soaring **electricity prices** are **killing** business in **Ontario**. ... some of their **costs** onto households and **small businesses**.

Google Search Results: Ontarians stuck in Wynne's "green energy trap"

- About 334 results (0.43 seconds) Search Results
- [Ontarians stuck in Wynne's "green energy trap" - YouTube](#)
- [▶ 3:31](#)
- <https://www.youtube.com/watch?v=IO5VSN7vbB8>
- Feb 15, 2017 - Uploaded by Rebel Media
- Holly Nicholas reports, **Ontario's** highly unpopular Premier has indicated that rising hydro rates will be fixed ...
- [Ontarians stuck in Wynne's "green energy trap" : RebelMedia - Reddit](#)
- https://www.reddit.com/r/.../5u85bs/ontarians_stuck_in_wynnes_green_energy_trap/
- Feb 15, 2017 - 1 post



Hydro Rates in Ontario are killing small business.

14 views



ShadesofNorth CanUsa
Published on Oct 15, 2016

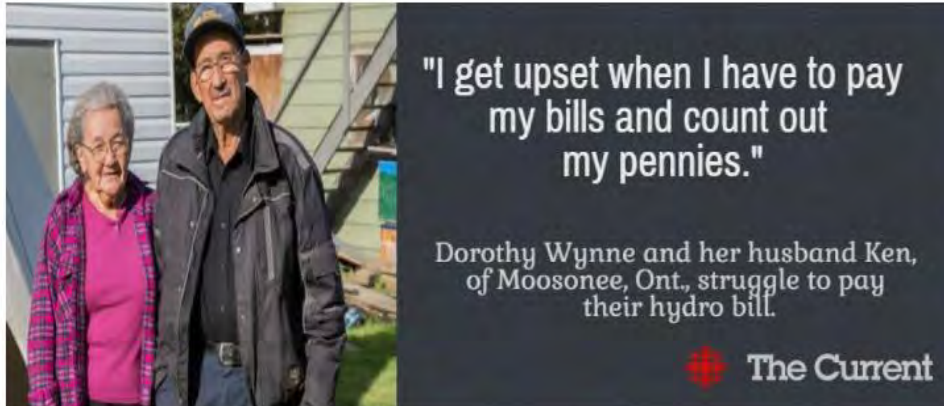
Echo Bay, Ontario. Oct. 15, 2016. Dinelle's Country Market. 1/3 of it's original size, due to the high cost of hydro rates. Dinelle's has closed the entire back section of the store, refrigeration and compressors.

SUBSCRIBE 54

Ontarians...choosing...heating or eating

Thursday September 01, 2016

'People have to choose between heating and eating':
Rising hydro costs hit Ontarians



Wynne says,

..”that paying the hydro bill is difficult”.

"We have to do without. Besides the high cost of living and all that, making ends meet is hard."

".. they have had to cut down on entertainment and groceries — reducing fruits and vegetables and therefore not eating as well as they use to."

"To conserve energy...they unplug everything they can and Use the BBQ for cooking.

[Francesca Dobbyn](#), United Way's executive director (in Bruce Grey, ON), says:

- “Wynne's story absolutely fits the definition of "energy poverty" and that people are making these massive lifestyle adjustments without results.”
- "People are angry, they're frustrated and they don't know what to do,". "They're being told it's their fault ... you left a light on."
- Dobbyn has encountered people who have had to walk away from their houses because "the **Hydro One** bill is bigger than the mortgage."
- She says the largest hydro bill the United Way has worked on was \$22,000.
- In 2015, **Hydro One** cut off electricity in 60,000 households in its catchment area. *Ontario Energy* Minister Glenn Thibeault hesitates to call this situation a crisis but Dobbyn begs to differ.
- "It's totally a crisis. If we had 30 people in our community with the measles it would be a health crisis. We had, you know, 3,000, people sick from E.coli in Walkerton all those years ago ... that was a crisis. We have 60,000 people disconnected from their hydro and *that's not a crisis?*"

WHY HYDRO BILLS ARE SO HIGH IN ONTARIO--REVISED

By Mike Crawley, [CBC News](#) Nov 22, 2016 10:22 AM ET

<http://www.cbc.ca/news/canada/toronto/ontario-hydro-bills-1.3860314>

<http://www.cbc.ca/radio/thecurrent/the-current-for-september-1-2016-1.3744010/people-have-to-choose-between-heating-and-eating-rising-hydro-costs-hit-ontarians-1.3744013>

Ontario's Electricity Price Explosion began with its...

Green Energy Act

Hydro One:

- Rate increases of average customer bills by **\$141 per yr. (Jan. 2018)** and **\$148 per yr. (Jan. 2019)**; rates increasing 18% to 25% per year (chart forecast below)
- **59,000 household disconnects** in 2015 because they couldn't pay; total reaches 392,000 by Jan. 2018
- **73% of the bill is delivery and fees**; only 27% is cost of energy used
- **>10,000 billing complaints ignored**
- Sued Premier over its sale
- *Smart meter rollout cost \$2billion, still not working, and most benefits still unrealized*

Electric Rates:

- **Auditor General: Ontarians over-paid for electricity by \$37billion**
- Residents have reached a **breaking point** with rising electricity costs
- Electric costs making **Ontario too expensive for businesses** and killing jobs: *Chrysler CEO*
- "Ontario's rates are increasing faster than anywhere else in North America" (Consumer Policy Institute)

Electric Rates (continued):

-causing '**serious harm**' to Ontario's economy: *Bank Montreal chief economist*--<https://youtu.be/3nb7juiSSnA>
- *Customer: My electric bills are \$880 per month and that's only heating kitchen, bathroom and one bedroom! I close off all other rooms in my home during winter months* (WWW.ONTARIOWINDRESISTANCE.ORG)



Watch TVO documentary "Big Wind" online

Recent price history



Block 2			
	Rate	Addition	% increase
	C\$/kwhr	C\$/kwhr	
2015	0.299		
2016	0.374	0.075	0.25
2017	0.441	0.067	0.18
2018	0.520	0.079	0.18
2019	0.614	0.094	0.18

Ontario's Ministry of Energy & Hydro One are “Unresponsive Monopolies”

(Consumer Policy Institute)

Ministry of Energy....

- **Ontario's power planning process is broken; MoE's plans are not reviewed as prudent**
- **MoE operates against planner's advice** by decree and directive,
- **MoE offers renewable generators well above market** feed-in tariff rates
- Feed-in tariffs **cost customers \$9.2 billion more than power** obtained by procurement
- Generators are getting **paid to not produce power**
- **Ont. Energy Board does not review contracts** for cost effectiveness
- **Implementing Cap and Trade** now
- Is re-doubling wind renewable expansions
 - Turbine spacing 1100 m; setback from residences 550 m
 - Prime locations for wind turbines exhausted

Hydro One...Ratepayers now pay well above market for electricity overpriced by Global Adjustment charges

- Tripling the cost of power bills
- Outages now last **30% longer** and are **24% more frequent**

Hydro One...

- **Charges ratepayers more money for systems that continue to decline in condition**
- Systems now are the **least reliable** in Canada
- **Is gaming the Ontario Energy Board to get more money** and claims its assets are in poor condition
- **Is inefficient** and has little incentive to become productive;
- **Its capital budgets are not benchmarked**
- **Cost overruns are built into budgets**
- **Is unresponsive to customer's complaints of...**
 - “Energy is unaffordable”
 - “End wind turbines”

Hydro One's conservation efforts are a waste of money (Fraser Institute)

- ✓ \$277 million – elect. veh. subsidies; end sales tax
- ✓ \$255 million – support walking, cycling
- ✓ \$900 million – energy efficiencies
- ✓ \$824 million – help homeowners reduce carbon footprint (**TOTAL \$2.25 billion**)
- ✓ \$500 /tonne of carbon to reduce GHG by 230,000 tonnes – to reduce emissions 0.0003%

Ontario's Corporate Welfare Goes *Green* - 1

- **Ratepayers are on the hook for province' rush to renewable energy after the 2006 Green Energy Act**
 - **82% of all subsidies are paid to foreign wind generators, with \$8 B paid to date and \$13 B in the next 20 years**
 - **Pays guaranteed feed-in tariff of \$135/MW-hr, despite demand**
 - **Guarantees renewable generators access to the grid**
 - **Results in a massive oversupply of power forcing Ontarians to pay (at a loss) to dump excess power to its neighbors**
- **Government ownership has diminished its power system to shambles.**
 - **The electricity companies (*Toronto Hydro, Hydro One*) are run by promise-them-anything governments whose political leaders are focused on getting re-elected.**
 - **Ontario needs to break up and privatize the power sector.**
- **Only a government would...**
 - **Voluntarily dismantle** one of the continent's finest fleets of coal plants,
 - **Pay producers as much as 20 times** the market rate just so it could boast about generating renewable energy,
 - **Gut provincial planning and environmental laws to push through a single-minded agenda** organized around the sole purpose of furthering its prospects for remaining in power. ([May 16, 2017](#) by [Lawrence Solomon](#))

Yauch, B., Corporate welfare goes green in Ontario: <http://cpi.probeinternational.org>

Electric generation costs for existing generating technologies:

<https://www.instituteforenergyresearch.org/topics/policy/electricity-generation-costs-for-existing-generating-technologies/>

[How to make Ontarios awful power system as dull and affordable as natural gas](#) [May 16, 2017](#) by [Lawrence Solomon](#)

<http://business.financialpost.com/opinion/lawrence-solomon-how-to-make-ontarios-awful-power-system-as-dull-and-affordable-as-natural-gas>

Ontario's Corporate Welfare Goes *Green* -2

- **Ontario's must re-think its Green Energy Act and rewrite** the ruinous contracts responsible for its power woes
 - **The province's likelihood of defaulting** over the next two decades is **43 per cent**.
 - **Ontarians paid \$37 billion above the market price for electricity** over the past eight years, and **face an additional \$133-billion overpayment** by 2032.
 - **Industry is fleeing the province** in what could become a death spiral
 - Soaring power bills are expected to **shut down one in 20 businesses** by 2020.
- Ontario has 2 options:
 - **Buy out the job-killing renewables contracts** or cancelling. But the borrowing costs involved—\$133-billion— would tank the provincial credit rating and jeopardize the economy.
 - **Can a province unilaterally rewrite a contract that it entered into? – Yes.** The province has done this numerous times

Wind is a multibillion dollar Scam. Its destroying lives.

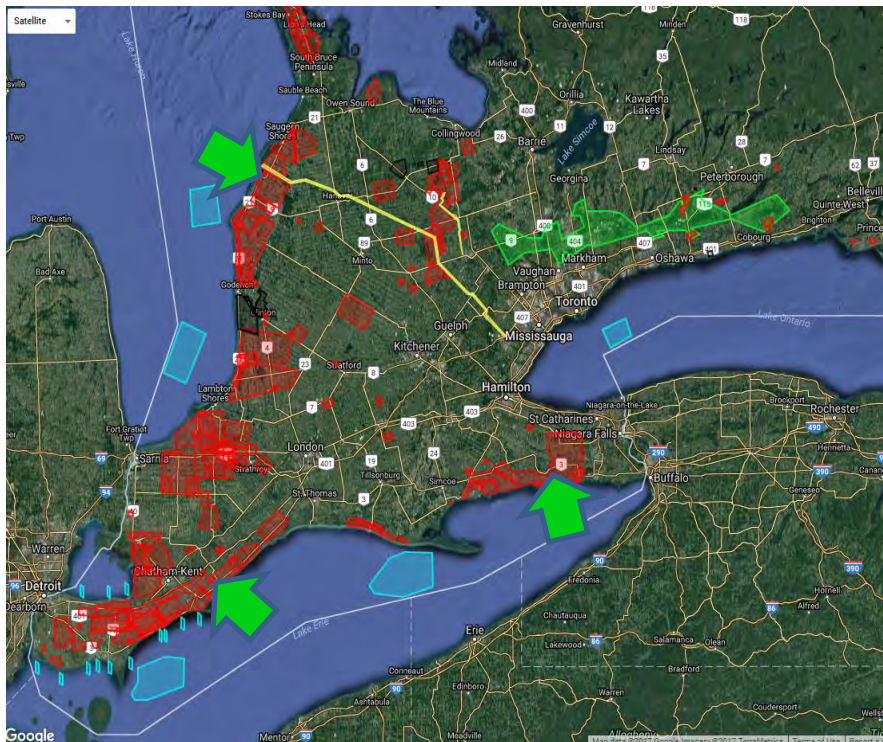
ONTARIO WIND RESISTANCE

<https://ontario-wind-resistance.org>



237 wind turbine projects in Ontario

Wayne Gulden, Ontario-wind-turbines.org

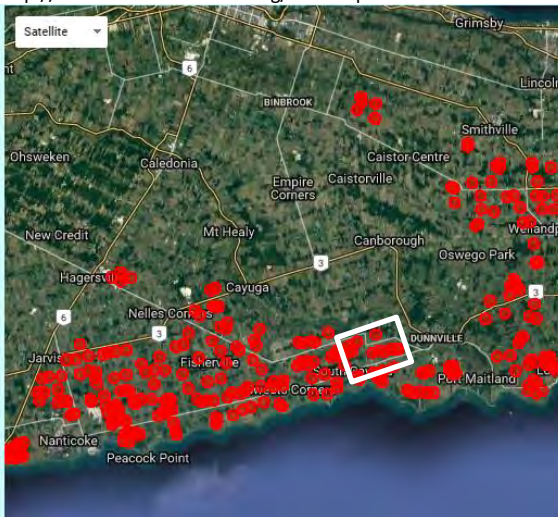


ONTARIO WIND RESISTANCE (articles)

- Health problems of persons near **wind turbines** suffer from blood pressures and pulse rate abnormalities (*physician: vasovagal reaction/episodes and diagnosed syncope*)
- >99.4% of **wind energy contracts went to liberal party donors--Wind companies buying “support”**
- **Shameful liberals: introducing wind turbines *pits family against family***
- **Wind power** is being generated mostly during nighttime and during the windy autumn weather when there is already surplus baseload power.
- On August 8 2012, when peak usage was 22,605 MW, **wind** contributed 51 MW (0.0%)
- **“Wind turbine group a cause of falling property values” *Blackburn News***
- **Wind energy** uses ten times the materials of any other energy source *Forbes*
- **“An ill-wind in Ontario” *Toronto Sun***
- Approx. 160 wind turbines still because its too windy; reliability of zero; <1% when its most needed

Ontario's Wind Turbine HELL NOT a Willing Host

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



The **NINETY (90)** townships and counties in Ontario below have already passed specific resolutions saying they are **NOT “willing host communities”** for wind turbines. If you know of more (or corrections) please [send here](#). Please include news story or actual resolution passed. Thanks!



is insanely dangerous as they are utterly useless, when they're not throwing their blades to the four winds, industrial wind turbines just keep

Count of Wind Turbines in Ontario (tallied left, below)
 Ontario has 6,736 wind turbines in 207 wind projects shown here in 11 projects with capacity
<http://windpowergrab.wordpress.com>

1. Alnwick Haldimand, Township
2. Amaranth, Township
3. Amherstburg, Town of
4. Arran-Elderslie, Township
5. Asphodel-Norwood, Township
6. Billings, Township
7. Blue Mountains, Town of
8. Bluewater, Township
9. Bonnechere Valley, Township
10. Brockton, Township



Above –Humans impacted by turbines: 36 residences lie along Rainham Rd betw turbines. Turbines can be as close as 3,260 feet (1000 m) from the nearest residence”.



ENERGY POVERTY TO DOUBLE AGAIN

courtesy of Ontario Green Energy' Climate Change Action Plan

Cap and Trade, a “Key Spoke” of the Plan



CLIMATE CHANGE ACTION PLAN – Its Round 2 of Green Energy Act

ONTARIO'S FIVE YEAR CLIMATE CHANGE ACTION PLAN 2016 - 2020



Round 1: (Green Energy Act, 2009):

- Raise electric rates
- Close coal plants
- Build wind farms
- Overpay for wind 4X, solar 10X
- Conservation efforts a waste \$2.3B
- TOTAL COST \$172 B

Round 2 (Climate Change Action Plan)

- Cap and Trade begins
- Raise electric rates more
- Cost - \$3,247 per month (household energy and CO2 tax)
- Canada-wide CO2 tax, \$30→\$50 per tonne by 2022



Climate Change
Action Plan



Ontario risks likelihood of financial default due to Green Energy costs added since 2009

Green Energy Costs:

Round 1 (TOTAL \$172 B, about \$50K per household and increasing)

- ***Already paid - \$37 B***
- ***Conservation - \$2.25 B***
- ***Future unpaid- \$133 B***
- ***Monthly electric billing (extra)***

Round 2 additional costs of...

- ***\$3,247 /month x 13.6 million people x ?? Years
(~\$6.7 T by 2050)***

Ontario Climate Change Action Plan

Wynne's green scheme could deal massive blow to Ontario and Canada

Gwen Morgan, [The Globe and Mail](#)

Last month's announcement by Ontario Premier Kathleen Wynne that her province would link up with the existing Quebec and California carbon dioxide cap-and-trade systems prompted an editorial in this



Ontario Premier Kathleen Wynne: [Globe and Mail](#)

- Ontario to join the California CO2 cap-and-trade system (named "Green Energy Act Round Two"),
- Offering feed-in tariffs **4X** the competitive electricity rate for wind and **10X** the competitive rate for solar,
- Most green energy coming on stream isn't needed so "dumped" to United States, but already costs Ontarians billions of dollars.

Ontario Liberals pull veil of secrecy over Hydro One sell-off

[Globe and Mail](#), Adrian Morrow

Ontario Premier Kathleen Wynne has pulled an iron curtain over Hydro One, ensuring one of the largest privatizations in the province's history will unfold in secret.

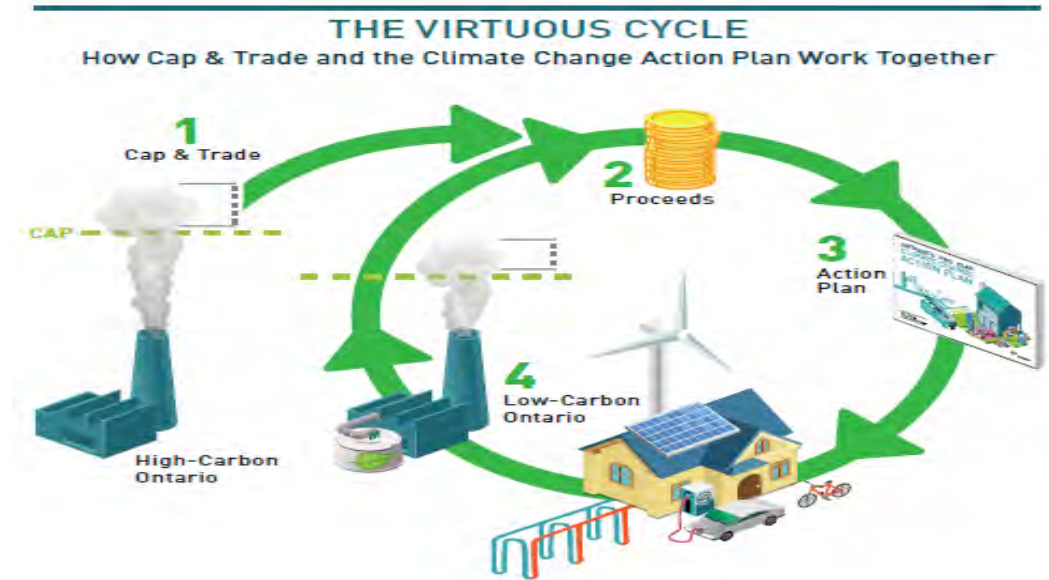
The Liberals' omnibus budget bill passed a final vote in the legislature



[Globe and Mail](#) - Premier Kathleen Wynne:

- Pulled an "iron curtain" over HYDRO ONE deal in legislature ensuring its "secret".
- Allows Ontario to start selling of HYDRO ONE.
- "Deal" contains many clauses removing oversight of the company, for example, the deal:
 - ✓ ...Prevents Auditor-General to conduct financial accountability,
 - ✓ ... Prevents ombudsman or independent watchdogs to resolve customer complaints,
 - ✓ ... Bars Freedom of Information requests,
 - ✓ ... Shields **HYDRO ONE** employees' pay from the Sunshine List.

The *LIE / ILLUSION* of Cap and Trade - 1



The *LIE / ILLUSION* of Cap and Trade - 2



Ontario's greenhouse gas reduction targets



Forecasting Method:	2014	2020	2030	2050
Cost increase compared to 2014:	1	1.8	5.2	12.3
(It measures acceleration of utility cost. Its a carbon price multiplier.)				

Ontario Climate Change Action Plan

The *LIE / ILLUSION* of Cap and Trade - 3

“Reducing emissions through cap and trade” – but what happens:

- Practitioner avoids but does not remove emissions
- The cap—a promise of no emissions
- The trade—Pays cash in return for a permit, for permission to release stack emissions; it becomes tradable, like a stock
- Avoids the responsibility, passing it “down the line”
- The Aggregator of the trade—Receives 50% of cash as fee (Al Gore)
- Adds programmatic & transaction costs
- A false hope, a lie
- Costs of doing nothing are real costs to utility customers, stakeholders
- Its neither virtuous nor truthful but a deception upon customers



Ontario's greenhouse gas reduction targets



Forecasting Method:	2014	2020	2030	2050
Cost increase compared to 2014:	1	1.8	5.2	12.3
(It measures acceleration of utility cost. Its a carbon price multiplier.)				

Forecast of Carbon Price & Energy Cost from Cap & Trade

Forecasting Method:	2014	2016	2020	2030	2050
Cost increase compared to 2014:	1		1.8	5.2	12.3
(It measures acceleration of utility cost. Its a carbon price multiplier.)					

Summary of Impacts Across Policy Alternatives in 2020				
In 2020	C&T WCI linked, Proposed Program: Transitional Assistance, Mixed use of Proceeds	Ontario Alone C&T, Unlinked: Transitional Assistance, Mixed use of Proceeds	Ontario Alone, Carbon Tax or C&T Full Auction: Mixed use of Proceeds	Ontario Alone, Carbon Tax or C&T Full Auction: Tax Reductions
GHG reductions (Mt)	18.7	18.7	18.7	18.7
Leakage (Mt)	-0.28	-1.75	-5.84	-6.03
Net GHG Reductions (Mt)	18.42	16.95	12.9	12.7
Carbon price (\$2016)	\$18	\$157	\$69	\$72
Household energy (\$/month; \$2016)	\$13	\$107	\$49	\$50

Source: EnviroEconomics, Impact Modelling and Analysis of Ontario's Proposed Cap and Trade Program

Ontario's Climate Change Action Plan 15

Forecast Method Applied:						
Carbon price	\$/tonne	\$ 157	\$ 282	\$ 816	\$ 1,931	
Energy cost	\$/month	\$ 107	\$ 193	\$ 556	\$ 1,316	

Totals (2050)... \$3,247/mo

Costs of Battling Climate Change, Lacks Benefit but...

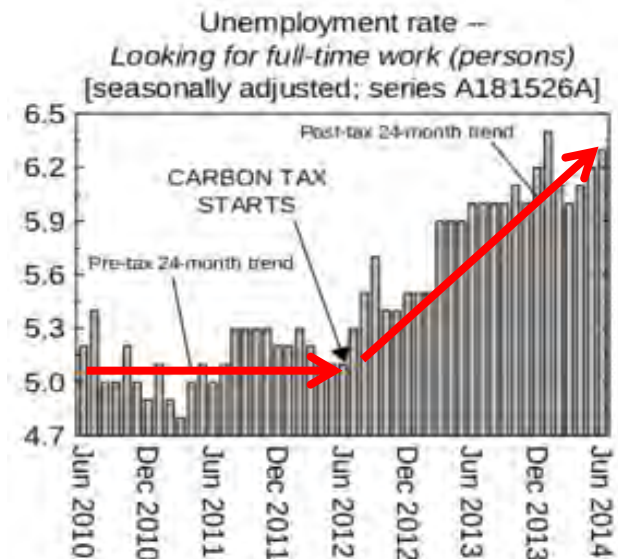
Raises Costs, and Causes Job Losses

- **Carbon Tax**

- British Columbia's carbon tax is now \$30/tonne
- B.C. company paid Carbon tax bill of \$55 million (2015) and \$48 million in 2016 (Tech Corp., Annual Report, 2015, 2016)
- A Canada-wide carbon tax starting in 2018 will impose a tax increasing to \$50/tonne by 2022.

- **Australia becomes first developed nation to repeal carbon tax**

- Australia begins taxing carbon at \$15/tonne in 2012 (PM Julia Gillard)
 - Unemployment immediately rises (chart)
- Ends carbon tax in 2014 (PM Tony Abbott)



The **ILLUSION** of Cap and Trade (C&T) – 5 Somewhere between Fake, Farce & Fraud

- Its **not a market solution**
- Said to **penalize** emissions
 - C&T masks the negative economic consequences behind rhetorical benefits of new government programs
- C&T permits to emit become an artificial, **arbitrary scarcity** imposed by government fiat
- **Unrelated to** supply and demand
- **Result:** Consumers will be forced to restrict their use of oil or coal, **not because there is less supply** available, but because of a number dreamed up by bureaucrats
- It relies on a **European-style political scheme to increase costs, and therefore is *justly viewed as a tax*** on energy, the lifeblood of our economy
- Cost of C&T
 - Is **invisible** in energy bills, and
 - **Camouflaged** within higher cost of goods
 - ***It masks*** the causes of higher consumer prices much better than a straightforward tax.
- The reason ***why*** so many politicians endorse it.

The **LIE** of Cap and Trade - 6

“Illusions of Reduced Emissions”

Cap and Trade is an Illusion(1):

- **April 2015 Ontario announces** joining C&T system of *Western Climate Initiative* with Quebec, California, Oregon and B.C.
 - Washington seeking C&T market (2017)
- Makes **carbon pricing a cornerstone in fight against climate change** by reducing carbon pollution
- C&T limits use of carbon fuels by **creating an artificial price** of carbon pollution
- Expect cap and trade **proceeds of \$1.8 billion/year**
- Expect to maintain a competitive economy while achieving environmental result of a **predictable climate**

Why oppose Cap and Trade (2):

- Susceptible to **fraud and political manipulation**, in particular
- C&T **worsens the pain of Ontario’s already “soaring” energy prices**
- C&T guarantees become worse with time
- It’s a **giant shell game** forced on customers by Ontario’s dysfunctional gov’t monopoly

What’s Trump doing? - Taking U.S. in the opposite direction

- Initiated to repeal Clean Power Plan
- Exited the Paris Agreement
- Review, to end Obama EPA Endangerment Finding
- Withdraw from UN Conv. on Climate Change
- End EPA methane rules that impedes pipelines to hydro-frac. nat. gas deposits

Source: 1. Ontario Climate Action Plan – www.applications.ene.gov.on.ca/ccap/products/CCAP_ENGLISH.pdf

2. [5 reasons to oppose Ontarios cap and trade proposal](https://ep.probeinternational.org/2015/12/11/5-reasons-to-oppose-ontarios-cap-and-trade-proposal/) December 11, 2015 by consumerpolicyinstitute

<https://ep.probeinternational.org/2015/12/11/5-reasons-to-oppose-ontarios-cap-and-trade-proposal/>

The *ILLUSION* of Cap and Trade - 7

Ontario Says It Can Maintain a Competitive Economy With C&T -- That's Untrue with these Disadvantages

- **It increases energy price**
 - Designed to increase the price of 85% of energy supplies so the new price is **comparable to the imagined cost** of renewable energy
- **Does not work to reduce emissions**
 - Europe's cap and trade caused emissions to increase
- **Disproportionately harms the poor and low-income families**
 - A **15% decrease** in CO2 costs the poor **15% of their incomes**;
 - Obama wanted to decrease CO2 by 83%, a cost to the poor of 85% of their income
- **Harms energy security**
 - Cap and trade **erodes our ability to produce energy** because 83% of America's energy is produced domestically;
 - C&T would **encourage importing** more oil from unfriendly countries
- **Produces no impact on climate**
 - Oil, natural gas and coal and the CO2 they produce have no affect on climate, which **delegitimizes the purpose of C&T**
- **Cap and trade programs force industries to leave**
 - The high price of natural gas caused the **loss of >3 million manufacturing jobs** since 2000.
- **Cap and trade will raise the cost of natural gas** because companies would use it as a substitute for coal in electricity production, which increases electric bills
- **Cap and trade for sulfur emissions is not comparable to cap and trade for carbon dioxide**
 - Sulfur emission reductions targeted only 445 power plants, whereas CO2 emissions would affect all energy, oil, coal, and natural gas

Cap and Trade is Incompatible with a Capital Economy – like the U.S.

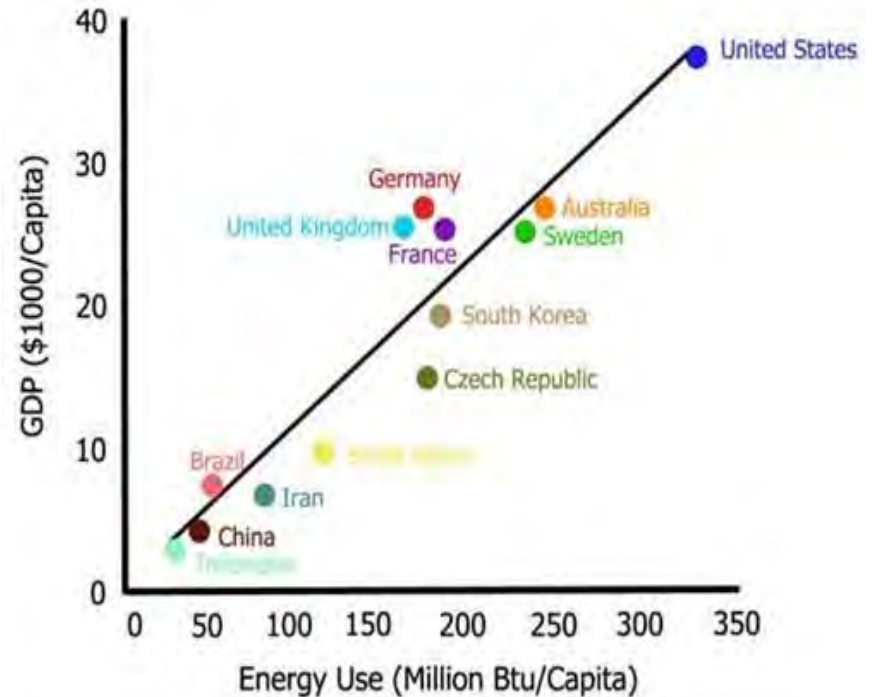
U.S. and Canada's extraordinarily large use of energy from fossil fuels has facilitated..

- Successive industrial revolutions,
- Population growth by 8-fold,
- Incomes increasing 11-fold to create a modern world (chart)

The benefits of which are orders of magnitude larger than any costs due to CO₂.

Extraordinary large use of fossil fuels has also enabled...

- Highest GDP,
- Highest living standards, and
- Highest global life expectancy



Peter Huber & Mark P. Mills, *The Bottomless Less*, p. 136 (2006)

Carbon dioxide: Social cost or social benefit, R. Bezdek
<http://www.misi-net.com/publications/USEA-1214.pdf>
<https://instituteforenergyresearch.org/topics/policy/cap-trade/>

Province of Ontario **WILL** Control Avista

Daiene Vernile, MPP: Concerning HydroOne.....”Province of Ontario will....”:

- *“Unlock assets in Hydro One to build Ontario’s infrastructure”*
- *“Sell off 60% of Hydro One through IPO (maintain 40%)”*
- *“Control HydroOne’s board”*
- *“Appoint directors, maintain veto power & nominating authority to board”*
- *“Set rates”*
- *“Maintain regulatory control”*
- *“Use sale for debt payments”*

<https://www.youtube.com/watch?v=TALKLwaonfi>



Hydro One

168 views

Like 0 Dislike 0 Share



Daiene Vernile MPP Kitchener Centre
Published on May 28, 2015

SUBSCRIBE 13

Daiene Vernile, Member of Provincial Parliament for the riding of Kitchener Centre, discusses the Ontario Government's recent Hydro One announcement and it's impact in the Kitchener-Waterloo Region.

Google Search: “Control of hydro One” (YouTube videos)

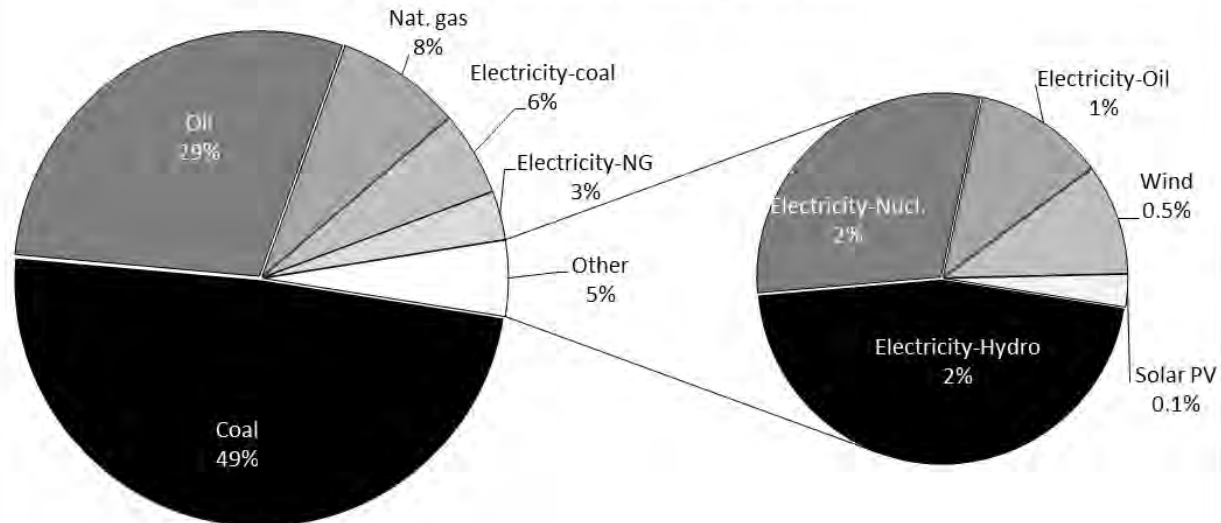
- [Government plan to sell Hydro One would run afoul of law, Privatized Hydro One is Out of Control](#)
- [Hydro One applies for 20% rate increase](#)
- [The Real Reason Hydro One Is Being Privatized Episode 1](#)
- [Stop The Sale of Hydro One](#)
- [Ontario Premier Kathleen Wynne sued over sale of Hydro One](#)
- [Hydro One Crooks](#)
- [Outrage grows over rising electricity rates in rural Ontario](#)
- [Hydro One Sale: Another Scandal in the Making?](#)
- [Hydro One “shocks” customers with \\$15M cost to revamp bills](#)
- [Heated Over Hydro One](#)
- [Ombudsman's report slams Hydro One](#)
- [Hydro One Sale = Skyrocketing Electricity Rates 4 Consumers](#)
- [Privatizing Hydro One: Another Wrong Choice](#)

Tortured by Renewable Energy



World Energy Consumption (IEA, 2017)

Key World Energy Statistic, current data for 2016





The Seriousness of the Hydro One Purchase of Avista

Posted on February 10, 2018 by David Boleneus

<http://gemstatepatriot.com/blog/hydro-one-purchase-avista/>



Should AVISTA CORP. become HYDRO ONE?

<https://redoubtnews.com/2018/01/avista-corp-become-hydro-one/>



Canada Now Owns Part Of Idaho

December 22, 2017 1

Canada Now Owns Part Of Idaho by Karen Schumacher Aside from the possibility that north Idaho Avista customers will be under a Canadian electric utility, Hydro One, there is a far more serious problem in [...]

Canada Now Owns Part of Idaho by Karen Schumacher

<https://redoubtnews.com/tag/avista/>

HydroOne + Avista ??

Renewable Energy: \$ Dollar COST

Scatterplot: Electricity Costs vs. Installed Renewable Capacity

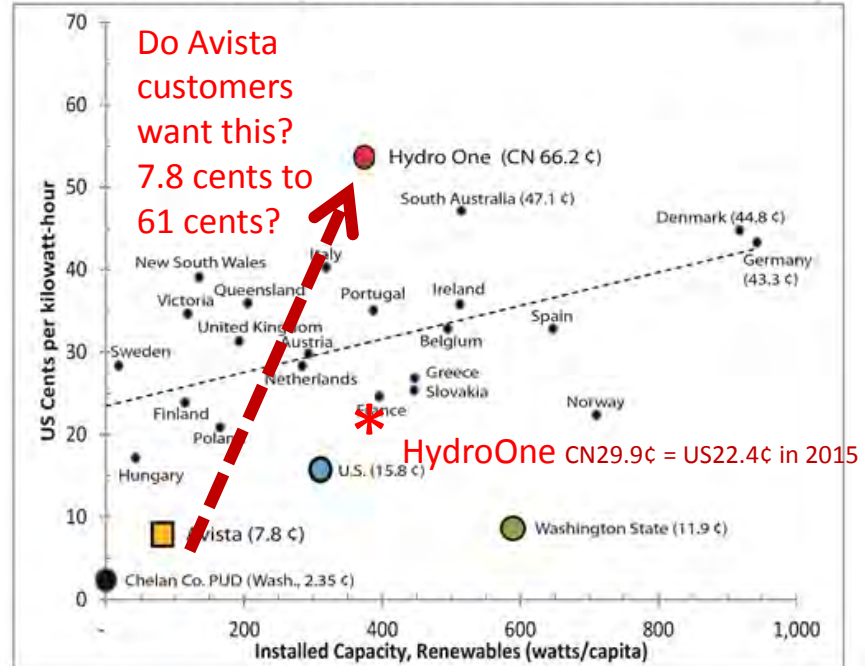


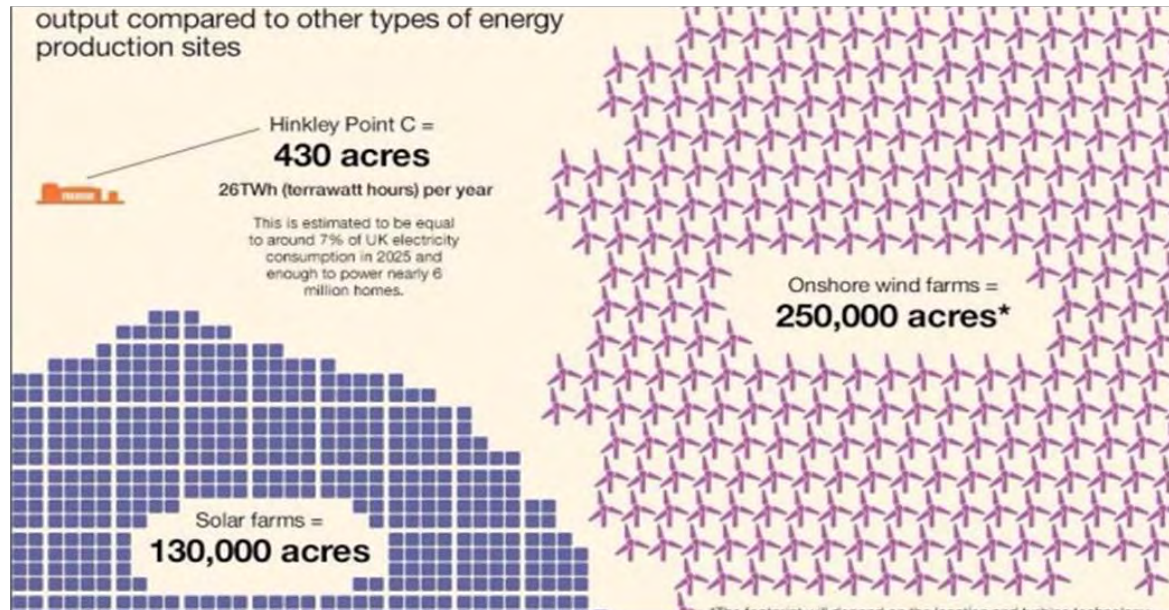
Figure 1. Chart compares electricity cost against installed renewable capacity in cents (US) per kilowatt-hour. Note the very high cost of electricity of HydroOne at CN66.2¢ (or US53.6¢) in 2018 increasing to CN81¢ per kwhr in 2019 which has climbed to these levels from CN 5.1¢ per kwhr in 2010 to CN29.9¢ per kwhr in 2015. HydroOne promised to add \$295 to each customer electric invoice from 2018-2019. Following are high costs also in South Australia, Denmark, and Germany. These very high rates compare to the very low electric costs of 7.8¢ per kwhr for Avista and 11.9¢ average for Washington State in 2017. CN=Canadian currency. 1 CN dollar = 0.81 US dollar. Kwhr = Kilowatt-hour

Block 2			
	Rate	Addition	% increase
	C\$/kwhr	C\$/kwhr	
2015	0.299		
2016	0.374	0.075	0.25
2017	0.441	0.067	0.18
2018	0.520	0.079	0.18
2019	0.614	0.094	0.18

Footprint of Nuclear vs. Renewables

(Solar, Wind)

Hinkley Point C Nuclear Plant (U.K.)



The facts according to the U.K. government?

Acres required to power 6 million homes:

Wind 250,000 acres

Solar 130,000 acres

Nuclear 430 acres

390 square miles equals:

Spokane County – 1,781 mi² (22%)

Kootenai County - 1,316 mi² (29%)

Bonner County - 1,919 mi² (20%)

250,000 acres = 390 square miles = a square 19.7 miles x 19.7 miles

Warren Buffett: Wind Farms Don't Make Sense Without the Tax Credit

Warren Buffett: "I will do anything that is basically covered by the law to reduce Berkshire's tax rate," "For example, on wind energy, we get a tax credit if we build a lot of wind farms. That's the only reason to build them. **They don't make sense without the tax credit.**"

<https://www.usnews.com/opinion/blogs/nancy-pfotenauer/2014/05/12/even-warren-buffet-admits-wind-energy-is-a-bad-investment>



Energy Subsidies

Dollars per megawatt hour

Natural gas	\$0.64
Coal	\$0.64
Hydropower	\$0.82
Nuclear	\$3.14
Wind	\$56.29
Solar	\$775.64

Sources: Energy Information Administration, Institute for Energy Research, 2011

- Not only are federal wind subsidies a colossal waste of money and detrimental to the economy, but they subsidize an industry that is actually harmful to the environment, killing in the U.S. up to 328,000 birds and 600,000 bats a year. What's more, the amount of land needed for wind farms is staggering. To power New York City by wind would require every square meter of Connecticut to become a wind farm.



Wind Turbine Experience in Washington

January to June 2015: Provides 1,085 MW out of 4,782 MW (22.6% Efficiency)

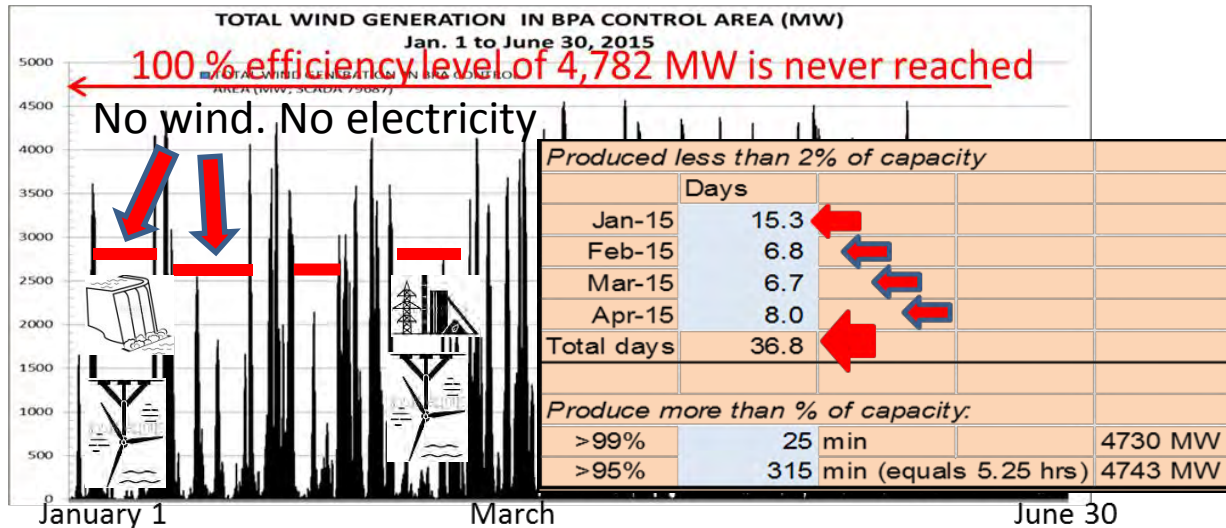
List of 46 wind farms (4,782 MW)

WIND GENERATION NAMEPLATE CAPACITY IN THE BPA BALANCING AUTHORITY AREA (as of 6/16/2016)			
Content Manager for This Data: Bart McManus/TOT (bartmcc@bpa.gov)			
Plant	Nameplate Capacity MW	Date When Actual Gen First Exceeded 1/2 of Current Nameplate Capacity	Cumulative Nameplate Capacity MW
Vantage	23	10/25/1988	23
Stateline	90	12/18/2001	113
Klondike I	24	1/16/2002	137
Condon	50	6/18/2002	189
Klondike II	76	6/28/2002	265
Harples Ridge	137	11/25/2005	422
Leaning Jumper	100	8/10/2006	522
Big Horn	200	10/4/2006	722
White Creek	200	10/5/2007	922
Klondike III	226	10/15/2007	1148
Biglow Canyon PH 1	126	11/17/2007	1274
Nine Canyon @ 20%	27	11/26/2007	1301
Goodnoe Hills	96	4/29/2008	1397
Nine Canyon @ 52%	24	5/10/2008	1421
Klondike 3a	71	6/6/2008	1496
Astington	103	12/7/2008	1599
Willow Creek	72	1/1/2009	1671
Pebble Springs	100	1/27/2009	1771
Ute Canyon	100	2/12/2009	1871
Wheatfield	97	3/22/2009	1968
Tuslamme	137	5/1/2009	2105
Biglow Canyon Phase 2	149	8/6/2009	2254
Windy Flats Dooley (phase 1)	30	9/21/2009	2284
Windy Flats Dooley (phase 2)	233	11/30/2009	2517
Harvest	106	12/16/2009	2623
Greenline Hills	63	1/7/2010	2686
Star Point	100	1/13/2010	2786
Linden Farm	50	6/6/2010	2836
Coastal Energy	4	6/30/2010	2839
Biglow Canyon PH 2	14	8/11/2010	2853
Biglow Canyon PH 3	161	8/11/2010	3014
Big Horn II	50	10/8/2010	3064
Leaning Jumper II PH A	91	10/24/2010	3152
Kittitas Valley	101	11/15/2010	3253
PATU	10	11/29/2010	3263
Leaning Jumper II PH B	109	12/1/2010	3372
Jumper Canyon	150	2/11/2011	3522
North Harbor	266	11/20/2011	3788
Lower Snake	343	2/29/2012	4131
South Harbor	290	3/11/2012	4421
Hersheloe Bend	290	5/17/2012	4711
No change	0	3/31/2013	4711
Goodnoe Hills (OUT to PAC BA)	-94	4/1/2013	4615
Leaning Jumper (OUT to PAC BA)	-100	4/2/2013	4515
No change	0	12/18/2014	4515
Tuslamme River	267	12/19/2014	4782
No change	0	6/16/2016	4782

<https://transmission.bpa.gov/business/operations/wind/>

See Appendix Page 21

Chart of electricity output from 46 wind turbine farms in WA-OR with capacity of 4,782 MW (Bonneville Power Admin.)



How Washington's wind turbines perform:

- Wind generation in WA-OR has a capacity 37% larger (4,782 MW) than the four Snake River dams (3,489 MW) yet produced 1,243 MW, or 64% less than Snake River dams.
- Conclude: wind turbines cannot produce full-time power;
- Power generated by 46 wind farms is intermittent, unpredictable
- It requires full time fill-in or back-up power for customers to obtain a full-time supply.

Renewables Experience -- Spain, UK, Canada, Denmark

Examples:

- **UK**-Electric prices have risen 133%, yet it committed to spend \$40 billion on a nuclear plant to reduce emissions as it has rejected wind power as too expensive and ineffective in reducing emissions (R. Lea, 2012, Electricity costs: The folly of wind power)
- **Denmark**-Pres. Obama cited the Danes as the example to follow, but they pay the highest electricity prices in EU along with Germany; pays subsidies of \$376 million per year to wind producers; subsidies paid up to \$140,000 per year paid to each wind job, which is 250% higher than average Dane worker; wind power exports save neither CO2 nor fossil fuel use, but Danes export 57% of subsidized wind power to neighbors at almost no cost, with hope for return favors;

Examples:

- **Spain**-2.2 jobs were lost elsewhere for each renewable job created; 9 of 10 jobs ended when renewables construction ended; committed \$753,778 per green job; each green megawatt destroyed 5.39 jobs elsewhere;
- **Canada**-British Columbia levies a carbon tax of \$30/ton of CO2, which costs one company more than \$55 million per year in 2015

Frondel, M., et al (2009), Economic impacts from the promotion of renewable energies: The German experience
G. C.Alvarez, 2009, Study of effects on employment of public aid to renewable energy sources: <http://juandemariana.org/pdf/090327-employment-public-aid-renewable.pdf>
Status of renewable electricity mandates in the states: Institute for energy Research www.instituteforenergyresearch.org/states
Energy and consumer impacts of EPA's Clean Power Plan: NERA Economic Consulting, Insight in Economics (2015)

Renewables Experience – Germany, South Australia

Examples (continued)

- **Germany**-Often cited as a model to renewable energy promotion, its subsidies for solar workers are up to \$240,000; price markup of 2.2 cents per kwhr for renewables; support for solar and wind is \$73.2 billion and \$28.1 billion, respectively; each green job disappeared when support ended; **Germany's Energy Minister (Aug. 2016) said "our country has reached its limits with renewable subsidies along with its electricity prices or risk de-industrialization although its CO2 emissions have risen and is building 18 new coal plants to provide needed energy;**
- **South Australia**-During a winter storm event in South Australia, the SA grid experienced a cascading shutdown of all of its wind and other power stations when 7 transmission towers collapsed blamed on its over-build of wind energy, now at 41% of total grid [The Australian 5/10/2016](#)

- **South Australia**-Twice, in December 2016 and February 2017 a heatwave caused a blackout which continued, and again the cause seems to be excessive reliance on wind farms. The up and down ramping of the turbines seems responsible for the unstable conditions. Premier Weatherill blamed Australian Energy Market Operator, AEMO for not ordering the gas power station online.
- **Rolling blackouts ordered in SA in 40°C heat**
<http://joannenova.com.au/2017/02/rolling-blackouts-in-sa-in-40c-heat/> The AEMO said the blackout **caused wholesale electricity prices to spike to \$13,440 per MW-hr (equals \$13.44 per kwhr)**
<https://wattsupwiththat.com/2017/02/09/south-australia-heatwave-wind-power-collapse-rolling-blackouts/>



Wind Turbine Experience – South Australia

Government Programs Distort Markets, Raise Prices

Adelaide - AEMO Plant Closures Helping to Stabilise South Australia's Green Electricity Grid –

The closure of South Australia's GM Holden Car Factory (loss of [13,000 jobs](#)) will help stabilise South Australia's green electricity grid, according to the government [AEMO](#).

*Holden closure will help Energy Market Operator manage SA's blackout risk - [August 2, 2017](#)
<https://wattsupwiththat.com/2017/08/02/aemo-plant-closures-helping-to-stabilise-south-australias-green-electricity-grid/>*



Wind Turbine Electricity Costs

Costs are unknown... company secret

Explicit Costs	\$/MW-hour*	Other
Capital	\$ 126	
O&M	9.8	
Transmission and line losses	43	
Baseload cycling**	23	**Requirement for full time backup power
Environmental	9	
Subsidies (federal)	23; or 35 (if pre-tax)	This is a cost to taxpayers though they may not benefit
Integration to grid	12	
Tariff	130	\$130/mw-hr (guaranteed tariff) minus 78 (Avista) = \$52/mw-hr
Renewable Portfolio Standard (Wash.)	<i>Unknown</i>	
Federal loan guarantee	<i>Unknown</i>	
Sub-total (explicit costs)	\$ 388	= \$0.388/kw-hour
Emissions		11 kg CO2 / MW-hr or one-half of a coal plant
Area per turbine (minimum)		295 acres (Ontario)*** - 75 acres (Washington)
Life time		10 years compared to 35-40 years for coal or nat. gas
Capacity, or efficiency (Washington)		24-26%



*True cost of energy: Wind: Inst. of Political Economy, R. Simmons et al, Utah St. Univ., www.strata.org

Assessing wind power estimates: Inst. for energy research, M. Gilberson, Texas Tech. Univ.

***An energy density of about 8 watts/acre/year

Battling Climate:

How Governments Harm People while Consciously Damaging Its Economy

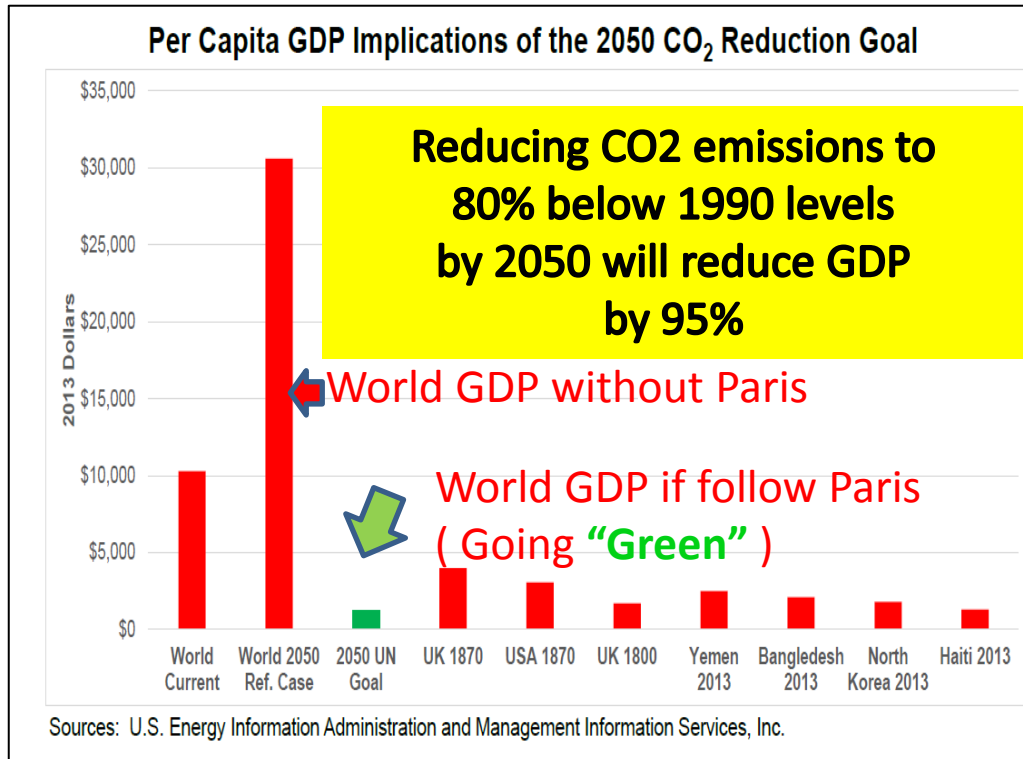


<http://joannenova.com.au/2013/12/antarctic-ice-swallows-boat-media-spin/>

DAMAGE CAUSED BY LIMITING/TAXING CARBON DIOXIDE-1

Economic Impacts under the

1. Paris Agreement and 2. Obama EPA's Clean Power Plan : Implications of 2050 CO₂ Goals



State Electricity Price Impacts, 2022-2033.

- The highest annual increase in retail rates shows states could experience significant price increases
 - 41 states could have electricity price increases of 10% or more
 - 28 states could have electricity price increases of 20% or more
 - 7 states could have electricity price increases of 40% or more

CARBON DIOXIDE: SOCIAL COST OR SOCIAL BENEFIT?

Presented at the U.S. Energy Association Washington, D.C.

Roger H. Bezdek, Ph.D., Management Information Services, Inc.

www.misi-net.com December 15, 2014

<http://www.misi-net.com/publications.html>

The Real Impacts of EPA's Clean Power Plan

<http://www.americaspower.org/nera/>

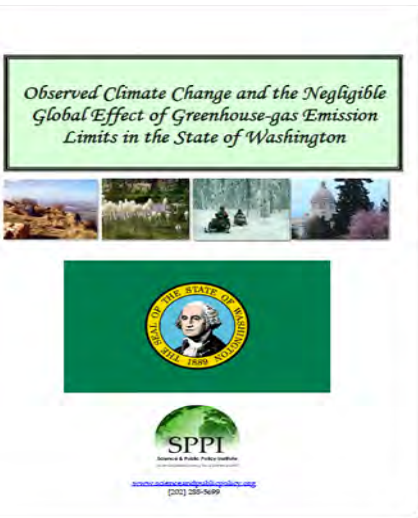
Damage Caused by Limiting or Taxing Carbon Diox. – 2

If Washington State Follows the Paris Climate Plan

Washington's Emissions are 0.24% of Global Emissions

❑ Ending all of Washington's emissions...

- ✓ Would be replaced in 35 days from other sources or China in 53 days
- ✓ Yields a temperature savings of 0.001°C [0.0018°F] by 2050 [not measurable]
- ✓ Yields a sea level rise savings of 0.02 cm [0.008 in] by 2050 [not measurable]



http://scienceandpublicpolicy.org/state_climate_profiles.html
http://scienceandpublicpolicy.org/originals/state_by_state.html

❑ Costs to meet Washington's planned legislative emission targets would result in

- ✓ Household annual income losses of \$3,512 in 2020, \$8,200 in 2030
- ✓ Job losses of 36,000 by 2020, 82,000 by 2030
- ✓ Increase gasoline prices from \$0.60 to \$1.17 per gallon
- ✓ Reduce State GDP by \$14.7 billion annually

The famous quote attributed
To Jonathan Swift:

"Reasoning will never make a Man correct an ill Opinion, which by Reasoning he never acquired."

Anti-wind Advocates

Facts about Wind Power

- “A Problem with Wind Power”

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

European Platform Against Windfarm:

<http://www.epaw.org/>

Ontario Wind Resistance

<http://ontario-wind-resistance.org/>

National Wind Watch

- In Europe – Link: groups in 19 countries
- In Canada – Link: groups in 5 provinces
- In U.S. – Link: groups in 39 states

<https://www.wind-watch.org/allies.php>

Wind Isn't Cheaper

<http://instituteeforenergyresearch.org/analysis/news-flash-wind-power-not-cheaper-coal/>

Alliance for Wise Energy Decisions (AWED)


<http://wiseenergy.org/>

<https://www.masterresource.org/alliance-for-wise-energy-decisions/energy-environmental-newsletter-october-16-2017/>


Stop These Things (a world-wide voice against wind turbines)

<https://stopthesethings.com/>



 Safety probe launched after collapse of 480-foot wind turbine



 Physiological effects of wind turbine noise on sleep



Ontario's Wind Power Obsession Punishing Thousands: 390,000 Families Struggling to Pay Power Bills & 58,000 Disconnected

January 17, 2018 by stopthesethings 5 Comments



Ontario Climate Change Action Plan

Impact on Avista Customers - 1

Hydro One

- **Deal** for Avista: \$53/share or \$6.7 B paid by \$1.4 B conv. deb., \$1.4 B stock, & \$2.6 B corp. debt – *a pittance compared to enormous risks it brings*
- **1,039 MW renewable giveaway** of Avista's power facilities - 13 hydro dams
- **Operates as a monopoly**
- **Serves Ont. Energy Ministry**; fiduciary duty to Premier, its major stockholder
- **Is unresponsive** to and disliked by customers
- **Is inefficient** and charges ratepayers more money for systems in decline
- **59,000 customers disconnected**
- **Outages 30%** more frequent, 24% longer

Ontario government

- **A liberal socialist** government; honors Sierra Club, globalist views of control
- **Ont. Energy Ministry** answers to Ont. Premier
- **Ontario states** it will control HydroOne's Board, decisions and rate-setting
- **Hydro One** 70% owned by Ontario gov't.
- Stated: will not forgo control of HydroOne (or <40% stock ownership) (MPP Diene Vernile)



Impact on Avista Customers - 2

Customer (and Avista) risk (sourced from HydroOne)

- **Sacrificing** a going concern and reliable hydroelectric power in the sale
- **Avista risks** customer electric rates increasing 350% under Hydro One management
- **Now, lowest rate** (\$0.078/kwhr) to highest rate (C\$0.18-C\$0.299/kwhr in 2015) in N. America
- Global adjustment charge could appear on bills
- Subject to **rate increases of 149%** as witnessed to Hydro One's 10-year history
- **Subject to Hydro One** mismanagement, cost-overruns and "green" policies controlled by Provincial government
- **Loss of control** and ownership of 12 hydroelectric dams
- **Loss of reliable, safe** thermal power provided by Colstrip 3&4 units
- **Possible maintenance** shortfalls, power outages that last longer (Hydro One's history)

Customer (and Avista) risk (sourced from Ontario gov.)

- Control handed to Ontario government and climate law (CCAP)
- Ontario government will control Avista's Board of Directors, decision-making and rate-setting
- Face electric rates spiral due to predictable bankruptcy, or unpredicted action by Ontario's Premier or Energy Ministry
- Question of outsider HydroOne stock ownership and control they wield
- **Cap and Trade (C&T) and Carbon Tax**
 - Avista's hydro is sacrificed to satisfy Hydro One's 2020 target under Ontario's CCAP
 - Avista customers now exposed to forecast costs of C&T and Carbon tax at:
 - Carbon tax \$1931/tonne by 2050
 - Energy cost (electricity) \$1316/mo by 2050

Impact on Avista Customers - 3

Cap and Trade does not work because it...

- Is a valueless European scheme that **forces customers to restrict use due solely to bureaucratic fiat**
- **Increases** energy prices
- **Forced on customers on false pretense** to reduce carbon dioxide emissions
- **Harms** energy security
- **No impact on climate**
- Causes **economic hardship** on families, jobs, and industry
- Feigns control of climate change
- Is susceptible to **fraud and manipulation**

Taxing carbon dioxide

- Is **regressive, wasteful**
- **Risks economic stability**

Carbon Dioxide, CO2...

- Does not control temperature (fact)
- Cannot cause climate change (fact)
- Is principally naturally-sourced (98%) with an irrelevant fraction human-sourced (2%)
- Will remain uncontrolled under Ontario's CCAP because 98% is NATURAL CO2 and because C&T does/cannot succeed to limit emissions (2% from fossil fuels)

Ontario's Climate Change Action Plan (CCAP)..

- **Is socialist, globalist *Maurice Strong* legacy**
- Goal to destroy capitalism and Great hoax,
- Ignores that U.S. and 21 countries exited Paris Climate Agreement, *including Canada*

Impact on Avista Customers - 4

- **Reliance on renewable energy**
 - **An inefficient** source of electricity in UK, Spain, Australia, Denmark, US, and Germany--**proven**
 - Customers, neighbors hate, detest--**prove**
 - Risks reliability of power grid--**proven**
 - Extremely expensive to build--**proven**
 - Requires vast areas and subsidies to survive--**proven**
 - Unreliable, part-time powersource--**proven**
 - Requires full-time backup from coal, gas, hydro power, real (total) costs are unknown and systems are fragile--**proven**
 - Useful life is 10 years, but up to 25% of normal power sources--**proven**
 - U.S. natural resources to build are inadequate--**proven**
- **Paris Climate Agreement, Obama EPA's Clean Power Plan**
 - 80% reduction in CO2 means...
 - Bankrupting most low & mid-income families
 - Reduce US GDP by 95%
 - Increase electric rates by 40%
 - Battling climate change is silly, wasteful purpose
- **Gov. Inslee's CO2 reduction plans**
 - Cannot measurably reduce CO2--**proven**
 - Will not reduce temperature --**proven**
 - Will not affect sea level--**proven**
 - Will not affect climate--**proven**
 - Gas tax \$13/tank fill; \$1,987/year--**proven**
 - 70% of carbon tax is for "air"--**proven**
 - Cap and trade—to reduce CO2 by 80%
 - No effect on climate--**proven**

Brockett letter

Other “Negatives”

Ontario’s Green Energy Act

- Ontario’s Premier Kathleen Wynne, noted Sierra Club member & socialist
- Ended coal power, once cheapest electricity on continent in favor of Wind turbine HELL
- Terrified of CO2 (carbon diox.), the “mother gas”, a plant fertilizer, food production miracle, that’s “greening” earth
- Cap and Trade
 - C&T compels Canadian utilities to look for U.S. “clean energy” companies; Canadians paid \$28.7 billion up to Feb. 2017 with 11 other utilities additional targets

- HydroOne will trade Avista’s 1200 MW of hydropower for C&T carbon indulgences on Al Gores’ /Barack Obama’s Chicago or Ontario’s or socialist Jerry Brown’s Calif. Climate exchanges
- Australia started a carbon tax in 2012 and quickly ended it in 2014 (due to severe unemployment and economic impacts)



Brockett* Letter to Spokesman-Review:

- Canada is a foreign socialist country, the new Avista corporate entity may become a *Crown Corporation of Canada*, subject to its Privy Council, ultimately subject to the *UK's British Government*
- HydroOne will control Board of the new Avista “holding” corporation
- Should Avista customers serve a foreign government?
- Ontario decides rates
- The sale should not be approved.
- * Brockett is former Prosecutor, Spokane County

end



Don't answer that.

Extra slides

Extra slides

Extra slides

A satellite view of Earth from space, showing the Western Hemisphere. The United States, Canada, and parts of South America and the Atlantic Ocean are visible. The text is overlaid on this image.

A Look at Selling of...

Climate Change, Global Warming,
Climate Disruption, whatever it is....

....53 of the many deceptions

What They Haven't Told You

The "Good", The "Bad", and The "Ugly"

WHAT THEY HAVEN'T TOLD YOU - 4

The cooling since the Holocene Maximum and the Modern Maximum

The cooling over Central Greenland since the Holocene maximum is very clear in the GISP2 record (Alley, 2000), which is shown below:

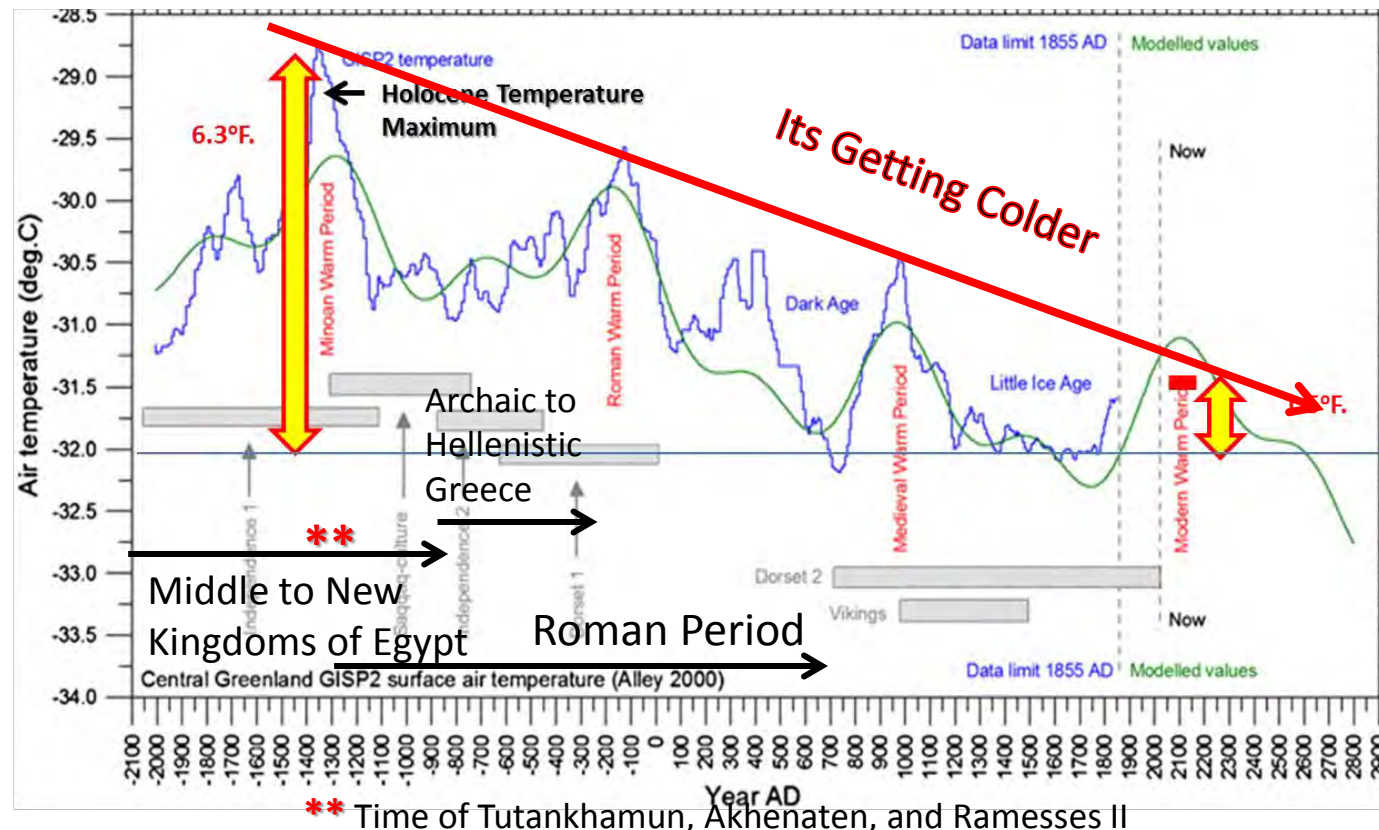
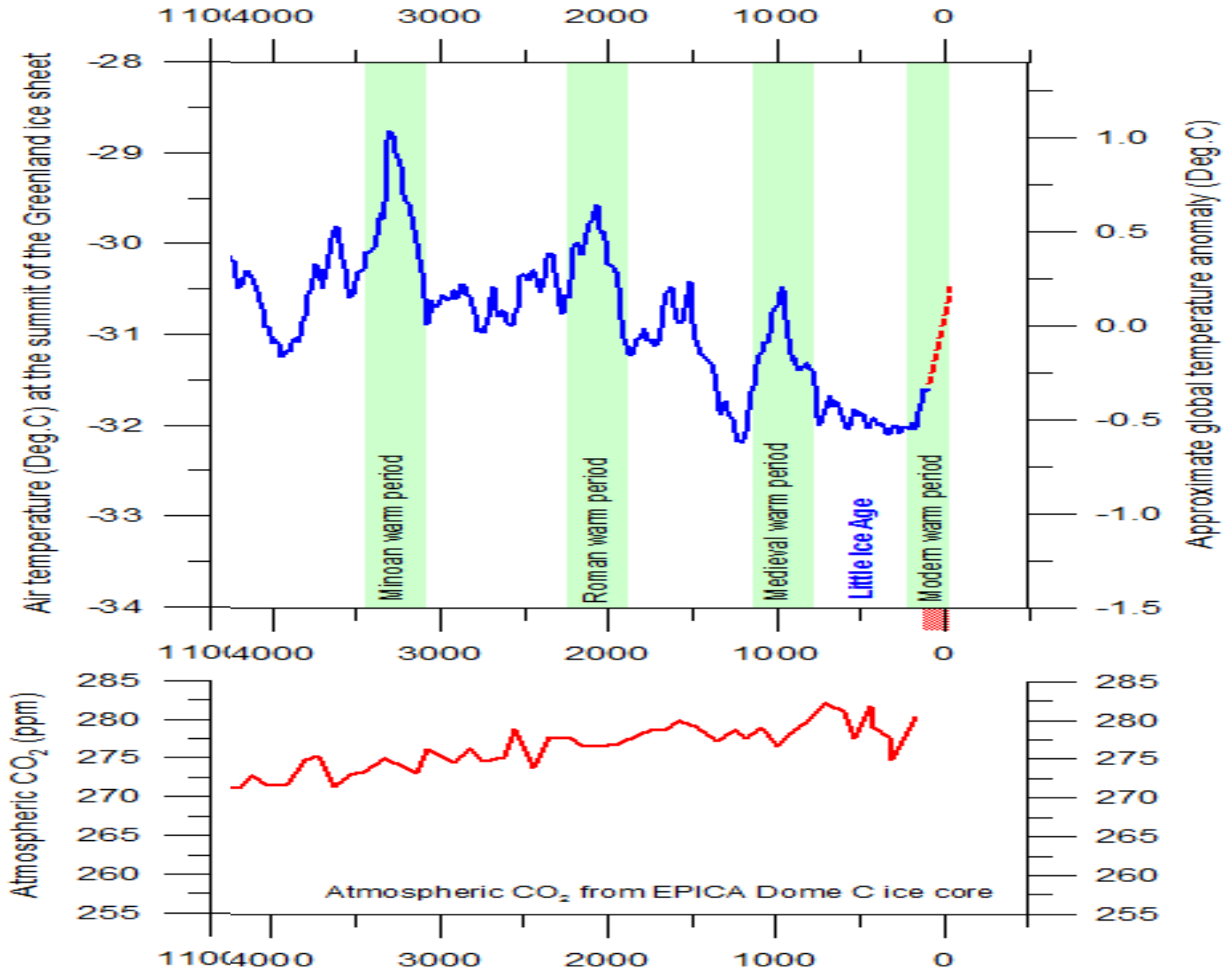


Figure 1: Central Greenland (GISP2) surface temperature the past 4000 years (blue line). Natural cycles modeled and forecasted shown by the green line. Only 3-cycles are included (2800, 1190 and 560 yr) in the model. This model shows a temperature increase for the period 1850-2100 which is called the Modern Warm Period (MWP) (From Humlum et al., 2011). Gray bars indicate paleo-Eskimo habitation sites in northeast Greenland (Sorensen, 2012, erudit) <http://www.climatedialogue.org/what-will-happen-during-a-new-maunder-minimum/>



WHAT THEY HAVEN'T TOLD YOU – 5.

Carbon dioxide does not control temperature

Carbon dioxide (CO2)...

- is not a greenhouse gas
- does not cause temperature to change.

There is no such..

- gas as a greenhouse gas
- thing as a greenhouse effect

Hadley CRUT3v and UAH MSU vs CO2

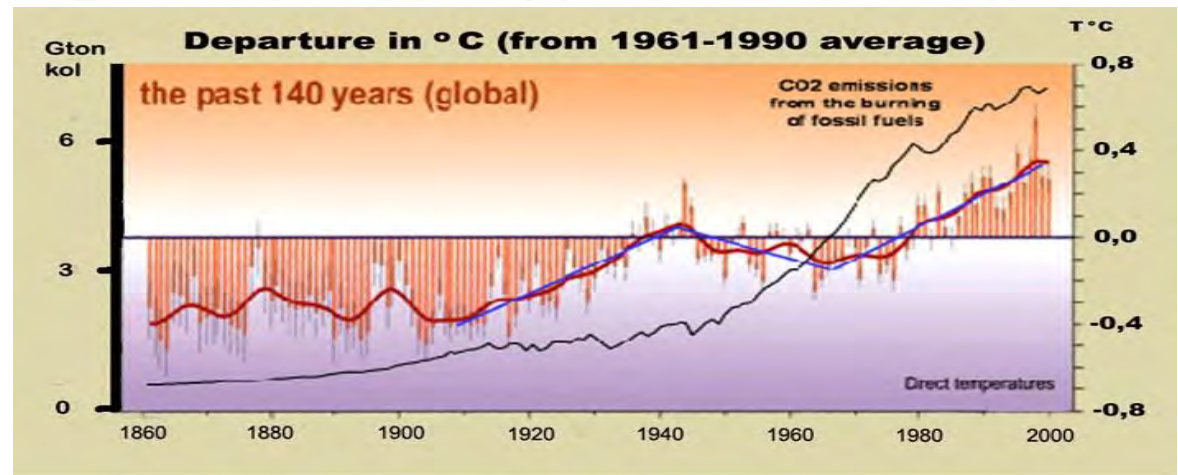
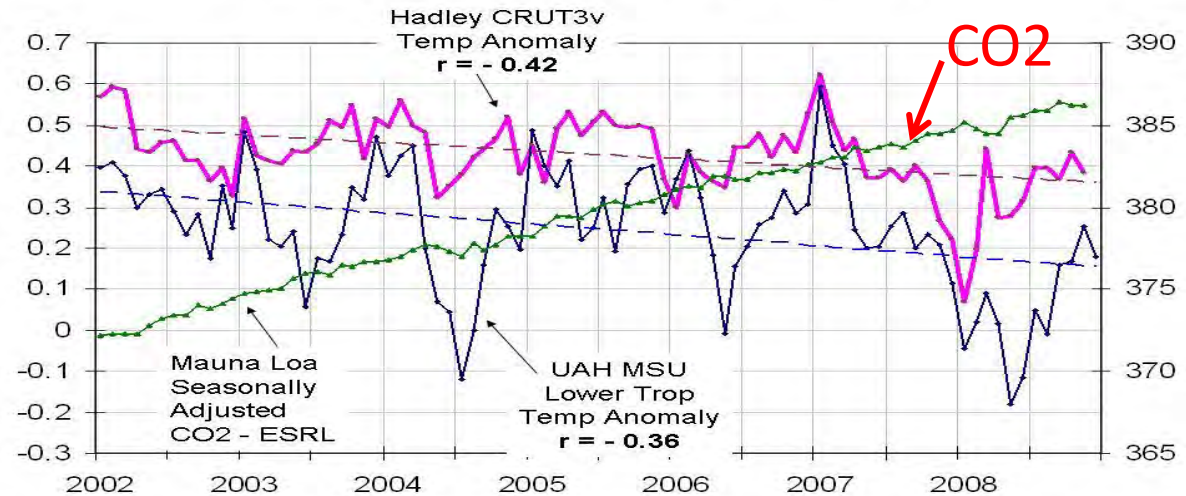


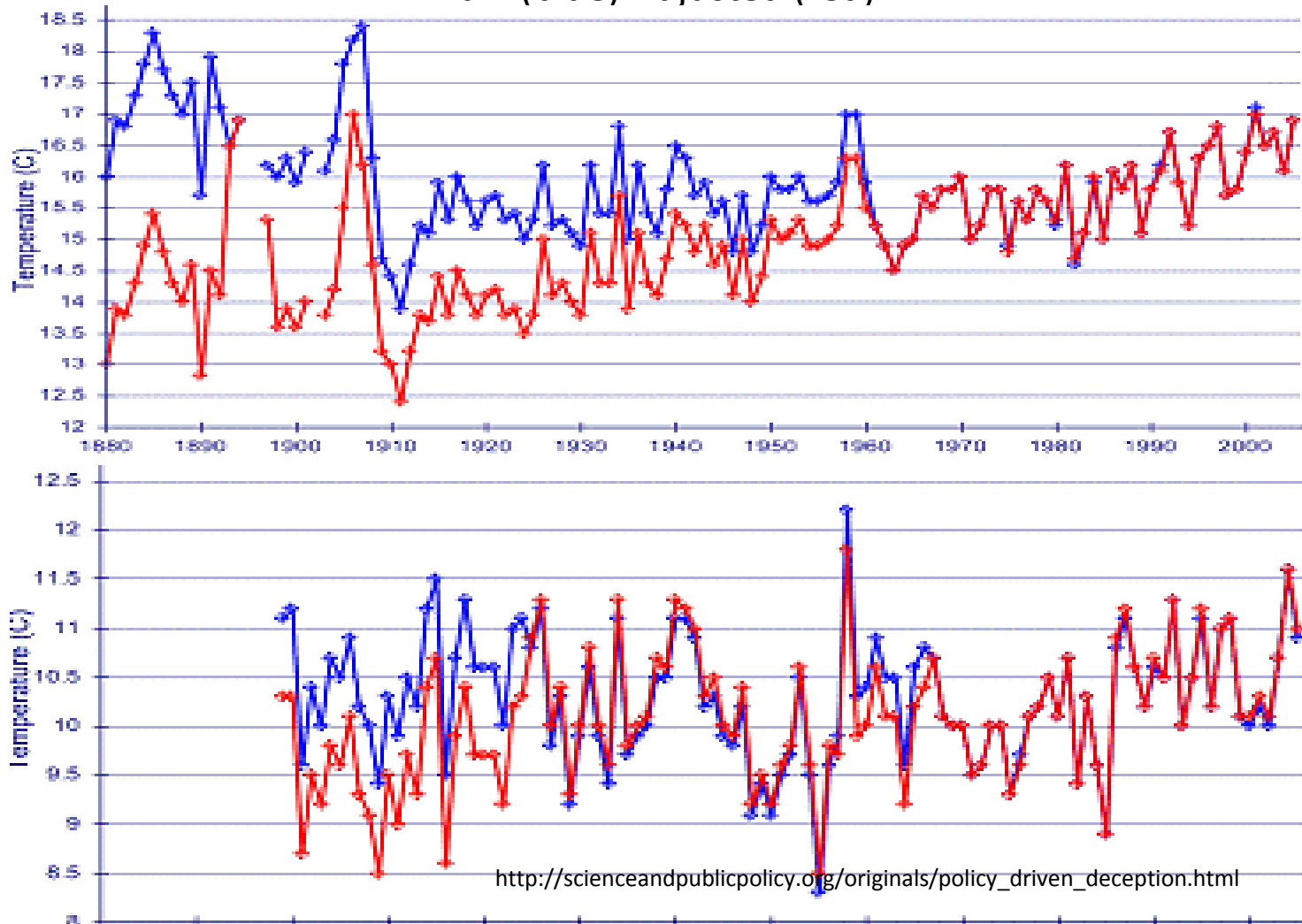
Fig. 1. Changes in mean global temperature 1860–2000 (main graph and right hand scale) and increase in emission of carbon (thin curve and left hand scale).

WHAT THEY HAVEN'T TOLD YOU – 6

NASA-GISS Temperature Adjustments

Davis, Calif. (top) and Snoqualmie, WA (bottom) Rural Station Temp.

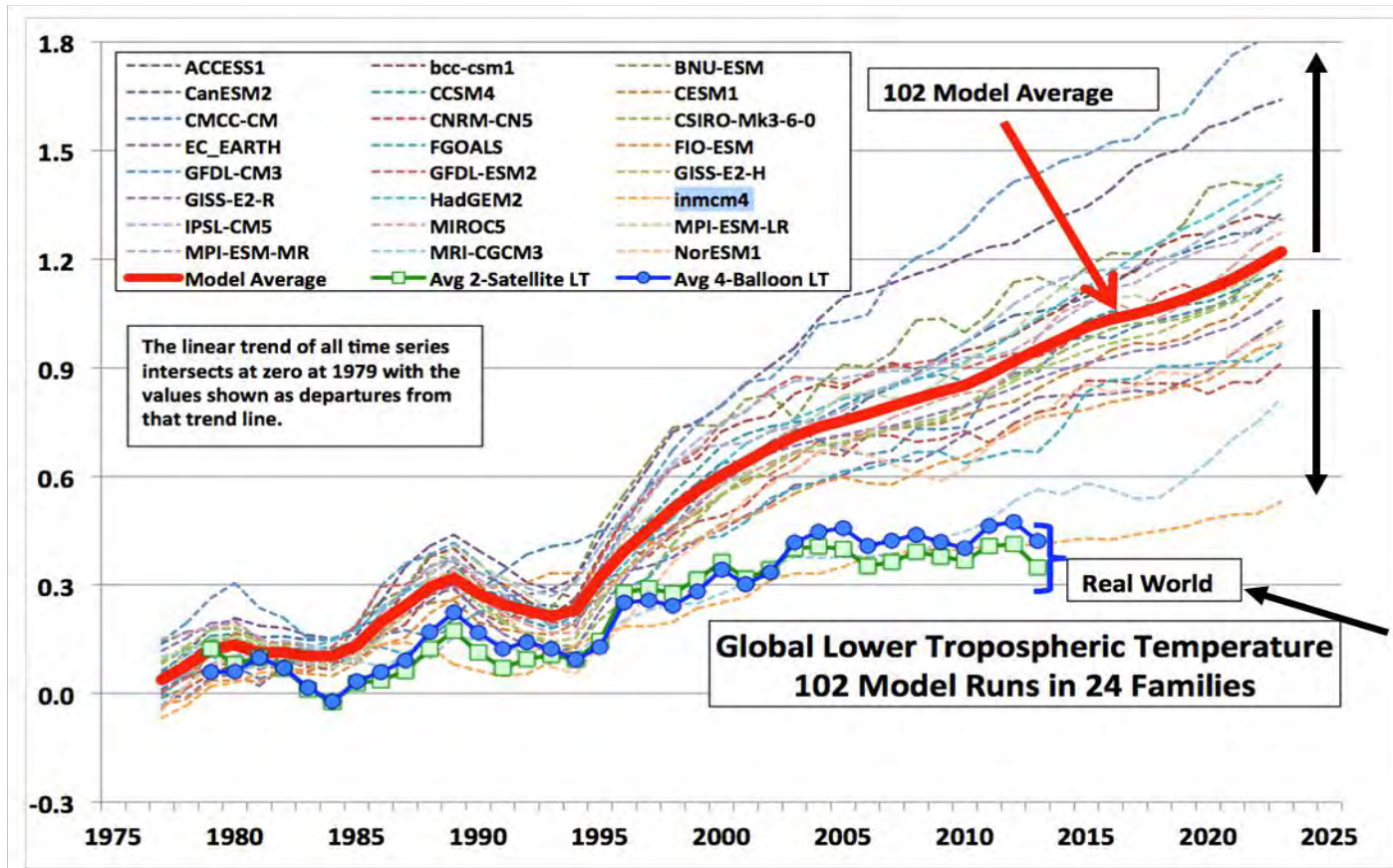
Raw (blue) Adjusted (red)



WHAT THEY HAVEN'T TOLD YOU – 9

Real Temperature vs. Model Temperature

Model Temp. is used to justify adjusted temperature records



Temperatures predicted from computer models

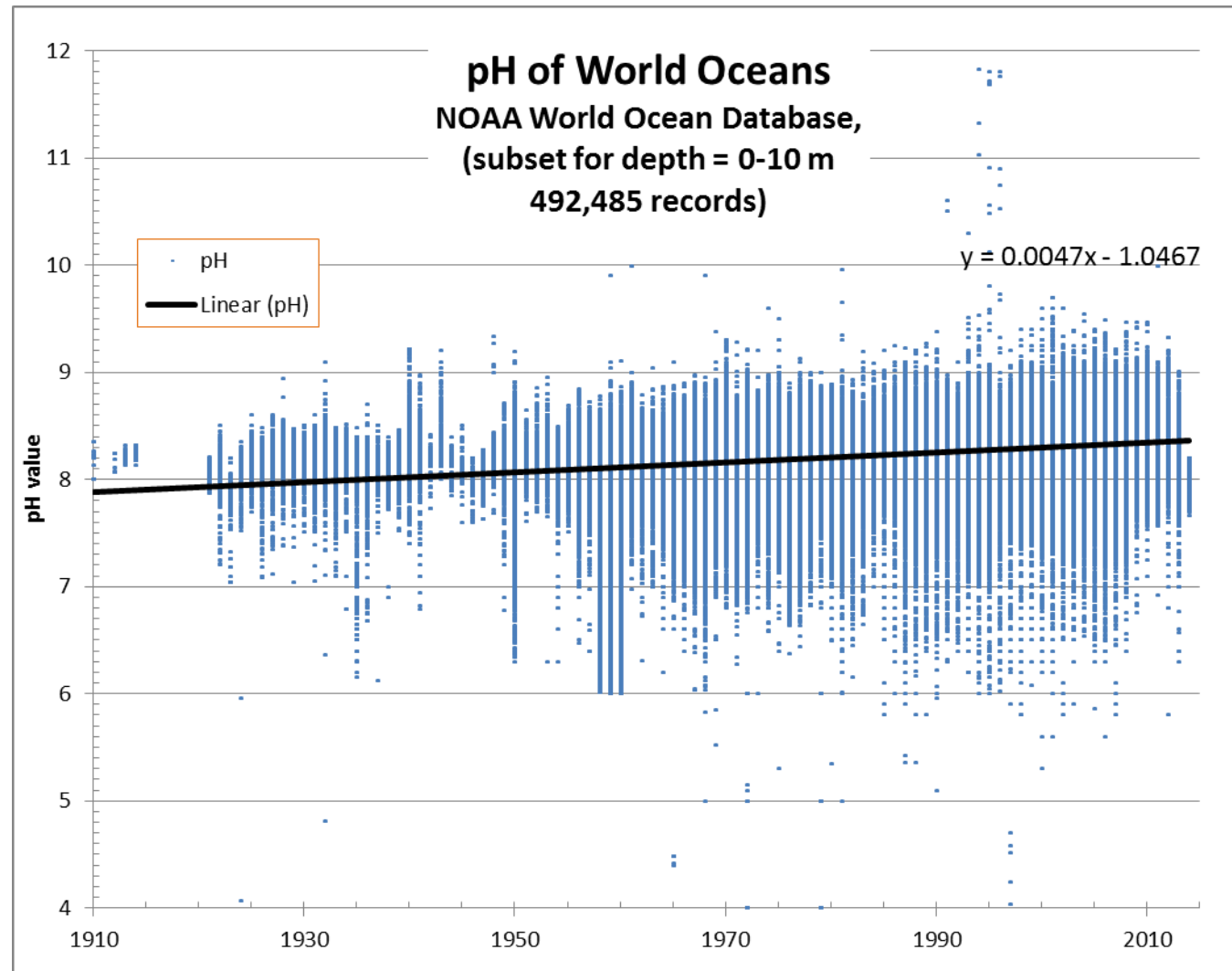
Measured temperatures from 4 balloon data sources & 2 satellite data sources

Figure 5. Modeled temperature (red) and real world temperature (green and blue)

WHAT THEY HAVEN'T TOLD YOU – 16.

The oceans are not becoming acid

- Acid-base condition of ocean varies widely
- Oceans are trending toward a basic condition— pH is increasing-- the opposite of acid



What They Haven't Told You – 21

More CO2 Helps Washington's Farm Crops

CO2 is Plant Food

Is CO2 Plant Food?

Here is what happens with more CO2



385 ppm

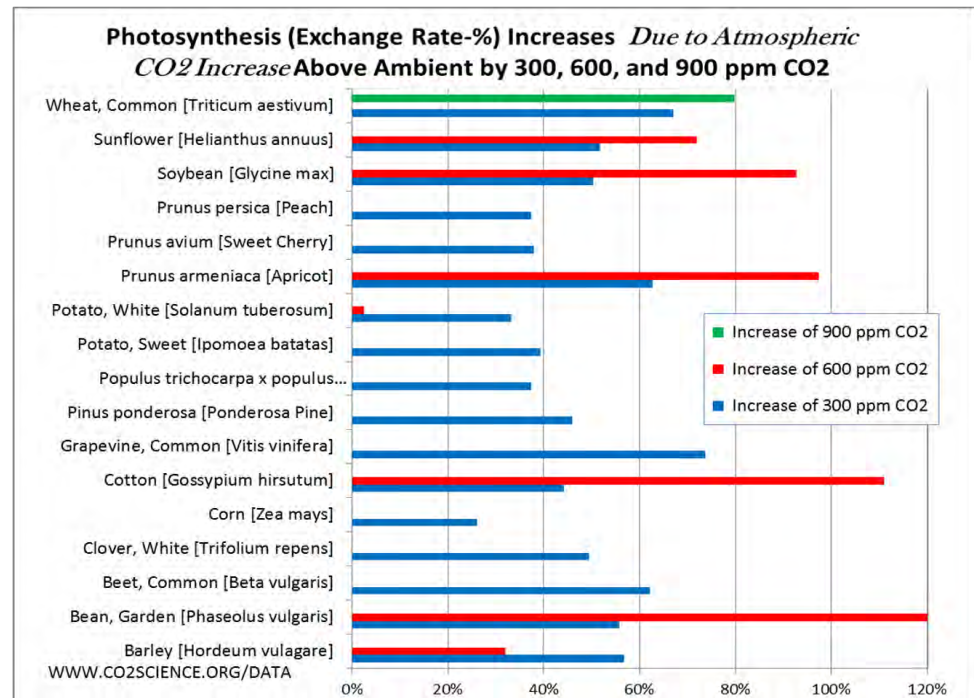
535 ppm

685 ppm

835 ppm

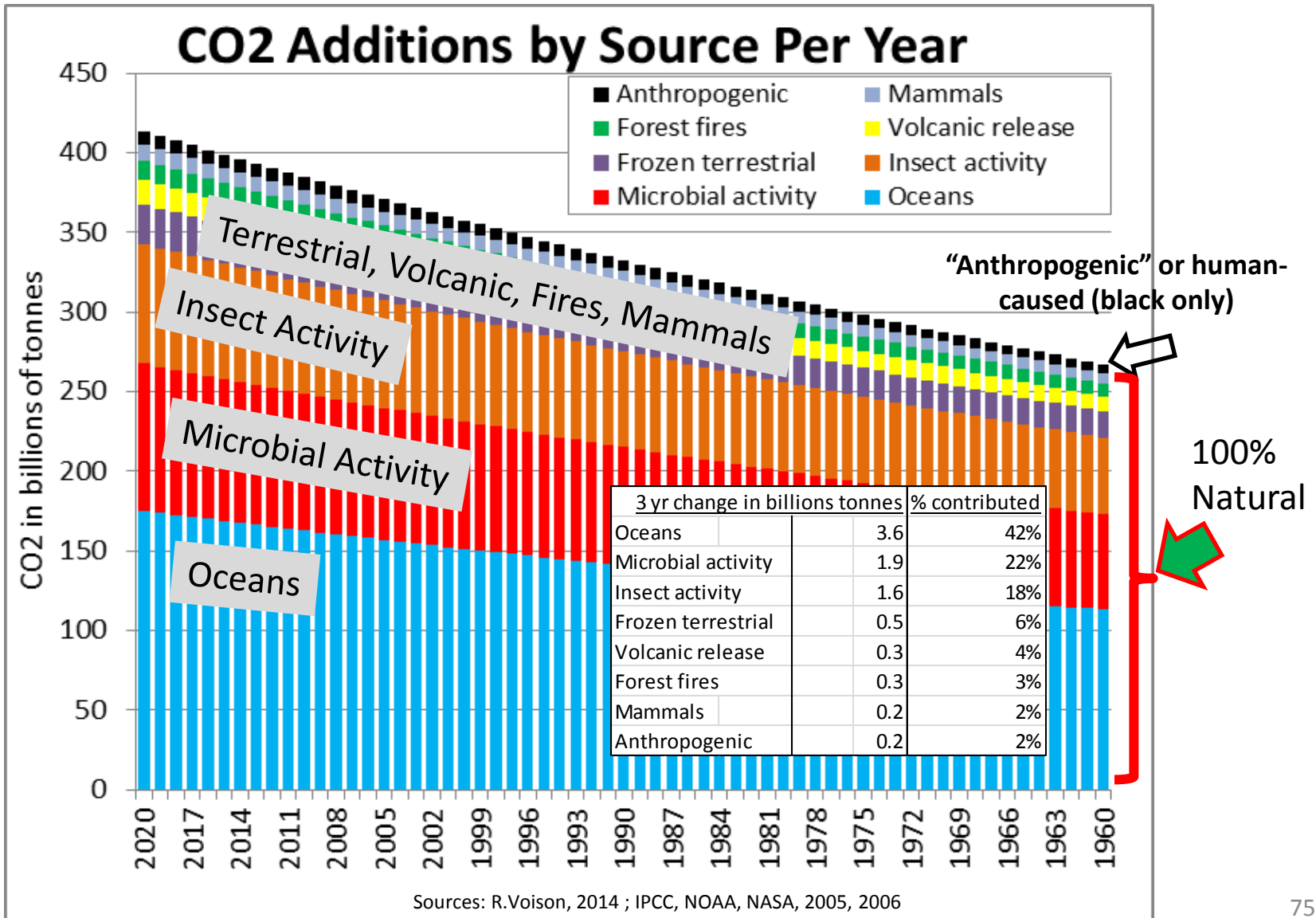
1. Plant Weight Response to CO2 Increase

(average 49.6% response for 300 ppm increase)



And Deceived Again

The CO2 Deception -- 98% of CO2 is Natural

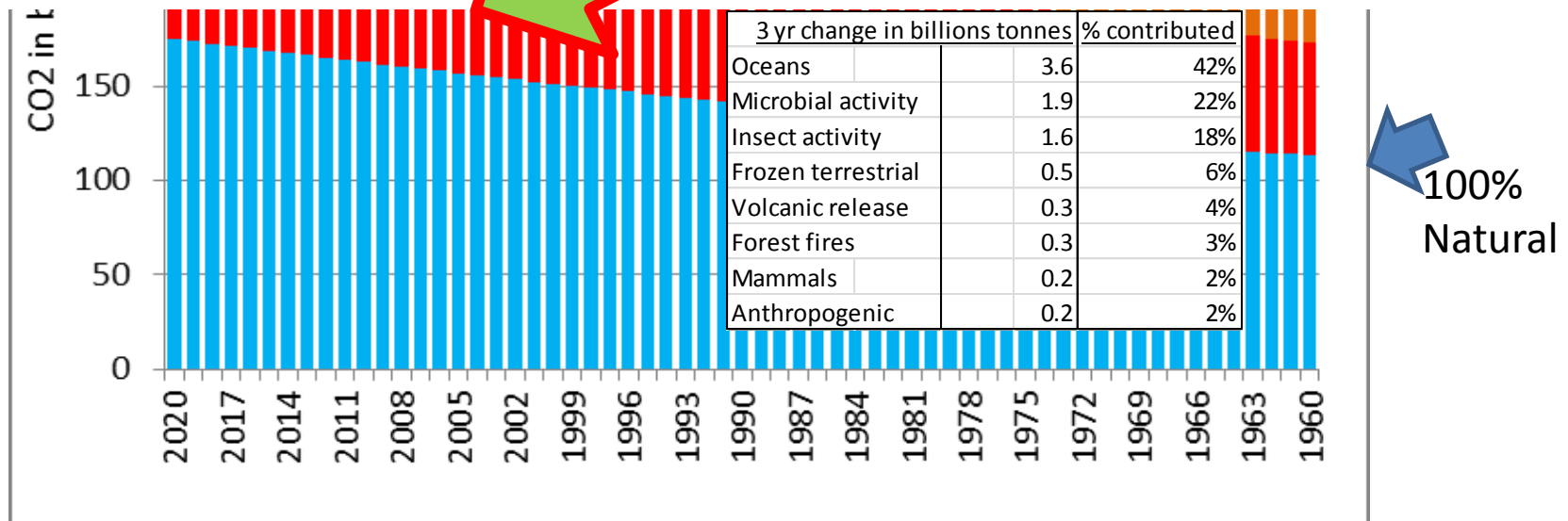


WHAT THEY HAVEN'T TOLD YOU – 33

CO2 today is near a deficit level

Life, as we know, ceases if...

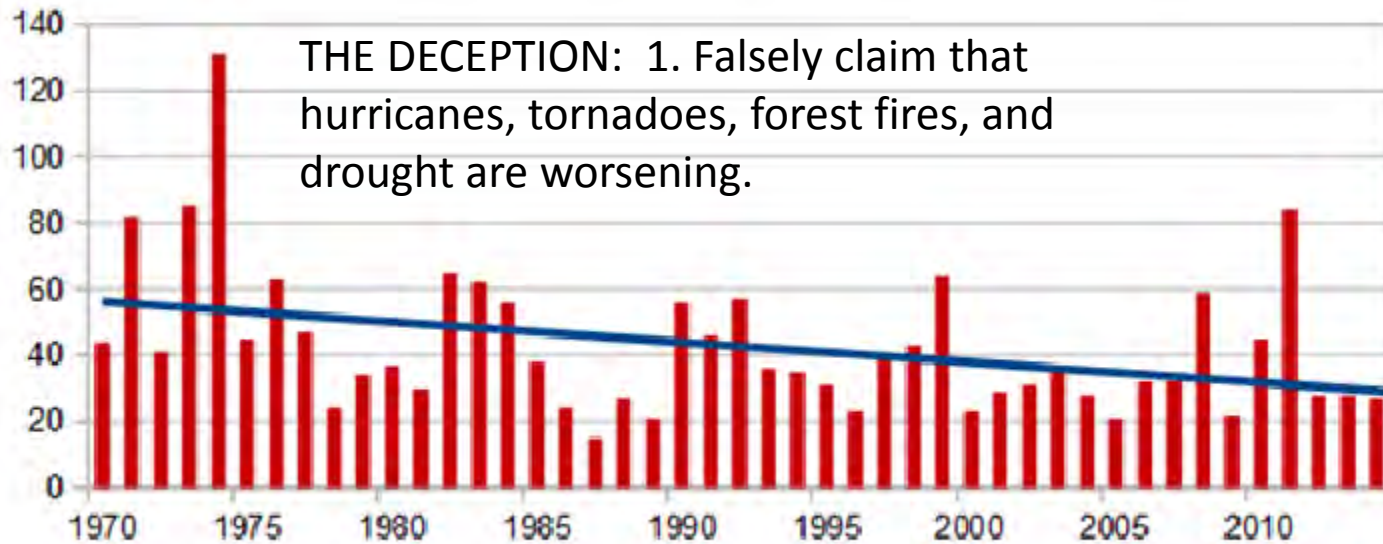
..if CO2 falls below this level (180 ppm)...all organisms that depend on plants would also die



Fire, Drought, Storm Risk Down

Tornado Frequency Deceasing

Annual Count of US Tomadoes EF-3 and Stronger
1970 to 2014



Wildfire Risk Decrease for 250 Years

Historic Wild Fire Occurrence in Southwest U.S. 1700 - 1990

Wild fires were far larger and far more frequent between 1700 and 1900 than today.
Modern fires burn less than one-fourth of the land that had burned historically.

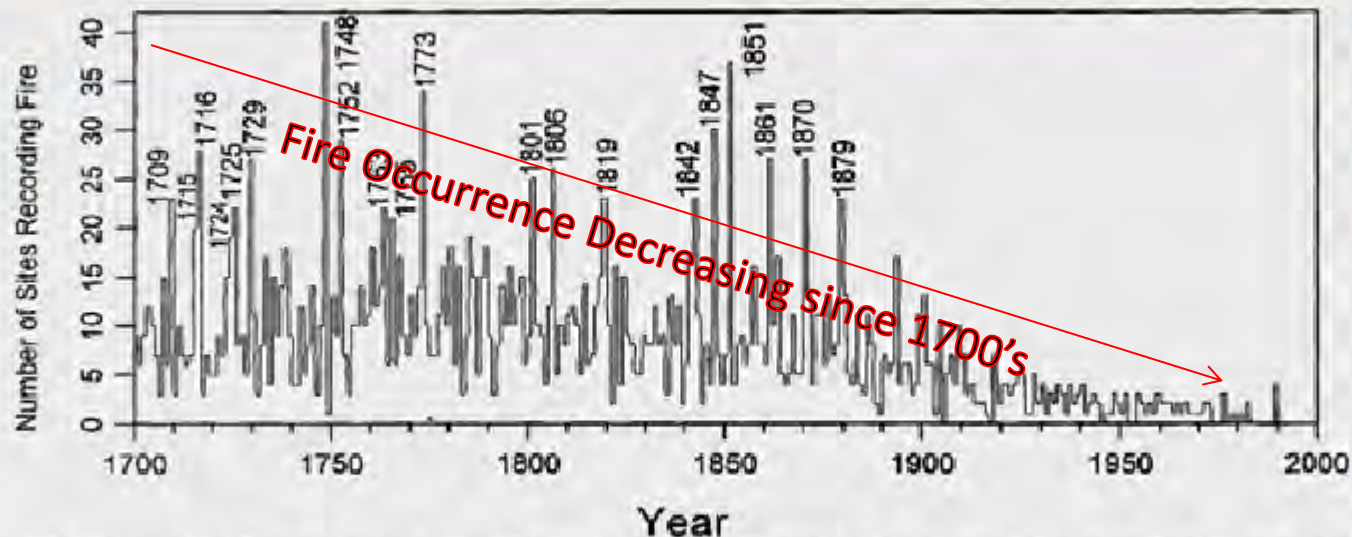


Figure 5. Regional fire occurrence time series from a network of 63 fire history sites in the Southwestern U.S. The largest 20 fire years are listed, based on the maximum numbers of sites recording these years.

2. Swetnam, T. W.; Baisan, C. H. 1996. Historical fire regime patterns in the Southwestern United States since AD 1700