

AVISTA CORP. SALE TO HYDRO ONE ENDANGERS AVISTA CUSTOMERS, ECONOMY, & BUSINESS LIVELIHOODS IN ITS SERVICE TERRITORY:

The Untold Story – Why It’s Wrong for Avista – Key Insights and Questions¹

Canadian utilities are buying up U.S. utility companies with hydroelectric dams for only one reason: To cap-and-trade away (sell) those hydroelectric megawatts (such as Avista Corp’s 13 hydroelectric dams near Spokane and Juneau) to rescue Canada from climate change and belief in the bogus claim that Al Gore’s and Barack Obama’s climate catastrophe will envelope the world.

What Happens After Hydro One Takes Control?

Hydro One covetsⁱ Avista’s 931 megawatts of hydro-electric assets because *it must pawn these resources on the Cap-and-Trade climate marketplace*, such as the Chicago Climate Exchange founded by Al Goreⁱⁱ and Barack Obamaⁱⁱⁱ by claiming the clean energy credit to satisfy Canada’s 2020 climate deadline, the first of three. Under Canada law, Canada must reduce its greenhouse gas emissions by 15% below its 1990 emission level. Much deeper emission cuts come in the future. *If Avista becomes Hydro One residential electric rates could grow five-fold to match Hydro One’s Ontario customers, from 7.5 cents/kwhr to more than 40 cents/kwhr.*

Considering this outrageous agreement raises several questions:

- Who will ultimately own and what will be the fate of the 13 hydroelectric dams once Hydro One sells the dams on the Cap-and-Trade market?
- Why is Avista agreeing to sell when the U.S. will exit the Paris Climate Agreement and the Obama Clean Power Plan?
- Why should more than century-old Avista Corp. sell out to a 2-year old Canadian electric utility company that must answer to Ontario’s Premier, is majority owned by the Province of Ontario and subject to Ontario’s climate deadlines?
- Will Avista’s hydro-electric dams be purchased multiple times on paid by Avista customers to satisfy ever increasing demands by Ontario to reduce its emissions by a further 37% in 2030, another 80% in 2050 below its 1990 levels.
- How much will rates soar for former Avista customers for electricity that currently is the lowest in the United States after the Hydro One purchase?
- Will Avista once they become HydroOne customers be subject to the 149% price increases experienced by its customers in Ontario?
- Ontario’s Consumer Policy Institute gives several reasons to oppose any Cap-and-Trade proposal:^{iv} It won’t reduce emissions; it’s another corporate welfare system lacking advantages; its susceptible to fraud and political manipulation; cap-and-trading assets removes local control; it will only worsen energy prices that are already soaring; skyrocketing electricity prices are pushing households into energy poverty, causing business to shut and cap-and-trade ensures that trend continues.

¹ Briefly summarizes a longer report that reveals the details, deal motives, and predicts the future of Avista customers should this transaction close. For a complete report (includes Summary, References, PowerPoint slides, and Transcript to Ppt slides) send request to David Boleneus at boleneus@gmail.com Mr. Boleneus is an Avista customer, a geologist, and local business person.

- Who can afford to pay these outrageous prices for electricity caused by Cap-and-Trade which does not represent a market solution^v?
- Will former Avista customers be subject to electric rate forecasts based on emission reduction targets expected to increase by 180%, 520% and 1,230% by 2020, 2030, and 2050 respectively based on Ontario's climate laws^{vii}?
- Will the Avista Corp. service territory become *New Ontario* once Hydro One owns it?
- After selling Avista's hydro-electric capacity by Cap-and-Trade why is it that Hydro One is free to increase its emissions unabated yet former Avista customers are subject to continued price increases of the electricity from Cap-and-Trade?
- What are the advantages for and future of former Avista customers in the Avista sale to sell out to an infant Canadian firm whose bankruptcy risk currently stands at 43%?
- Is Ontario now pursuing to claim under false pretense U.S. hydro "clean energy" assets after realizing that overbuilding of thousands of wind turbines around Ontario's shores of three Great Lakes cannot alone diminish Canada's greenhouse gas emissions?

Hydro One's Electric Rates are highest in North America Due to Sweetheart Deals

HYDRO ONE has the highest priced electric rates in North America and AVISTA CORP. is one of the lowest priced electric providers in North America, and offers rates well below the average rate for the State of Washington. Canadian's purchased \$28.8 billion in utility assets in the U.S. in 2016^{viii} after the 2015 Canada's climate law unveiling.

Ontario Electric Rates So High Customers Can't Pay

Ontario's electric rates have increased 107% on average in the last ten years with off-peak rates increasing 149% in the same period^{ix}. Ontario electric customers cite the outrageous price increases that are killing or crippling small business, forcing families into poverty, revealing seniors and fixed income customers cannot afford the power bills and businesses are closing^x and another customer says her monthly electric bill for a travel trailer was \$800 per month and the utility cuts off power to customers who don't pay^{xii}.

ⁱ Purchase price \$6.7 billion

ⁱⁱ Al Gore and key figures in Gore's Generation Investment Corp. were members of the Chicago Climate Exchange board of directors when startup capital was received from Obama's Joyce Foundation. Gore in 2010 sold his 2% share of the CCX for \$18 million. http://icecap.us/index.php/go/joes-blog/carbon_trade_ends_on_quiet_death_of_chicago_climate_exchange

ⁱⁱⁱ Sen. Barack Obama was a board member of the Joyce Foundation when it provided \$1 million of startup capital to the Chicago Climate Exchange.

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

^v Cap and Trade is not a market solution. <https://instituteeforenergyresearch.org/topics/policy/cap-trade/>

^{vi} Green Energy Act of 2009 in Ontario

^{vii} Climate Action Plan of 2015, www.applications.ene.gov.on.ca/ccap/products/CCAP_ENGLISH.pdf

^{viii} Why Canadians are buying up U.S. utility companies ..

<https://www.forbes.com/sites/mergermarket/2016/02/25/why-canadians-are-winning-the-utility-deals/#579ac8926944>

^{ix} Ontario electricity rates fastest rising in North America, Posted on March 1, 2016 by Other News

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^x You Tube at <https://youtu.be/1w5dRIzyY7g>

^{xi} <http://www.torontosun.com/2015/04/23/hydro-rates-crippling-small-business-owner-says>

^{xii} Outrage grows over rising electric rates in Ontario You tube at <https://youtu.be/5IYT8MDsrp0>

Avista Corp.'s July 2017 Announced Acquisition by Hydro One Ltd. (Ontario)

CONCLUSIONS: *Why it's a terrible idea. What's the impact on Avista Customers?*¹

This is what is happening? Avista Corp., an electric and natural utility based in Spokane, with 374,000 customers in four states, formerly known as Washington Water Power Co. has agreed to be acquired by Hydro One of Toronto, Ontario, Canada. The sale price is \$6.7 billion in cash. Hydro One is a two year old company re-organized from Ontario Hydro and will control decision-making. What's wrong with this deal? Hydro One is 70% owned by the Province of Ontario and owes fiduciary duty to Ontario's Premier Kathleen Wynne who is under fire for selling out Ontario's once-public utility and ignoring soaring electric cost. Hydro One's rates are the highest in North America while Avista's rates are nearly the lowest. Furthermore, Hydro One covets Avista's 931 MW in 13 hydro dams as a contrivance to honor Ontario's Green Energy Act and its Climate Change Action Plan requiring closing the finest coal-fired electric generating fleet on the continent and re-tooling power with low-carbon energy, principally wind turbines to stop greenhouse gas emissions. But the wind turbines have been a disaster, unable to provide full time electricity, dotting the shores of three Great Lakes with thousands of wind monsters and the deals made with wind generator companies, 82% to foreign companies, lock in 20 year contracts at excessive rates five times the electricity market for wind and ten times the market for solar.

- **Avista customers are...**Powerless to the willing sacrifice of a going concern and reliable hydroelectric power (Avista Corp.) subject to...
 - Hydro Ones' and Ontario's fairy tale mandated by its perverse Climate Change Action Plan of 2015 (CCAP), a legacy of socialist Maurice Strong
 - A legacy of a high school dropout, Maurice Strong, a UN insider, godfather of global environmentalism, a man that has caused Ontarians to suffer a lingering legacy of his false energy plan, a man Elaine Dewar devotes to two chapters in her book "Cloak of Green" describes as 'creating false climate science of climate change caused by humans CO2 with intent to sell a Global Governance Agenda'², called Father of America's Destruction³, UN Environment Programme organizer, Rio 1992 Climate Summit and Kyoto Protocol U.N. General Secretary, who pledged the collapse of industrialized civilizations, George Soros cohort, mentor to Barack Obama, Al Gore, and David Suzuki who cash in on the Chicago Climate Exchange IPO to trade carbon, and the *Oz Wizard* behind the green curtain.
- **If the deal is completed, Avista and its customers will...**
 - Not benefit
 - Pay \$billions to battle Ontario's CCAP, a destructive and wicked yet invisible and non-existent *demon*
 - Face electric rates spiral due to predictable Hydro One bankruptcy and an uncertain future
- **Hydro One**
 - **Is a two-year-old Crown Corporation, 70% owned by Ontario's Provincial Government**
 - Answers to Ontario's Energy Ministry, honors Ontario's Premier
 - Has a primary purpose to provide income to Province treasury
- **Deal for Avista: At \$53/share or \$6.7 B paid by \$1.4 B conv. deb., \$1.4 B stock, & \$2.6 B corp. debt –**
 - Represents **a pittance compared to enormous risks**
 - *Does not represent a premium price for a prize for century-old electric utility company*
 - *Will be easily paid off by rate payers within one year*
- **Avista deal represents**
 - **A 1,039 MW hydropower giveaway to impure motives of**
 - Prized hydroelectric resources consisting of Avista Utilities, and a Juneau, Alaska area utility company, 13 hydro dams, and 1 wind farm
 - Devoted customers
- **Avista risks**
 - **Customer electric rates increasing 350% to match current Hydro One electric rates**
 - Rates soaring from the lowest rate (\$0.078/kwhr) to highest rate (C\$0.18 to C\$0.299/kwhr) in North America
 - Subject to Hydro One's Global Adjustment Charge on customer billings that represent...

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² Maurice Strong is dead but the damage he did will carry on, TIM BALL, https://www.therebel.media/MAURICE_STRONG_IS_DEAD

³ Richard Salbato 12-29-09 <http://www.unitypublishing.com/Government/Maurice%20Strong.htm>

- Exorbitant costs of above-market-price of electricity to fund the inflated cost of issuing generous contracts to generators, the cost of baseload hydro, building new cogeneration plants and new renewable systems, conservation systems that cannot pass muster, and retiring of coal plants that represented the best coal-sourced electricity system on the continent
 - Customers subjected to rate increases in line with 149% rates increases of Hydro One’s 10-year history, with rates increasing 25% in the last year, 2016
 - Customers subject to Hydro One mismanagement, cost-overruns and illusionary “green” policies
 - Losing reliable, safe thermal power provided by **Colstrip 3&4 units**
 - Maintenance shortfalls, power outages that last longer (Hydro One’s history)
- **Hydro One**
 - Will convert Avista customers to Cap & Trade, taxation of carbon ratepayers, subjecting them to Ontario’s 2015 Climate Change Action Plan (CCAP)
 - Operates as a monopoly
 - Is unresponsive to customers’ complaints that “electric rates are unaffordable”
 - Pays premiums to renewable providers and electric generators
 - Pays generators not to produce power while giving them priority access to the electric grid
 - Pays neighbor’s to take surplus electricity
 - Is inefficient and charges ratepayers more money for systems in decline
 - Games the Ontario Energy Board to increase its budgets claiming power systems are in decline
- **Ontario’s Climate Change Action Plan (CCAP), a Maurice Strong legacy, represents**
 - “Climate thought police”
 - A goal to destroy capitalism
 - The greatest hoax upon mankind, one of double dealing, illusionary, and delusional
 - Ignorance that U.S. and 18 countries exited Paris Climate Agreement, *including Canada*
 - Ignorance that the US will nullify the Obama EPA’s Clean Power Plan, a plan to bankrupt America
- **Ontario’s CCAP’s Cap and Trade (C&T) and Carbon Tax...**
 - Are not virtuous, as claimed, but are a deception, a lie
 - **Requires Avista’s hydro be sacrificed** to satisfy Hydro One’s 2020 target under Ont. CCAP
 - **Requires Avista customers exposure to forecast costs of C&T and Carbon taxation for:**
 - Carbon tax at \$1931/tonne by 2050
 - Energy cost (electricity) at \$1316/month by 2050 while **Avista customers are also exposed to..**
 - Initiative 937 (2008), Washington’s Renewable Portfolio Standard (RFS)
 - Inslee’s “hoped-for” Carbon taxes in Washington (HB 1314)
- **Cap and Trade does not work because it...**
 - Is a European scheme that **forces customers to restrict use due solely to bureaucratic fiat**
 - **Compels customers to pay high electric costs** under false pretenses they are reducing emissions and by doing so will avoid an environmental calamity
 - **Increases** energy prices, although not due to scarcity or expense
 - **Does not** reduce emissions but **Harms** energy security
 - Causes **economic hardship** on families, jobs, and industry but **Does not impact climate**
 - Reinforces the **hoax** of climate change and is susceptible to **fraud and manipulation**
 - **Adds transaction and administrative costs** yet provides no benefit
- **Taxing carbon dioxide**
 - Is **regressive, wasteful, a chameleon tax**
 - **Taxes air**
 - **Risks economic** stability
 - Has no effect upon climate
- **Battling climate change to fulfill Ontario’s CCAP is:**
 - Silliness, Wasteful, Propaganda, a monument to gullible generations because **Carbon Dioxide (CO2)...**
 - Does not control temperature
 - Cannot cause climate change because anthropogenic global warming (AGW) is unproven—because 98% of CO2 comes from natural sources, is uncontrollable, and cannot and does not affect temperature
 - Sourced from humans is irrelevant, because the purpose of Cap & Trade is not to reduce emissions
 - Will never be uncontrolled under Ontario’s CCAP (because 98% of CO2 is NATURALLY-sourced)
- **Reliance on renewable energy**
 - Is proven an inefficient source of electricity in UK, Spain, Australia, Denmark, US, and Germany where it is cause of economic hardship while threatening of countries’ economies
 - Requires government monetary support to survive while risking the reliability of the power grid

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Who else is exiting the Paris Agreement, <https://www.youtube.com/watch?v=fQdlcWd45k4>, <https://wattsupwiththat.com/2017/05/30/east-european-states-mount-revolt-against-paris-agreement/>, http://www.americanthinker.com/blog/2017/07/the_avalanche_begins_turkey_dumps_paris_accord_following_us.html

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&>

Why are Ontarios hydro bills soaring?, Posted on July 8, 2016 by consumerpolicyinstitute <https://ep.probeinternational.org/2016/07/08/why-are-ontarios-hydro-bills-soaring/>

Yes Ontario's Liberals can cancel their terrible renewable power contracts --and they should do it now September 20, 2016 by Lawrence Solomon , <https://ep.probeinternational.org/2016/09/20/lawrence-solomon-yes-ontarios-liberals-can-cancel-their-terrible-renewable-power-contracts-and-they-should-do-it-now/>

Avista Corp.'s July 2017 Announced
Acquisition by Hydro One Ltd.
(Ontario, Canada):

***What does it mean for our
region?***

What Comes Afterward?

What's Not Revealed?

What's in the Future for Avista Customers?

Are Avista Customers' Well-served, Protected?

"Republican Coffee Club

*By David Boleneus, geologist, business owner, wheat grower
boleneus@gmail.com*

OUTLINE

- Avista announcement with Hydro One's (Ontario) sale terms – July 2017
- KEY DISCUSSION:
 - WHAT'S NOT IN NEWS RELEASES
 - WHAT BURDENS HYDRO ONE
- Electricity Costs
 - Washington and Avista
 - Hydro One & Ontario
 - “Corp. Welfare Goes Green”
- 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
- Benefits of Carbon (CO2)
 - Definitive Proof: Climate not controlled by CO2
- Ontario's Climate Action Plan (2016) & Green Energy Act (2009)
 - 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)
 - Wind energy engrained in Hydro One's “gray matter”
 - Canada, UK, Australia, Europe
 - Washington-Oregon (BPA)
 - Reliability, Cost
 - Must address renewable (wind turbines) because:
 - The Province of Ontario is so convinced of the danger of climate and CO2 emissions
 - Taken extraordinary actions against CO2
 - Already causing extreme hardship on its population.
- Battling Climate (ending carbon, because climate damage, cap and trade, switch to renewables)
 - Paris Climate Agreement
 - Taxing carbon (i.e. CO2)
 - Gov. Inslee's Plan; Western Climate Initiative
 - Canadian policy Canada-wide
- Impacts on Avista

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

Electric Firms in Ontario

- ❑ For much of the 20th century, most of the province's electricity generation and transmission were overseen by a single government agency with the snappy name of **Hydro-Electric Power Commission of Ontario (better known by its 1970s rebranding as Ontario Hydro)**. In 1999, the Progressive Conservative government of Mike Harris broke Ontario Hydro into **Ontario Power Generation, Hydro One** and guided by Ontario Energy Board as part of a plan 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.
- ❑ **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.

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



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

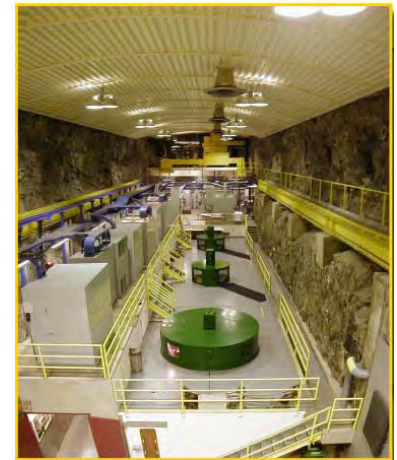


Nine Mile Dam

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

Missing Avista Facilities:

1. Long Lake Dam
2. Little Falls Dam

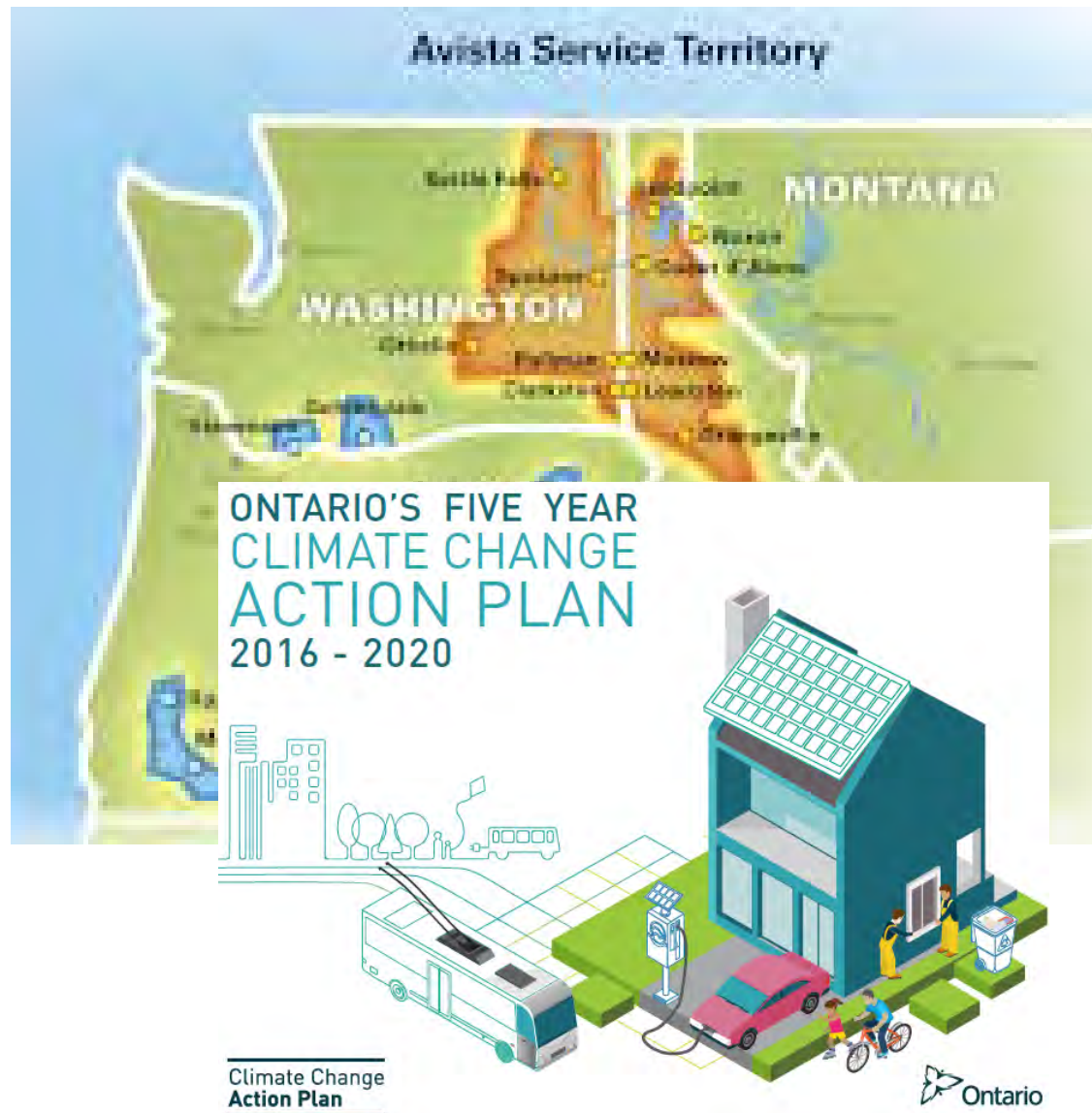


* Equals 9 million MW hours per year

..Covets Avista: ?????



..Covets Avista: The Rest of the Story



..Covets Avista: The Rest of the Story



History, Actors



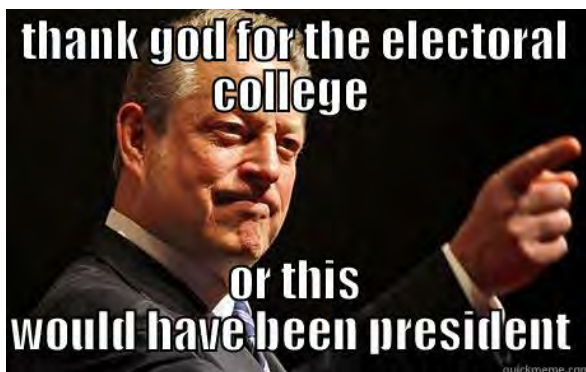


Maurice Frederick Strong

PC, CC, OM, FRSC, FRAIC



Al Gore (January 25, 2006) : '10 years to save the planet' and 'point of no return' planetary emergency deadline





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



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

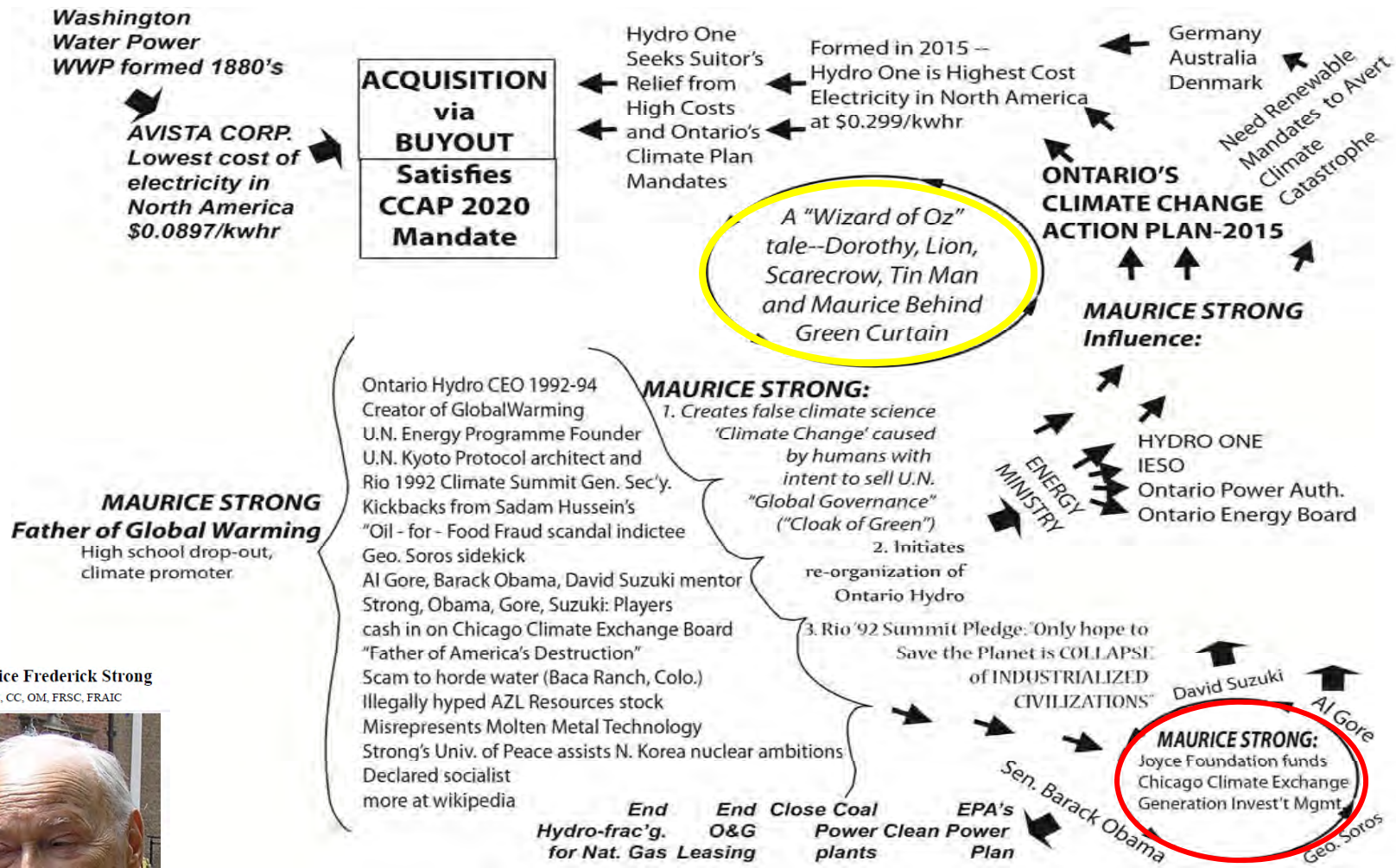
- Senior advisor to Kofi Annan, U.N. Secretary-General who chaired the gigantic (40,000 participants) "U.N. Conference on Environment and Development" in **Rio de Janeiro in 1992**, who was responsible for putting together the **Kyoto Protocol** with thousands of bureaucrats, diplomats, and politicians..
- **.. 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-score-tool-to-destroy-capitalism.htm>

Climate Legacy

ty as



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>
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.”

These “so-called Experts” don’t know..

1. What evidence supports climate change
2. What climate change is



Global warming is a Blatant Lie & this Short video proves it

President of Sierra Club
needs to read from his notes

<https://www.youtube.com/watch?v=Sl9-tY1oZNw>
<https://www.youtube.com/watch?v=VzCXwF39enc&t=365s>



Global Warming Fraud - Lord Christopher Monckton Before U S Congress

A congressman from Washington State
<https://www.youtube.com/watch?v=2cssne9Q5KM&t=2s>

In stating his case “against climate change for clean energy”
Inslee’s Chapter 1 contains 25 errors
proving he misunderstands

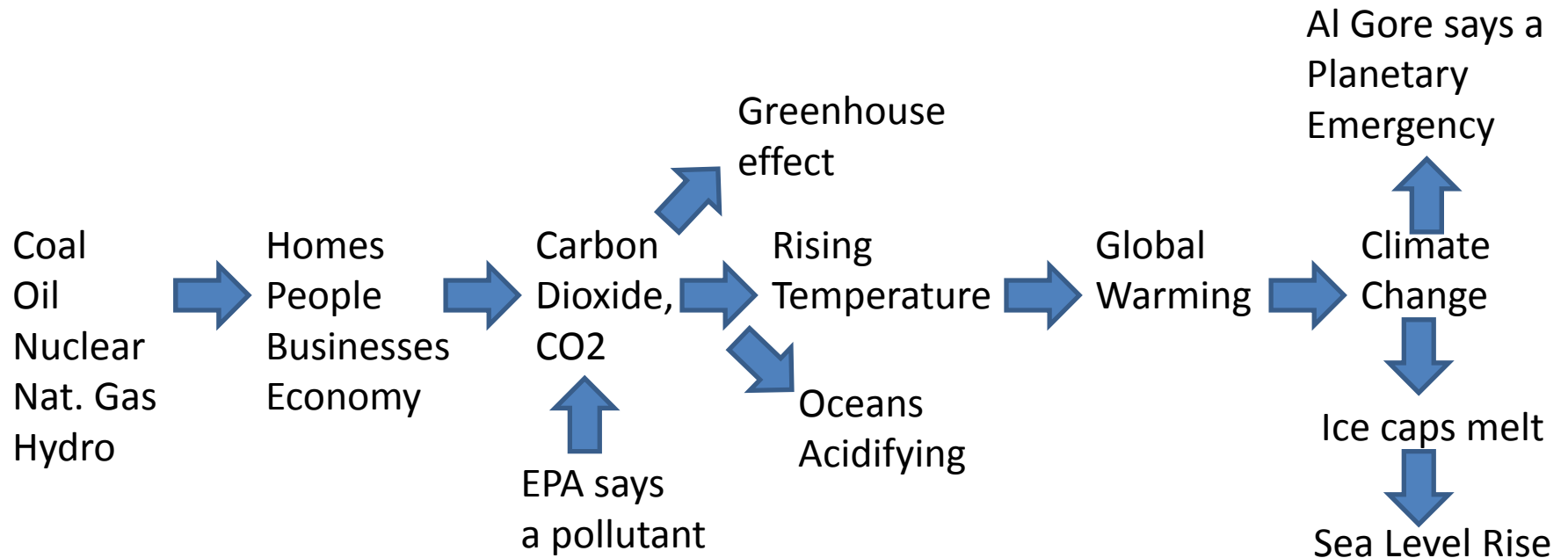
You can buy the book but Amazon charges....

\$1.29
+ \$3.96 shipping + \$0.00
estimated tax

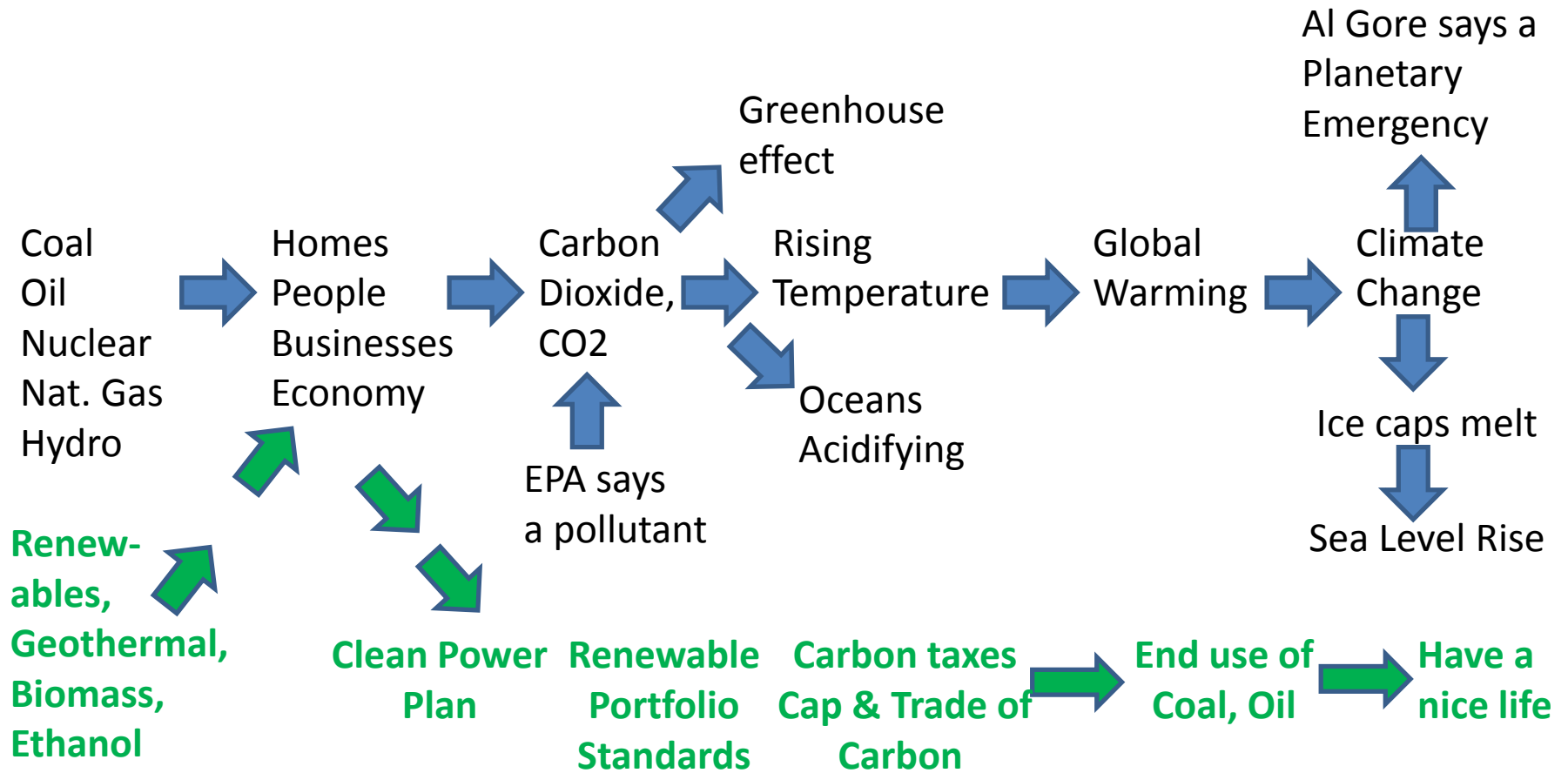
Used - Very Good

Support Your Planet. Buy CLEAN EARTH BOOKS.
Shipping orders swift... » [Read more](#)

Climate beliefs – Consensus

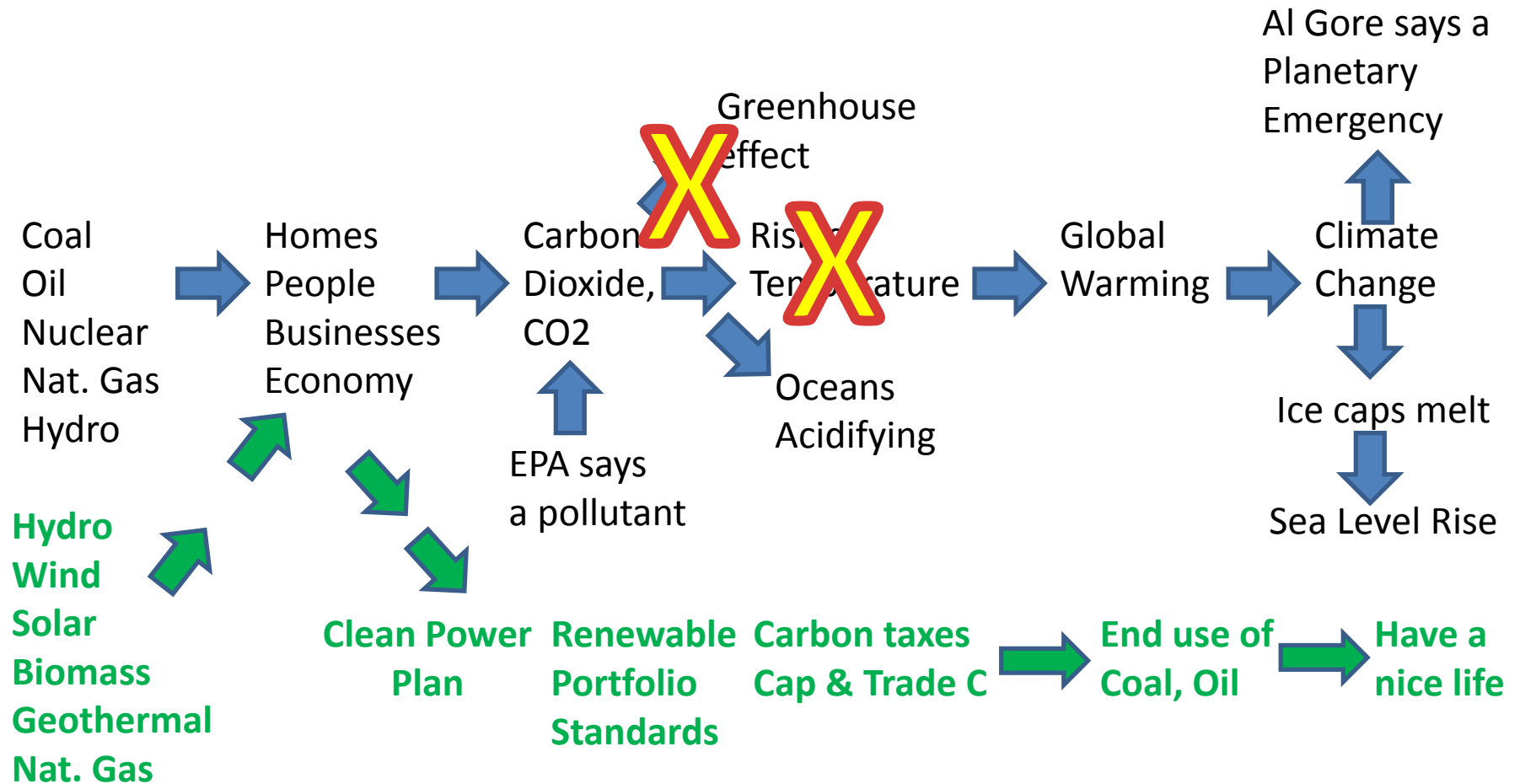


Climate - Myth

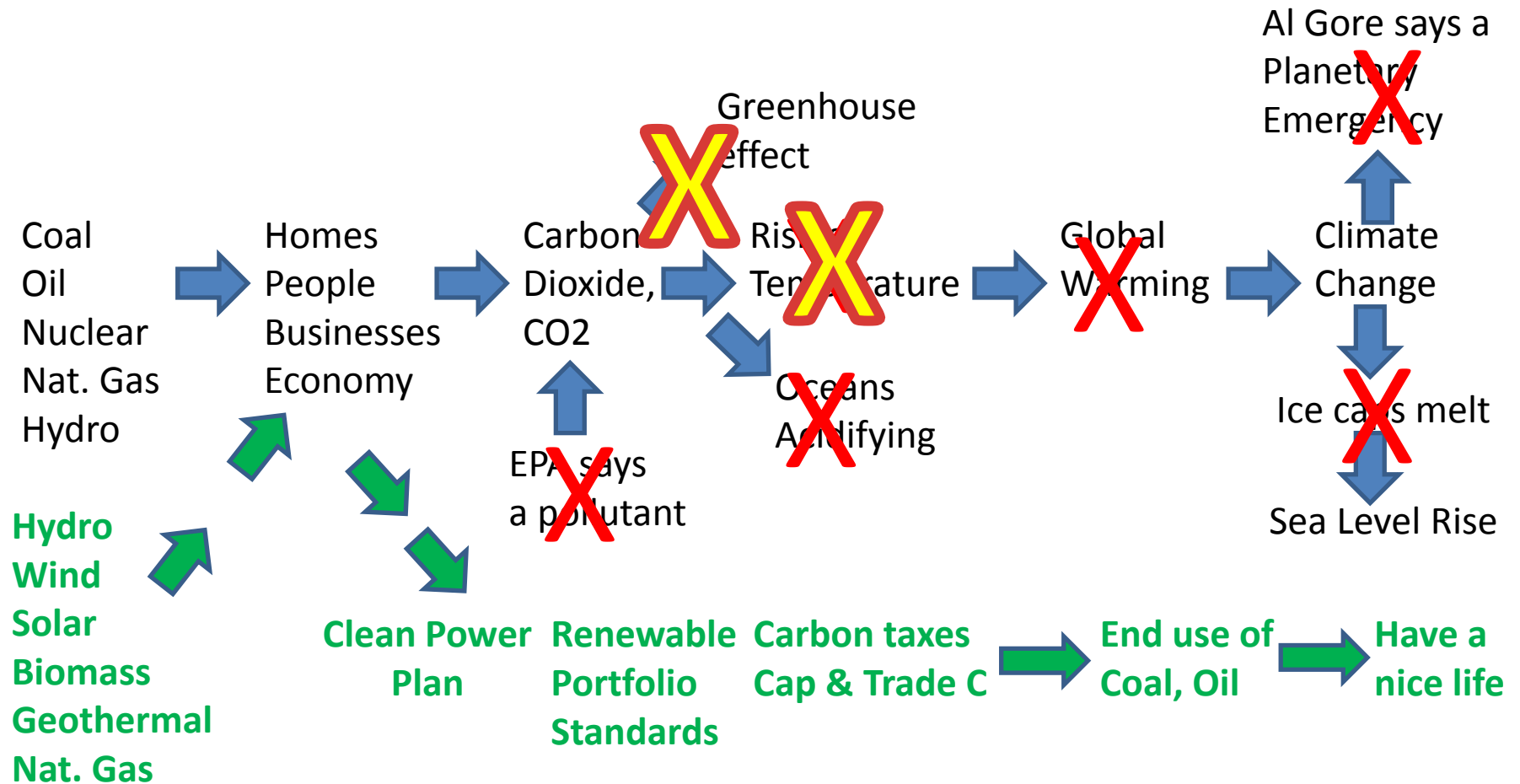


This is the so-called “Green Energy” Economy

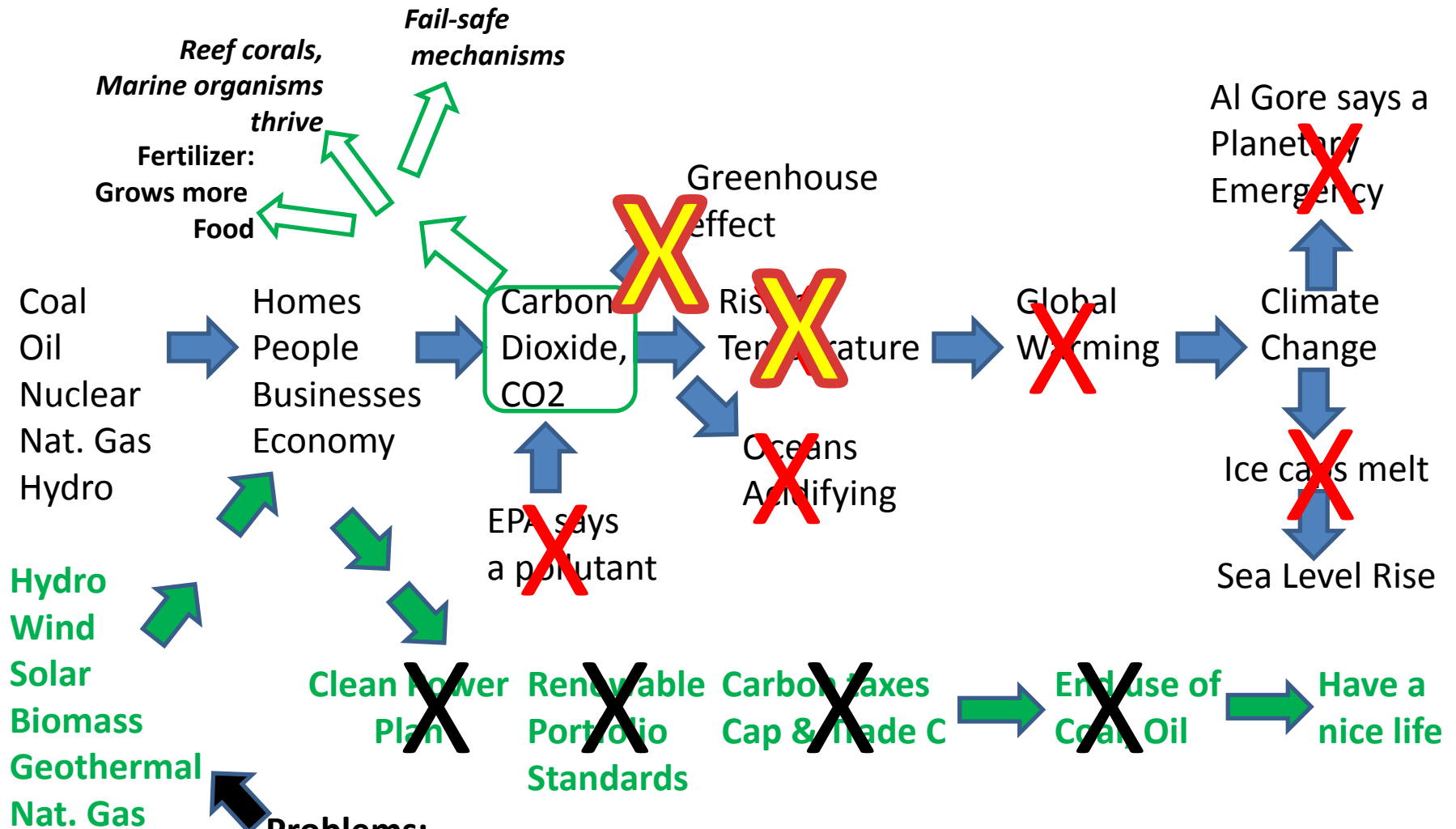
Climate – “Myth-busting”(1)



Climate – “Myth-busting”(1)



Myth of the Green Energy Economy



Problems:

\$176 B subsidies already paid

Renewables-only local success; abandoned when PTC expires after 10 years

No fuel options for: Transportation, farm operations

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

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

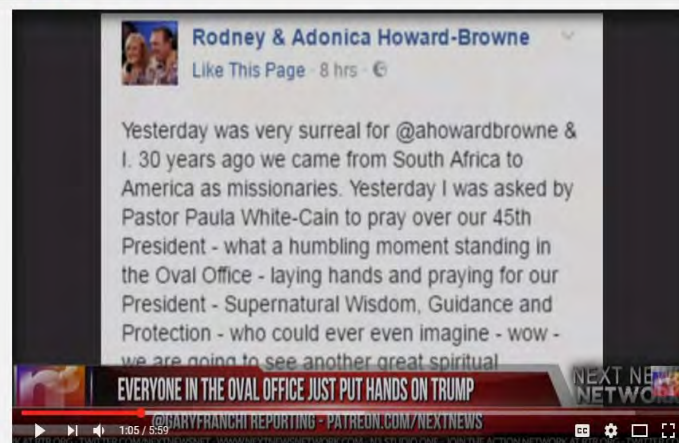


POWER PRAYER! EVERYONE IN THE OVAL OFFICE JUST PUT THEIR HANDS ON TRUMP, SUDDENLY A MIRACLE HAPPENED

The Next News Network
Subscribe 564K

93,496 views

YouTube Search



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

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/>

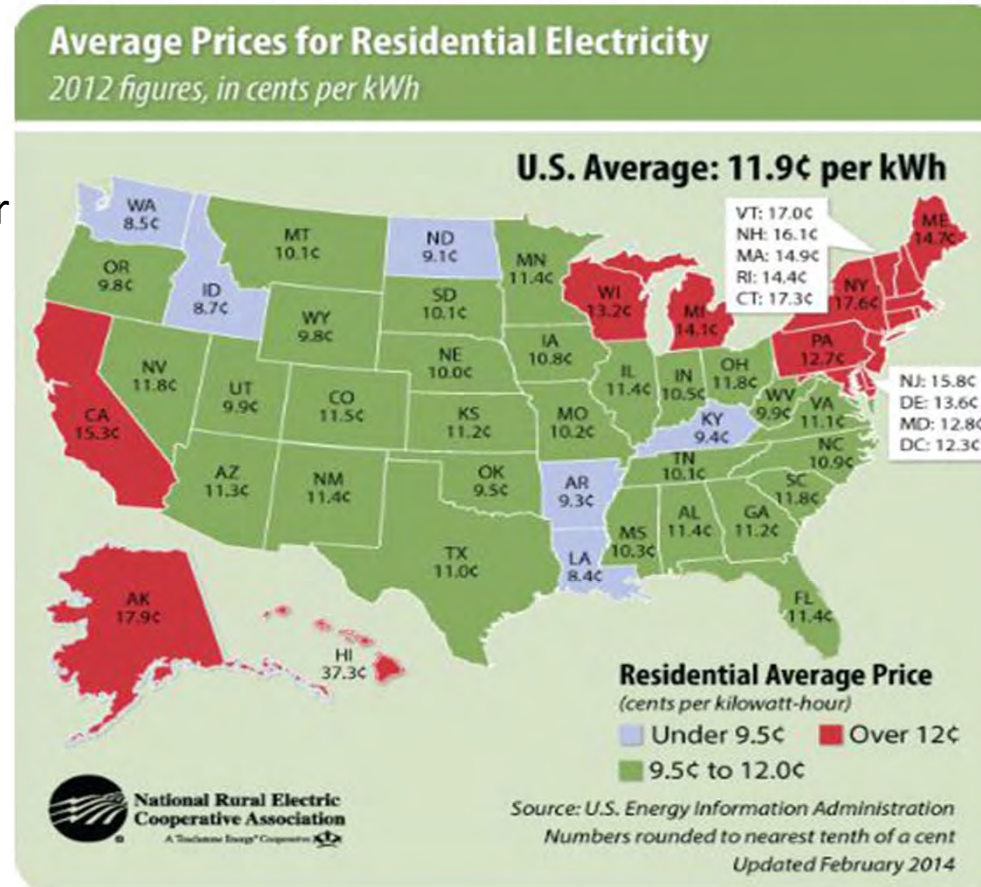
What is the Cost Experience?



Choices of Electrical Power

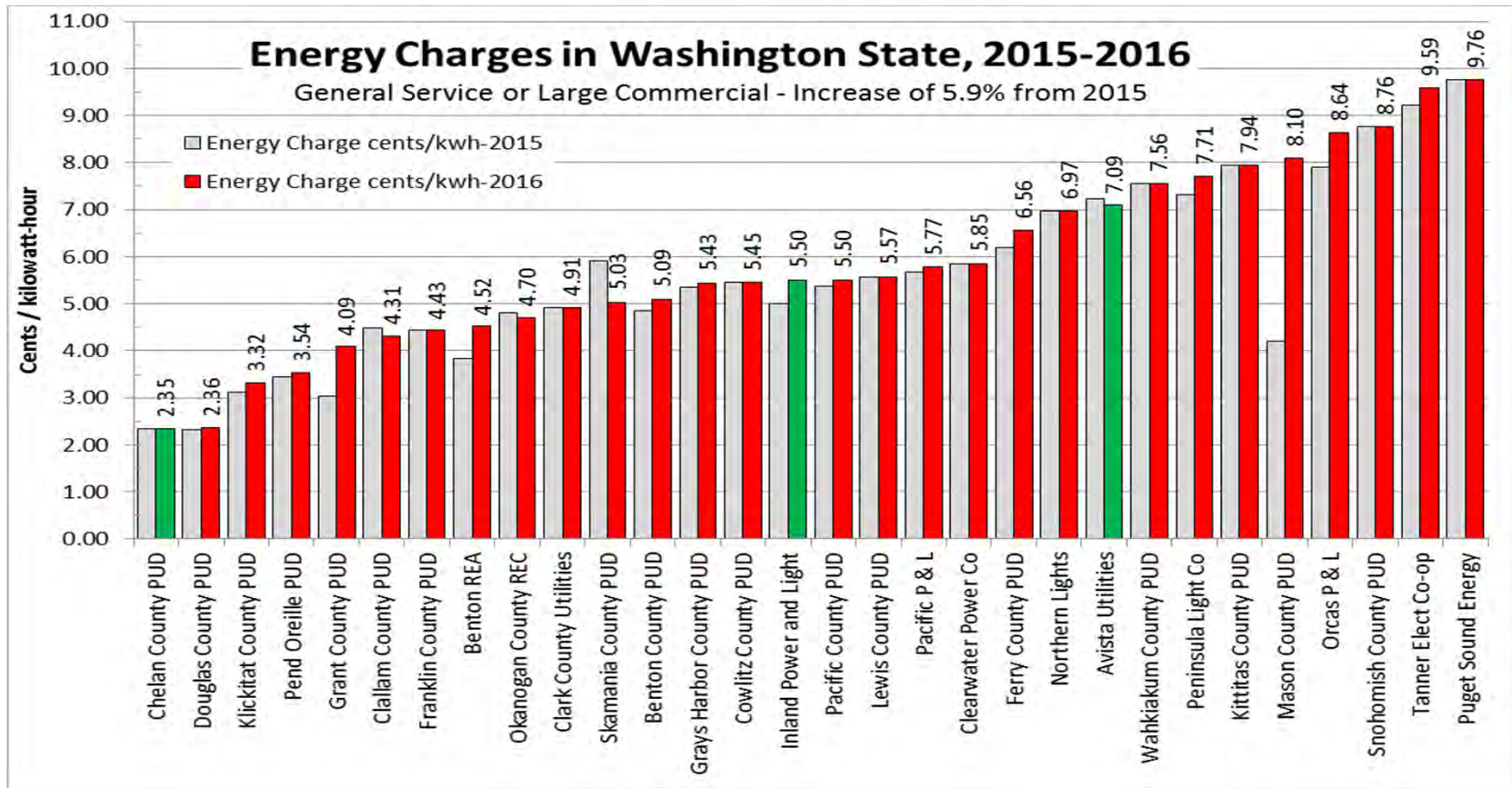
- This chart shows the power costs by state in 2014. Washington is lowest (blue states).

Avista rate
\$0.0789/kwhr



General service /large commercial power costs

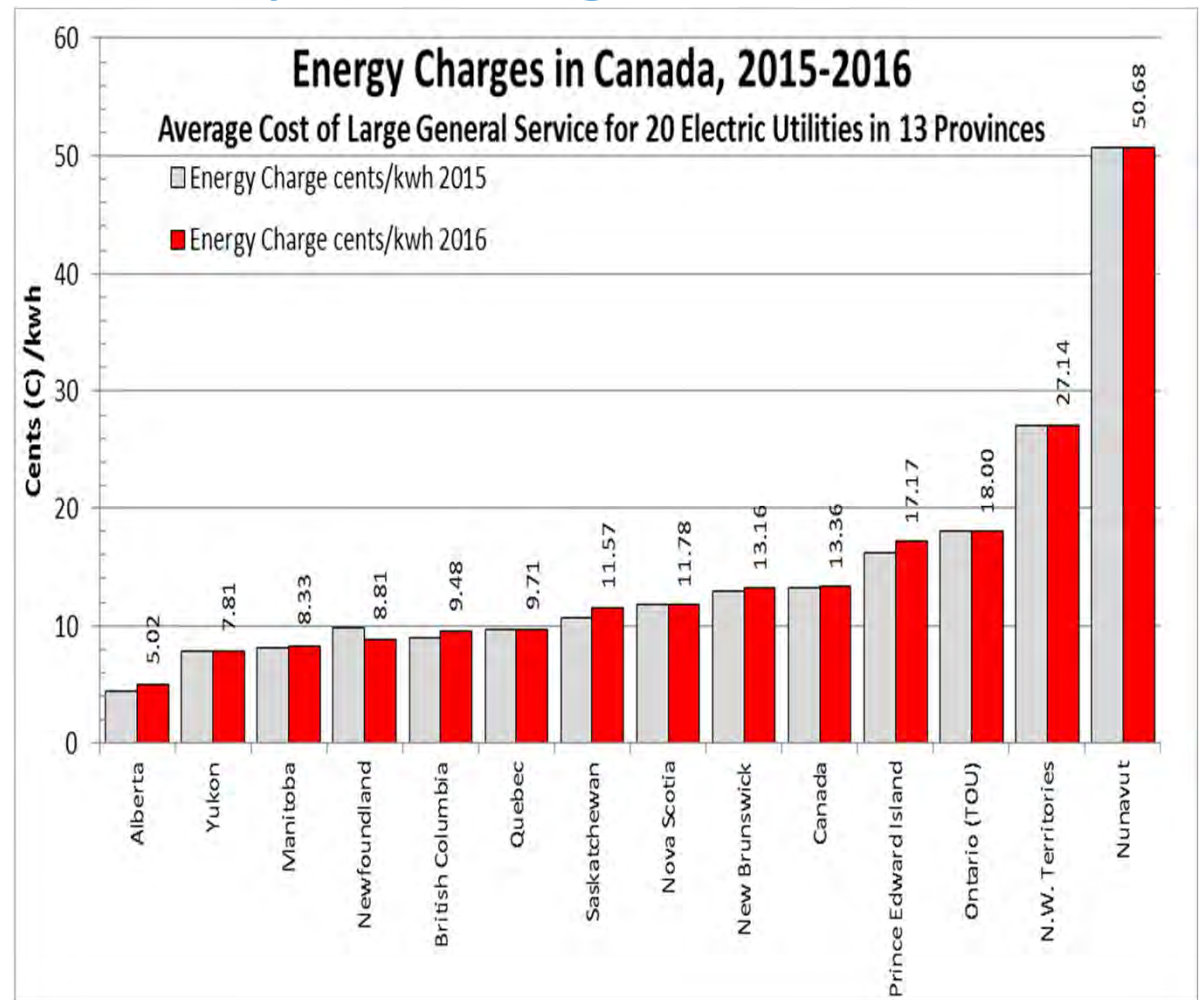
Data collected by author in 01- 2017



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

Electric billing detail

1. **Electric use** (chart)
2. **Fixed charges** (15-25% of billing): windfall
 - On a per kwhr basis: transmission, distribution, regulatory, debt retirement, sales tax, smart meter, rate rider, rebate (if any) & remote area costs
 - Office O/H's, and demand charges (\$/kw)
3. **Global Adjustment charge** (70% of billing)
 - Contract bonus: Difference between market value of electricity and what's promised in generous contracts to generators
 - Shutdown of coal plants, adding 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 December 4, 2015](https://ep.probeinternational.org/2015/12/04/top-10-takeaways-from-auditor-generals-report-on-ontarios-electricity-sector/) by [consumerpolicyinstitute](https://ep.probeinternational.org/2015/12/04/top-10-takeaways-from-auditor-generals-report-on-ontarios-electricity-sector/)

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

Ontario Electric Rates Increase, 2005-2016

Power rate increases

(Ontario-wide):

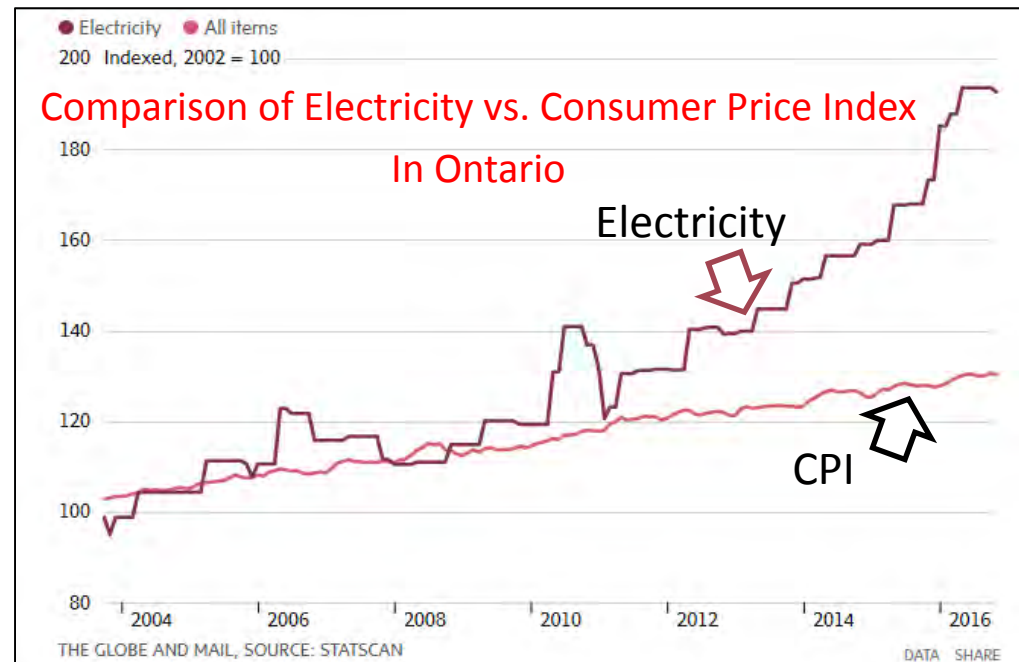
- **149%--Off-peak** electric rate increase in 10 years
3.5 cents to 8.7 cents/kwhr (Ontario Energy Board)
- **71%--On-peak** electric rates increased in 10 years
- **107 %--Average** increase in 9 years
- **25%--One year** rate increase in 2016
- **17.8%--Consumer Price** index increase over 10 years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

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:

- Hydro rates are killing small businesses
- Seniors are on fixed incomes and can't afford power bills
- The grocery store will close

<https://www.youtube.com/watch?v=1w5dRIzyY7g>

- 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=1w5dRlzyY7g>
- 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

👍 1 🗨️ 0 ➦ SHARE



ShadesofNorth CanUsa
Published on Oct 15, 2016

SUBSCRIBE 54

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.

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

A Maurice Strong “Legacy”



**Climate Change
Action Plan**

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 newspaper headlined, "Is this Green Energy Act Round Two?"



Ontario's Green Energy Act offered so-called "feed-in rates" almost four times existing electricity rates for wind and more than 10 times for solar power. Like bees to honey, wind and solar companies rushed in. By the time the government realized that these subsidies were driving Ontario from one of the lowest to one of the highest power cost jurisdictions in North America, the province had signed myriad 20-year-locked-in-rate-guaranteed contracts that will drive power rates up a further 40 per cent to 50 per cent in coming years. Adding salt to this self-inflicted wound is the reality that much of the green power comes on stream when it isn't needed. This unneeded electricity is dumped into the United States at bargain-basement prices that Ontario's Auditor-General found has already cost Ontario power consumers billions of dollars, with much bigger losses yet to come before those 20-year contracts expire. [Read article](#)

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 Wednesday. The legislation, which will allow the government to start selling off the Crown corporation on the stock market later this year, contains a raft of clauses that remove public oversight of the company.

The bill strips the provincial auditor-general, financial accountability officer, ombudsman and several other independent watchdogs of their right to investigate Hydro One and resolve customer complaints. It also bars freedom-of-information requests and shields Hydro One employees' salaries from the Sunshine List of provincial workers earning more than \$100,000.

These provisions all take effect as soon as the bill is signed into law – even though none of the shares may be sold for months and the government could remain the company's majority shareholder for years as it slowly sells down its stock. [Read article](#)

ONTARIO WIND RESISTANCE

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

Ontario Liberals are peddling Hydro One for the equivalent of a payday loan



National Post, Kelly McParland

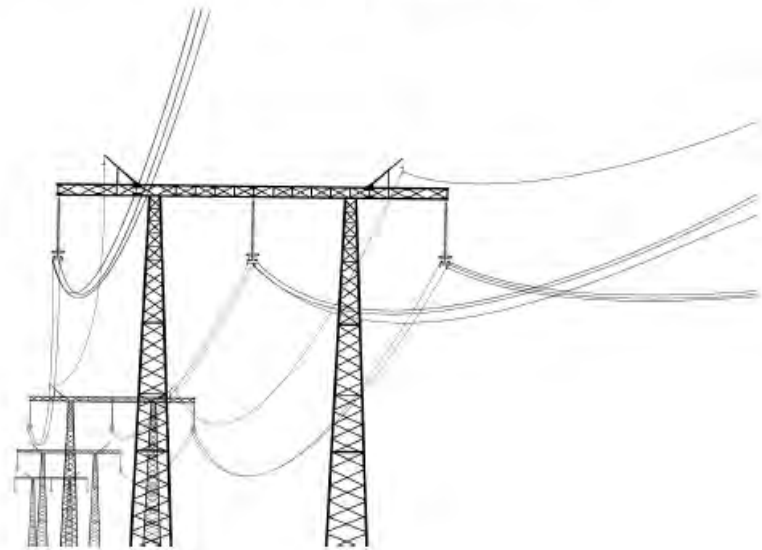
Government documents can often make dull reading, couched in the near-impenetrable bureaucratise in which public servants specialize. Thursday's [report](#) by independent budget watchdog Stephen LeClair was a welcome exception – welcome to everyone except Premier Kathleen Wynne's government, that is.

In simple, blunt terms, LeClair explained that the Liberals' plan to sell off 60% of Hydro One, the provincial power distributor, will cost far more than it brings in. While it may provide a short-term benefit to the government by helping it balance the budget in time

ONTARIO WIND RESISTANCE

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

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



Brady Yauch
Economist and Executive Director of Consumer Policy Institute
(416) 964-9223 ext 236
bradyyauch@consumerpolicyinstitute.org
<http://cpi.probeinternational.org>

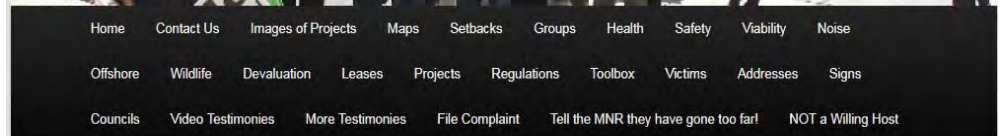
 Energy Probe

 CPI Consumer Policy Institute

Source: **Getting zapped: Ontario's residential hydro prices increasing faster than anywhere in North America:** Brady Yauch, economist, Energy Probe, Consumer Policy Institute, <http://cpi.probeinternational.org>

Ontario's greenhouse gas plan is **Green Energy Act, Round II**, lobbyist's delight

- Auditor General: **Ontarians over-paid for electricity by \$37billion**
- Residents have reached a **breaking point** with rising electricity costs
- **Hydro One** rates would increase average customer bills by **\$141 per mo. in Jan 1 2018**
- **59,000 households cut off** in 2015 because they couldn't pay.
- **73% of the bill is delivery and fees**; the rest is actual energy used
- More than **10,000 billing complaints**
- Chrysler CEO tells Ontario PM Kathleen Wynne hydro costs making **Ontario too expensive for businesses** and its killing jobs.
- Premier sued over sale of **Hydro One**
- Ontario produces **so much energy it pays its neighbors** at a loss sending it to New York, Quebec, Manitoba
- Rising electric rates causing **'serious harm'** to Ontario's economy: BMO chief economist-- <https://youtu.be/3nb7juiSSnA>
- 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)



Posted on 03/26/2015

← Previous Next →

Watch TVO documentary "Big Wind" online

Wind is a multibillion dollar *Scam*. Its destroying lives.

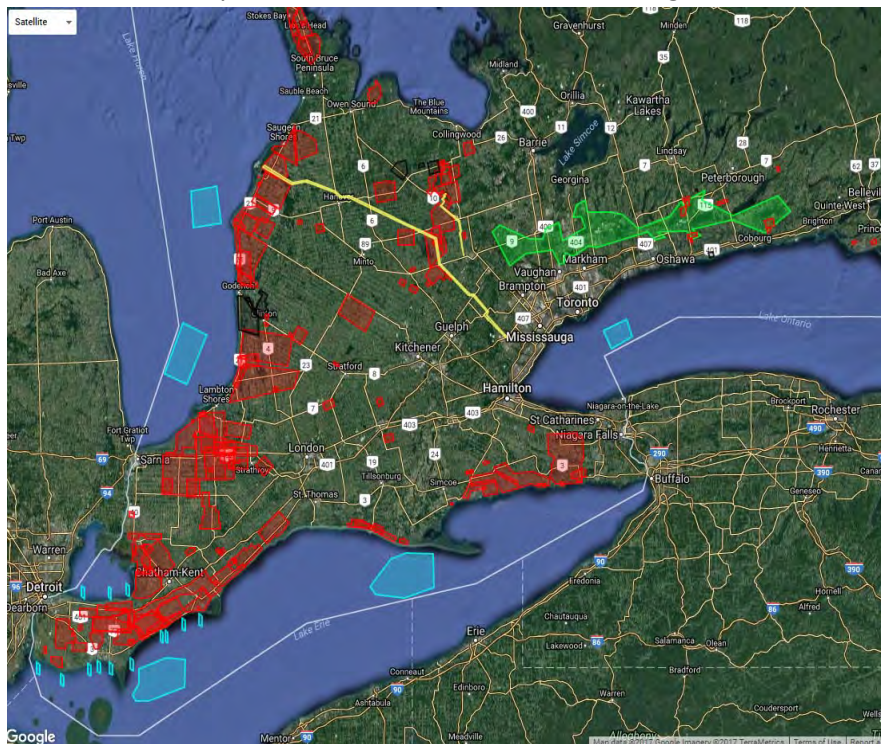
ONTARIO WIND RESISTANCE

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



237 wind turbine projects in Ontario

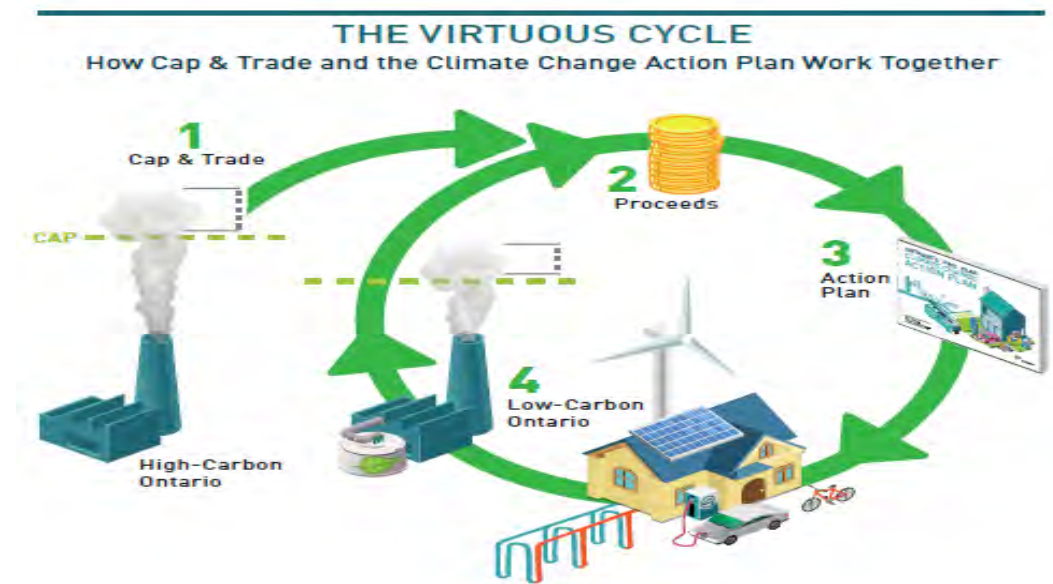
Wayne Gulden, Ontario-wind-turbines.org



- It was **shameful** the way liberals introduced the wind turbine farms; **wind pits family against family.**
- **Wind turbine** group told of falling property values—Blackburn News
- >99.4% of **wind energy contracts went to liberal party donors**
- **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 energy** uses ten times the materials of any other energy source--Forbes
- Health problems of persons near **wind turbines** suffer from blood pressures and pulse rate abnormalities (physician: vasovagal reaction/episodes and diagnosed syncope)
- **Wind** companies buying “support”
- An **ill-wind** in Ontario—Toronto Sun
- Approx. 160 wind turbines still because its too windy; reliability of zero; <1% when its most needed

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

The *LIE* of Cap and Trade - 1



The *LIE* of Cap and Trade - 1



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.)				

The *LIE* of Cap and Trade - 1

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

- ❑ Practitioner avoids but does not remove emissions
- ❑ Trades something in return for permission to emit; it becomes tradable, like a stock
- ❑ Avoids the responsibility, passing it “down the line”
- ❑ A false hope, a lie
- ❑ Adds programmatic & transaction costs
- ❑ Costs of doing nothing are real costs charged to utility customers, stakeholders
- ❑ Its neither virtuous nor truthful but a deception



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

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

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.)					

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

Totals... \$3,247/mo

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

Costs of Climate Change, but Lacks Benefit

- 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.

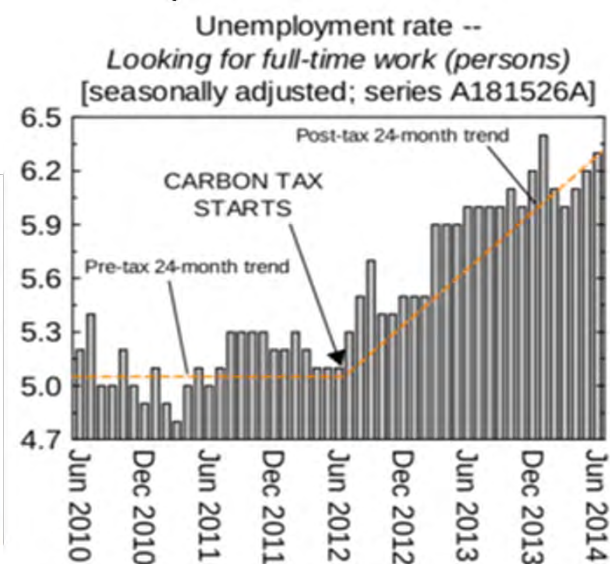
Costs of Climate Change, Lacks Benefit *but Raises Costs, and Causes Job Losses*

- **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 *LIE* of Cap and Trade (C&T) – 2

“Abundance of Fakes & Shams”

- ❑ 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 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
- ❑ **C&T *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 – 3

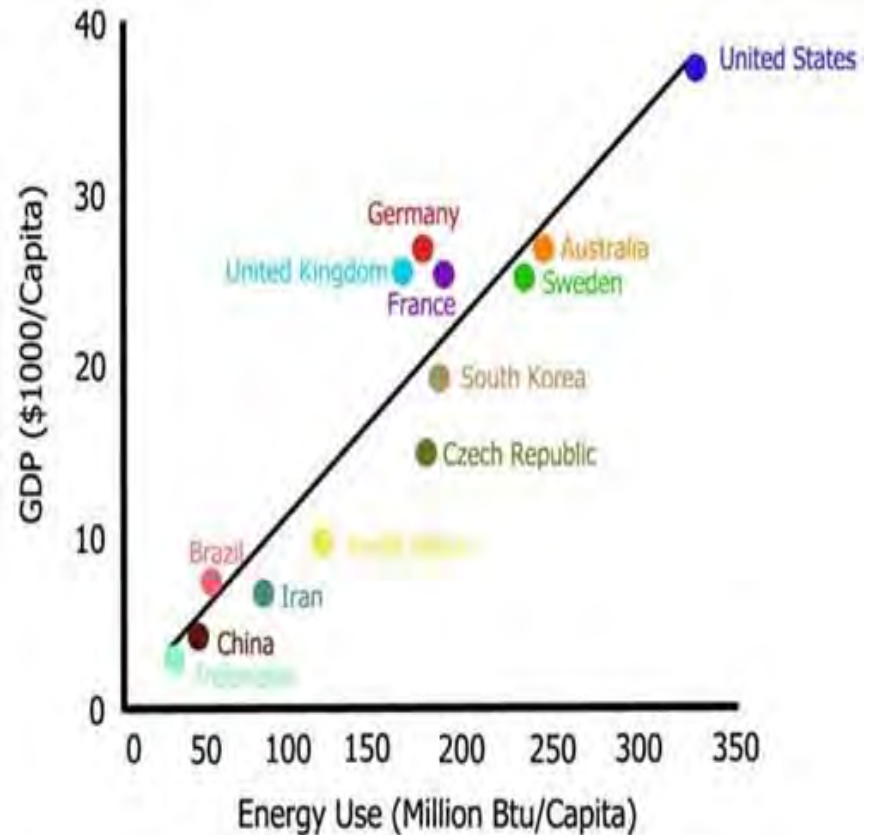
“Lacks Advantages”

- **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
- **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
- **Produces no impact on climate**
 - Oil, natural gas and coal have no effect on climate, which **delegitimizes its purpose**
- **Cap and trade programs force industries to leave**
 - The high price of natural gas caused the **loss of >3,000,000 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

The *LIE* of Cap and Trade – 3

“Lacks Advantages”

- **U.S. has the Highest GDP because of its extraordinarily large use of energy (chart)**



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

The *LIE* of Cap and Trade - 4

“Illusions of Reduced Emissions”

Cap and Trade 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 worsen with time
- ❑ It’s a **giant shell game** forced on customers by Ontario’s dysfunctional gov’t monopoly

What going on? Trump taking U.S. in the opposite direction

- ❑ Plan of repeal Clean Power Plan
- ❑ Exits the Paris Agreement
- ❑ End Obama EPA Endangerment Finding
- ❑ Withdraw from UN Conv. on Climate Chg.
- ❑ 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 December 11, 2015](https://ep.probeinternational.org/2015/12/11/5-reasons-to-oppose-ontarios-cap-and-trade-proposal/) by consumerpolicyinstitute

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

Ontario's Ministry of Energy (MoE) & 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 customers 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
- ✓ \$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 Ontario to pay (at a loss) for neighbors to take the excess electricity**
- **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>

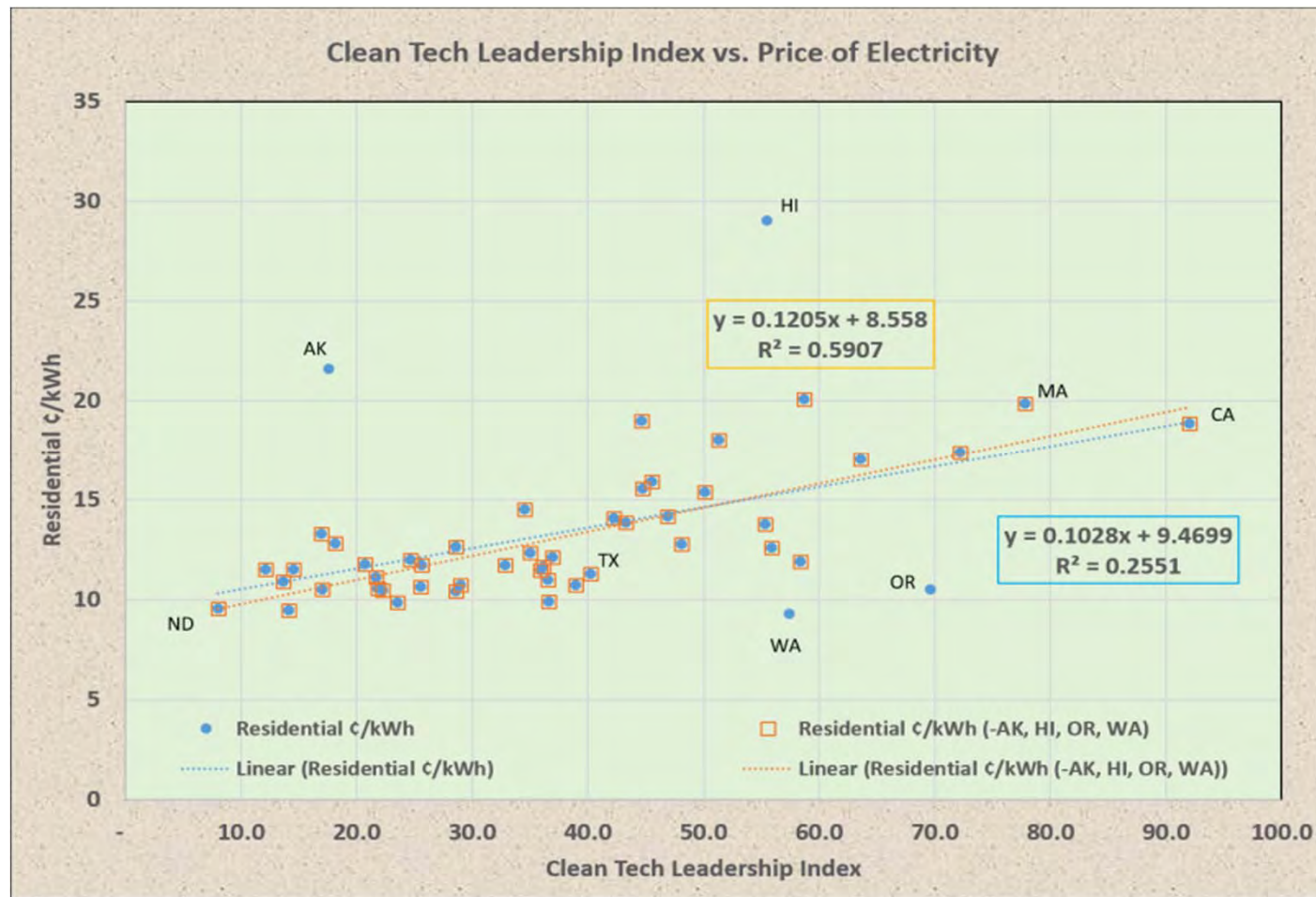
Ontario's Corporate Welfare Goes *Green* -2

- **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 them with compensation. 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

Torturing Renewable Energy



More Renewable = Higher Electric Rates



California Once Again Tops the U.S. Clean Tech Leadership Index... But Falls a Penny Short of the Highest Electricity Prices in the Lower 48
<https://wattsupwiththat.com/2017/06/07/california-once-again-tops-the-u-s-clean-tech-leadership-index-but-falls-a-penny-short-of-the-highest-electricity-prices-in-the-lower-48/>

Renewable Energy \$COST in World

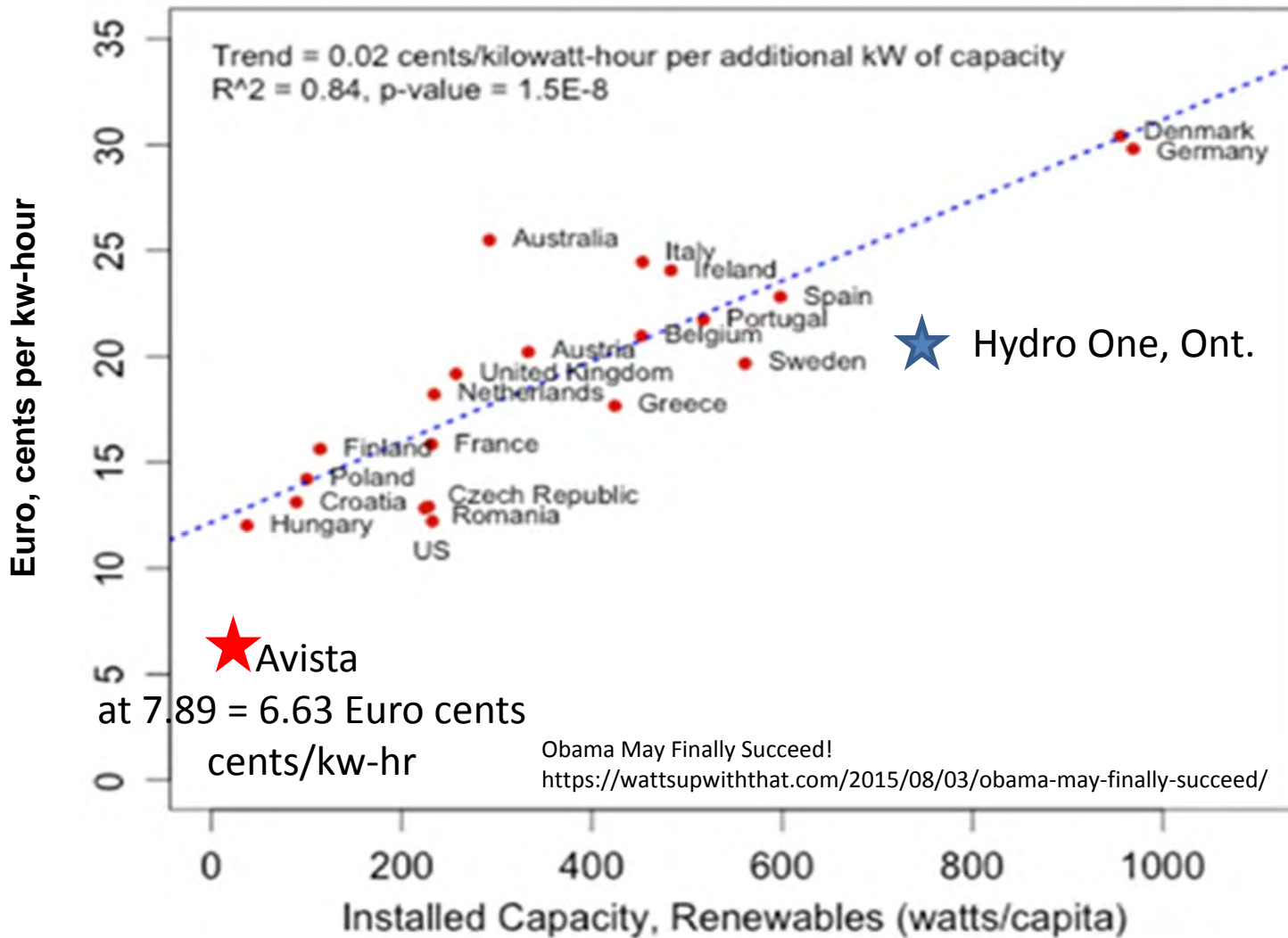


Hydro One, Ont.
w/global adjus't.



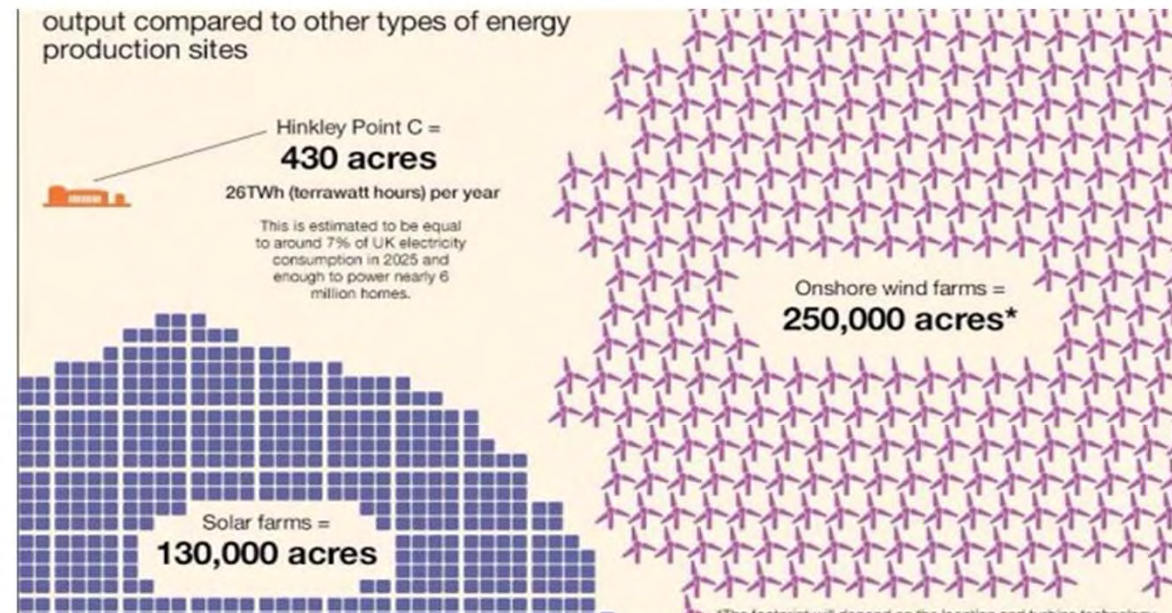
Germany
now at 38
Euro cents/kw-hr

Scatterplot, Electricity Cost vs. Installed Renewable Capacity



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

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

U.K. takes down data showing footprint of nuclear vs. "renewables"

<http://www.cfact.org/2013/11/02/u-k-takes-down-infographic-showing-footprint-of-nuclear-vs-renewables/>

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)

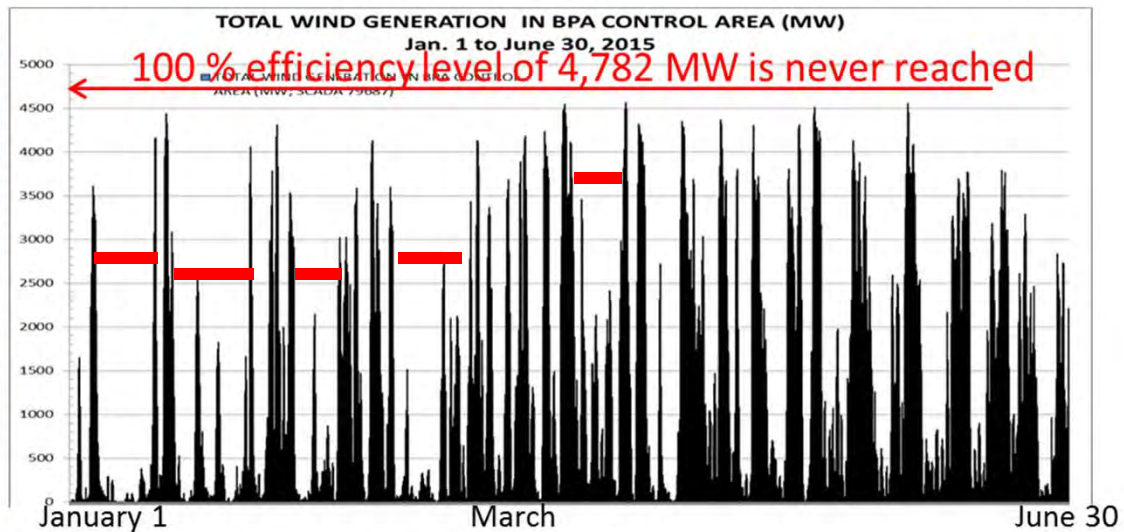
List of 46 wind farms (4,782 MW)

WIND GENERATION NAMEPLATE CAPACITY IN THE BPA BALANCING AUTHORITY AREA (as of 6/16/2016)			
Control Manager for This Data: Bart McMass/TOT (bmcmass@bpa.gov)			
Plant	Nameplate Capacity MW	Date When Actual Gen First Exceeded 1/2 of Current Nameplate Capacity	Cumulative Nameplate Capacity MW
Vantage	23	10/25/1998	23
Starline	90	12/18/2001	113
Klamika I	24	1/16/2002	139
Condor	35	6/18/2002	189
Klamika II	74	6/28/2003	265
Hopkins Ridge	157	11/25/2003	422
Leaning Juniper	100	8/10/2006	522
Big Horn	200	10/4/2006	722
White Creek	200	10/5/2007	922
Klamika III	226	10/15/2007	1148
Biglow Canyon PH 1	126	11/17/2007	1274
Nine Canyon @ 20%	27	11/26/2007	1301
Goodnow Hills	96	4/29/2008	1397
Nine Canyon @ 50%	24	5/10/2008	1421
Klamika Ja	71	6/6/2008	1496
Arlington	103	12/9/2008	1599
Willow Creek	72	1/1/2009	1671
Pebble Springs	100	1/27/2009	1771
Hay Canyon	100	2/12/2009	1871
Wheatfield	97	3/22/2009	1968
Tussock	137	5/1/2009	2105
Biglow Canyon Phase 2	149	8/6/2009	2254
Windy Flats Dooley (phase 1)	35	9/21/2009	2289
Windy Flats Dooley (phase 2)	233	11/30/2009	2517
Harvest	106	12/14/2009	2617
Coonine Hills	63	1/1/2010	2680
Star Point	100	1/15/2010	2780
Landon Farm	50	6/6/2010	2830
Coastal Energy	6	6/30/2010	2836
Biglow Canyon PH 2	14	8/11/2010	2850
Biglow Canyon PH 3	161	8/11/2010	3011
Big Horn II	50	10/8/2010	3061
Leaning Juniper II PH A	91	10/24/2010	3152
Kittitas Valley	101	11/15/2010	3253
PATU	10	11/29/2010	3263
Leaning Juniper II PH B	109	12/1/2010	3372
Juniper Canyon	150	2/11/2011	3522
North Harbort	266	11/20/2011	3788
Lower Snake	343	2/29/2012	4131
South Harbort	290	3/11/2012	4421
Horseshoe Bend	290	5/17/2012	4711
No change	0	3/31/2013	4711
Goodnow Hills (OUT to PAC BA)	-96	4/1/2013	4615
Leaning Juniper (OUT to PAC BA)	-100	4/2/2013	4515
No change	0	12/18/2014	4515
Tussock 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.

Wind Turbine Experience in Washington

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

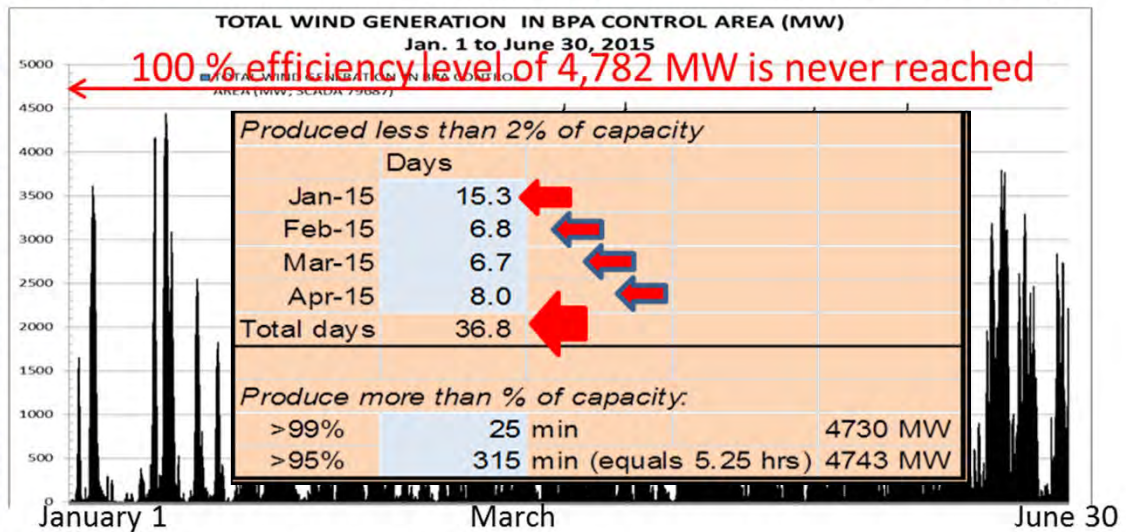
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Klondike I	24	1/16/2002	139
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Hopkins Ridge	157	11/25/2005	422
Leaning Juniper	100	8/19/2006	522
Big Horn	200	10/4/2006	722
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Nine Canyon @ 52%	24	5/19/2008	1421
Klondike 3a	75	6/6/2008	1496
Arlington	103	12/7/2008	1599
Willow Creek	72	1/1/2009	1671
Pebble Springs	100	1/27/2009	1771
Hay Canyon	100	2/12/2009	1871
Wheatfield	97	3/22/2009	1968
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Biglow Canyon Phase 2	149	8/6/2009	2254
Windy Flats Doolley (phase 1)	30	9/21/2009	2284
Windy Flats Doolley (phase 2)	233	11/30/2009	2517
Harvest	100	12/16/2009	2617
Centaine Hills	63	1/1/2010	2680
Star Point	100	1/15/2010	2780
Lindam Farm	50	6/6/2010	2830
Coastal Energy	4	6/30/2010	2834
Biglow Canyon PH 2	14	8/11/2010	2848
Biglow Canyon PH 3	161	8/11/2010	3009
Big Horn II	50	10/9/2010	3061
Leaning Juniper II PH A	91	10/24/2010	3152
Kittitas Valley	101	11/15/2010	3253
PATU	10	11/29/2010	3263
Leaning Juniper II PH B	109	12/1/2010	3372
Juniper 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
Horseshoe Bend	290	5/17/2012	4711
No change	0	3/31/2013	4711
Goodnow Hills (OUT to PAC BA)	-96	4/1/2013	4615
Leaning Juniper (OUT to PAC BA)	-100	6/2/2013	4515
No change	0	12/18/2014	4515
Tuason 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, Germany, 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

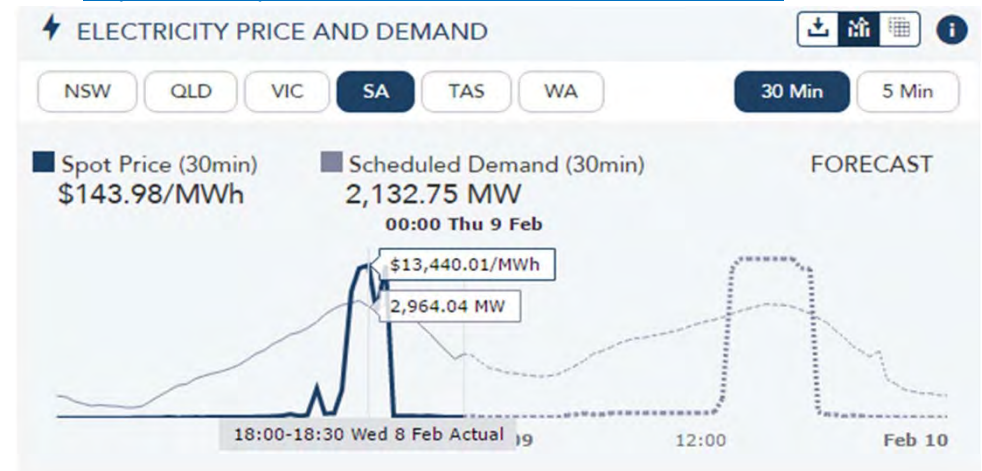
Frondel, M., et al (2009), Economic impacts from the promotion of renewable energies: The German experience
G. C.Alvarez, 2009, Study of effects on employment of public aid to renewable energy sources: <http://juandemariana.org/pdf/090327-employment-public-aid-renewable.pdf>
Status of renewable electricity 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, and possibly due to its over-build of wind energy, now at 41% of total grid, said it experienced a cascading shutdown of all of its wind and other power stations when 7 transmission towers collapsed.(The Australian 5/10/2016).

- **South Australia**-Again in December 2016 and February 2017 heatwave the blackout continued, and again the cause seems to be excessive reliance on wind farms, whose up and down ramping seems responsible for the unstable conditions. Premier Weatherill blamed 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/> During this period, the Australian Energy Market Regulator said the situation **caused wholesale electricity prices to spike to \$13,440 per MW-hr (equals \$13.44 per kwhr) (South Australia Heatwave Wind Power Collapse, Rolling Blackouts**
<https://wattsupwiththat.com/2017/02/09/south-australia->



Wind Turbine Electricity Costs - 4

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/>



Battling Climate: Damages Possible

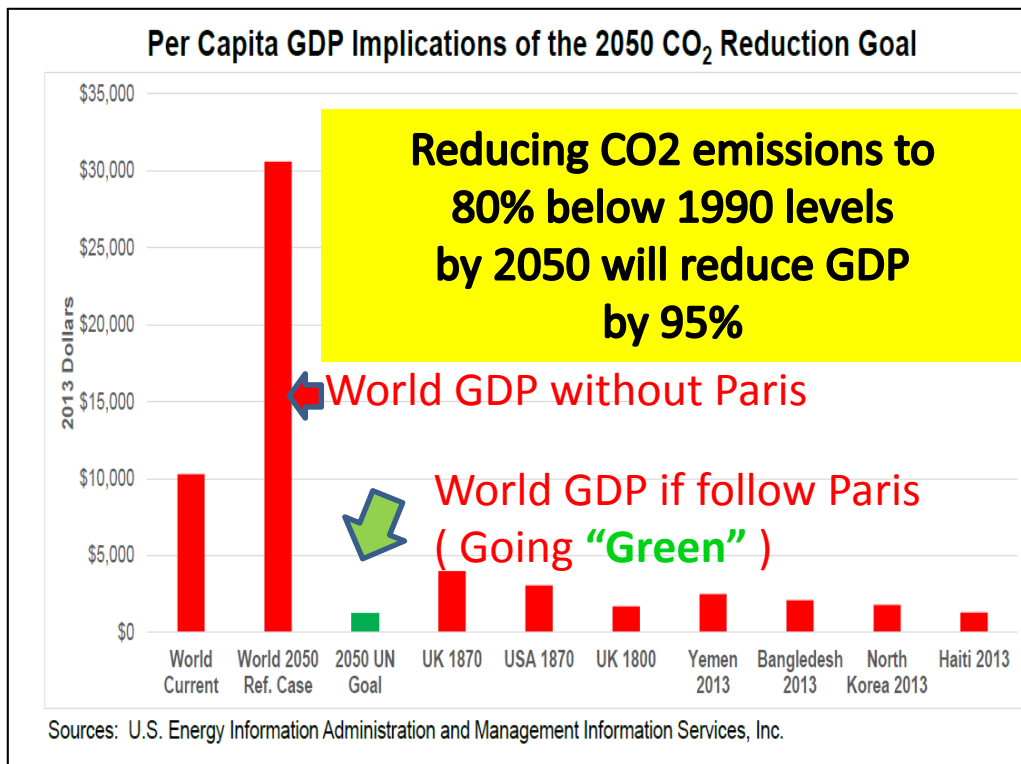


<http://joannenova.com.au/2013/12/antarctic-ice-swallows-boat-media-spin/>

DAMAGE CAUSED BY LIMITING or TAXING CARBON DIOXIDE

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/>

If Washington State Follows the Paris Climate Plan: Damage Caused by Limiting or Taxing Carbon

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]

Observed Climate Change and the Negligible Global Effect of Greenhouse-gas Emission Limits in the State of Washington



❑ 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

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

Gov. Inslee's Carbon (hocus-pocus) "**Chameleon Tax**"

Governor's (Regressive) Taxing of CO2 at \$50 per ton

Economists Know This.....Never Tax Inputs to Production

- Washington taxed 3 billion gallons of gasoline in 2014
- Weight of... (1 gallon)
 - 1 gallon Gasoline = 6.07 lbs
 - CO2 produced from 1 gal.= **19.6 lbs**, a 320% increase
- Weight of a "fill-up" ... (26 gallons)
 - 26 gallons Gasoline = 158 lbs
 - CO2 produced from 26 gal = **510 lbs**, a 320% increase
- Taxed at \$50/tonne
 - Tax = \$13 per tank full (gas)
 - Tax = \$15 per tank full (diesel)
 - Expects to raise \$1.5 billion from tax on CO2 ("carbon neutral")
- A 3-car family would pay
 - \$1,987 /year CO2 taxed at \$50/t
 - \$3,975 /year CO2 taxed at \$100/t
- Tax on my farm operation (2 combines, 2 tractors, 3 trucks, 2 light trucks, on 3,200 gallons fuel)
 - \$1,680 /year CO2 taxed at \$50/t
 - \$3,360 /year CO2 taxed at \$100/t

Wind Turbine Electricity Costs

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. Gilbertson, Texas Tech. Univ.

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

Hurricane Irma's Rules for Wind Turbines

Windmill Self Destructs in Hurricane Irma Winds

<https://www.youtube.com/watch?v=7z0h2KMA140>



Windmill Self-Destructs in Hurricane Irma Winds



9-22-17 Puerto Rico Wind - Solar - Cellular Structures Destroyed - Aerial

Wind, Solar, Cellular Structures Destroyed in Puerto Rico

<https://www.youtube.com/watch?v=1AAHJs-j3uw&feature=youtu.be>



San Juan, Puerto Rico Sept. 25, 2017

Anti-wind Advocates

Facts about Wind Power

- “A Problem with Wind Power”

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

European Platform Against Windfarms

<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/>



 Safety probe launched after collapse of 480-foot wind turbine



Impact on Avista Customers - 1

- **Avista customers are caught in the middle of...**
 - Sacrificing a going concern and reliable hydroelectric power (Avista Corp.) to Ontario's fairy tale (CCAP)
- **If the deal is completed, Avista and its customers could be hooked to...**
 - Pay \$\$billions to battle an invisible and non-existent climate demon
 - Face an uncertain future
 - Face electric rates spiral due to predictable Hydro One financial stress, bankruptcy, or unpredicted action by Ontario's Premier
- **Customer are those with least to gain and most impacted by this acquisition, so they need to be heard.**
- **Battling climate change is:**
 - Silly, Wasteful Propaganda
- **Carbon Dioxide, CO2...**
 - Does not control temperature (fact)
 - Cannot cause climate change: its unproven
 - Human sources so tiny (2%), irrelevant
 - Natural sources substantial (98%)
 - Will remain uncontrolled under Ontario's CCAP (because 98% is NATURAL CO2)
 - Will remain uncontrolled under Ont. CCAP because C&T does not limit emissions (2% from fossil fuels)

Impact on Avista Customers - 2

- **Hydro One 70% owned by Ontario Gov't.**
 - Ont. Energy Ministry answers to Ont. Premier
- **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*
- **1,039 MW renewable giveaway** - 13 hydro dams
- **Avista risks customer electric rates increasing 350% under Hydro One management**
 - Now, lowest rate (\$0.078/kwhr) to highest rate (C\$0.18 to C\$0.299/kwhr) in North America
 - Global adjustment charge could appear on bills
 - Avista customers subject to rate increases of 149% as witnessed to Hydro One's 10-year history
 - Avista customers subject to Hydro One mismanagement, cost-overruns and "green" policies controlled by Provincial government
- **Avista risks losing reliable, safe thermal power provided by Colstrip 3&4 units**
- **Avista risks maintenance shortfalls, power outages that last longer** (Hydro One's history)
- **Ontario's Climate Change Action Plan (CCAP)**
 - ❖ **Its a *Maurice Strong* legacy**
 - Goal to destroy capitalism
 - Great hoax,
 - Ignores that U.S. and 18 countries exited Paris Climate Agreement, *including Canada*
- **Cap and Trade (C&T) and Carbon Tax**
 - Not virtuous, but deceitful act
 - **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
 - **Avista customers also exposed to..**
 - Initiative 937 (2008): Washington's Renewable Portfolio Standard (RFS)
 - Inslee's "hoped-for" Carbon taxes in Washington (HB 1314)
 - Inslee's Ecology is now trolling for a fitting Cap and Trade market for Washington

Impact on Avista Customers - 3

- **Cap and Trade does not work because it...**
 - Is a European scheme that **forces customers to restrict use due solely to bureaucratic fiat**
 - **Increases** energy prices
 - **Pretends to** reduce 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**
- **Hydro One**
 - Operates as a **monopoly**
 - **Honors** Ont. Energy Ministry; **fiduciary duty** to Premier, its major stockholder
 - Is **unresponsive** to customers
 - **Pays premiums to renewable providers and electric generators**
 - **Is inefficient and charges ratepayers more money** for systems in decline
 - Is approaching a financial doomsday
 - Hated by customers

Impact on Avista Customers - 4

- **Reliance on renewable energy**
 - **An inefficient** source of electricity in UK, Spain, Australia, Denmark, US, and Germany--**proven**
 - Customers hate it, detest it--**proven**
 - Risks reliability of power grid--**proven**
 - Extremely expensive--**proven**
 - Extremely unreliable--**proven**
 - Requires vast areas--**proven**
 - Requires subsidies to survive--**proven**
 - Only provides power part-time--**proven**
 - Requires full-time backup from coal, gas, hydro sources of power--**proven**
 - Systems are fragile--**proven**
 - Real (total) costs are unknown--**proven**
 - Useful life is 25% to 10% of normal power sources--**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%
- **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%
 - carbon cost \$1,931
 - energy cost \$1,316
 - No effect on climate--**proven**

WIND WARNINGS

For additional information on all of these costs, see **WiseEnergy.org**.

- Proof wind turbines **take \$thousands off your home**: Value of houses within 1.2 miles of large wind farms slashed by 11%, study finds
 - Farmer says that **legislators are being fooled** by easy money promises
 - Four reasons not to sign a wind lease
 - Farmer regrets signing wind lease: not worth the problems that resulted
 - Impacts of wind farms on water, hydrology, meteorology
 - **Environmental impacts** of large wind turbine projects
 - **Incompatibility** of wind turbines and crop farming
 - Wind turbines pose great danger to crop dusters
 - Wind turbines reduce crop growth
 - Be very careful when hiring a wind attorney
 - Modern wind turbines generates dangerous dirty electricity
 - Industrial wind takes terrible toll on **farm animals**
 - Wind farms and family farms—**Not compatible**
 - Wind energy production: Legal issues and liability concerns for landowners
 - Wind projects **risk loss of tourism** income
 - Wind farms adversely affect hunting
 - **Weaponizing infrasound** from wind turbines
 - Infrasound from wind turbines more problematic than audible sound
 - Wind projects cause serious interference with military facilities
 - Two projects, Horse and Timbermill wind projects caused **net economic impact losses of \$10 million and \$12 million per year**
 - **Adverse health effects** of wind turbine noise exposure
 - Wind turbines and **sleep deprivation**
 - Wind turbines harm wildlife and farm livestock
 - Wind leaseholders suffer economic losses
 - Wind turbines affect agricultural yields up to 15 miles away
 - Misleading costs and incomes of wind and solar
 - Local Maine wind ordinance: **2 mile building code setback; 25 dba noise limit**
 - 13th complaint filed against wind project for well water interference
 - Minnesota's **high cost of wind energy failure**
 - Wind turbines destroyed in Puerto Rico by hurricane Maria
 - Wind turbine total annual output 2,500 watts per acre per year
- <http://www.efn-usa.org/2013-11-06-07-29-01/item/1507-wind-power-no-wind-moderate-wind-tempest-howard-hayden-usofa>

end

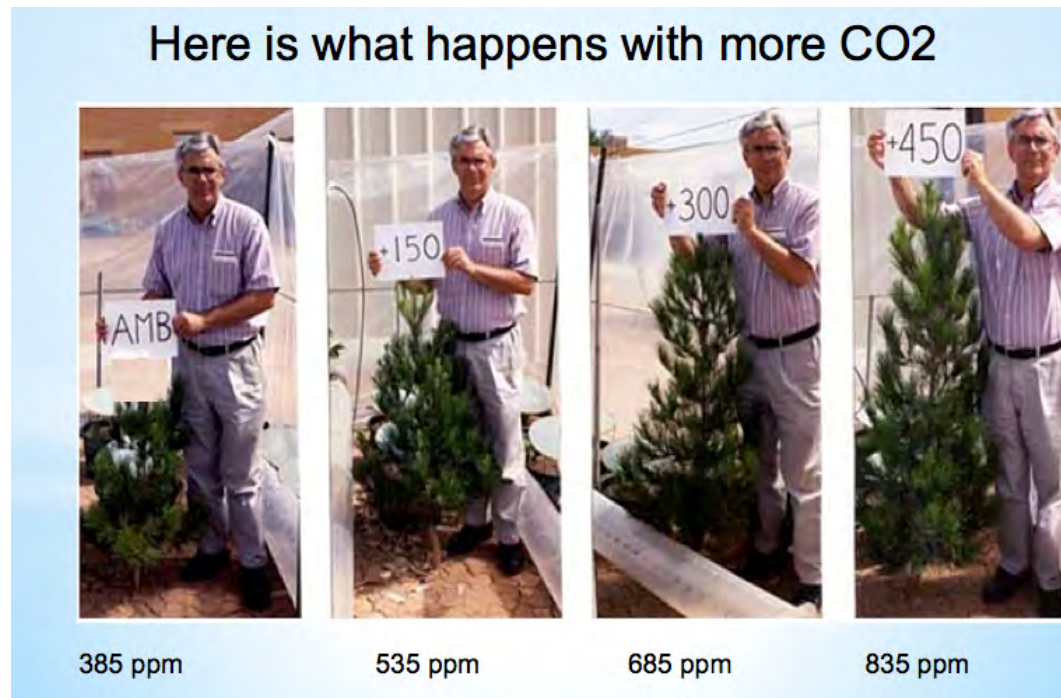


Don't answer that.

Extra slides

Benefits of Carbon Dioxide

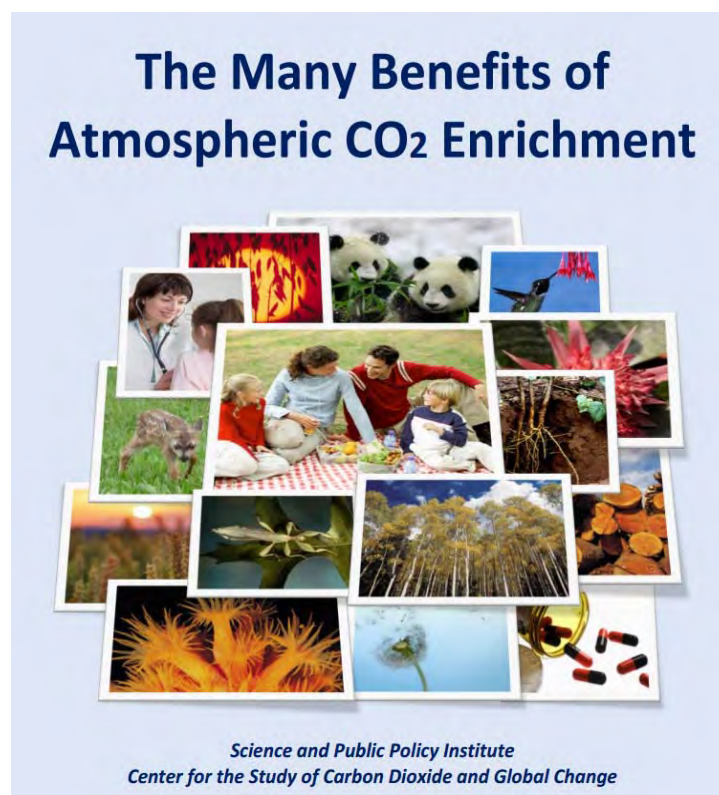
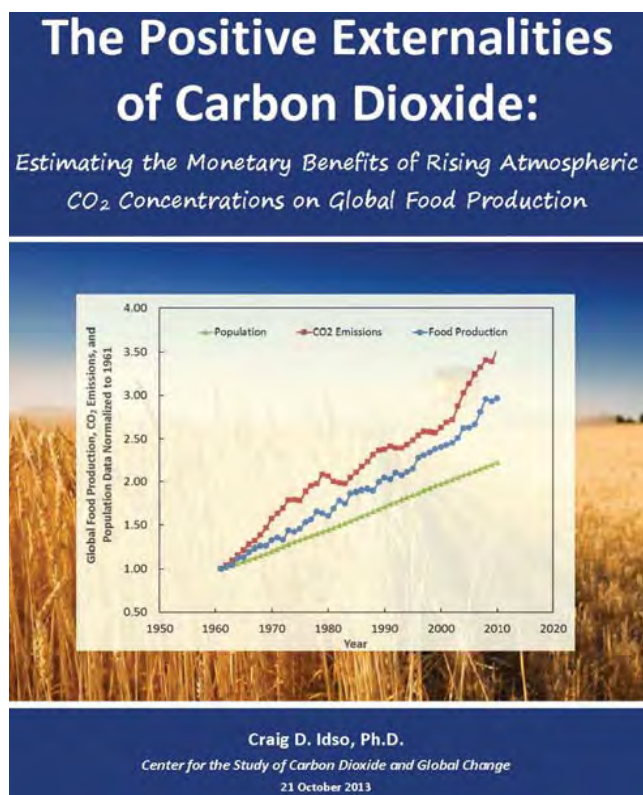
CO2 is not a pollutant. It's plant food



Amounts of carbon dioxide in container

WHAT THEY HAVEN'T TOLD YOU

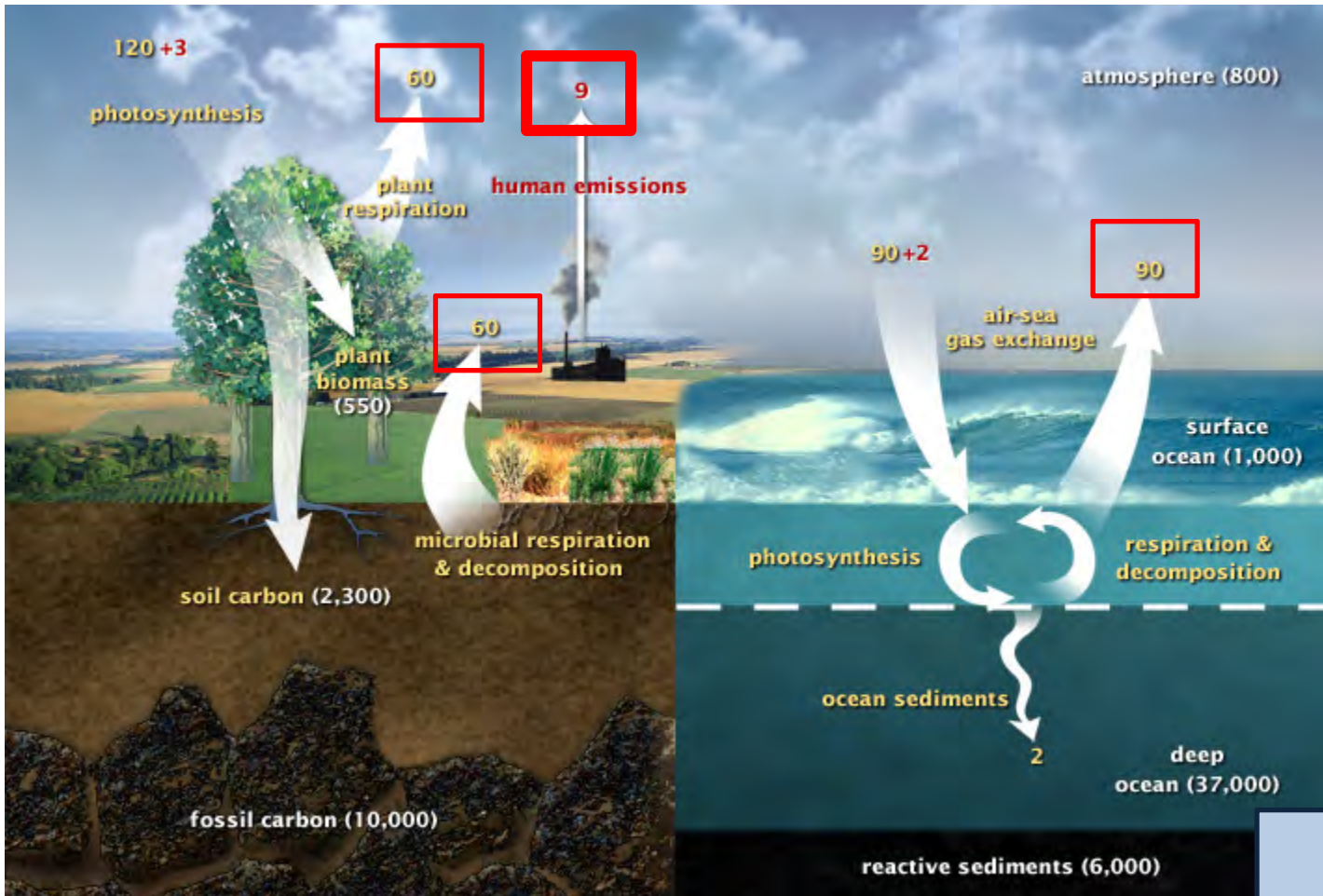
CO2 is not a pollutant. It's plant food



<https://www.heartland.org/publications-resources/publications/the-positive-externalities-of-carbon-dioxide-estimating-the-monetary-benefits-of-rising-atmospheric-co2-concentrations-on-global-food-production>
<https://www.masterresource.org/carbon-dioxide/positive-externalities-co2/>
http://scienceandpublicpolicy.org/images/stories/papers/other/55_benefits_of_co2_pamphlet.pdf

Carbon Cycle

Annual Exchange (wikipedia)



Sources of Carbon..
 Plants 60
 Oceans 90
 Microbial 60

 Sub-total 210 (96%)

 Humans 9 (2-4%)

Total = 219

Sinks for Carbon ...
 Plants 3
 Oceans 92
 Sediments 2
 Photosynthesis 123

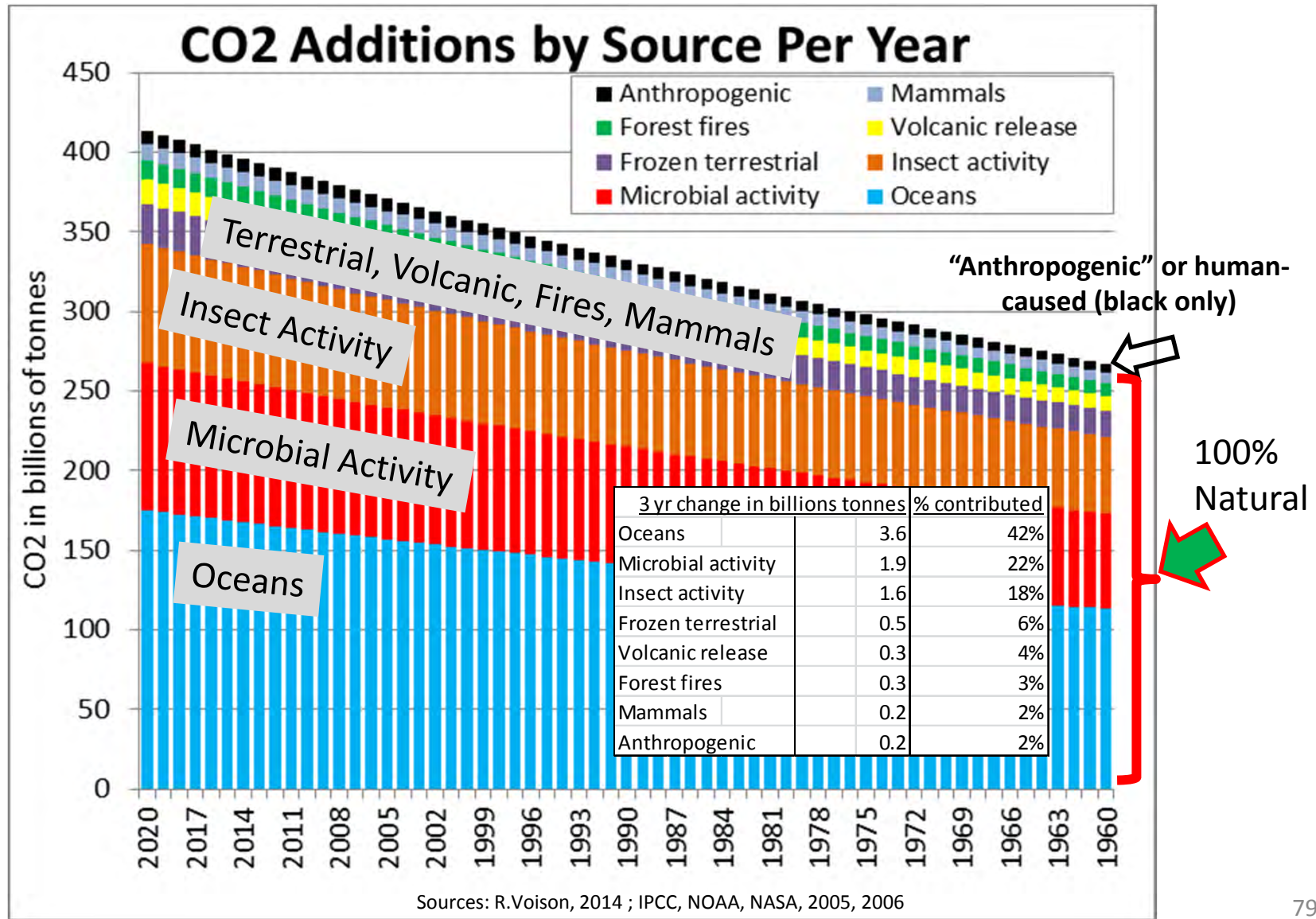
Total = 220

Storehouses of Carbon
 short term = 4,650
 long term = 53,000

Sources of C (red boxes, arrows upward) – Sinks of C (down arrows) - Units: gigatonnes per year

And Deceived Again

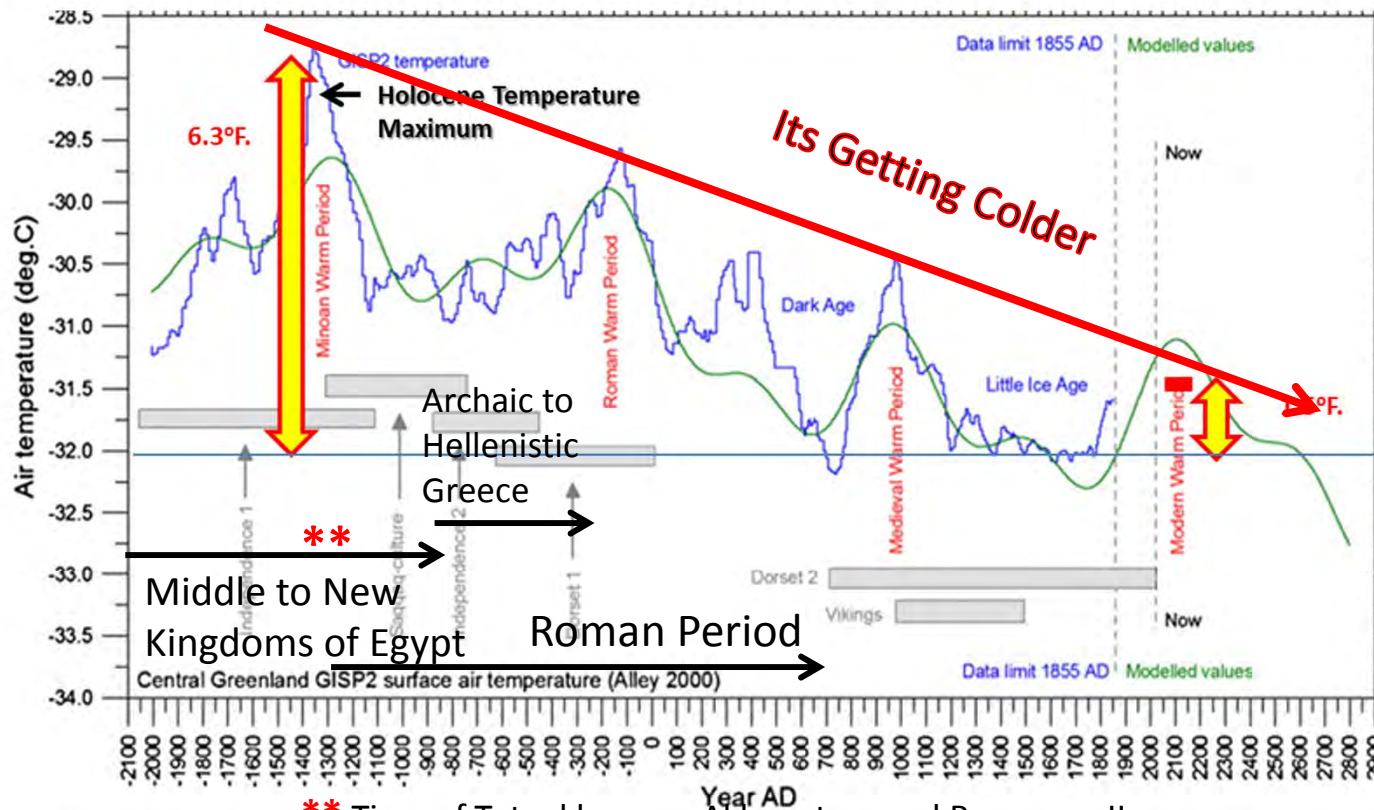
The CO2 Deception -- 98% of CO2 is Natural



Cooling for Last 8,000 Years

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:



** Time of Tutankhamun, Akhenaten, and Ramesses II

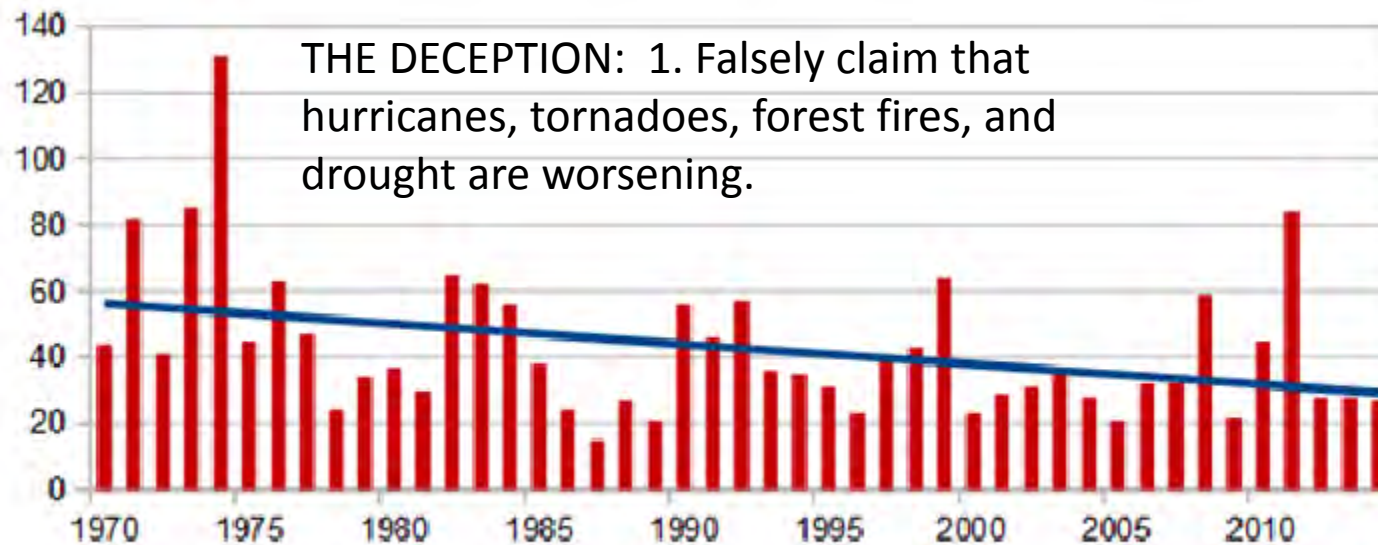
Figure 1: Central Greenland (GISP2) surface temperature the past 4000 years (blue line). Natural cycles modeled and forecasted shown by the green line. Only 3-cycles are included (2800, 1190 and 560 yr) in the model. This model shows a temperature increase for the period 1850-2100 which is called the 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/>

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.

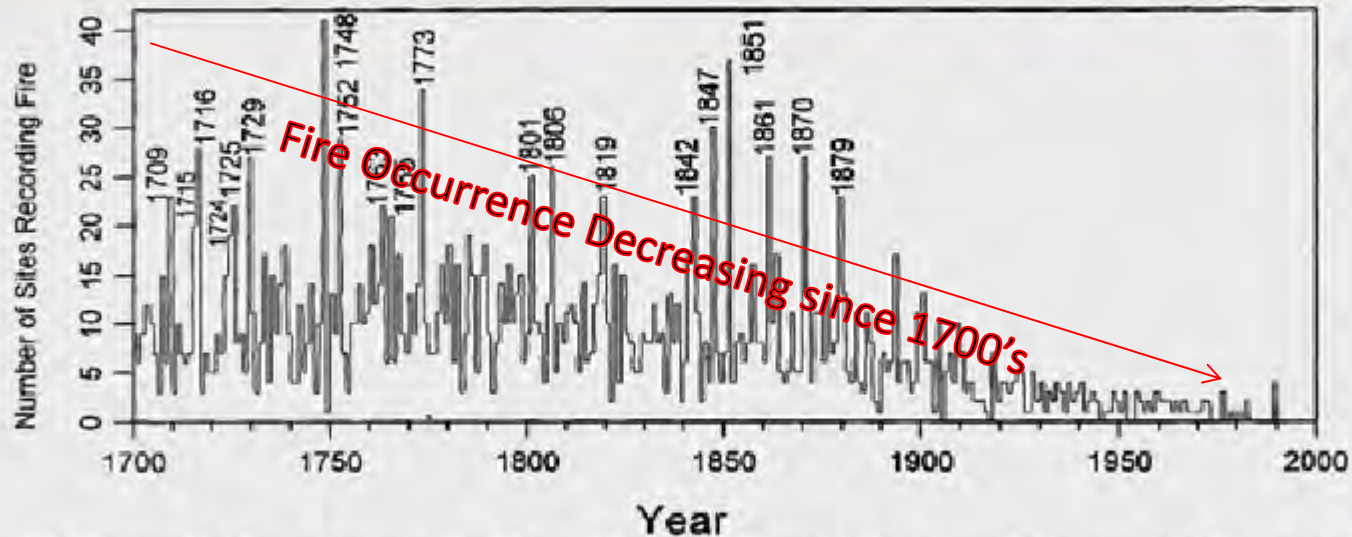


Figure 5. Regional fire occurrence time series from a network of 63 fire history sites in the Southwestern U.S. The largest 20 fire years are listed, based on the maximum numbers of sites recording these years.

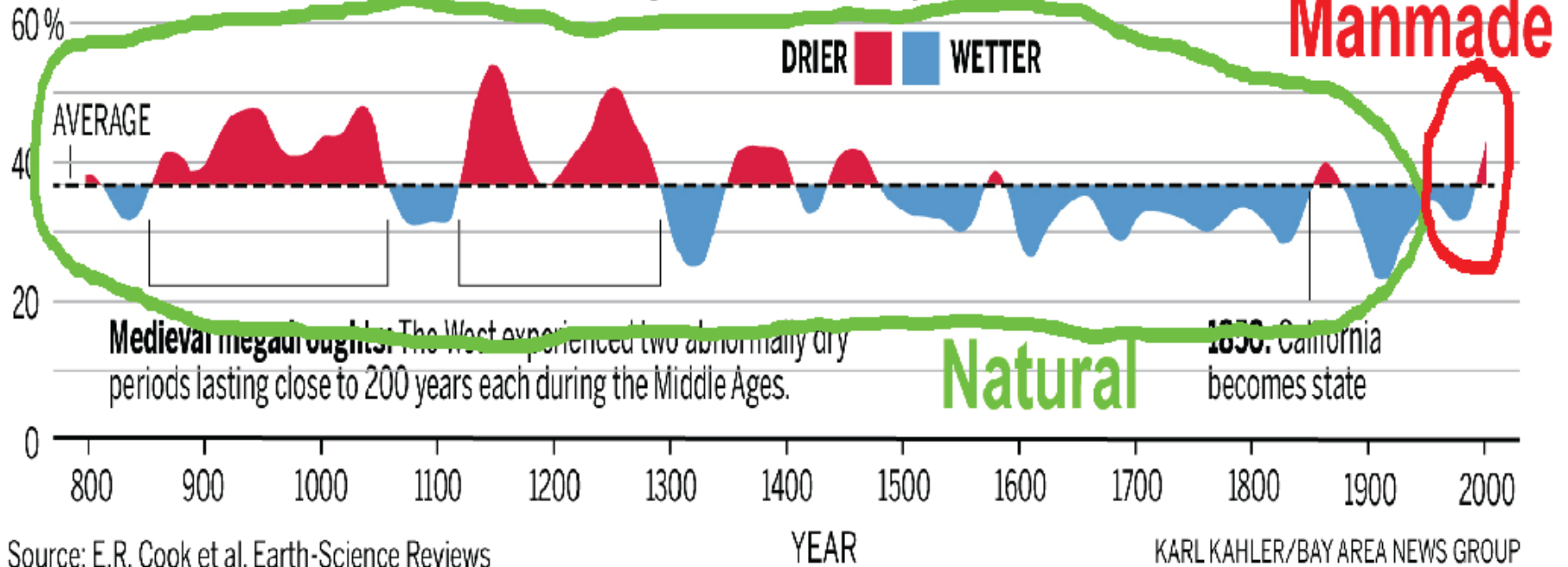
2. Swetnam, T. W.; Baisan, C. H. 1996. Historical fire regime patterns in the Southwestern United States since AD 1700

Drought Conditions Ended 500 Years Ago

Drought Risk Down

A 200-year drought?

Evidence from tree rings shows that drought was historically much more widespread in the American West than now, while the 20th century was wetter than normal. Percentage of the West affected by drought from 800 A.D. to 2000:



Transcript Avista Corps July 2017 Announced Acquisition by Hydro One Ltd.

Slide
1

- Thank you Rob and Republican coffee club for inviting me.
- I will not address what has been announced in releases by Hydro One and Avista. That is known. Instead.....
- I will stress is what is not known, and not announced. These are news reports about electric power in Ontario, utility sector mismanagement, and Ontario law that governs the operations of Hydro One.
- I will stress what's happening with Ontario's Climate Change Action Plan of 2016, the Province's Green Energy Act of 2009, and its customer relationships as they carry out the Province energy plans, and speculate as to how these actions might affect Avista Customers if this acquisition is affirmed.
- Even cursory investigation indicates that all is not well in Ontario on both the customer side and the financial side of Hydro One.
- The province Premier has come under intense pressure from the legislature, Utility customers and the press for enormous price increases in electricity and super-extraordinary Hydro One expenditures.
- Whether actions in Ontario will affect US customers if Avista joins Hydro One remains uncertain and speculative.
- If Avista customers join Hydro One, decisions may come from Ontario.
- **I will just state the conclusions at the beginning.**
 - **This marriage is not good news and may not be a good relationship for Avista customers—As you will see, the deal provides no advantages for customers but numerous risks and several serious disadvantages.**
 - **The risks that spell huge trouble for Avista customers amount to (1) a significant rise in electric rates, (2) the uncertainty that the WUTC can or cannot mitigate the risks, (3) a 43% probability of Hydro One bankruptcy, and a (4) worsening 10-year electric rate disaster siezing all life in Ontario, and**
 - **Worse, this deal has the appearance that Hydro One wants Avista's hydro dams only to extinguish its fast approaching pretend climate deadline in 2020**
- I have provided a summary of this work with a partial list of references.
- I can provide this information to anyone interested. I can forward the 87 slides, 20 page manuscript, 4 page summary with references and YouTube video by email if you provide an email address.
- September 30, 2017 Second Annual "East Meets West" Regional Conference,

	<p>hosted by Citizens' Alliance for Property Rights (CAPR) in Ellensburg, Washington. David Boleneus speaking on "The Avista Utility Sale: What does it mean to our region?" https://www.youtube.com/watch?v=thhgOWqsS24</p> <ul style="list-style-type: none"> • Lets begin. A little background on myself.....
Slide 2	<ul style="list-style-type: none"> • OUTLINE--READ FROM SLIDE
Slide 3	<p>WHAT IS HYDRO ONE?</p> <ul style="list-style-type: none"> • Hydro One is a 2-year old company • Its business is a electric transmission company • Serves 75% of Ontario's power • Province government is a majority shareholder, either 70% or 51% • Hydro One therefore owes fiduciary duty to Province • Credit rating of A, but financial problems may be cause for a lower rating • Transaction: Customers will not be affected by the transaction, but the major question is this: How will customers be affected afterward • Purchase cost of \$6.7 B cash is of little consequence and likely can be paid off by rate payers within 2 years • Purchase financed by 48% debt/52% equity,. •
Slide 4	<ul style="list-style-type: none"> • Hydro-Electric Power Co of Ontario • Re-branded Ontario Hydro in 1970s • Ontario Power Generation in 1999 and Hydro One • 2015 Ontario Premier unveiled plan to sell 60% of Hydro One to pay debts • So far, sold 30%, so Hydro One is 70% province-owned •
Slide 5	<p>AVISTA CORP.</p> <ul style="list-style-type: none"> • Information for Annual Report, which was quite informative and at the same time worrisome • Subsidiaries: (1)Avista Utilities; (2)Alaska Light and Electric Co • Must reduce GHG emissions 32% below 2005 levels to adhere to the Obama EPA's Clean Power Plan; US Supreme Court stay in effect; Trump indicated he will likely exit this Executive Order • State of Washington regulations – Ecology's Clean Air Act, intends to initiate a Cap and Trade Program to trade carbon credits • Sierra Club obtained has forced Avista to relinquish its electric supply from Colstrip 1&2 units • Uncertainty remains about the continuity of electricity supply from Colstrip

	<p>units 3&4 shared with PGE and PacifiCorp which are under contention.</p> <ul style="list-style-type: none"> •
Slide 6	<ul style="list-style-type: none"> • THIS IS WHY HYDRO ONE COVETS AVISTA <ul style="list-style-type: none"> ○ Avista Utilities: 8 hydro-electric units and 58 wind turbines at Palouse wind farm (1029 MW) ○ Alaska Light and Electric has 5 hydro-electric units (107 MW) ○ Avista's 839 MW thermal (Gas, wood, coal) ○ Total 1137 MW HYDRO (58%) and 839 THERMAL = 1936 MW (42%)
Slide 7	<p>WHY HYDRO ONE...COVETS AVISTA:..</p> <ul style="list-style-type: none"> • Avista Utilities' service area in Washington, Idaho, Montana, and Oregon •
Slide 8	<p>WHY HYDRO ONE..COVETS AVISTA: THE REST OF THE STORY</p> <ul style="list-style-type: none"> • <u>This is where the Rubber Meets the Road</u>---This is the key that drives the acquisition of Avista Corp. and controls the actions of Hydro One after the acquisition. • Not a hint comes in any news release. • This is Ontario's Climate Change Action Plan (2016) • The key purpose of the CCAP was to reduce Hydro One's GHG emissions via carbon tax or via a cap and trade action which, to date has included building fleets of wind turbines • From here forward, I will address the impacts of the CCAP and Ontario's 2009 Green Energy Act • Some questions that an Avista customer might consider are these: <ul style="list-style-type: none"> ○ How much are Avista's 1137MW of hydro valued on the Cap and Trade market? ○ What value will Avista's 1137 MW of hydro accrue to Hydro One ○ What are Avista customers sacrificing to be Hydro One ○ Will Avista customers accrue any additional benefits via the Hydro One's Cap and Trade benefit from the hydro resource of Avista? ○ Will Hydro One and Ontario's "Green" thinking govern Avista customers in the future—for example--Will Avista customers be impacted severely as they become subject to both Hydro One's control and Ontario's CCAP and its Green Energy Act? ○ Will the WUTC and ICC remain a moderating effect? If so, how strong might the effect be? ○ Are these factors fairly considered in valuing Avista for this acquisition? Many of these are significant intangible factors and are poorly considered during traditional economic valuations.

	<ul style="list-style-type: none"> • A Columbia River Compact remains in effect between Canada and the US. • A lot of questions
Slide 9	<p>..COVETS AVISTA: THE REST OF THE STORY</p> <ul style="list-style-type: none"> • Will Avista become a New Ontario? Or something else? •
Slide 10	<ul style="list-style-type: none"> • Lets talk actors
Slide 11	<ul style="list-style-type: none"> • Point man is Al Gore. • Thank god the Electoral College denied him president • Gore has several times announced planetary catastrophe, and made two climate horror films to convince the world to buy carbon credits from his company, Generation Investment Management yet the polar bear populations have expanded 400% and the world's glaciers have remained steady during his lifetime. • The grandfather of global warming is Maurice Strong is Al Gore's "climate" mentor •
Slide 12	<ul style="list-style-type: none"> • Strong was senior advisor to Kofi Annan UN Secretary General • Strong chaired the giant UN Conference on Environment, the Rio Summit in 1992, and assembled the Kyoto Protocol • These are Maurice Strong's beliefs • As a UN official, he forces the manipulation of climate data and hype of natural disasters as proof that fossil fuels and man are responsible. • He stated before this conference--<u>"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"</u> •All these dangers are caused by human intervention, he says...and thus the "real enemy, then, is humanity itself...." •
Slide 13	<ul style="list-style-type: none"> • To continue on Strong's legacy ... • Though a high school dropout he secures his first job at the UN; operates behind the scenes as a UN insider during much of his career • Strong was involved in several highly questionable business deals during his lifetime. He was a key figure in many companies in Alberta's oil business, rising to CEO of PetroCanada • In 1992-1994 he is CEO of Ontario Hydro, that is predecessor to Hydro One • He receives a \$1 million kickback by Iraq in Saddam Hussein's Oil for Food scandal where Korean Ton Sun Park is convicted and prisoned, but Strong

flees to China

- Earlier, Strong is mentor to Gore, David Suzuki, and Barack Obama in Chicago.
- **Each cashes in on** the Chicago Climate Exchange IPO after 2000
- Strong and Gore are on the Exchange Board
- Sen. Obama is on the Board of the Joyce Foundation that provided \$1 million of startup capital to kickstart the Climate Exchange, but it has a less than stellar history and Gore sells his 2% share for \$18 million in 2010.
- Pres. Obama goes on to force EPA's Clean Power Plan, forced closing of coal plants, oil leasing moratoria, new CAFÉ standards, MACT rule, Stream protection rule, methane rules, questioning hydrofracturing technology, all with intent to end use of coal, oil, and natural gas
- Strong's legacy at the UN is in creating a false climate science of global warming caused by humans to sell UN global governance to followers Gore, Suzuki and Obama;
- He initiates the UNEP leading to formation of IPCC, the UN's false scientific authority used to convince the world of faked climate consensus
- As CEO this legacy strongly influences Ontario Hydro where he initiates the re-organization to form Hydro One
- Ontario's 2009 Green Energy Act codifies this legacy; proof that Ontario and all of Canada's elites have been climate brainwashed.
- Ontarians describe Strong as the Wizard behind the green curtain in Ontario's version of Dorothy, Lion, Tin Man and Scarecrow in search for answers in the Emerald City only to find the Wizard has been telling us fibs.
- Moving along
- By 2017, and still youthful two year old company, Hydro One 's electric rates skyrocket under the Green Energy Act mandates. Before 2020 it must also take action required by the Climate Change Action Plan.
- I speculate: Avista becomes an obvious target, with its large hydro resources and Avista's usefulness as a tool to cap-and-trade away Hydro One's emissions mandates under the 2020 targets of the Plan
- What have we now?
- We have HydroOne, supplying the highest price electricity in North America and Avista, nearly the lowest cost electricity provider in North America, holding the largest hydro-electric resources of any low-priced US electric supplier, and a private enterprise in North America whose board can be convinced to sell out for 50% premium over its share price.
- What could be more appropriate: It's a marriage of the Maurice Strong legacy

Slide 14	<ul style="list-style-type: none"> • Here we have two persons who are severely out of touch with science of climate, how earth operates and the role of CO2. • ON the left is the President of the Sierra Club. He leads an organization whose principal function is to end your use of electricity from coal or natural gas. • In Dec. 2015 hearing Sen. Cruz questions him about climate, the role of CO2, for which he displays a complete lack of knowledge of the topics. • On the right is a Representative. He coauthored this book Apollo 's Fire to promote new energy for our country without relying on carbon based fuels. The foreward is by Bill Clinton. • The books' first chapter contains 25 errors that distorts or contradicts current knowledge on climate, the role of carbon dioxide, carbon based fuels, and their effects on earth. •
Slide 15	<ul style="list-style-type: none"> • Here are Ontario's and the Governor's climate beliefs, but it's a faked consensus. • Various forms of energy are used by people in homes and in businesses • Oil, coal and natural gas produce CO2 when burned. • Some think this produces the greenhouse effect, rising temperature and EPA says it's a pollutant, said to cause global warming but switched that moniker to climate change after realizing that temperature failed to increase. • Nevertheless, it is said to melt ice caps, and Al Gore said the sea levels were rising though he builds a mansion along the San Francisco shoreline •
Slide 16	<ul style="list-style-type: none"> • Now comes the myth—The green energy economy • Energy forms now stress renewables and punishing the use of oil, coal or natural gas is now in vogue • We must embrace the Obama EPA's Clean Power Plan, that others call the Create Poverty Plan, Washington's Renewable Portfolio Standards built on four lies, Taxing or cap and trade of carbon-based fuels to undo our current living standards.
Slide 17	<ul style="list-style-type: none"> • Now for the myth-busting • Proofs, come from more than 20 scientific papers showing the greenhouse effect is imaginary, • that temperatures have not risen but gov't. agencies have manipulated the data.

	<ul style="list-style-type: none"> • More proofs-- the upper atmosphere is not heating, • that CO2 does not accumulate in the upper atmosphere for centuries, • that CO2 is a plant fertilizer that helps plants grow larger and more CO2 helps plants conserve water resource • that CO2 in earth's past reached level 18 to 20 times its current level
Slide 18	<ul style="list-style-type: none"> • Now the chain of events is broken-- These facts sever the chain of climate perversions to expose the myths • The Greenland and Antarctic ice caps are expanding, sea levels in some locations, especially along the US Pacific Coast are falling—at Juneau and Kodiak, at Neah Bay, Astoria, and Crescent City-- and Gore's planetary emergency timelines have expired • EPA's pronouncement of CO2 as a pollutant is also proven untrue and so is being seriously considered by the Trump EPA, and • The pH level of worlds oceans are actually becoming more basic, not more acid, according to more than 490,000 pH readings by NOAA since the 1920's • The bleaching of corals reported from the Great Barrier Reef has been shown to be isolated to the north and due to sea level fall exposing the reefs to weathering •
Slide 19	<ul style="list-style-type: none"> • Now, we have come to realize that the only reason that renewables exist is due to the excessive subsidy support paid to artificially support them, the climate scare initiated by Strong and prosecuted by Gore, Obama, Suzuki and others. • CO2 is that magic mother gas. It helps reefs grow and marine organisms thrive because of the symbiotic relationship between the coral and the algae that coexists within the coral polyp. • CO2 also creates chemical magic; its an ocean system regulator, that I call a fail-safe mechanism. It protects our oceans. It's called a chemical buffer in chemistry, the bicarbonate buffer in this case. Here's how it works. The balance between carbonic acid and bicarbonate in sea water strengthens and resists any tendency of water to become more acid when CO2 is added. The same effect also resists increase in sea water to become more alkaline by the interplay of bicarbonate and CO3. Adding CO2 actually strengthens rather than weakens both mechanisms. This buffering effect could be overwhelmed but only after all limestone, or half of the mountains on earth are dissolved. To ease your mind more, there are other buffers that could take over, the boron-borate sea water buffer and to step in after that, the clay mineral-feldspar buffer.

	<ul style="list-style-type: none"> • However the myth of climate change and dangerous greenhouse gases is still a strongly held belief by the Province of Ontario, and all of Canada's government. It is a belief system built on a ruse. •
Slide 20	<ul style="list-style-type: none"> • Now we have a new president. • Here many gather around president Trump in prayer • WHY? •
Slide 21	<ul style="list-style-type: none"> • On June 1 he announces exiting the Paris Agreement. • Within 6 weeks 17 countries in addition to all of the oil rich Arab states follow his lead • Although we haven't realized it yet but the Paris exit is equivalent to re-winning WWII in terms of simply avoiding the eventual economic collapse of developed economies should they hold fast with the Paris Agreement •
Slide 22	<ul style="list-style-type: none"> • BLANK
Slide 23	<ul style="list-style-type: none"> • Let's compare Electricity Costs • As you will see there is a double meaning to this topic.
Slide 24	<ul style="list-style-type: none"> • Here I show electric rates across the US. • Avista's rate at 7.89 cents per kwhr is below the average for Washington at 8.5 cents • The northeast states are the highest. Rates for some now approach 20 cents per kwhr • Hawaii and Alaska are exceptions but anomalous due to costs to ship fuels to sometimes remote locations that rely on diesel-electric generation of electricity
Slide 25	<ul style="list-style-type: none"> • This chart shows the range of electric charges for large commercial users, comparing 2015 rates and 2016 rates (gray and red bars) a rate just slightly less than residential rates • Note Avista at 7.09 cents in the upper third, Inland Power at about average at 5.5 cents per kwhr and on the bottom or Chelan and Douglas County PUDs. Of course they have their own hydroelectric dams. • Of course large commercial users also pay a demand charge, a chart for which I am not showing. Generally the demand charged per kwhr is quite similar to the electric rate • Before leaving this slide there is very important observation that I must stress. This is an observation and a realization that I have witnessed over the

	<p>three or so years that I have collected utility rates across Canada and the US. This is my observation. The rates advertised on their websites by utility companies in the US closely approximates the billing charges levied on customers, except for minor fixed costs that reflect reasonable overhead costs. Residents can multiply their usage times the advertised rates to approximate their monthly charges. THIS RELATIONSHIP DOES NOT HOLD IN CANADA, AS I WILL EXPLAIN.</p> <ul style="list-style-type: none"> •
<p>Slide 26 (19 min)</p>	<ul style="list-style-type: none"> • The next sequence of slides demonstrates that Ontarians are experiencing real tragedy in their electric rate dilemma that will not subside. • This chart for Provinces in Canada again compares their 2015 and 2016 electric rates for commercial customers. • On the right side, are rates for the two provinces of Nunavut and NW Territories that are anomalies again that have high rates due to their remote locations and long distances. • But number 3 from the right is Ontario at 18 cents. • The key point here is that one cannot multiply this electric rate times the usage and estimate total billings because that amounts to only about one-quarter of the billing charge. • Billings include other charges that are very large and significant • Second is the miscellaneous charges that can add another 15 to 25% to billings, such as transmission, regulatory burden, debt retirement, sales tax, smart meters and remote area costs. • Third, is the global adjustment charge that can add another 70% to the billing. • This charge includes contract rates to generators, retirement of coal plants, and adding renewables consisting of large fleets of wind turbines. • Contracted rates represent sweetheart deals with electric generator companies, to pay generous contract rates well above market prices. Other costs also include cost to add renewables and to retire coal plants is mandated by the Green Energy Act that once represented the best coal fired electric fleet on the continent. •
<p>Slide 27</p>	<ul style="list-style-type: none"> • The chart here compares Ontario's electric costs against its Consumer Price Index for 12 years from 2004 to 2016. • Above that the table shows three Hydro One rates for electricity in 2006 and 2015 with the highest rate at 29.9 cents per kwhr for low density residential. • Rate increases have skyrocketed in the last 10 years by as much as 149%

	<p>with averages moving up 107% in 10 years and</p> <ul style="list-style-type: none"> • Now, compare these rates to Ontario's consumer price index up only 17.8 % in 10 years . Obviously there is something suspicious with electric rates. • Most extraordinary is that Hydro One rates increased 25 % in 2016 and it warns to expect a \$141 per month rate increase beginning in January 2018 •
Slide 28	<ul style="list-style-type: none"> • Two very serious complaints about Ontario's electric rates. • The lady complained on YouTube that it costs her \$800 per month to heat this trailer. • Mayor Watson says rates are killing businesses and seniors on fixed income can't afford their bills •
Slide 29	<ul style="list-style-type: none"> • GOOGLE SEARCH RESULTS: 1. "Hydro rates are killing small business" • 2. "Ontarians are stuck in Premier Wynne's green energy trap" • 3. Father and son find this Echo Bay store has closed its refrigerated and frozen foods due to high electricity costs
Slide 30	<ul style="list-style-type: none"> • This is Ontario's Climate Change Action Plan, certainly a Maurice Strong legacy • I will first show what is underway with electricity in the province, then air the very serious complaints by customers resulting from the 2009 Green Energy Act and then get to the details of the CCAP of 2016 that involves Cap and Trade. •
Slide 31	<ul style="list-style-type: none"> • In 2016, Ontario's Premier Kathleen Wynne says this about the Climate Plan, "the province will link up with the existing Quebec and California CO2 cap and trade system", a plan that is already severely injuring Ontario's people and its economy. • The reason is clear: The Green Energy Act negotiated feed-in tariffs almost four times the existing electricity rates to wind generators and 10 times the electric rates for solar providers and then locked-in 20-year rate guarantees • The article on the right explains that legislation to sell off Hydro One was signed off in 2015 (?). In this action, it removed all public oversight of the company, stripped rights of watchdogs to investigate Hydro One and resolve complaints, bars all FOIA requests, and shields high paid employees from the Sunshine List. •
Slide 32	<ul style="list-style-type: none"> • "Ontario liberals are peddling Hydro One for the equivalent of a Payday loan (National Post)

	<ul style="list-style-type: none"> • “Getting Zapped: Ontario’s residential hydro rates are increasing faster than anywhere else in North America” (Consumer Policy Institute)
Slide 33	<ul style="list-style-type: none"> • The Green Energy Act, round 2, is now underway. This is the part that involves Avista Corp. Many of the comments on this slide refer to events from 2009 Green Energy Act up to present time • The comments signal a Province-wide distress call by customers as round 2 gets underway with results that one can predict will bring hardship and devastate customers and business more than today. •
Slide 34	<ul style="list-style-type: none"> • Experiences on 3 continents provides clear evidence that wind does not work to reliably provide electricity supply: in Ontario, Washington, Minnesota, New Hampshire, Germany, California, Denmark, Spain, UK, Australia, and China • Comments to right reflect the health problems, electric rate distress, property values jeopardized, political favoritism, rampant closed-door deals to gain political advantage, and clearly demonstrate unreliability and public hatred of Ontario’s wind turbine system. • This aerial view map by Wayne Gulden of southern Ontario shows 237 wind projects bordering along Great Lakes of Huron, Erie, and Ontario. The province is littered by massive wind turbine installations at both off-shore and on-shore locations. Gulden compiled this information from Canada’s Independent Electric Supply Operator (IESO). • A key point here is that a similar government agency as IESO, the custodian or a website with information of this type is not available in Washington. This needs to change. The public needs ability to monitor Washington’s situation and legislation needs to be in place to accomplish oversight if needed. Presently BPA has some data that I was directed to by Avista, but more, much more is needed to properly follow deployment of this untested and experimental technology. Engineers at Avista say they experience a decided lack of data for oversight and monitoring purposes. •
Slide 35	<ul style="list-style-type: none"> • Cap and Trade
Slide 36 Word count 3497 = 25 mins	<ul style="list-style-type: none"> • Cap and trade is easily labeled a deception because it does not represent nor are any of the advantages realized as it claims to provide. • The Cap and trade virtuous cycle facilitates removing high carbon power sources and replacing them with solar, wind and so-called low carbon sources, such as nuclear. •

Slide 37	<ul style="list-style-type: none"> • Shown below are Ontario’s greenhouse gas reduction targets from page 13 of the CCAP. In 2014 GHG’s had to be 6% below their 1990 levels. The Avista acquisition is clearly made to meet the 2020 target year when GHGs must be 15% below the 1990 levels. By 2050 GHGs must be 80% below 1990 levels. I see that even the 2030 level will greatly stress the economic safety and vitality of the Province. • In the red shaded area I have used the GHG reduction targets to forecast the increase in the cost of electricity. The electric cost is clearly related to the carbon price, like a multiplier in economics, and so the increase in severity of carbon reduction schemes will dictate the increase in the price of electricity • Accordingly the electricity in 2020 will be 1.8 times higher than 2014 and by 2050 it will be 12.3 times (1230 %) higher than the price in 2014. • You can see that the payoff of the Avista acquisition is already built in to the 2020 price,
Slide 38	<ul style="list-style-type: none"> • But what happens by “reducing emissions through cap and trade”?? • The practitioner avoids but does not remove the emissions. In our case, the acquisition of Avista Corp. is the “traded” item. It represents “payoff” to avoid reducing emission. Avista’s hydro is to be security....like a stock or bond. • The responsibility for reducing emissions is passed down the line, essentially dismissed, forgotten. • This is a false hope, a lie • It adds programmatic costs as the cost of doing nothing is still borne by ratepayers • Its neither virtuous, nor truthful, but a deception.
Slide 39	<ul style="list-style-type: none"> • Here comes the bombshell. • I have here carried my forecast one step more (in blue) and then multiplied them by the numbers in boxes in the 2nd column (outlined in red). Here, the price of carbon is \$157 per tonne and the electric cost is \$107 per month and duplicated in the red table. • From here you can see the forecasted price of carbon by 2050 is \$1931 per tonne and the electric cost is \$1316 per month. Remember, this electric rate is only a part of the total billing. • Both costs will be paid by customers but the carbon price will be invisible in as it will not appear on the electric bill. Politicians love it because it is never identified as a tax. •
Slide 40	<ul style="list-style-type: none"> • The costs of carbon are steep, whether or not they provide a benefit. Here is

	<p>an example of its cost.</p> <ul style="list-style-type: none"> • In B.C. they levy a tax of \$30 per tonne on carbon. • A prominent B.C. company had a carbon tax bill of \$55 million in 2015 and \$48 million in 2016. • Canada intends to install a nationwide carbon tax in 2018 that will increase to \$50 per tonne by 2022
Slide 41	<ul style="list-style-type: none"> • Here, Canada and Australia clearly demonstrate the damage that is inflicted by taxing carbon. • In 2012 Australia installed a carbon tax of \$15 /tonne, one-half the B.C. rate. • Unemployment rose immediately (SEE red line on the CHART) • As companies were forced to adjust, the sudden additional costs were mitigated by layoff of employees. • In 2014, PM Tony Abbott convinced Australia’s legislature to remove the tax and the unemployed rolls re-adjusted slowly to the pre-tax days. Australia, by experience, becomes the first modern country to repeal a carbon tax. • Experiment over. Failure! Reject the hypothesis. • The cost of C&T or a carbon tax if imposed elsewhere will have the same troubling effect on any economy.
Slide 42	<ul style="list-style-type: none"> • C&T is not a market solution but it’s an invisible penalty that masks negative consequences behind rhetorical benefits of new programs • Governments create artificial scarcity through C&T to restrict the use of oil, coal or natural gas, that’s unrelated to supply based on a number dreamed up by bureaucrats • It’s a politically dishonest scheme to increase costs so it is easily a tax on energy, the lifeblood of our economy • The cost of C&T is invisible in energy bills. Its camouflaged behind higher costs of goods and more disguised than a straightforward tax,....the reason that politicians endorse it. Politicians can feign the benefit, and safely escape blame for higher taxes. Its disingenuous because politicians concerns are in regulating but they fail miserably to understand damage inflicted by policy mis-applied due to ignorance of science and economics. <u>C&T’s most repulsive attribute</u> applied to carbon dioxide is that its no more than a permanently installed full-scale experiment for which no pro or con or proof of concept or pilot data exists. •
Slide 43	<ul style="list-style-type: none"> • C&T increases the price of energy by 85% so the new cost compares to the imagined cost of renewable energy • It does not reduce emissions as we have discussed and as Europe has

	<p>experienced.</p> <ul style="list-style-type: none"> • It disproportionately harms the poor and low income families. • For example a 15% decrease in CO2 costs the poor 15% of their incomes. • Obama wanted to decrease CO2 by 83% (and Ontario by 80%), which costs the poor 85% of their incomes. • C&T harms energy security. It does this by eroding the U.S. ability (or Canada's) to produce energy because 83% of America's energy is produced at home. • C&T encourages importing more oil from unfriendly countries. • C&T here is not comparable to how it was applied to sulfur emissions because C&T impacts all forms of energy • Further, C&T produces no impact on climate, as carbon-based fuels or carbon dioxide have no effect on climate, and this fully delegitimizes its purpose • C&T forces industry to leave. For example the high cost of natural gas caused the loss of 3 million manufacturing jobs since 2000.
Slide 44	<ul style="list-style-type: none"> • Its most severe impact lies in reducing GDP, especially in the US and Canada which have the highest GDPs because of their extraordinarily large use of energy (CHART) • The chart compares energy use against per capita energy use • US has the highest GDP because of its extraordinary energy use. • If one wishes to destroy an economy from within, by discouraging energy use, by tax or C&T, a more perfect plan cannot be found. • There can be no benefit worthy of economic suicide. • This is likely the plan devised by Strong at the U.N. to: using propaganda to brain wash a society with message to demonize and end the use of oil and coal under the false pretense that use of these fuels and by-products cause irreparable damage of earth's environment •
Slide 45 4718 words = 34 mins	<ul style="list-style-type: none"> • Ontario joined the Western Climate Initiative with others in 2015 • Washington is seeking C&T as I speak (2017) • It uses carbon pricing as the cornerstone to battle climate to reduce what some call carbon pollution but the EPA will reverse this rule • Promoters expect incomes of \$1.8 billion /year • They imagine a competitive economy while achieving a predictable climate. • None of these claims have been pilot tested. They are merely "Fantasy talk." • C&T is susceptible to fraud, both inside and outside gov't.

- It worsens the pain of Ontario’s already soaring energy prices from its Green Energy Act of 2009.
- **WHAT’S GOING ON IN THE US**
 - Dec. 17 2014—**Wash. Gov. Inslee unveils carbon C&T plan, a \$1 billion hidden tax**
 - 10 March 2017—**Trump petitions to withdraw from UN’ Convention on Climate Change**
 - June 1--July 15 2017--**18 countries and oil-rich Arab countries follow the US to exit the Paris Agreement on Climate**
 - July 7 June 6, 2017—**The Obama EPA’s endangerment finding is found invalid; CO2 is found not a pollutant;**
 - Oct. 6 2017—**EPA Sec’y Pruitt announces proposed repeal of Obama epa Clean Power Plan**
 - On Oct. 13 comments were due – **Washington’s Ecology Dept asks for recommendations on which C&T market to use, CA, NZ, SKorea, EU**
 - Oct 4 2017—Trump’s Dept of Interior will delay implementing rule on methane emission on OG lands
 - June 8 2017—17 papers dispute greenhouse effect as explanation for climate change
 - June 7 2017 – 58 scientific papers declare Global warming a myth
 - Feb 18, 28 Feb 2017-German electric prices to soar to 45 Euro Cents by 2020 saddled by 35 billion Euros in taxes, feed-in tariffs and losing 5.7 billion Euros. As renewable wreak havoc, GHG emissions keep rising
 - June 12 2017—East European states revolt against Paris Agreement
 - Energy Sec’y Perry proposes that FERC issue new rules to help nuclear and coal plants compete in wholesale markets
 - June 9 2017—California’s bogus renewable energy

Slide
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The Ontario Ministry of Energy and Hydro One area unresponsive monopolies

- Ontario’s planning for power is broken
- The MoE
 - operates against planners advice
 - offers renewable wind generators above market price tariffs that cost customers \$9.2 billion more than procured power
- Ontario Energy Board is unconcerned about cost
- The Green Energy Act promotes a re-doubling of Ontario’s wind turbine expansion
- Now Ontario is implementing Cap and Trade (Green Energy Act Round 2)

-
- Hydro One.....**
 - Customers are paying above market priced electricity overpriced by Global Adjustment charges, which triples energy bills
 - Its outages last 30% longer and are 24% more frequent
 - Hydro One charges customers for declining systems while it games the Ont. Energy Board to get more money
 - Its inefficient and budgets are not benchmarked
 - Cost overruns are built into budgets and its unresponsive to customer complaints
 - **Hydro One's Conservation efforts are a waste of money—**
 - it squanders \$2.25 billion to control only 230,000 tonnes of GHG emissions, spending \$500/tonne, yet impacts a mere 0.0003% of total emissions
 - **THE KEY ISSUE, or SERIOUS CONCERN I SEE HERE IS THIS:**
 - **The MoE is not just a regulatory body and Hydro One cannot be viewed as a separate entity like WUTC and Avista Utilities in Washington. The Ontario MINISTRY of ENERGY along with its Premier and HYDRO ONE arrangement is tantamount to conjoined twins. When the Ministry says jump, Hydro One submits. Remember, the Ministry, i.e. the Province are the majority shareholder of Hydro One, ~~to who they owe a duty.~~**

Slide
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Corporate welfare

- Ratepayers are ultimately unwilling participants and paying in full for the rush into the Green Energy Act and now CCAP.
- 82% of subsidies go to foreign wind generators with \$8 billion in subsidies paid to date; \$13 billion more to go
- Also generators are guaranteed \$137/mwhr tariff and access to the transmission grid
- Results in a massive oversupply of electricity that it pays New York, Manitoba and Quebec to take
- The electric companies--Toronto Hydro, Hydro One—are run by *promise them anything* politicians *focused on getting re-elected*
- Ont. Needs to break up and private its electricity sector because the gov't. has created a shambles of Ontario's energy system
-
- MORE ON RIGHT COLUMN ____ MOVE ON

Slide 48	<ul style="list-style-type: none"> • Ontario must re-write its Green Energy Act or else..... • Likelihood of its bankruptcy is currently 43% • Ontario has paid \$37 billion above market in 8 years with an additional \$133 billion due • As a result, industry is fleeing the province and power bills have caused 1 in 20 businesses to shut • Their Choice: Pay of the \$132 billion or Re-write the contracts
Slide 49	<ul style="list-style-type: none"> • BLANK
Slide 50	<ul style="list-style-type: none"> • Torturing Renewables
Slide 51	<ul style="list-style-type: none"> • This chart shows renewable leadership for US states • Across the bottom is so-called clean tech leadership and residential electricity price is scaled along the left axis • WA and OR fall on the low side • CA and MA fall along the right side with high costs at 19-20 cents/kwhr and with highest percentage of renewables
Slide 52 Word count = 5560 = 40 min	<ul style="list-style-type: none"> • This illustration is much like the last chart but shows several countries with their rates in Euro cents /kwhr on the left axis and installed renewables in watts/capita along the bottom • Note the current cost of Germany's electricity at 38 Euro cents on the upper right (yellow star) and then Hydro One's 29.9 cents adjusted to 20.2 Euro cents (1=1.49 c) (small blue star) and then there is Avista at 7.89 cents US adjusted to 6.6 Euro cents (1=1.19 us) (see red star) • BUT WAIT—After adding Hydro Ones' global adjustment charge and other charges Hydro One's billing rate would be double or more its electric rate, to place somewhere above Germany at about 40 Euro Cents/kwhr (large blue star). • THAT'S A SEPARATION OF 33 EURO CENTS/KWHR from Avista's today on the lower left. • SO I ASK THE QUESTION—WHY WOULD ANY AVISTA CUSTOMER WANT TO BE PART OF THE HYDRO ONE high electric cost DISASTER that includes also facing A CIRCLING BANKRUPTCY?
Slide 53	<ul style="list-style-type: none"> • This slide shows the Hinckley Point C power plant in Wales just approved. It will provide 7% of the electricity needed for England and occupies a 430 acre site. • TO provide the same amount of power in the UK from onshore wind turbines would require an area of 250,000 acres, a square 20 mi x 20 mi, and

	<p>people cannot live there due to the health problems of wind turbines and the building code setback of 550 m to the nearest home or business. That's an area 580 times larger than the area of the Hinckley plant.</p> <ul style="list-style-type: none"> • To provide the power equivalent to the Hinckley plant from wind turbines in Ontario would require almost 6 times the area in Wales because the turbine spacing must be 1100 m (3500 ft) in Ontario compared to only 1450 ft in Wales • That equates to a much larger square of 49 mi x 49 mi square, 1.53 million acres, compared to 430 acres at the Hinkley plant and remember people cannot live there. • The other disadvantage is that few prime turbine locations remain in Ontario since the best sites are located near the lake shores are nearly all occupied. • Added to all other problems is the intermittency problem that I will describe next and is common to all wind turbines. Ontario's other problem with its current 273 wind farms is that they provide less than 2% of its electric need yet wind turbine deployment is responsible for three-fourths (75%) of the Province's energy cost.
Slide 54	<ul style="list-style-type: none"> • Here is what Warren Buffett says about wind farms. " I will do anything covered by the law to reduce Berkshire's tax rate. 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. • On energy subsidies in the box on the lower left: Natural gas and coal receive 66 cents /mwhr in subsidies, but wind turbines get \$56.29 /mwhr • Major differences exist between the US and Ontario. Due to expiring PTC after 10 years in the US, the wind farms will no longer serve investors' needs, so will become too costly to operate under normal economics, and thus will be idled or dismantled. In Ontario, however, the gov't. has signed 20 year price guarantees. •
Slide 55	<ul style="list-style-type: none"> • HERE I show actual wind generation results, or experience for WA and OR from 2015. • This is the wind turbine electricity generation record for all of the WA and OR for 46 wind farms capable of 4,782 MW but provide only 26%, or 1,243 MW. The list of wind farms is there on the left and on the right is a 6 month record of output from Jan. 1 to June 30 in 2015 of all 46 wind farms, which resembles a needle diagram, with needles on their heads. The record data comes from Bonneville Power Administration. BPA has balancing authority to provide you with power 100 % of the time. These wind farms cannot do

	<p>that alone. They need a backup source for 100% of the time.</p> <ul style="list-style-type: none"> • The white space between the needles shows when they are not producing electricity. Note the two broad 2 week long white spaces when no power was produced in January and in March and several more one week long periods across the chart when no power was produced. • Would you tolerate several weeks without power? Well that's what wind turbines in WA and OR provide. <i>Its not much and it wouldn't operate your microwave to cook your breakfast lunch or dinner on several days.</i> • The horizontal red bar on the top is when they are producing at 100% capacity, which is never reached during the entire 6 months. • One Question: On how many days is no power produced during this 6 mos? •
<p>Slide 56</p> <p>6113 words = 44 min</p>	<ul style="list-style-type: none"> • Here's the tally: 15 days in January and 6 days or 8 days in each of Feb., March and April for a total of 37 days. I didn't count May or June. There were 64 days in 2014. • On average, wind in Washington is 26 % efficient. When its off its 100% inefficient. • We can see that renewable wind electricity is unreliable, intermittent. Using wind turbines requires FULL-TIME backup power from another source. The other source may be hydro, nuclear, gas or coal. • Having more wind turbines does not provide full time power, because as you can see all 46 wind farms are down at the same time. It's caused by a temperature inversions, weather events common in the winter and spring time. • So how intelligent is it to have, pay for, and maintain two power sources when one will do? Why not just use one source that provides electricity full time and spend the subsidies on a more deserving cause.
<p>Slide 57</p>	<ul style="list-style-type: none"> • Just a few comments about renewables experience in other countries. • <i>In the UK electric prices have risen 133% due to wind turbine building, which has been ineffective in reducing emissions, so the UK rejects building any more. They instead will spend \$40 billion on the Hinckley Point C nuclear.</i> • The Danes were the example to follow said Pres. Obama, yet they pay the highest electric rates in the EU along with Germany and still pay \$376 million in subsidies to producers and export 57% of the wind power for free. Subsidies pay \$140,000 per wind job which is 250% higher than the average Danish worker. • In Spain each renewable jobs created caused the loss of 2.2 jobs elsewhere in the economy. Also each green MEGAWATT destroyed 5.39 jobs elsewhere, and 9 out of 10 green jobs created ended when construction

	ended.
Slide 58	<ul style="list-style-type: none"> • In Germany, its Energy Minister says his country has reached its limits with renewable subsidies and its highest electric rates in EU. He says Germany currently risks de-industrialization, • Yet its emissions continue to rise and it has committed to build another 18 coal-fired plants • A winter storm in South Australia last winter and a heat wave in February 2017 each caused blackouts leading to grid failures due to excessive reliance on wind farms that now represent 41% of supply. This last event caused spot electric rates to spike to \$13,440 /MWhr at the time which coincided to similar experience in QSLD and NSW. •
Slide 59	<ul style="list-style-type: none"> • South Australia’s answer to stabilize the grid and avoid blackout risk was that the government operator, AEMO ordered the GM Holden car factory in Adelaide to close, with loss of 13,000 jobs
Slide 60	<ul style="list-style-type: none"> • BLANK
Slide 61	<ul style="list-style-type: none"> • BATTLING CLIMATE---DAMAGES POSSIBLE (last 2 slides)
Slide 62	<ul style="list-style-type: none"> • Let’s look at the economic impact of limiting or taxing carbon dioxide in the forecasted impacts of the Paris Climate Agreement and the Obama EPA’s Clean Power Plan. Last week a finance talk show in Reno called the CPP the Create Poverty Plan. • Under Paris on the left, the red and green bars show world per capita income. Currently its \$10,000. • By EXITING the Paris Agreement it would jump to \$30,000 by 2050, but TO REMAIN with the Paris Agreement and go “GREEN” results in per capita income falling 95% to less than \$1,000 by 2050, about equivalent to Haiti today. • On the right, to continue with the EPA’s Clean Power Plan would cause electric rates to jump at least 10% in 41 states and to spike by 40% or more in 7 states
Slide 63	<ul style="list-style-type: none"> • Now for Washington State. Our emissions are 0.24% of world total emissions. Here I speak to damage caused by limiting or taxing carbon. • Two cases illustrate what would happen if Washington follows the Paris Climate Plan or if CO2 is taxed or C&T’d with objective to limit GHG emissions. • FIRST—Ending all of Washington’s emissions <ul style="list-style-type: none"> ○ ...would be replaced in 35 days from other countries

	<ul style="list-style-type: none"> ○ ...would reduce temperature by 0.0018 deg F by 2050 ○ ...would produce a sea level rise savings of 0.008 in by 2050 ● SECOND—The costs to meet Washington’s emission targets would result in <ul style="list-style-type: none"> ○ Annual family income losses of \$8,200 by 2030 (in 12 years) ○ Cause job losses of 82,000 in 12 years (by 2030), ○ Increase gasoline prices very significantly, and ○ Reduce state’s GDP by \$14.7 billion annually ● IF BOTH CARBON REDUCTION Non-sense MEASURES ARE IMPLEMENTED, IT WOULD CAUSE OUR STATE’S ECONOMY TO IMPLODE, THAT IS... <ul style="list-style-type: none"> ○ If CO2 is taxed at some rate, like in Canada (\$50/tonne) as Inslee has attempted for two years and if cap and trade is installed, as Ecology is anticipating, then the pain could easily double or treble what I just outlined.
Slide 64	<ul style="list-style-type: none"> ● Gov. Inslee’s Chameleon Tax
Slide 65 7076 words = 51 min	<ul style="list-style-type: none"> ● Wind Turbine electricity costs
Slide 66	<ul style="list-style-type: none"> ● Hurricane Irma Rules for wind turbines
Slide 67	<ul style="list-style-type: none"> ● Anti-wind Advocates (websites)
Slide 68 - 71	<ul style="list-style-type: none"> ● Impacts on Avista customers (1-4)
Slide 72	<p>WIND WARNINGS</p> <ul style="list-style-type: none"> ● Proof wind turbines take thousands off your home: Value of houses within 1.2 miles of large wind farms slashed by 11%, study finds ● Farmer says that legislators are being fooled by easy money promises ● Four reasons not to sign a wind lease ● Farmer regrets signing wind lease: not worth the problems that resulted ● Impacts of wind farms on water, hydrology, meteorology

- Environmental impacts of large wind turbine projects
- Incompatibility of wind turbines and crop farming
- Wind turbines pose great danger to crop dusters
- Wind turbines reduce crop growth
- Be very careful when hiring a wind attorney
- Modern wind turbines generates dangerous dirty electricity
- Industrial wind takes terrible toll on farm animals
- Wind farms and family farms—Not compatible
- Wind energy production: Legal issues and liability concerns for landowners
- Wind projects risk losing tourism income
- Wind farms adversely affect hunting
- Weaponizing infrasound from wind turbines
- Infrasound from wind turbines more problematic than audible sound
- Wind projects cause serious interference with military facilities
- Two projects, Horse and Timbermill wind projects caused net economic impact losses of \$10 million and \$12 million per year
- Adverse health effects of wind turbine noise exposure
- Wind turbines and sleep deprivation
- Wind turbines harm wildlife and farm livestock
- Wind leaseholders suffer economic losses
- Wind turbines affect agricultural yields up to 15 miles away
- Misleading costs and incomes of wind and solar
- Local Maine wind ordinance: 2 mile setback; 25 dba noise limit
- 13th complaint filed against wind project for well water interference
- Minnesota’s high cost of wind energy failure
- Wind turbines destroyed in Puerto Rico by hurricane Maria
- For additional information on all of these costs, please see [WiseEnergy.org](http://www.wiseenergy.org).
- Wind turbine total annual output 2,500 watts per acre per year
<http://www.efn-usa.org/2013-11-06-07-29-01/item/1507-wind-power-no-wind-moderate-wind-tempest-howard-hayden-usofa>

Slide 73	end
74-90	Extra slides