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SUMMARY Relating to

Climate Change Be it enacted by

the people of Oregon. A bill

**BACKGROUND:** The table below – Northwest Region Requirements and Resources -- along with other critical information, was presented by a grid expert at an October 18, 2023 Cascade Policy Institute Conference.

Note in the table for this winter, 2024-2025, the Northwest electric grid is projected to fall 927 megawatts short of demand. Deficits are projected to be almost nine times as severe in 10 years, no doubt worse with clean-energy hydro dams now being removed at an accelerating rate.

The report revealed that there is a likelihood of activating Virtual Generators at homes to help **make up the shortfall** when needed. A Virtual Generator is equipped to switch the smart meter **at** a home which is charging an electrical vehicle at night and drain the EV battery charge back into the grid. People on the way to work in the morning will be out of luck, and out of power.

To make matters worse, any such effort to reduce emissions of carbon dioxide takes 150 years to have an effect due to the phenomenon of residence time in the atmosphere. Believe it or not, It takes that long for existing Carbon Dioxide to dissipate, so Electric Vehicles, Solar Panels and Windmills have no effect whatsoever on any imagined ill-effects of current CO<sub>2</sub> levels. The only effective and natural alternative is photosynthesis.

**THEREFORE:** Anyone purchasing or specifying an EV, Hybrid vehicle, Solar Panels, Windmills, or other like alternative energy system, must sign the disclaimer below indicating they understand that their purchase will have no impact on reducing carbon dioxide in the atmosphere for 150 years due to the phenomenon of Residence Time.

# Northwest Region Requirements and Resources

**Table 1. Northwest Region Requirements and Resources – Annual Energy** shows the sum of the individual utilities' requirements and firm resources for each of the next 10 years. Expected firm load and exports make up the total firm regional requirements.

Average Megawatts	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33
<b>Firm Requirements</b>										
Load <sup>1/</sup>	21,814	22,791	23,694	24,558	25,545	26,225	26,485	26,681	26,841	27,006
Exports	520	502	502	501	501	501	501	501	501	501
<b>Total</b>	<b>22,334</b>	<b>23,293</b>	<b>24,195</b>	<b>25,060</b>	<b>26,046</b>	<b>26,726</b>	<b>26,986</b>	<b>27,182</b>	<b>27,342</b>	<b>27,507</b>
<b>Firm Resources</b>										
Hydro <sup>2/</sup>	11,459	11,439	11,424	11,462	11,424	11,402	11,200	11,200	11,161	11,005
Small Thermal/Misc.	28	28	28	28	28	18	11	11	11	11
Natural Gas <sup>3/</sup>	4,107	4,497	4,801	4,551	4,546	4,544	4,474	4,426	4,225	4,222
Renewables-Other	276	275	273	274	269	268	268	266	264	260
Solar	503	503	503	502	502	501	501	500	498	483
Wind	1,757	1,747	1,747	1,721	1,661	1,623	1,611	1,596	1,596	1,622
Cogeneration	41	41	34	32	31	31	31	31	31	31
Imports	488	488	467	467	453	380	324	310	310	222
Nuclear	1,116	994	1,116	994	1,116	994	1,116	994	1,116	994
Coal	2,583	2,356	1,593	1,065	1,068	891	593	479	497	508
<b>Total</b>	<b>22,357</b>	<b>22,366</b>	<b>21,985</b>	<b>21,096</b>	<b>21,097</b>	<b>20,652</b>	<b>20,127</b>	<b>19,810</b>	<b>19,708</b>	<b>19,357</b>
<b>Surplus (Deficit)</b>	<b>22</b>	<b>(927)</b>	<b>(2,210)</b>	<b>(3,963)</b>	<b>(4,949)</b>	<b>(6,074)</b>	<b>(6,859)</b>	<b>(7,372)</b>	<b>(7,634)</b>	<b>(8,150)</b>

<sup>1/</sup> Load net of energy efficiency

<sup>2/</sup> Firm hydro for energy is the generation expected assuming critical (8%) water condition (the methodology is changed for the 2023 report)

<sup>3/</sup> More energy may be available from natural gas power plants

[https://cctruth.org/residence\\_time.pdf](https://cctruth.org/residence_time.pdf)

Atmospheric Carbon Dioxide residence time is a key factor. In a 2003 IPCC report, The Intergovernmental Panel on Climate Change gave a range of 5 years to 200 years for residence time, which can be a range of time. However, most Chemical Engineers use average residence time. That is what we are interested in. We need to know on average how long it takes a molecule to be consumed by photosynthesis, diffused to the exosphere, or captured by oceans. This time period is at least 150 years. The full manuscript may be accessed at:

<https://agupubs.onlinelibrary.wiley.com/doi/full/10.1002/2017JD028121>

Also, that means anything that is done to reduce emissions of carbon dioxide takes 150 years to have an effect due to the phenomenon of residence time. Believe it or not, it takes that long for existing Carbon Dioxide to dissipate, so Electric Vehicles have no effect on any imagined ill-effects of current CO<sub>2</sub> levels. This is validated by more than 160 PhDs in 11 published manuscripts, summarized in one published manuscript.

Residence Time (Years)	Author	Year
<b>700</b>	Allen	2009
<b>610</b>	Zickfeld	2013
<b>500</b>	Matthews	2008
<b>300</b>	Plattner	2008
<b>270</b>	Cao	2010
<b>230</b>	Zickfeld	2012
<b>220</b>	Solomon	2012
<b>220</b>	Knutti	2012
<b>210</b>	Gillett	2011
<b>180</b>	Frolicher	2010
<b>150</b>	Hare	2006

Even at a residence time of 100 years, atmospheric CO<sub>2</sub> never lowers by working on carbon dioxide emissions reduction. Constraints for this chart.

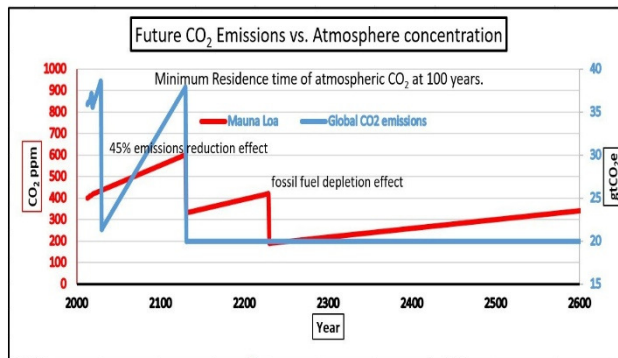
45% reduction in fossil fuel CO<sub>2</sub> emissions by 2030

55% reduction in fossil fuel CO<sub>2</sub> emissions by 2130 due to depletion of those fuels. 2030 45% reduction in the rate of rise of

Atmospheric CO<sub>2</sub>.

2130 45% reduction in CO<sub>2</sub> concentration (IPCC false agenda)

**2230 55% reduction in CO<sub>2</sub> concentration and rate.**



Another way to look at residence time is as a signature from past events, which lowered CO<sub>2</sub> emissions. Examples are, the oil embargo in the 1970's, multiple recessions, the big, worldwide recession in 2009, and the recent COVID-19 pandemic. These are examples of lowered worldwide, emissions that presumably should have lowered CO<sub>2</sub> levels. Yet, below is the current graph of Mauna Loa CO<sub>2</sub>. You can clearly see no signature from these events, as the scientifically predicted 150 years has not transpired.

# U.N. Predicts Disaster if Global Warming Not Checked

PETER JAMES SPIELMAN

June 29, 1989

UNITED NATIONS (AP) — A senior U.N. environmental official says entire nations could be wiped off the face of the Earth by rising sea levels if the global warming trend is not reversed by the year 2000.

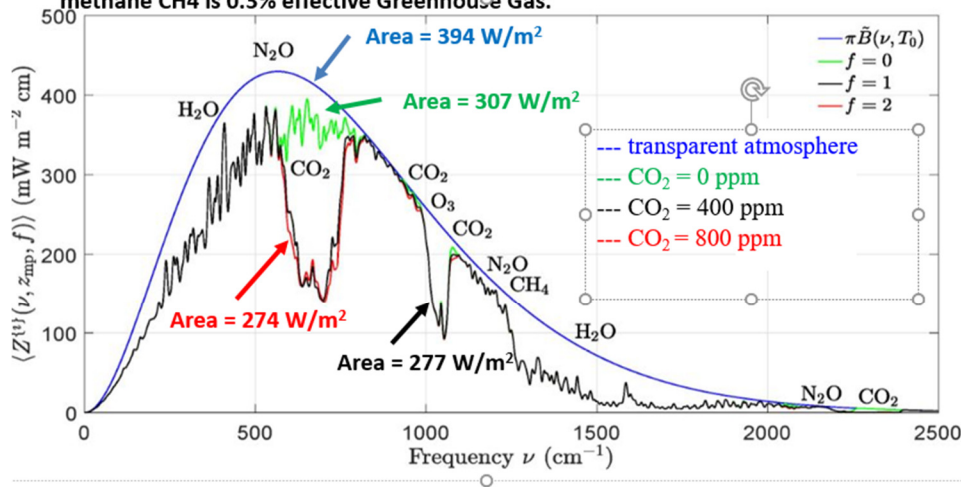


Above is the same Fear Mongering nonsense the United Nations repeats every year that never happens. Even if we doubled the concentration of carbon dioxide, the warming won't change. However, below is the ultimate evidence:



# Plank Schwarzschild Curve

Thermal radiation to space from the Earth, with a surface temperature of 15.5 C and with greenhouse gases is the area under the jagged black "Schwarzschild" curve. This is only about 70% of what it would be without greenhouse gases, the area under the smooth blue "Planck" curve. The Sun heats the Earth and greenhouse gases hinder the cooling. H2O water vapor is the 89% effect greenhouse gas followed by CO2 carbon dioxide is 8.9% greenhouse effect and methane CH4 is 0.3% effective Greenhouse Gas.



**Max Planck**  
1858-1947



**Karl Schwarzschild**  
1873-1916

This chart was developed in the early part of the 20<sup>th</sup> Century by these three famous physicists, including Albert Einstein, and has therefore been taught in every college physics classroom for at least the last 50 years. The IPCC (International Panel of Climate Change) Report, criminally ignores this settled science in their junk science. IPCC Working Group One to allegedly prove their fake global warming agenda. It was never benchmarked, and the data were based on equal greenhouse gas concentrations which will never occur in reality.

[illegible]

Purchaser or Specifiers of EV's must sign an agreement on Form 2 prior to purchase or specification.

## Form 2

I the undersigned understand and agree that this purchase or specification will not lower atmospheric carbon dioxide for a period of at least 150 years.

[illegible]



Purchaser or Specifier of any Windmill must sign this Disclaimer Agreement on Form 3 prior to purchase or specification. I understand that these blades cannot be recycled and even with a massive, maintained contract will never pay for themselves. In addition, these blades kill protected bird species and the sounds produced cause whales and dolphins to quite literally go crazy and die.

## Form 3

I the undersigned understand and agree that this purchase or specification, will not lower atmospheric carbon dioxide for a period of at least 150 years

[illegible]