Net Zero for Dummies

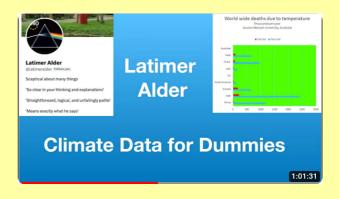
Latimer Alder

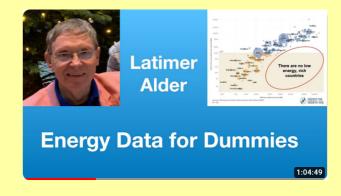
Twitter: @latimeralder

April 2024

Introduction

- Independent Commentator
- Not affiliated to any organisation
- I go where the data takes me





Agenda

The 'Science' of Net Zero

A Net Zero Case Study – UK

Net Zero in the World

Conclusions

What is Net Zero?

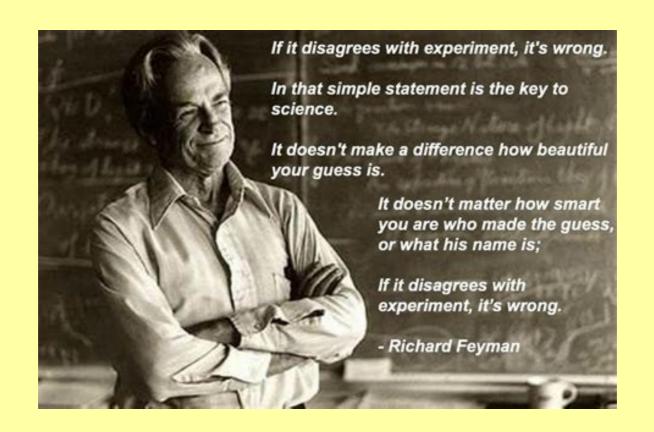
The idea that we/Earth are/is in so much peril our only hope is to eliminate all fossil fuels:-

Rapidly

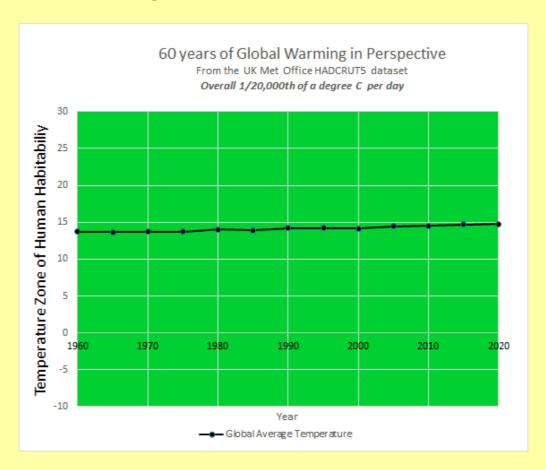
Completely

At any cost – financial or societal

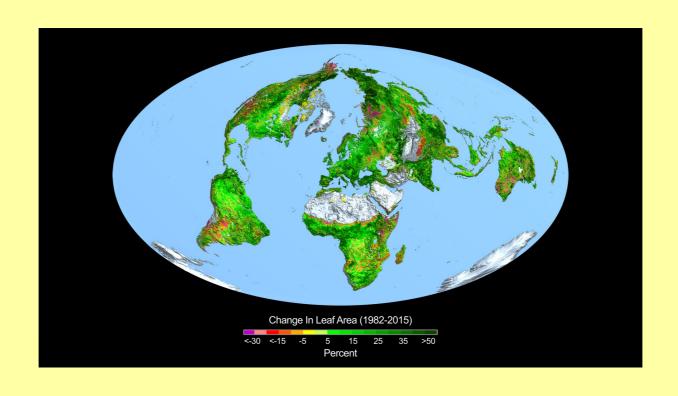
What is Science?



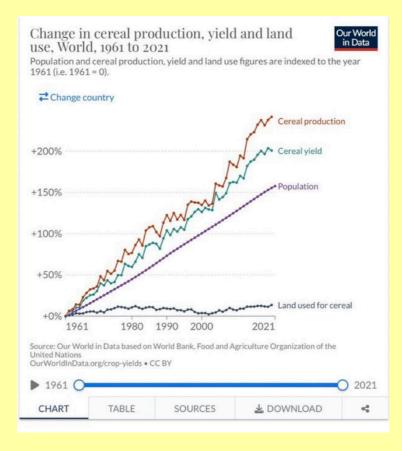
Global Warming/Climate Change Doing the Experiment!



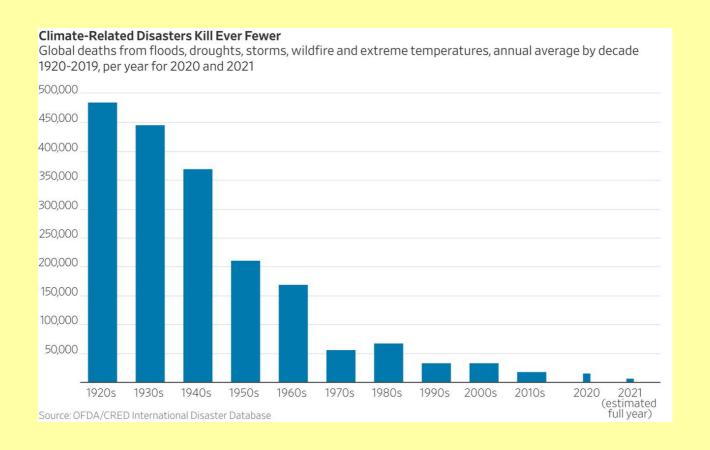
'Catastrophic' Climate Change? A Greener World



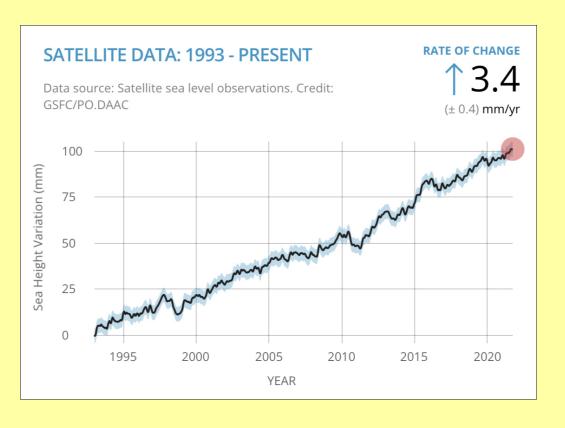
'Catastrophic' Climate Change? A Better Fed World



'Catastrophic' Climate Change? A Safer World



'Catastrophic' Climate Change? Sea Level Rise – 1 foot a Century



The Climate Change Experiment Results

A Warmer World

A Greener World

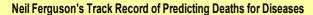
A Better-Fed World

A Safer World

Sealevel +1 foot per century

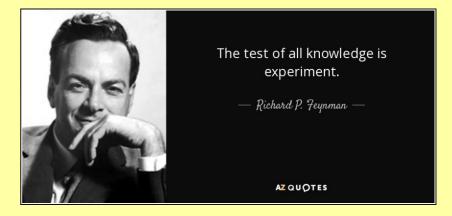
Models





Disease	Ferguson's Prediction	Actual	Error
Foot and Mouth	50,000	200	250 times too big
Brid Flu	200,000,000	400	500,000 times too big
Swine Flu	65,000	457	150 times too big
Covid	510,000	42,000 (so far)	12 times too big

Compiled by Latimer Alder, 4 October 2020





Consensus



Consensus is invoked only in situations where the science is not solid enough.

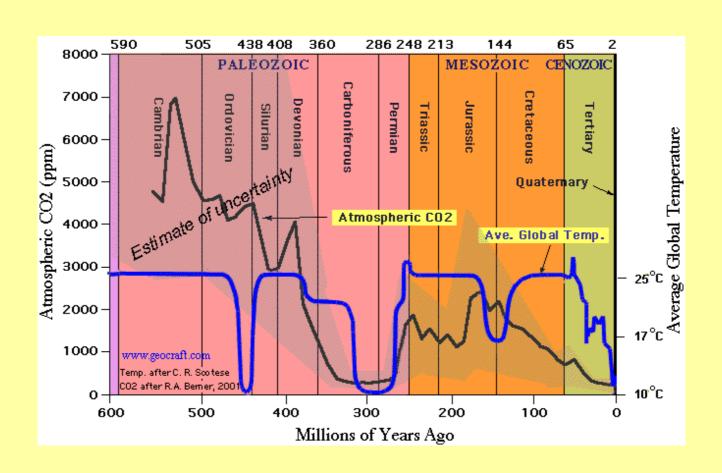
— Michael Crichton —

AZ QUOTES

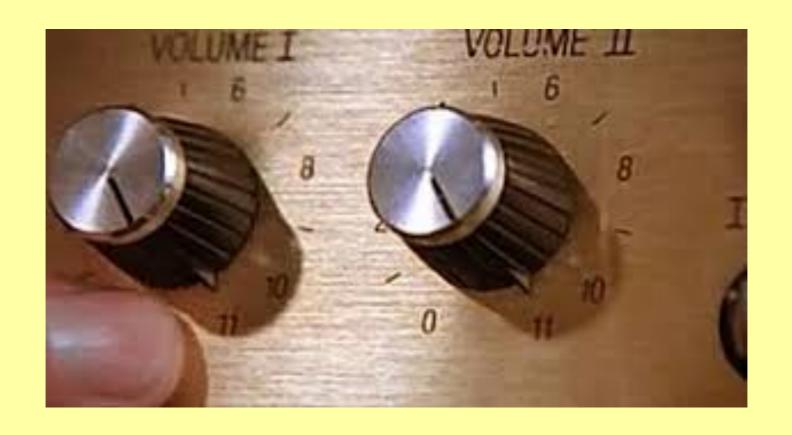
Controlling the Climate?



CO2 controls Temperature?



Where Should We Set The Knob?



Summary

NO evidence in any data for any Climate Catastrophe

NO evidence of any 'Existential Threat'

==> **NO** 'scientific' need for Net Zero

Purely political theatre

Case Study in Net Zero – United Kingdom



How did we get here?

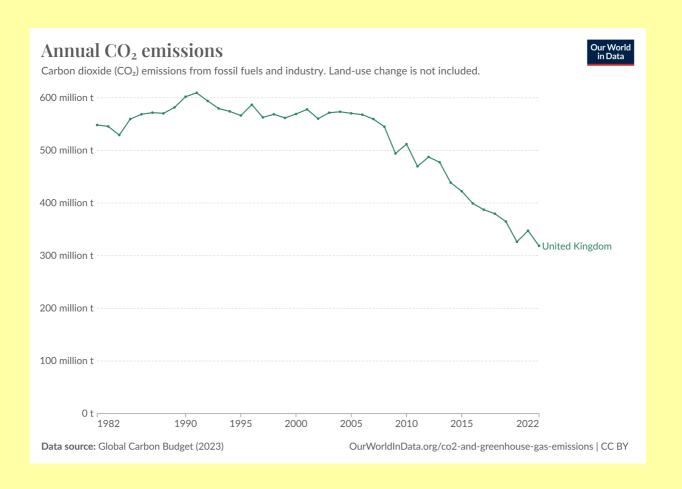
Climate Change Act 2008 (80% emissions reduction)

Amended by decree 2018 to 100%

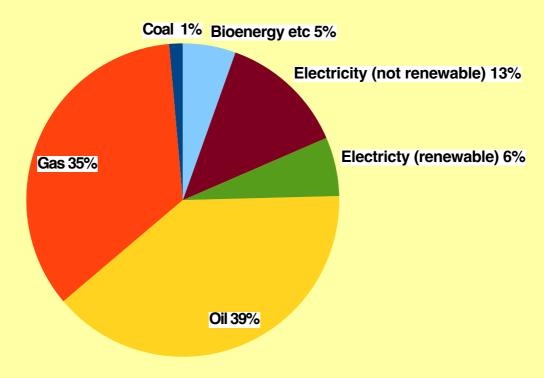
2019 Election Manifesto

==> No popular debate. No real democratic mandate

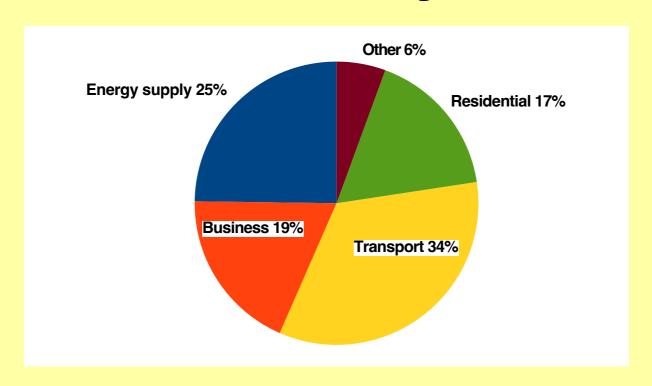
UK emissions



Where Next? By Fuel Type



Where Next? By Sector



Electrify Everything!

Electrify Transport – Ban petrol/diesel (£40K per household)

Electrify Domestic – Ban gas (£15K)

Needs vastly expanded Electricity Grid (£15K)

Costs? > £70,000 per household

For NO benefits

FIRES – Government Advisers

	2020-2029	2030-2049	2050 Absolute Zero	Beyond 2050
load vehicles	Development of petrol/diesel engines ends: Any new which introduced from now on must be computible with Absolute Zero	All new vahides electric, average size of cars reduces to ~1000kg.	Road use at 60% of 2020 levels - through reducing distance travelled or reducing whicie weight	New options for energy storage linked to expanding non-emitting electricity may allow demand-growth
Rati	Growth in domentic and international rail as substitute for flights and low-occupancy car travel	Further growth with expanded network and all electric trains, sall becomes dominant mode for freight as shipping declines	Electric trains the preferred mode of travel for people and feight over all significant distances,	Train speeds increase with increasing availability of zero emissions electricity
Flying	All alrooms except Heatherne, Glasgow and Belliut close with transfers by sall	All remaining airports close	-	Electric planes may fly with spethetic fuel once there are excess non-emitting electricity supplies.
Shipping	There are currently no freight ships operating without emissions, so shipping must contact	All shipping declines to zero.	-	Some namel ships operate with onboard nuclear power and new storage options may allow electric power
Heating	Electric heat pumps replace gas boilers, and building retrofts tair tightness, insulation and external shading! expand rapidly	Programme to provide all interior heat with heat pumps and energy retroits for all buildings	Heating powered on for 60% of today's use.	Option to increase use of heating and cooling as supply of non-emitting electricity expands
Appliances	Gas coolers phased out spidly in favour of electric bobs and owns. Fridges, freezers and washing machines become smaller.	Electrification of all appliances and reduction in size to cut power regularment.	All appliances meet stringerst efficiency standards, to use rolls of today's energy.	Use, number and size of appliances may increase with increasing zero emnis- sions electricity supply
Food	National consumption of beef and lamb drops by 50%, along with reduction in frozen ready neads and air fielgited food imports	Beef and bank phased out, along with all imports not transported by train; fertilizer use greatly reduced	Total energy required to cook or transport food reduced by 60%.	Energy available for fertilizing, transporting and cooking increases with sec-emissions electricity
Mining material sourcing	Reduced demand for iron one and limestone as blast famous iron and cement enlaces, increased demand for materials for electrification	from one and Limestone phased out white metal scope supply-chain expands greatly and develops with very high precision sorting	Demand for scrap steel and ones for electrification much higher, no iron one or lineatosis.	Demand for iron one and limestone may develop again if CCS applied to cement and iron production
Materials production	Steel excycling grown while coment and blast furnace iron reduce; some plantics with process emissions reduce.	Cement and new steel phased out along with emitting plastics. Steel recycling grows. Numinium, pages reduced with energy supply.	All materials production electric with total 60% power availability compared to 2020	Mareid production may expand with electricity and CCS, CCU, hydrogen may enable new cement and item.
Construction	Reduced cement supply compensated by improved material efficiency, new steel replaced by recycled steel	All conventional montar and concrete phased out, all steel secycled focus on wholfs and adaption of existing brikkings.	Any coment must be produced in closed-loop, new builds highly optimised for material saving.	Growth is connent replacements to allow more architectural freedom, new steel may become available.
Manufacturing	Material officiency becomes prominent as material supply contacts:	Most goods made with 10% as much material, make some conditions to be before as long	Manufacturing imputs reduced by 50% compon- sated by new designs and manufacturing practices. No secensing reduction output.	Reptination of reduced numerical supplies allows expension in output, although some goods will in future be irrealer and used for longer than previously.
Electricity	Wind and solar supplies grow as signify as people, with associated straige and distribution. Rapid expansion in electrification of end-uses.	Four-hild increase in resemble generation from 2020, all non-electrical motion and heaten phased out.	All energy supply is now non-emitting electricity.	Demand for non-emitting electricity driver-engoing expansion in supply.
Fossil fuels	Rapid reduction in supply and use of all forsil fash, except for oil for plastic production	Foral faels completed phased out		Development of Carbon Capture and Storage (CCS) may aline resumption of use of gas and coal for electricity

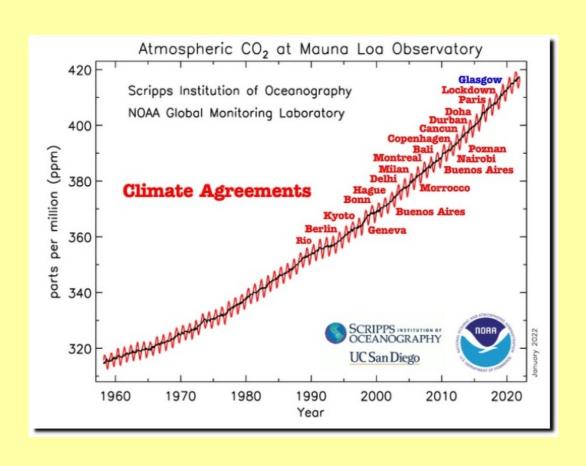
The Reality of Net Zero in UK



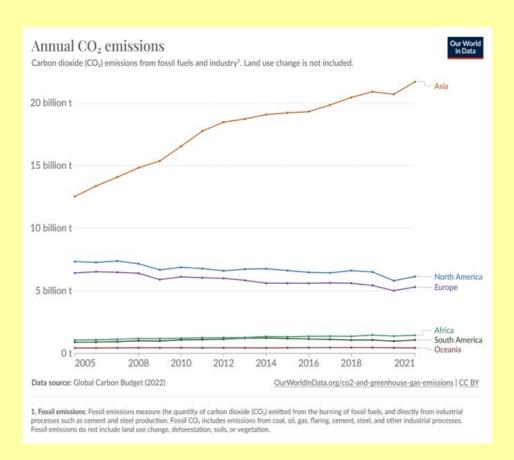
UK Lessons

NO proper democratic mandate
NO benefits
Just costs and inconveniences
==> How long can this last?

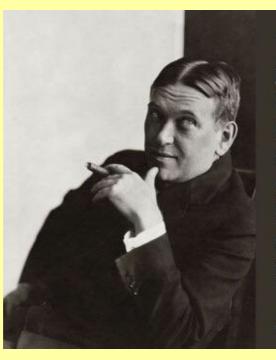
But what about the World?



Oops!



Net Zero is a Hobgoblin!



"The whole aim of practical politics is to keep the populace alarmed (and hence clamorous to be led to safety) by menacing it with an endless series of hobgoblins, all of them imaginary."

H. L. Mencken

Conclusion

Net Zero is purely politics

It is unachievable in any realistic timescale

It provides NO benefits to the ordinary people

==> It is doomed to fail

Corollary

Fighting Climate Change is a waste of time and effort

==> Use our resources to adapt to it instead

Further Watching



Final Thought

Net Zero IS for Dummies