Energy Data for Dummies

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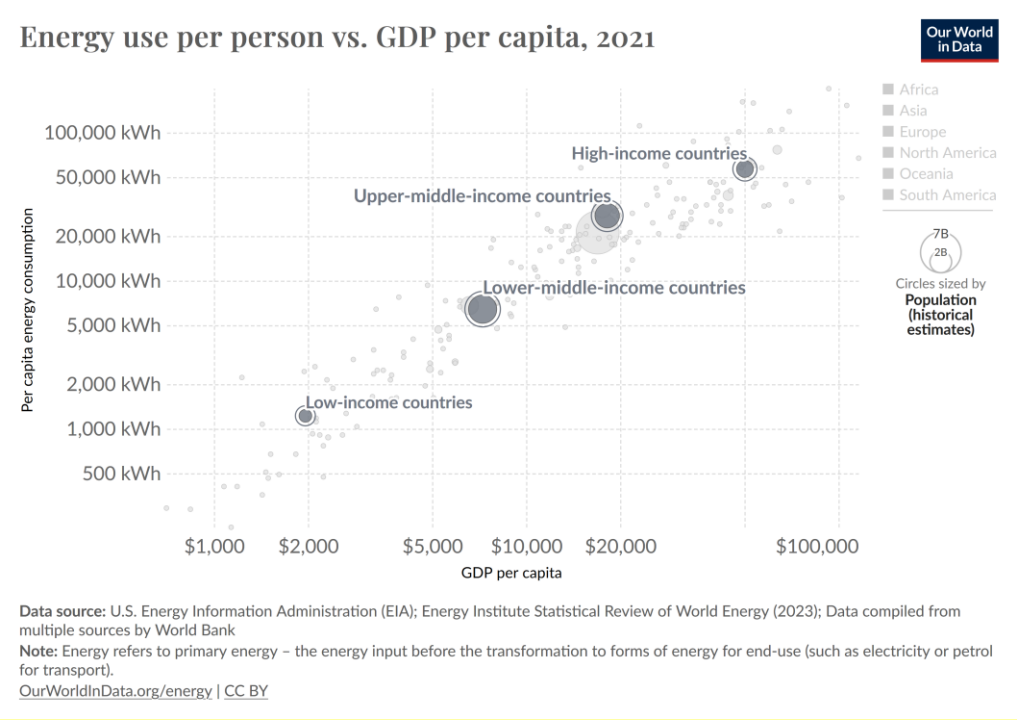
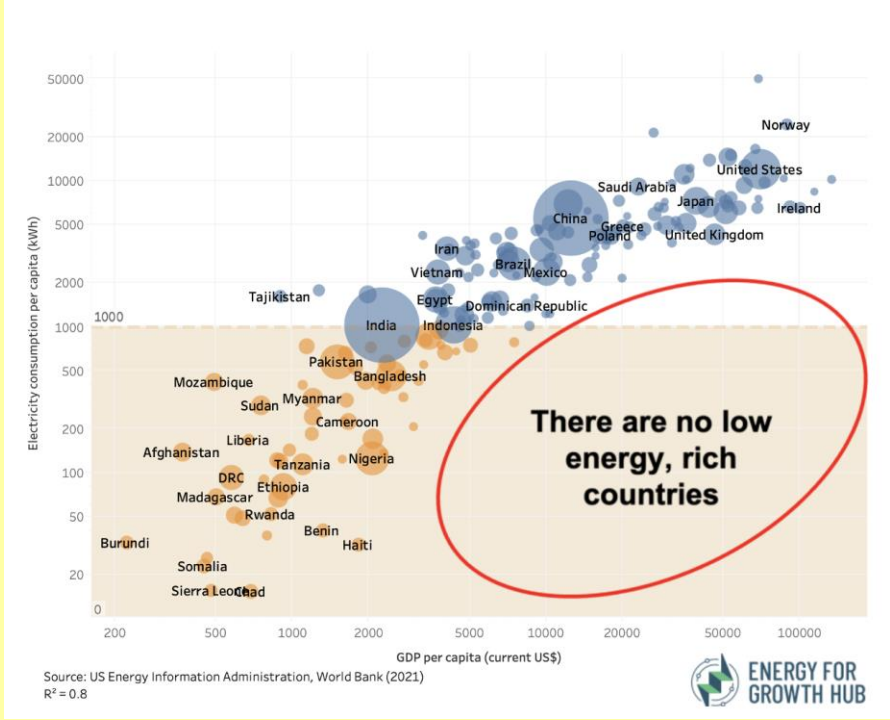
Energy Data for Dummies

Independent Commentator on Climate and Energy

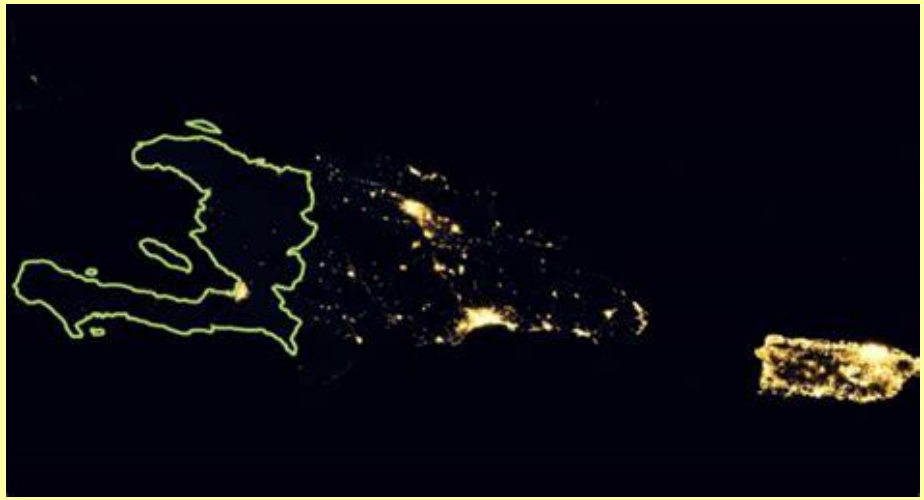
https://youtu.be/sYOm0ZEmJ8o

Energy and Prosperity





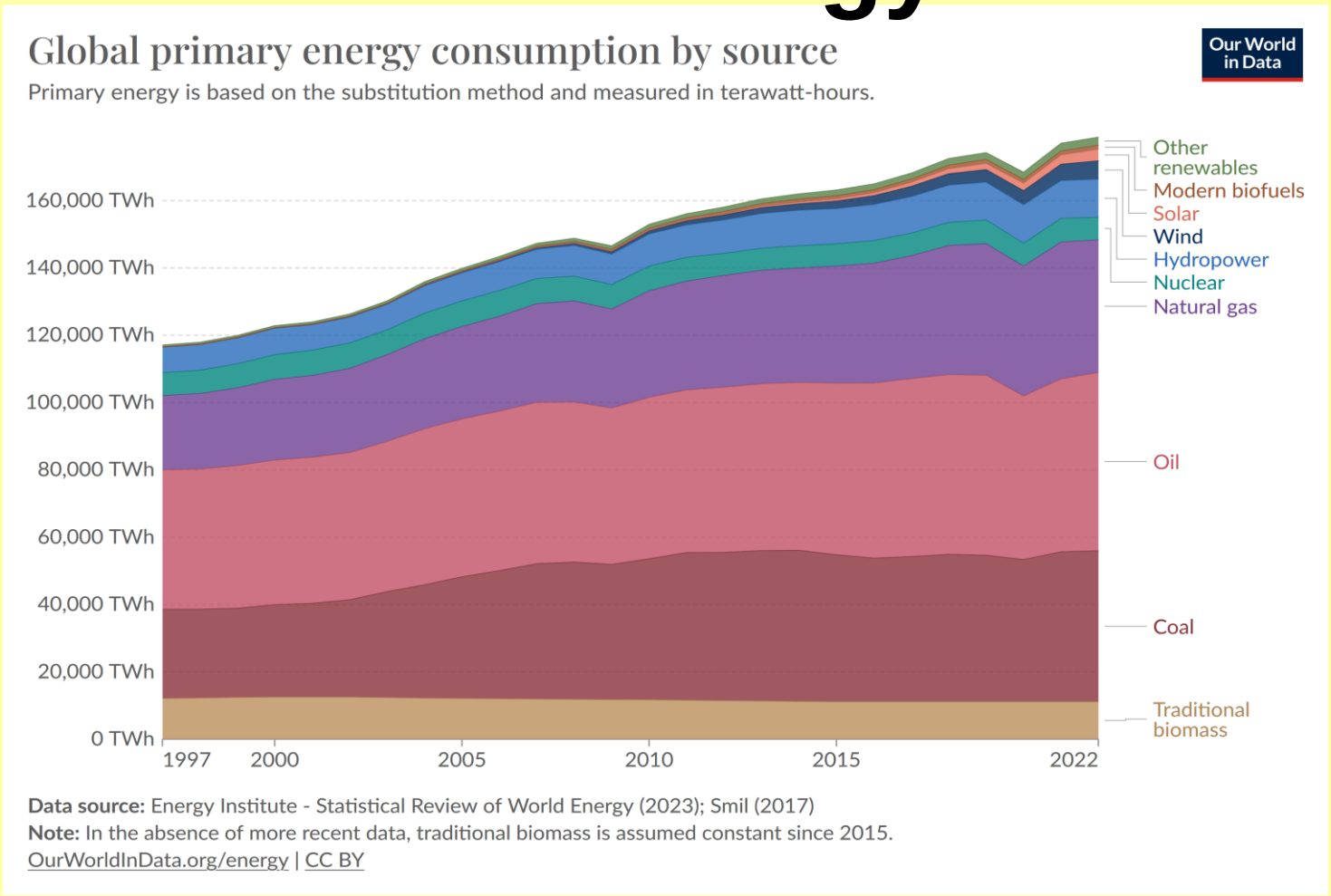
Energy and Prosperity (2)

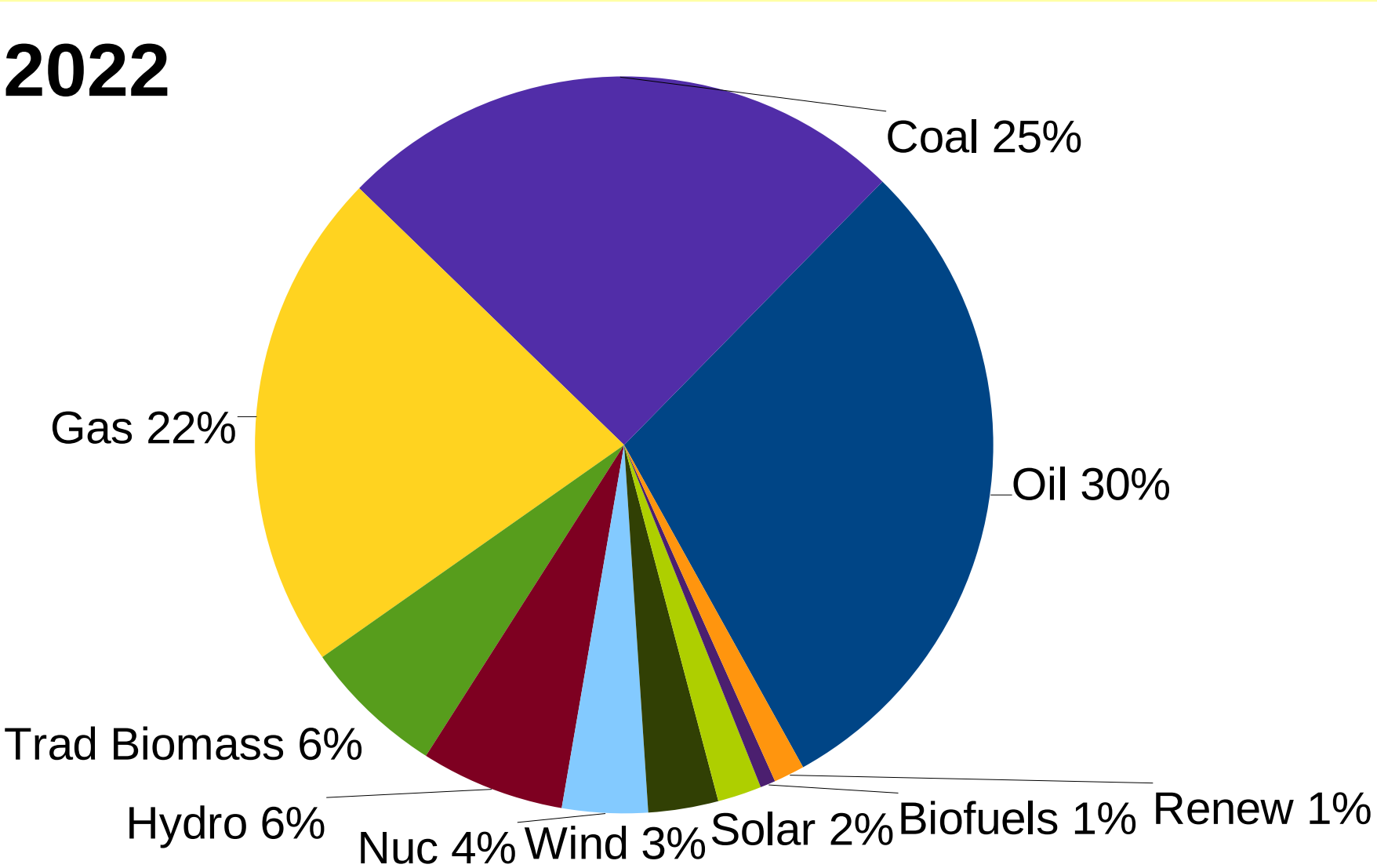


Thermodynamics

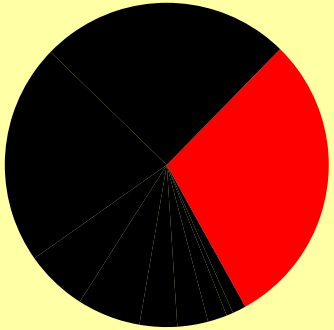
‘There is no such thing as a Free Lunch’

Where Does Our Energy Come From?




2022
Coal 25%
Oil 30%
Renew 1%
Biofuels 1%
Solar 2%
Wind 3%
Nuc 4%
Hydro 6%
Trad Biomass 6%
Gas 22%

Oil

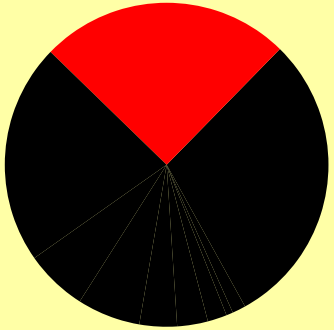


~50 years remaining

Versatile, storable,

controllable, reliable

Coal

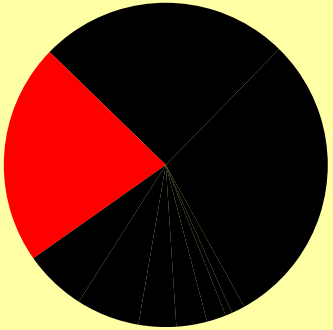


~400 years remaining

Storable, controllable, reliable

40% of electricity

Gas



~50 years remaining

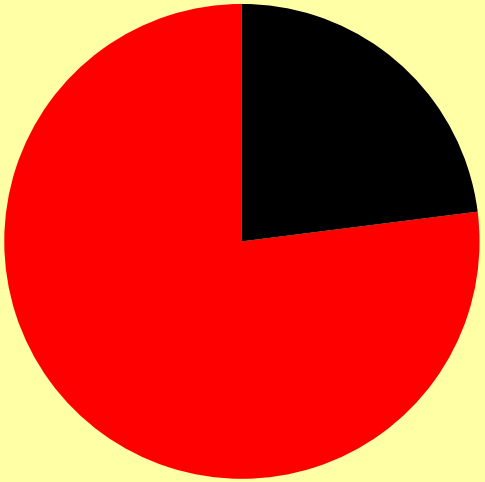
Storable controllable

reliable

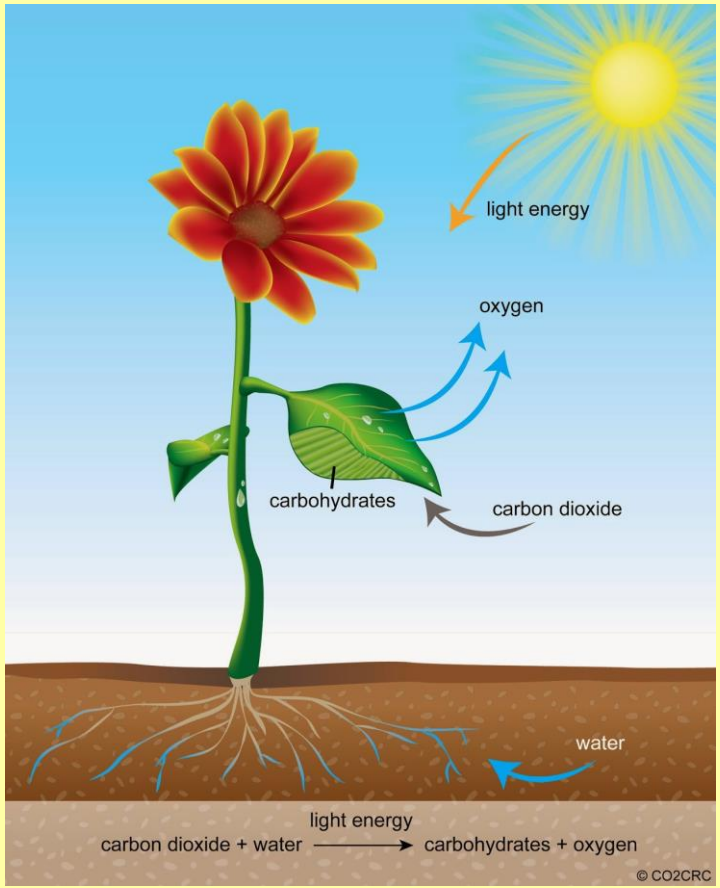
Fracking


TTFUM1 52.83 +4.62 --/-- BCFV
At 12:59 Op 47.83 Hi 54.54 Lo 47.73 Prev 48.21
Source: Bloomberg
TTFUM1 Index
98 Actions
97 Edit
07/26/2021 - 07/26/2022
Local CCY
1D 3D 1M 6M YTD 1Y 5Y Max Daily
Table
Add Data
Edit Chart
Track
Annotate
News
Zoom
Global Natural Gas Prices ($/MM BTU)
Europe (TTF)
US (NG1)
53.056
8.790
70
60
40
30
20
0
Jul
Aug
Sep
Oct
2021
Nov
Dec
Jan
Feb
Mar
Apr
2022
May
Jun
Jul

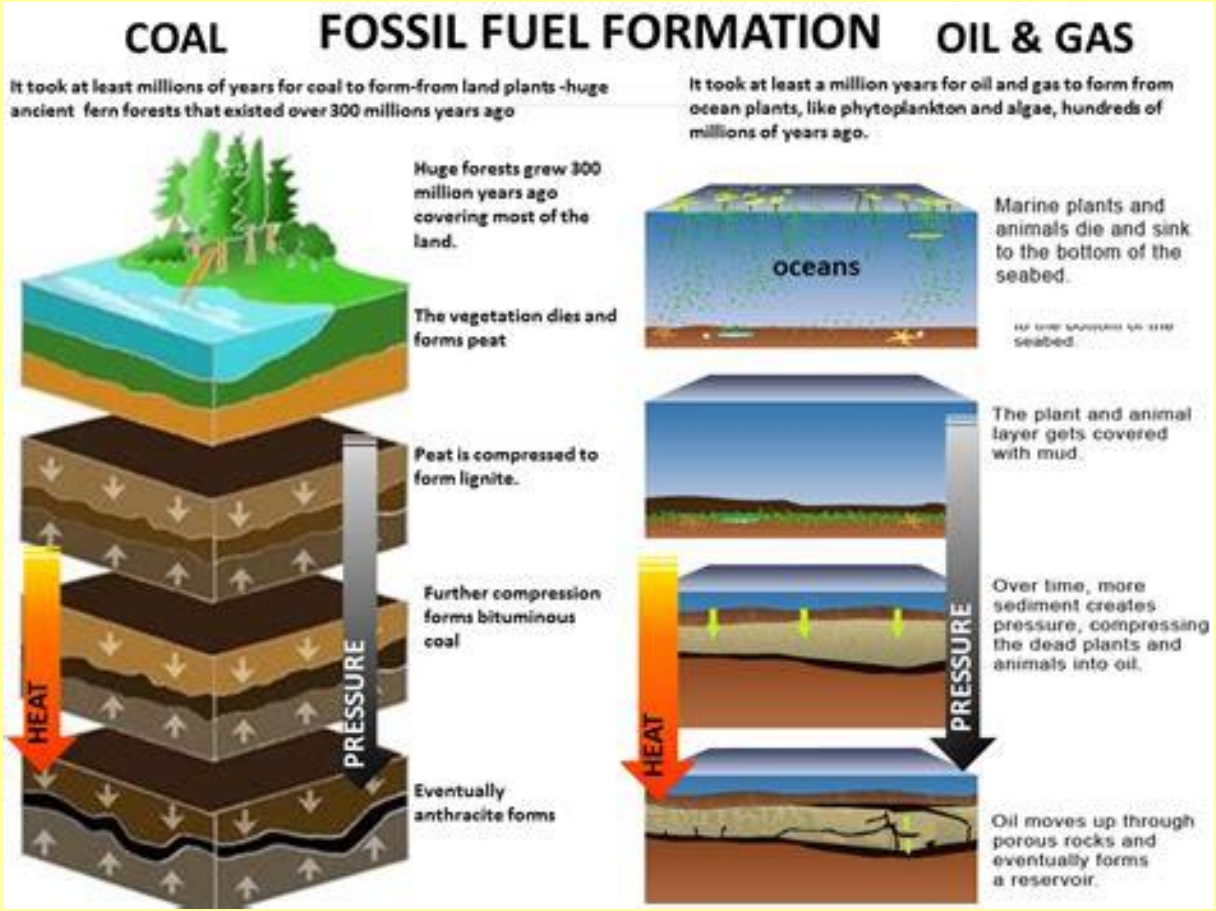
Fossil Fuels Today – 77%



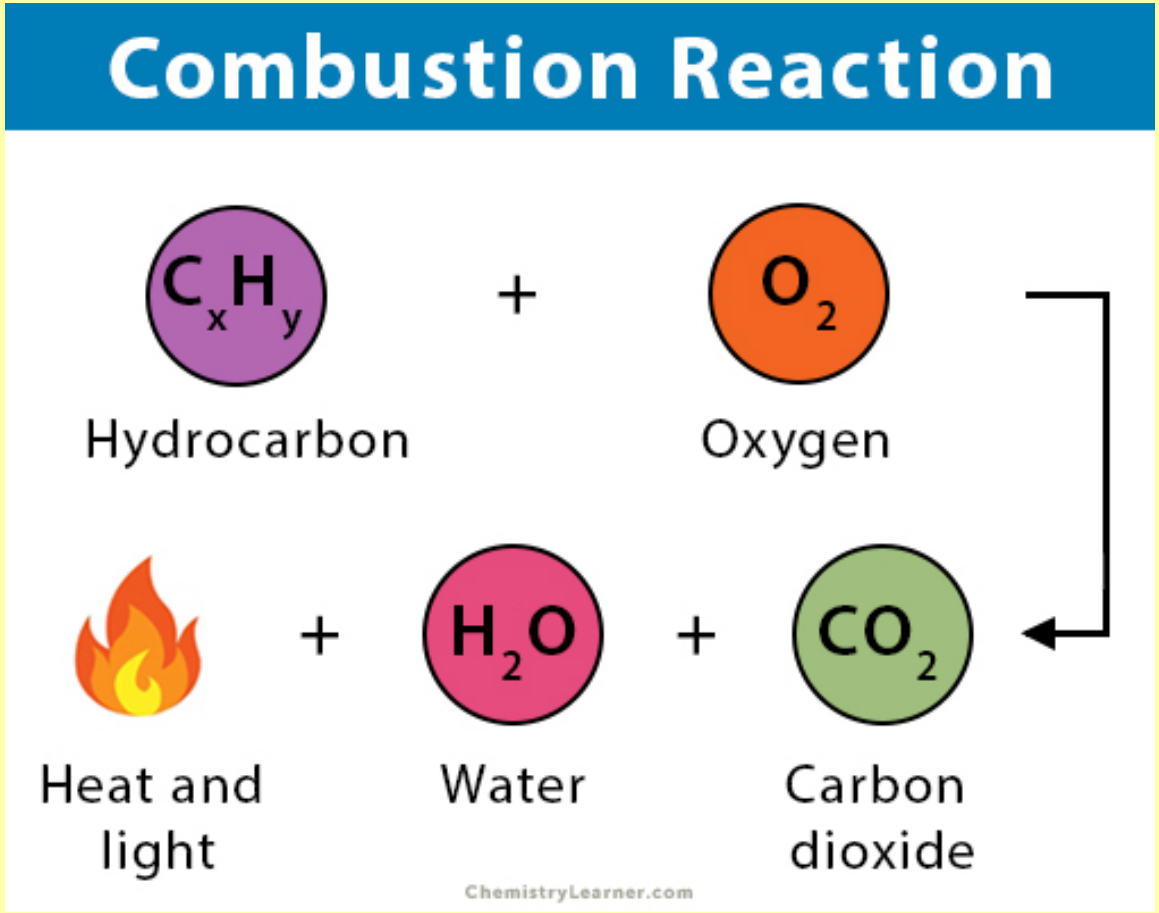
Photosynthesis



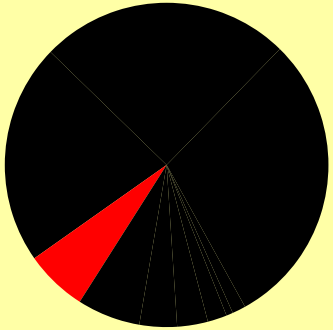
Making Fossil Fuels



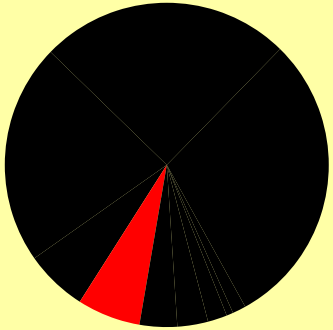
Burning Fossil Fuels



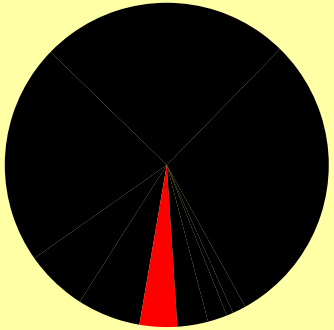
Biomass



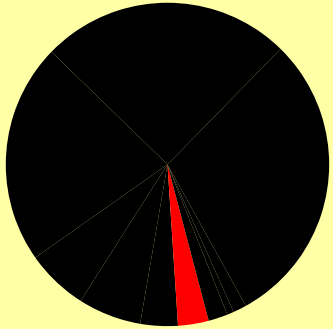
Hydro



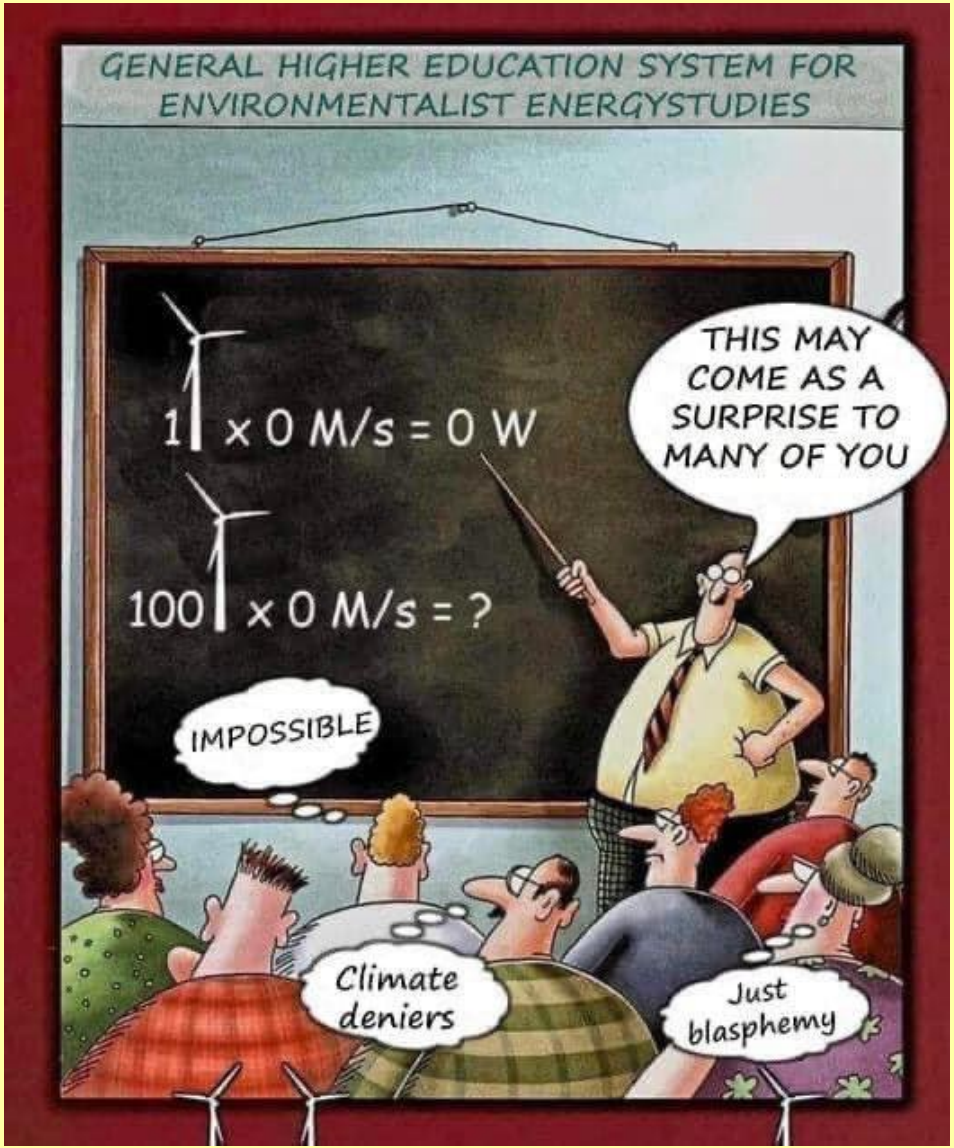
Nuclear



Wind




el famellous ont la char elgardee
dent grue mont sacoullent la uolee

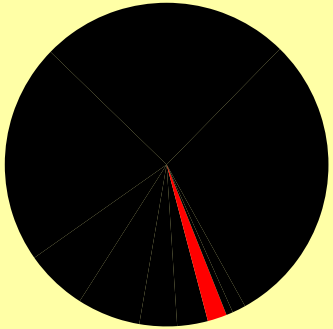

GENERAL HIGHER EDUCATION SYSTEM FOR ENVIRONMENTALIST ENERGYSTUDIES
1 x 0 M/s = 0 W
100 x 0 M/s = ?
THIS MAY COME AS A SURPRISE TO MANY OF YOU
IMPOSSIBLE
Climate deniers
Just blasphemy

Energy Storage

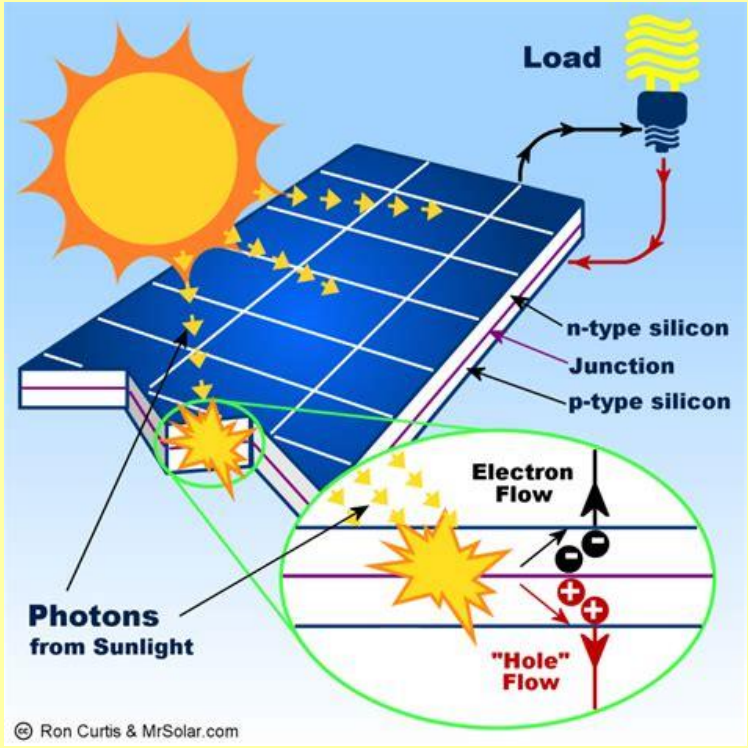
Hope and Hype

==> But no delivery

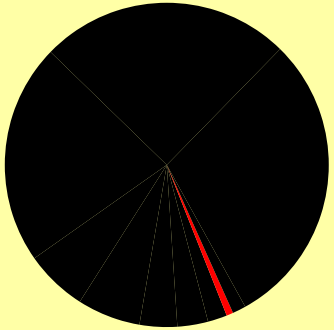
Solar



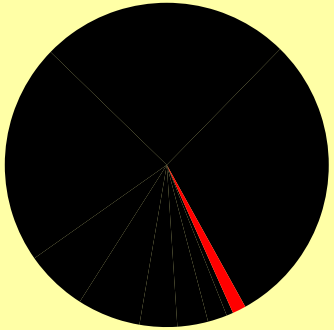
Excellent at midday in the summer



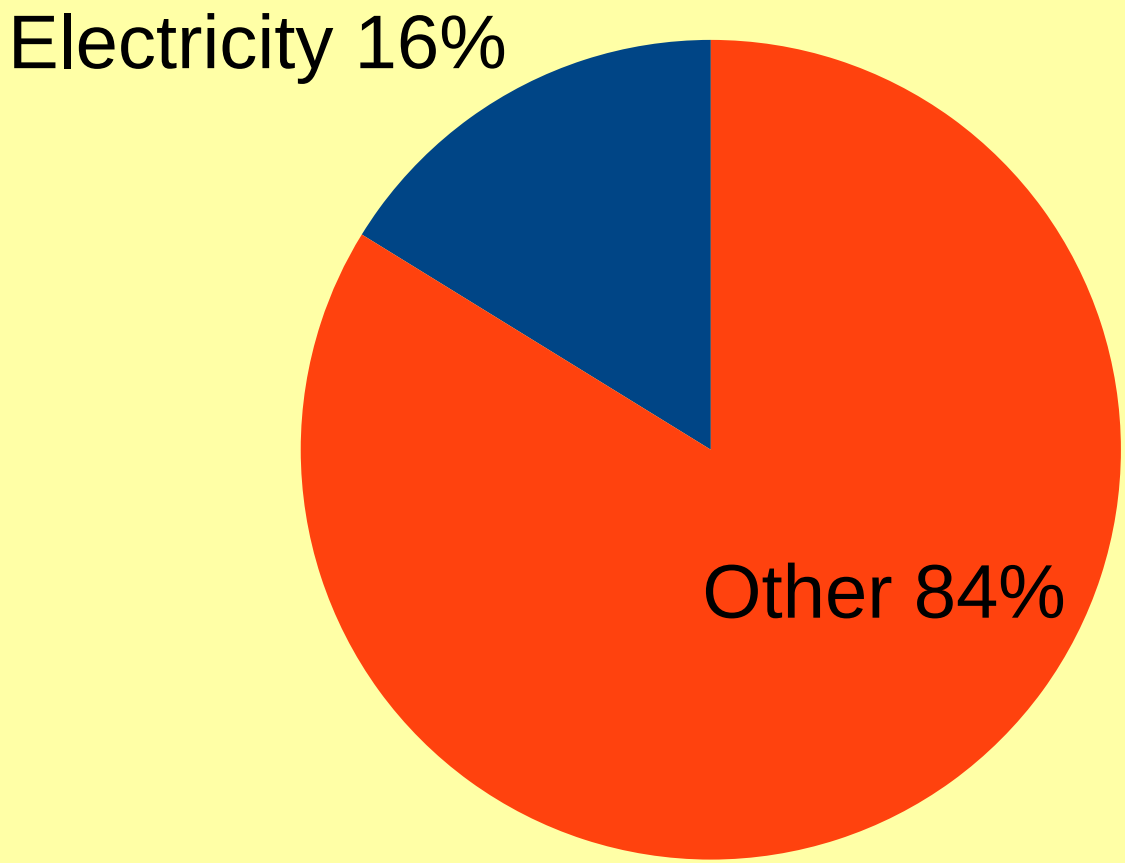
Biofuels



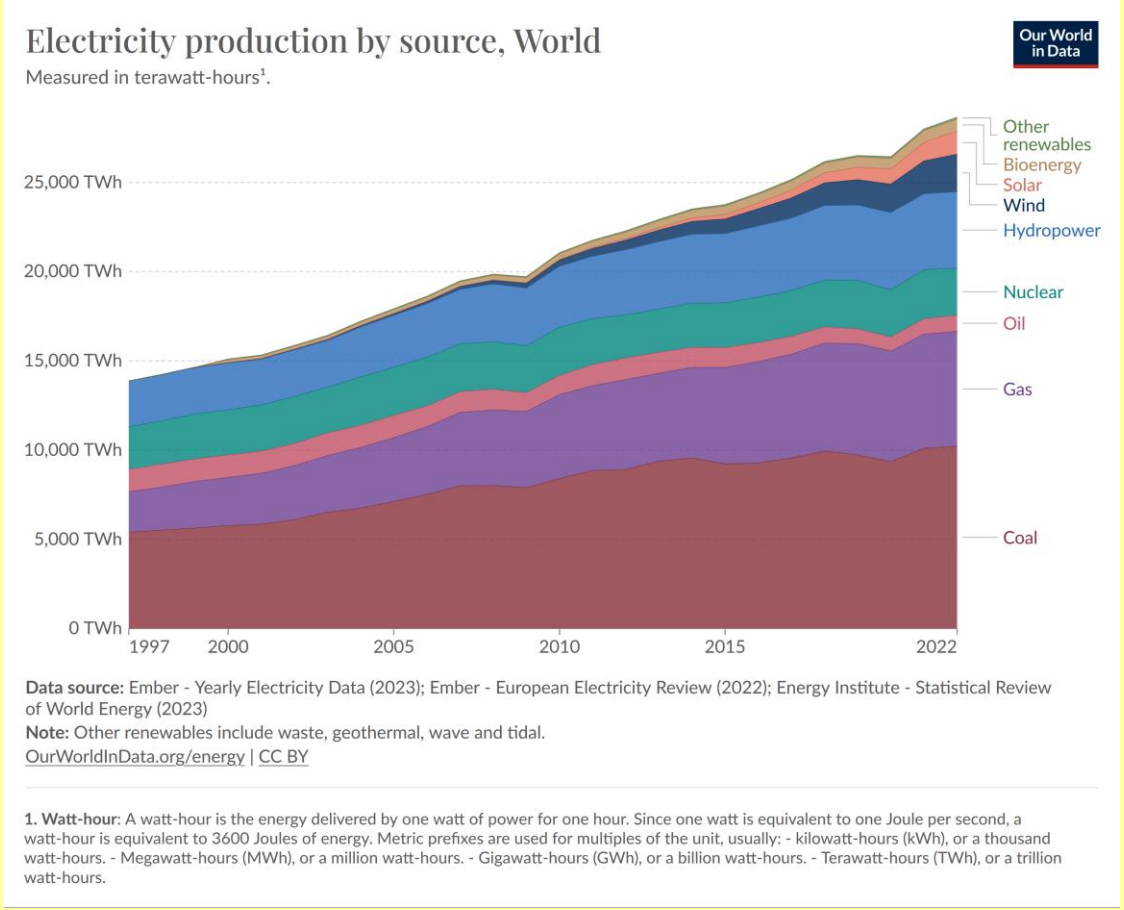
Other Renewables



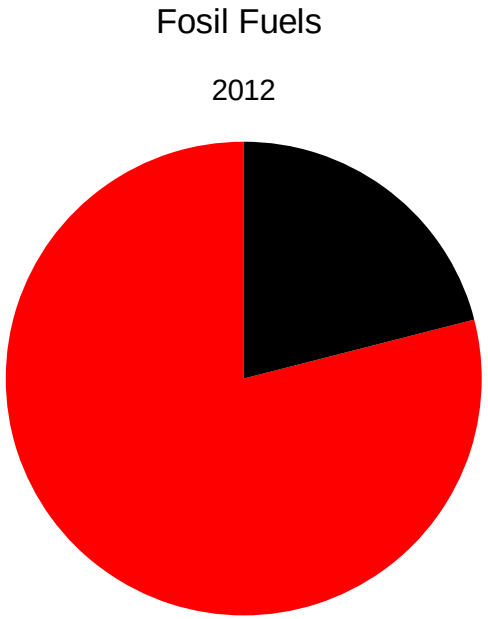
Energy and Electricity Worldwide

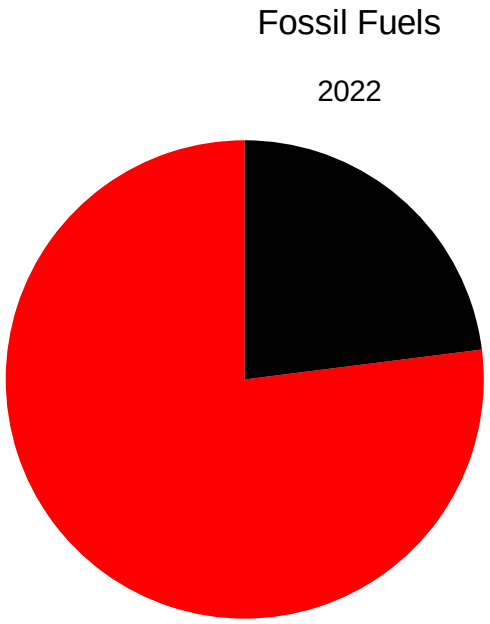


Renewables Revolution?

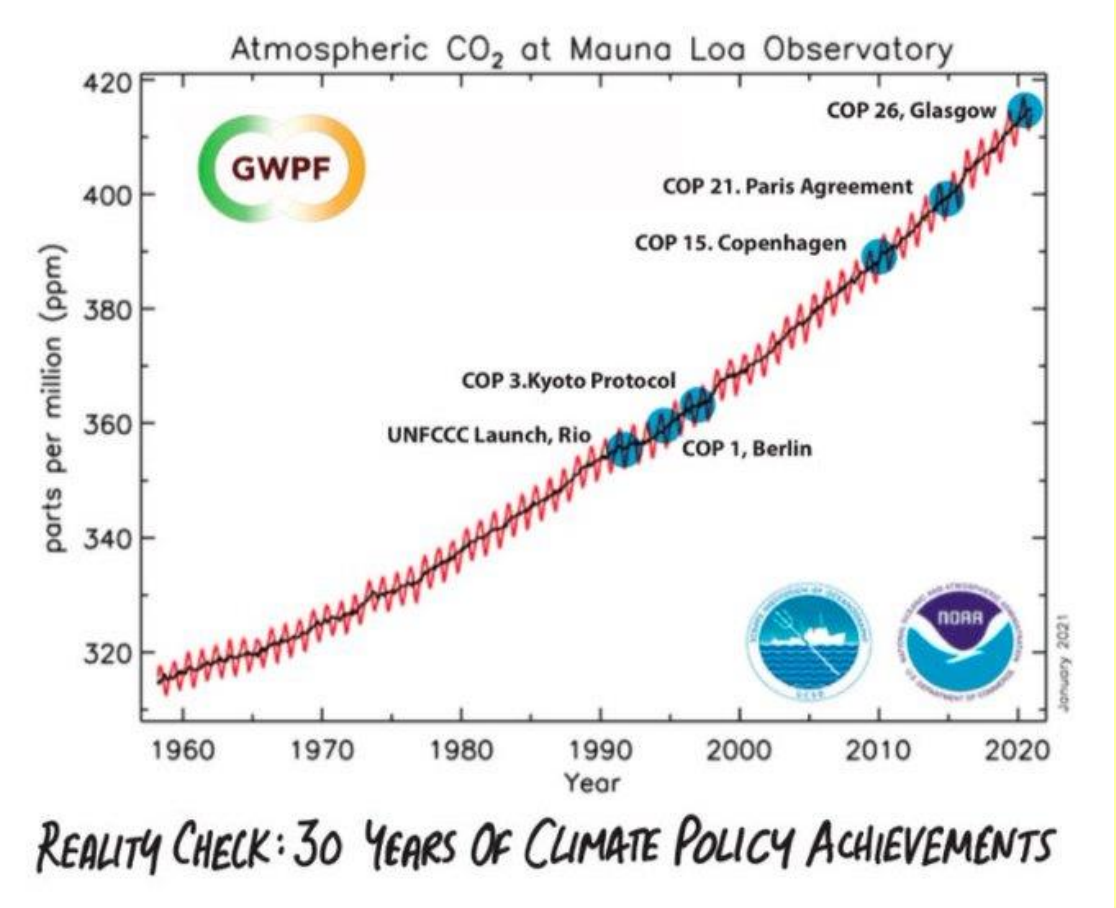


Conclusion 1 : Fossil Fuels Still Rule OK!





Conclusion 2: Net Zero is a Flop



Conclusion 3:

==>Spend money on adapting to climate change, not fighting it

Summary

Don’t believe the hype – believe the data

There is no such thing as a free lunch!