ECOS Austin, TX March, 2024

Energy/Environment Conundrum













It is the mark of an educated mind to be able to entertain a thought without accepting it.



Tinker 2024





The Conundrum

How do we reduce environmental impacts and advance human flourishing?

This Involves Trade Offs





100% Environmental Global Securitys Context RACIdaL MOJELE Economic Energy AFFSedurit Security 0% 0%

Pessimism & Fear

ORP JESUS

HUS

see Switch On, Lyn

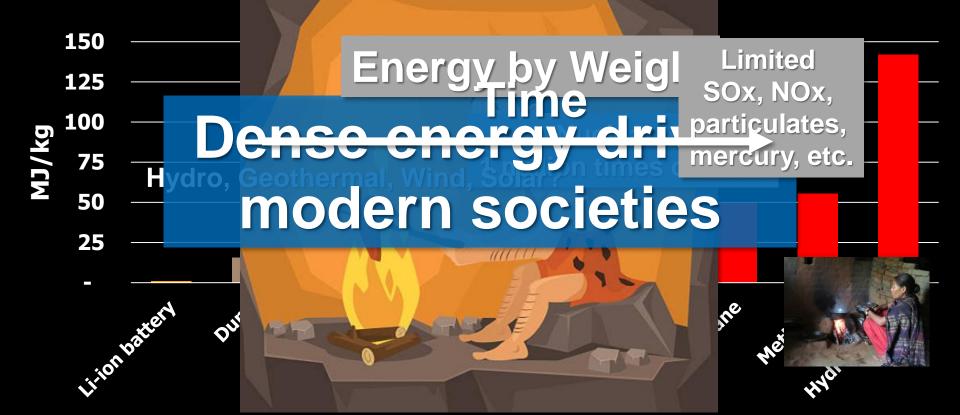
It's Time to Power the People Energy Access for All



"Energy Density"



https://en.wikipedia.org/wiki/Energy_density

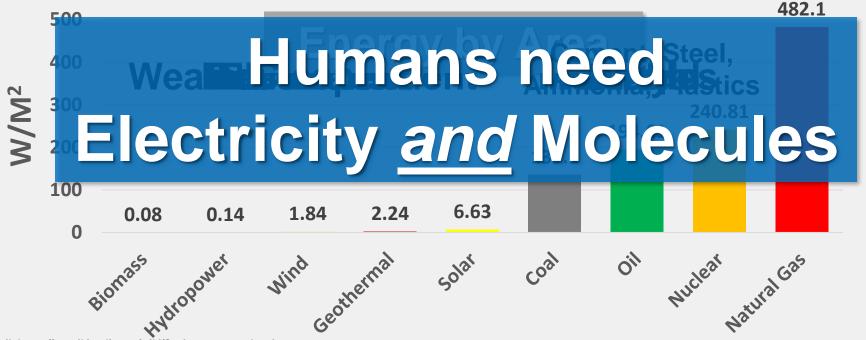






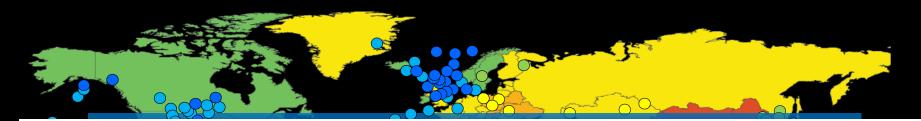


Surface Power Density



Smil: https://en.wikipedia.org/wiki/Surface_power_density

THERE ARE 3 KINDS OF PEOPLE IN THE WORLD **Energy is Vital for** HUSE WHO ARE GOOD AT MATH, AND THOSE WHO AREN'T.



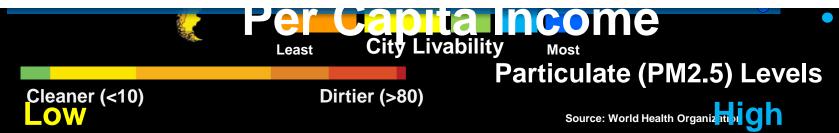
OPINION > ENERGY AND ENVIRONMENT

THE VIEWS EXPRESSED BY CONTRIBUTORS ARE THEIR OWN AND NOT THE VIEW OF THE HILL

World's road out of poverty is paved by energy — and plenty of it

BY SCOTT TINKER, OPINION CONTRIBUTOR - 04/07/23 1:30 PM ET





https://thesocietypages.org/socimages/2011/07/16/map-of-global-per-capita-income-and-population-density/





We must strive to be both completely factual, and factually complete.

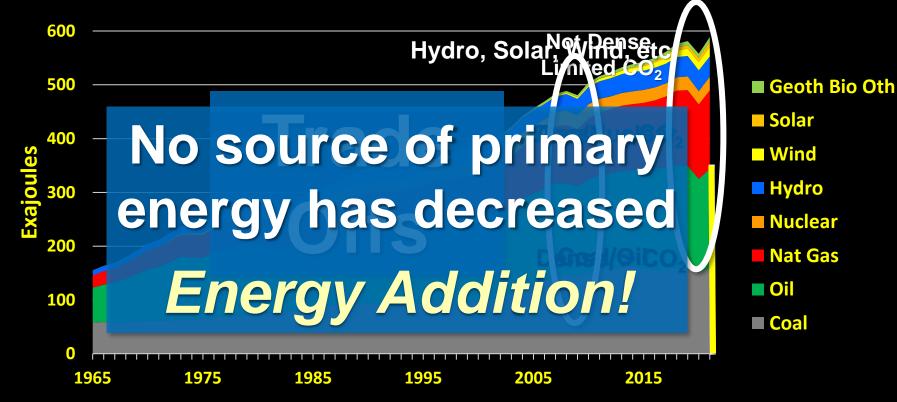


- 2021 Senate Testimony Manchin Climate Hearing

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Annual Primary Energy Consumption by Energy Type



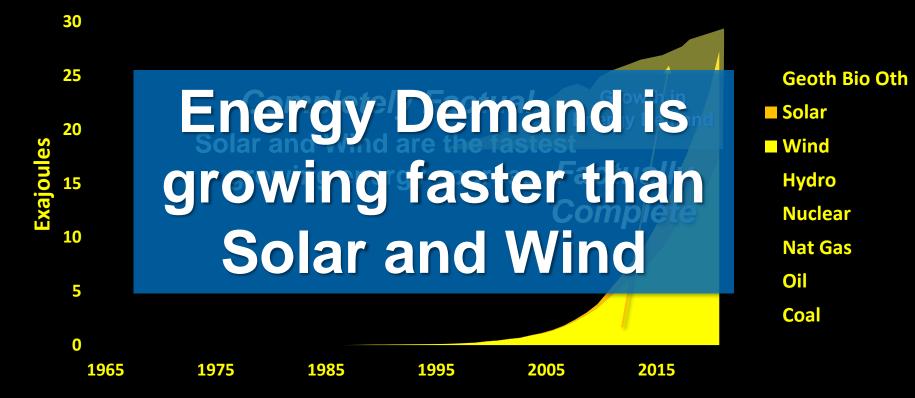
VITCH

VERGY ALLIANCE





Annual Primary Energy Consumption by Energy Type





The Telegraph News Israel Ukraine Royals Sports Opinion Travel Life Entertainment Business Puzzles

Tech Markets Companies Economy

<u>Coal use to hit a record high in 2023 despite</u> net zero push

2021

Rising usage in China and India drives demand

Jonathan Leake

15 December 2023 • 6:00am

By Lauri Myllyvirta, the lead analyst at the Centre for Research on Energy and Clean Air, and Byford Tsang, a senior policy advisor in E3G's London office.



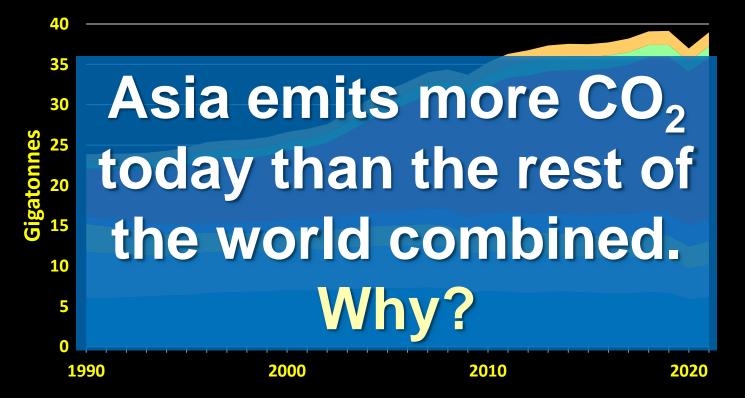
Annual Coal Consumption



CONOMIC



Annual CO₂ Equivalent Emissions



Africa
Latin America
Asia Pacific
Middle East
CIS
Europe
North America

WITCH





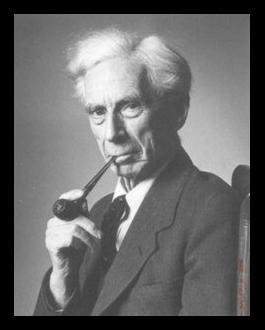


Emissions Reduction Current Strategies

Tiechnology/Nuclear replacing Coal
 Hydrogen, Geothermal, Hydro
 CCUS, DAC, Nature Solutions
 Scial, Wind, Batteries
 Markets
 Timeframed Conservation







What is wanted is not the will to believe, but the will to find out, which is the exact opposite.

- Bertrand Russell



One System

F. F.





an

Water





No one wants to buy used EVs and they're piling up in weedinfested graveyards

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isiness

MATTHIAS SC By The E February 0⁻ by Monica Raymunt and Bloomberg / Dec

22, 2023 / 6:06 AM

O I Inker 24/24



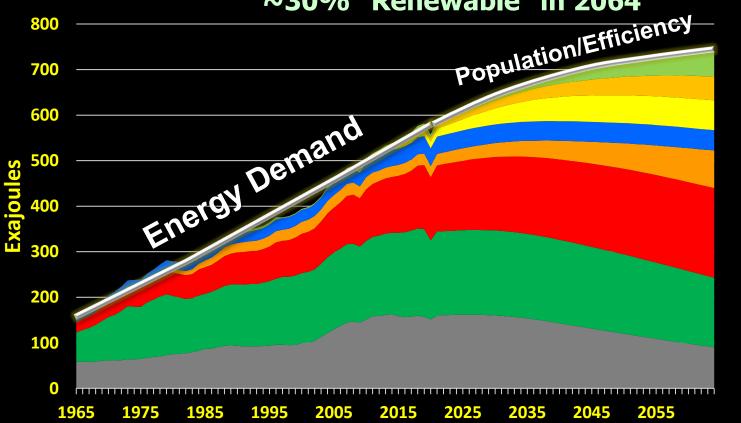
Mar 20, 2024 05:39 p.m. ET





Annual Primary Energy Consumption

~30% "Renewable" in 2064



Geoth Bio Oth
Solar
Wind
Hydro
Nuclear
Nat Gas
Oil
Coal

WITCH

ENERGY ALLIANCE

Energy optionality for reliable energy

2015

2025

Wind

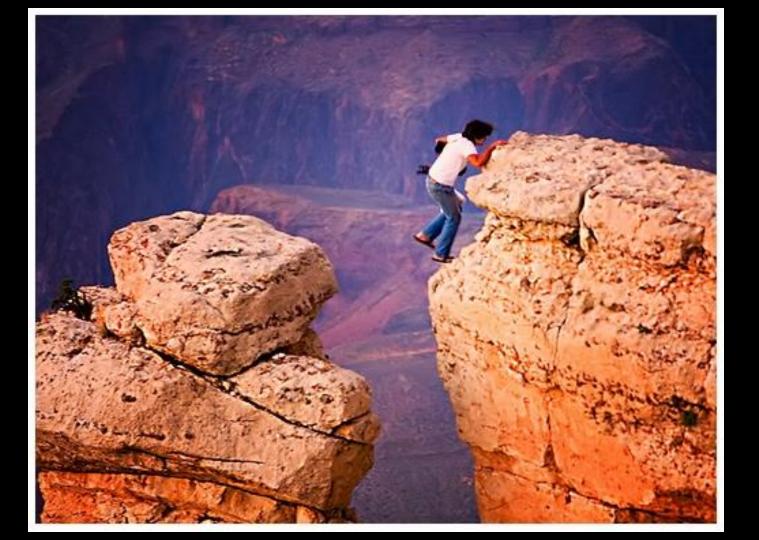
2035

2045

Solar 🛛 🔳 Geoth Bio Oth

2055











"Energy Transition"

Energy Addition + Emissions Reduction

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Hunger, Cloan Water

Secure energy % of underpins solutions to bal global challenges rgy

~ 6% remains and Health Care

Data: BP Statistical View of World Energy (2022). Analysis Tinker

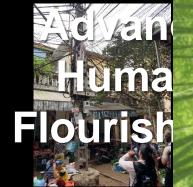




All the ill that is in us comes from fear, and all the good from love.

- Eleanor Farjeon





The beginning of wisdom is to do away with fear.

Yohannes Gebregeorgis





Bureau of Economic Geology







- You can't negotiate with physics
- No one has a patent on truth; we just seek it
- The binary fear narrative is divisive
- Cancel canceling; civil dialog is vital
- Make humility cool again

Thank You

