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IS 445 - ACG/ACU: Data Visualization - Fall 2023

Visualization Report 6

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The visualization shows the history of global energy use and transitions, published by Govind Bhutada on April 8, 2022, on the visualcapitalist website and obtained on September 28th, 2023.

The visualization shows the timeline of global energy production and consumption and how energy use transitioned from the traditional use of raw biomass in the 1800s to the current use of renewable energy sources.

I liked the use of different colors to distinguish between energy sources and how this transition ranges from brown/black (Biomass and coal), symbolizing environmentally unfriendly sources, to green (nuclear and renewable) to represent more sustainable and environmentally friendly sources.

What was unclear was that I didn't understand whether this visualization was a stacked graph showing the cumulative sum of energy sub-divided into the different forms of energy consumed. For example, in the Year 2000, was the renewable energy consumption 20K TWh (160k - 140K), or was it a total of 160K TWh? I also expected the amount of non-renewable energy sources to be reduced with time due to the emergence of renewable sources. Still, based on the visualization, all energy sources follow an increasing trend. I don't know if the data shows a similar trend or if the visualization misrepresents the data.

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THE HISTORY OF

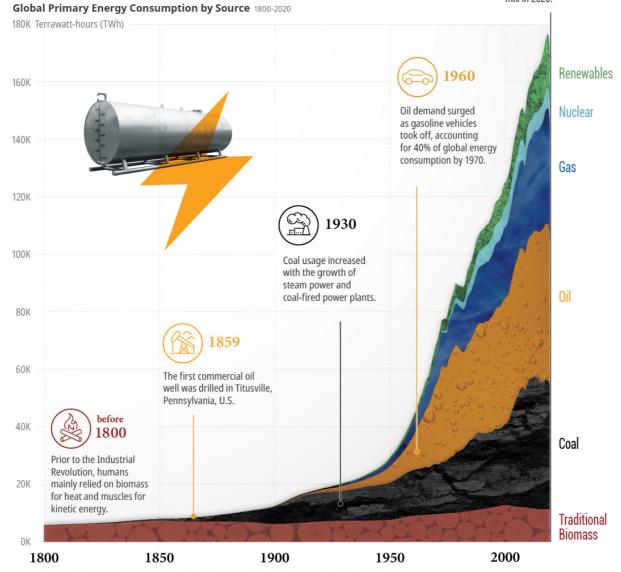
Energy Transitions

The economic and technological advances over the last 200 years have transformed how we produce and consume energy.



Here's how the global energy mix has evolved since 1800.

Fossil fuels accounted for 78% of the global energy mix in 2020.



Source: Vaclav Smil (2017), BP Statistical Review of World Energy via Our World in Data

ELEMENTS 🏖

ELEMENTS.VISUALCAPITALIST.COM