



All the World's Carbon Emissions in One Chart

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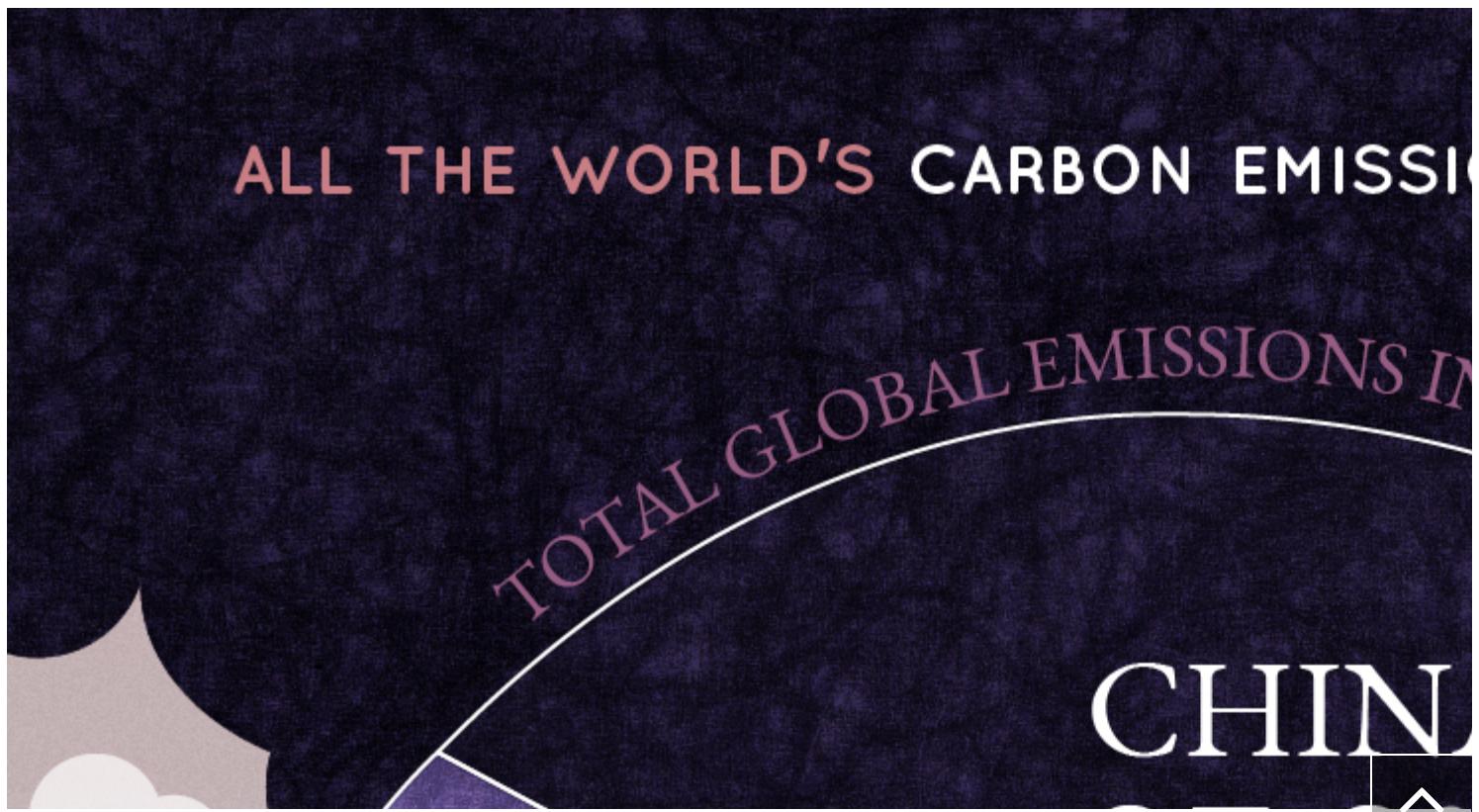
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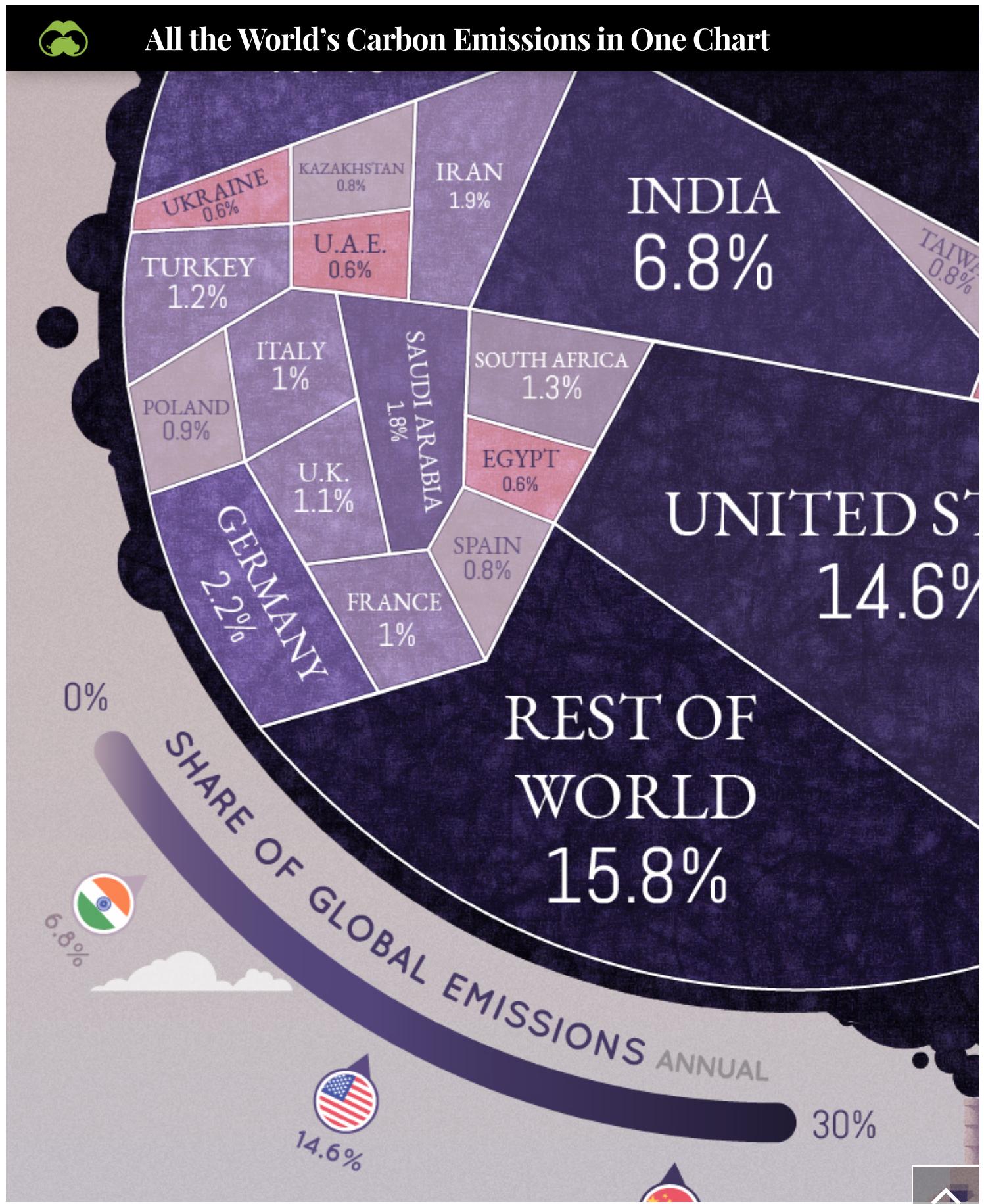


Published 2 years ago on May 31, 2019

By **Iman Ghosh**

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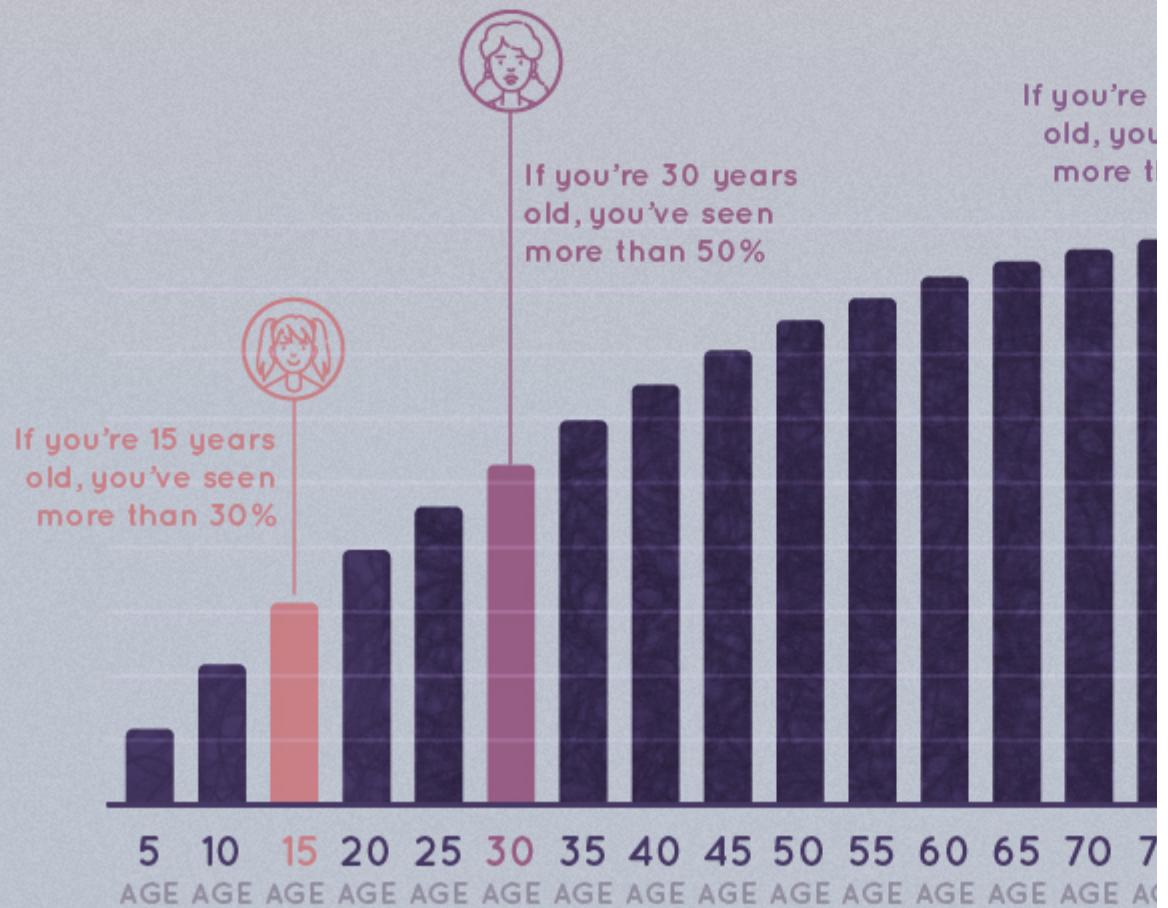
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What percentage of global fossil fuel emissions (since 1751) have occurred in my lifetime?



@neilrkaye



SOURCE: Global Carbon Atlas 2017, Neil Kaye, Global Carbon Project, CDIAC



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All the World's Carbon Emissions in One Chart

Two degrees Celsius may not seem like much, but on our planet, it could be the difference between thriving life and a disastrous climate.

Over two centuries of burning fossil fuels have added up, and global decision-makers and business leaders are focusing in on carbon emissions as a key issue.

Emissions by Country

This week's chart uses the most recent data from [Global Carbon Atlas](#) to demonstrate where the world's CO₂ emissions come from, sorted by country.

Rank	Country	Emissions in 2017 (MtCO ₂)	% of Global Emissions
#1	-China	9,839	27.2%
#2	-United States	5,269	14.6%
#3	-India	2,467	6.8%
#4	-Russia	1,693	4.7%
#5	-Japan	1,205	3.3%
#6	-Germany	799	2.2%
#7	-Iran	672	1.9%
#8	-Saudi Arabia	635	1.8%
#9	-South Korea	616	1.7%
#10	-Canada	573	1.6%
#11	-Mexico	490	1.4%
#12	-Indonesia	487	1.3%
#13	-Brazil	476	1.3%
#14	-South Africa	456	1.3%
#15	-Turkey	448	1.2%
Top 15		26,125	72.2%





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out a little further, and it's even clearer that just a handful of countries are responsible for the majority of emissions.

Of course, absolute emissions don't tell the full story. The world is home to over 7.5 billion people, but they aren't distributed evenly across the globe. How do these carbon emissions shake out on a per capita basis?

Here are the 20 countries with the highest emissions per capita:

Qatar 49.2 tCO ₂ /PERSON	Bahrain 23.1 tCO ₂ /PERSON	Saudi Arabia 19.3 tCO ₂ /PERSON	Kazakhstan 16.1 tCO ₂ /PERSON	U.S. 16.0 tCO ₂ /PERSON
Trinidad & Tobago 29.7 tCO ₂ /PERSON	Australia 16.9 tCO ₂ /PERSON	South Korea 12.1 tCO ₂ /PERSON	Turkmenistan 12.6 tCO ₂ /PERSON	Ge 9.7 tCO ₂ /PERSON
Kuwait 25.2 tCO ₂ /PERSON	Estonia 15.1 tCO ₂ /PERSON	Canada 15.6 tCO ₂ /PERSON	Taiwan 11.5 tCO ₂ /PERSON	M 9.9 tCO ₂ /PERSON
United Arab Emirates 24.7 tCO ₂ /PERSON	Oman 14.1 tCO ₂ /PERSON	Russia 11.8 tCO ₂ /PERSON	Czech Republic 10.2 tCO ₂ /PERSON	POPL 82.0 POPULATION

Source: [Global Carbon Atlas](#). Note: We've only included places with a population above one million, which excludes islands and areas such as Curaçao, Brunei, Luxembourg, Iceland, Greenland, and Bermuda.





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The CO₂ Conundrum

We know that rapid urbanization and industrialization have had an impact on carbon emissions entering the atmosphere, but at what rate?

Climate data scientist Neil Kaye answers the question from a different perspective, by making what percentage of emissions have been created during your lifetime since the Industrial Revolution:

Your Age	% of Total Global Emissions
15 years old	You've been alive for more than 30% of emissions
30 years old	You've been alive for more than 50% of emissions
85 years old	You've been alive for more than 90% of emissions

Put another way, the running total of emissions is growing at an accelerating rate. This is seen in the dramatic shortening between the time periods taken for 400 billion tonnes of CO₂ to enter the atmosphere:

- First period: 217 years (1751 to 1967)
- Second period: 23 years (1968 to 1990)
- Third period: 16 years (1991 to 2006)
- Fourth period: 11 years (2007 to 2018)

In order to be a decarbonised economy by 2050, we have to bend the (emissions) curve by 2020... Not only is it urgent and necessary, but actually we are very nicely on our way to achieving it.

— Christiana Figueres, Convenor of Mis





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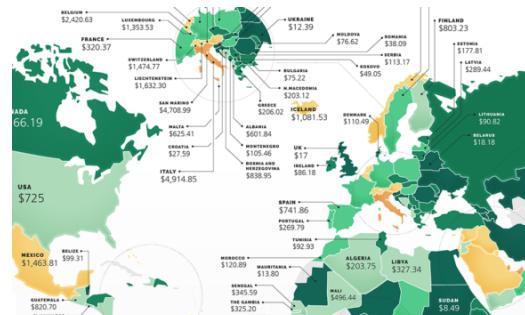
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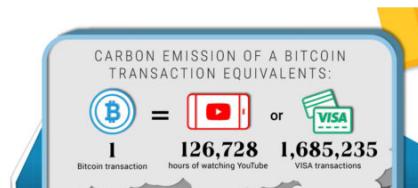
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ENERGY

Visualizing China's Energy Transition in 5 Charts

This infographic takes a look at what China's energy transition plans are to make energy mix carbon neutral by 2060.



Published 1 month ago on July 15, 2021

By **Bruno Venditti**

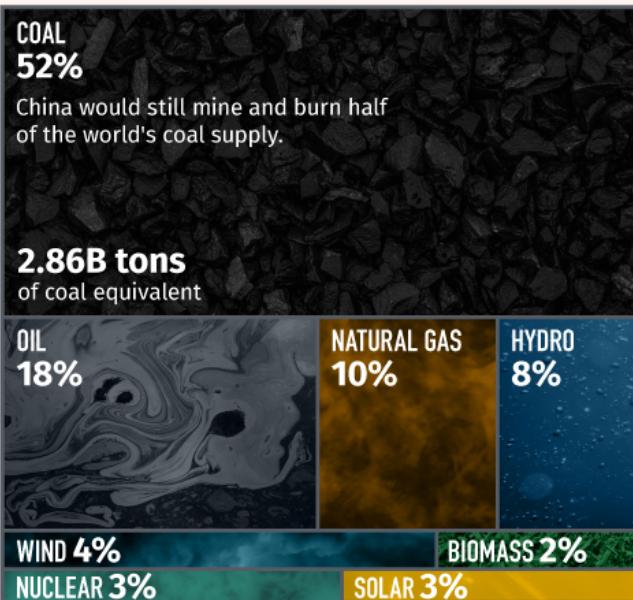


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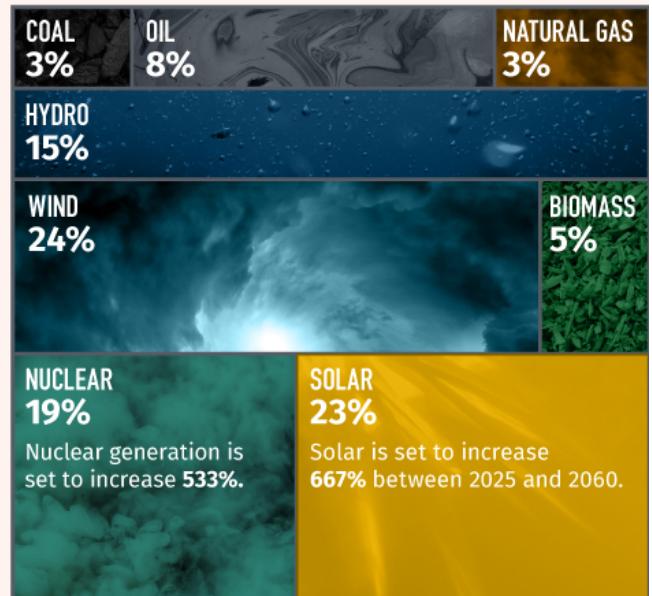


CHINA'S EVOLVING ENERGY MIX

2025



2060


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Assembly in New York.

This infographic takes a look at what this ambitious plan for China's energy would like and what efforts are underway towards this goal.

China's Ambitious Plan

A carbon-neutral China requires changing the entire economy over the next 40 years. To change the IEA compares to the ambition of the reforms that industrialized the country's economy in the first place.

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Visualizing 50+ Years of the G20's Energy Mix

Watch how the energy mix of G20 countries has evolved over the last 50+ years.

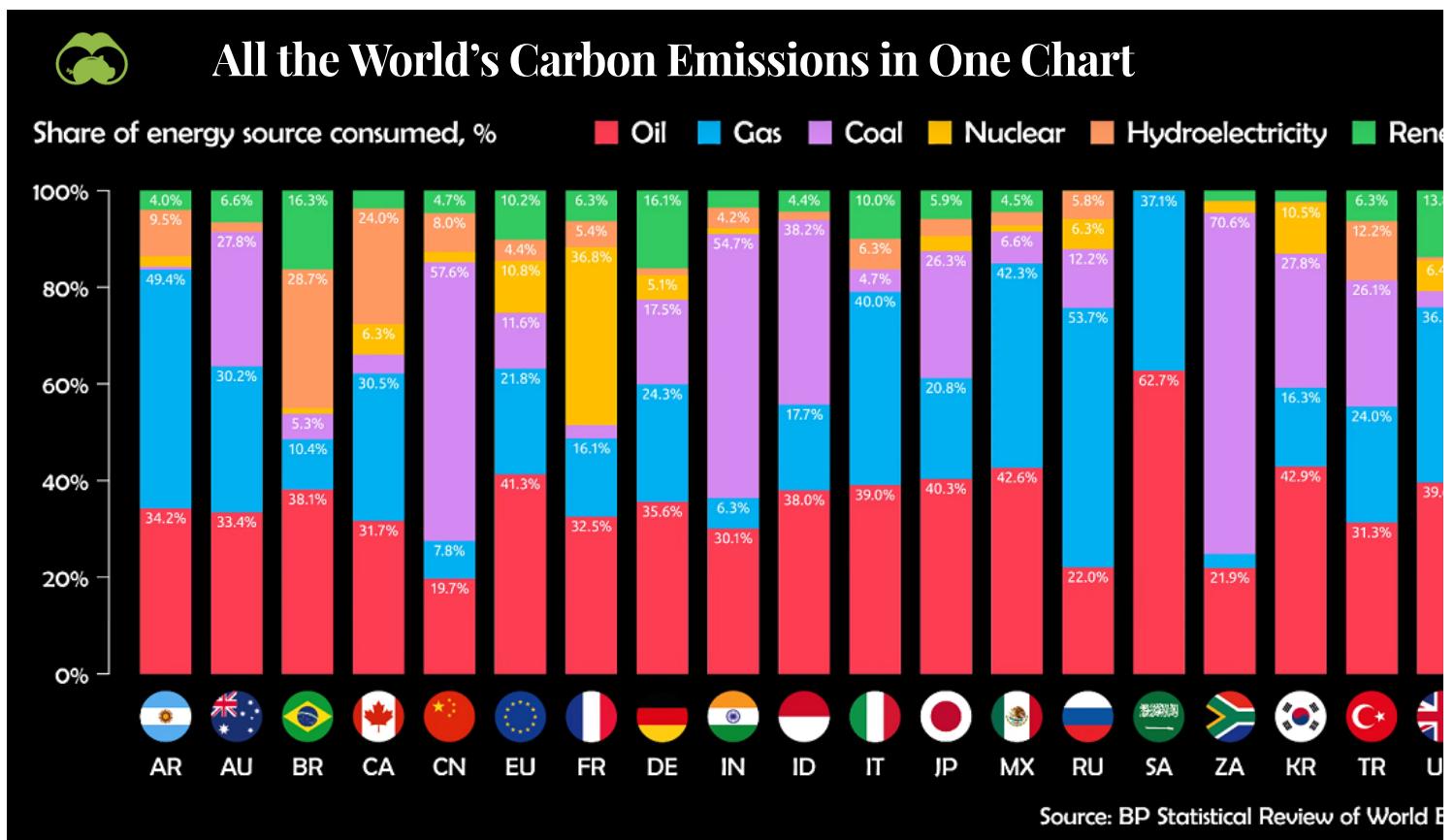


Published 2 months ago on June 29, 2021

By **Omri Wallach**



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Visualizing 50+ Years of the G20's Energy Mix (1965–2019)

Over the last 50 years, the energy mix of G20 countries has changed drastically in some ways.

With many countries and regions pledging to move away from fossil fuels and toward cleaner sources of energy, the overall energy mix is becoming more diversified. But shutting down plants and replacing them with new sources takes time, and most countries are still incredibly reliant on fossil fuels.

This video from [James Eagle](#) uses data from BP's [Statistical Review of World Energy](#) to examine how the energy mix of G20 members has changed from 1965 to 2019.

G20's Energy History: Fossil Fuel Dependence (1965–2019)

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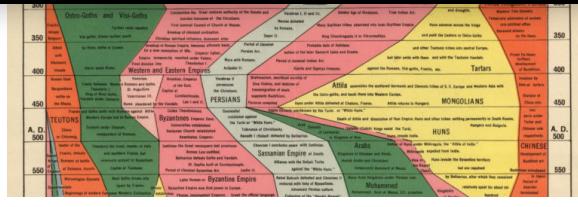


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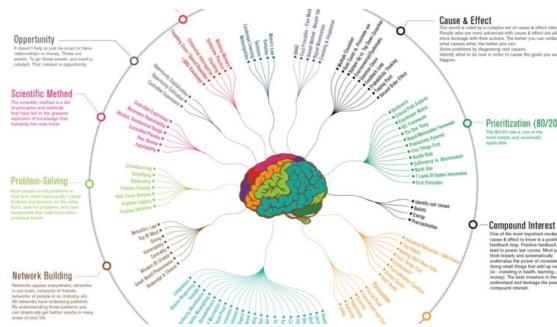
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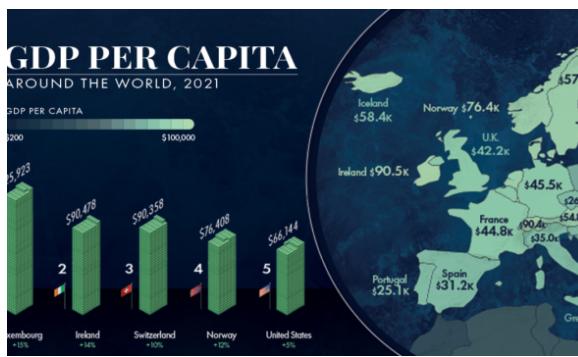
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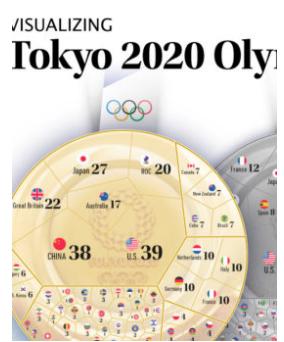
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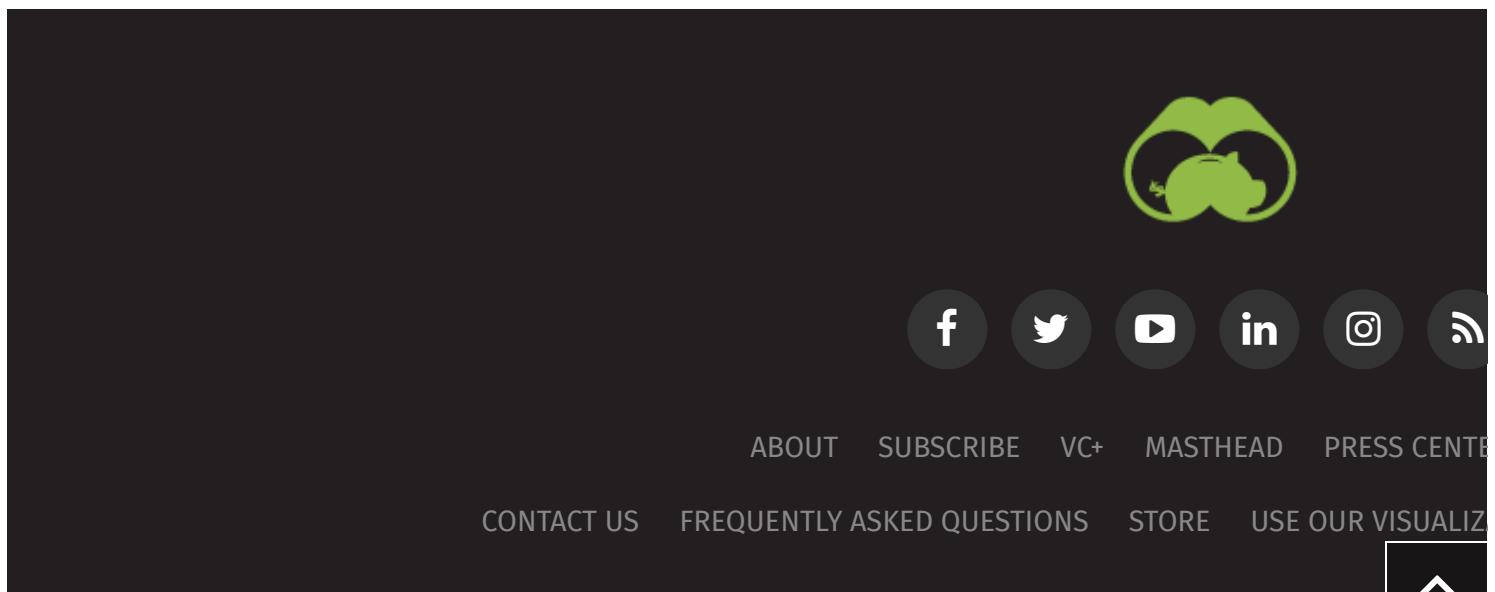
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