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Advising Greentech companies  
to help maximize growth

## How are countries trending by GHG emissions?



Based on data compiled  
by Climate Watch - PIK  
(1850 to 2022 in CO2 equivalent)

# Top 10 total emitters since 1850



**By a wide margin, in 1850 the United Kingdom was the largest emitter in the world.**

- |                   |            |
|-------------------|------------|
| 1. United States  | 6. Japan   |
| 2. China          | 7. India   |
| 3. Russia         | 8. France  |
| 4. Germany        | 9. Ukraine |
| 5. United Kingdom | 10. Canada |

- China's emissions didn't really register until 1903.
- Japan didn't have appreciable emissions until 1875.
- India's emissions started escalating in earnest around 1890.
- The U.S., France, Russia, Germany, Canada and the UK were registered emissions starting in 1850.

# Top 10 total emitters in 2022



1. China
2. United States
3. India
4. Russia
5. Japan
6. Iran
7. Indonesia
8. Germany
9. Saudi Arabia
10. South Korea

**India, Indonesia, and Iran all registered their highest emission levels in 2022.**

- China's emissions in 2022 were more than double that of the U.S.
- Together, emissions from China and the U.S. were almost double the next eight top emitters combined.
- U.S. emissions peaked in 2005, China's peak in 2021

# Top 10 emitters in last 20 years



**In the last 20 years China accounted for 41% of the top 10 emitting countries emissions.**

1. China
2. United States
3. India
4. Russia
5. Japan
6. Germany
7. Iran
8. South Korea
9. Canada
10. Indonesia

## In the last 20 years:

- China is responsible for 28% of global emissions.
- The U.S. is responsible for 17% of global emissions.
- The top 10 emitters accounted for 68% of global emissions.

# Top 10 emitters in last 10 years

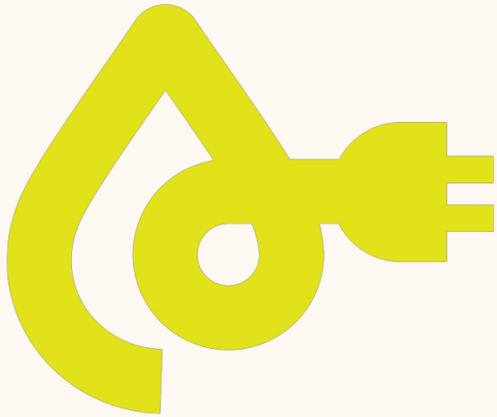


1. China
2. United States
3. India
4. Russia
5. Japan
6. Iran
7. Germany
8. South Korea
9. Indonesia
10. Saudi Arabia

**In the last 10 years Saudi Arabia cracked the list of top 10 emitters accounting for almost 2.5% of total of the top 10 emitters.**

## In the last 10 years:

- China's percentage of global emissions increased from 28% to 31%.
- The U.S. percentage of global emissions decreased from 17% to 15%
- The top 10 emitters percentage of global emissions ticked up from 68% to 69%.



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## Unbiased and Unfiltered

- An honest assessment of the climate change effort.
- I cover what's working – but more important - the issues/roadblocks that the industry would prefer to ignore.
- A must-read for anyone with a desire to understand what's really going on with renewable energy and climate change.



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