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Posted in ??????????, ??? | No Comments »

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?? ?? · Tuesday, October 3rd, 2023



KEN226/iStock

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Posted in ???, ????? | No Comments »

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?? ?? · Monday, October 2nd, 2023



metamorworks/iStock

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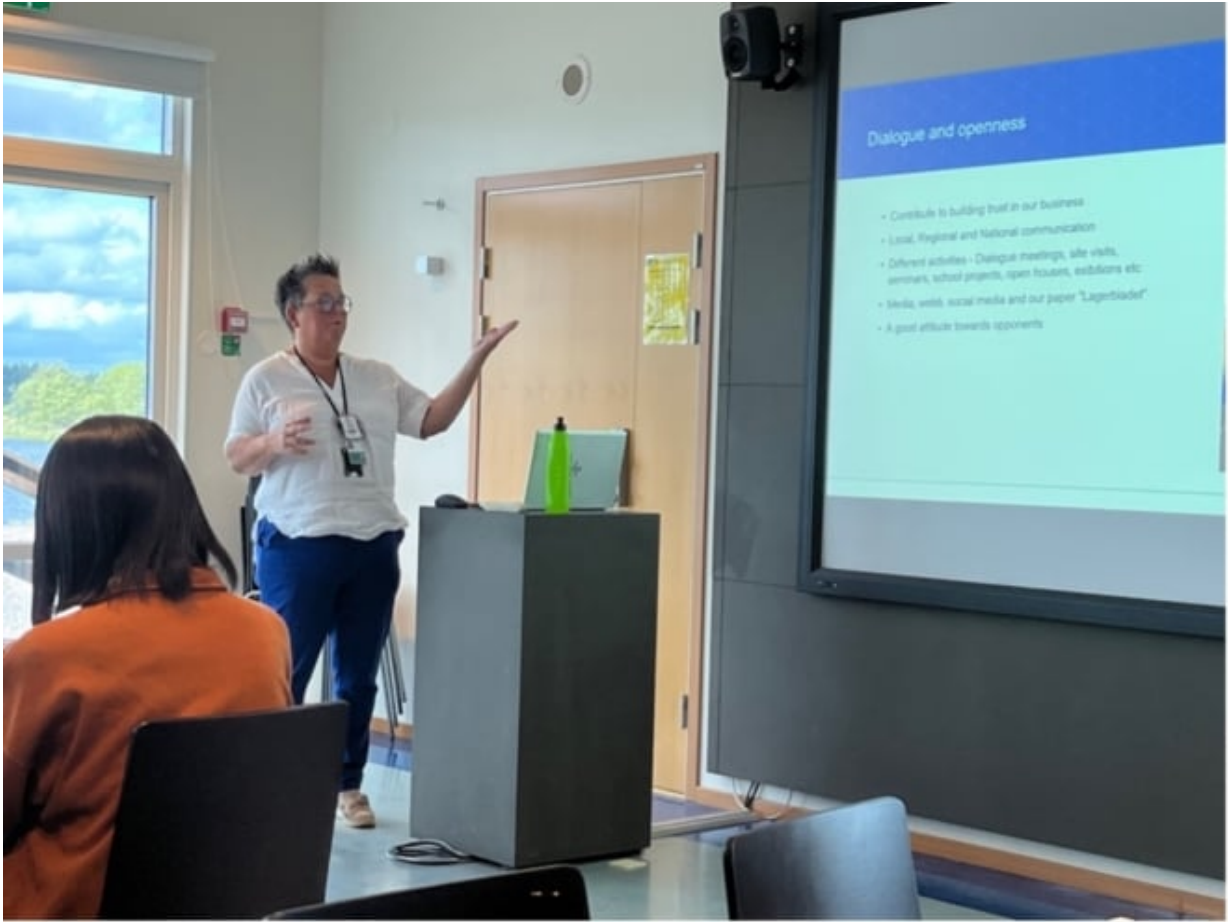
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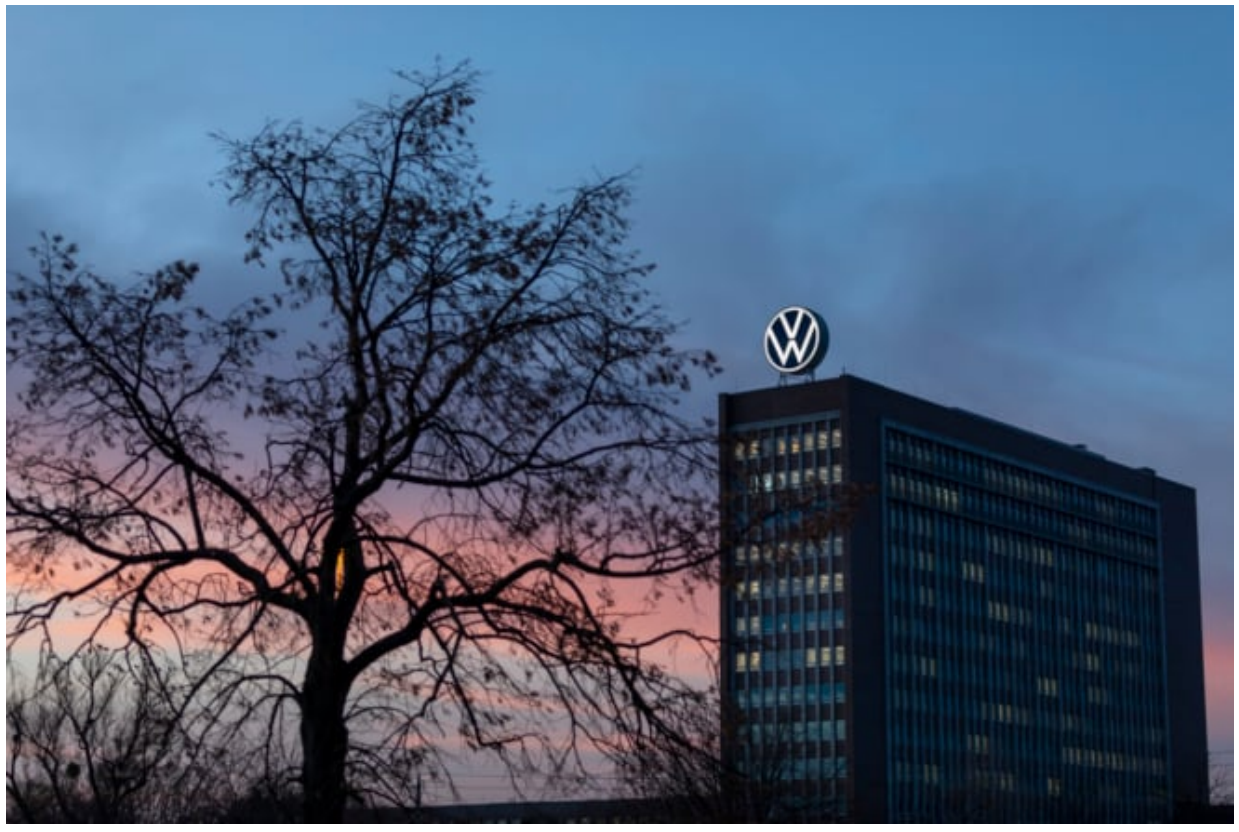
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?? ?? · Friday, September 29th, 2023

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??6????????BDI??392????16????????????????????????????
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Ilari Nackel/iStock

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?1?JETRO????????2023?6?14??

?2?JETRO????????2023?6?2??

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?4?????????????http://www.de-info.net/kiso/wirtschaftspltk00.html#energie

?5?BASF?????2600?????Bloomberg 2023?2?24??

?6??2022/08/24??????

?7????????????BMW?VW?“????”????????????????????????????????????PRESIDENT Online 2023/09/15?

Posted in ??????????, ???, ?? | No Comments »

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?? ?? · Thursday, September 28th, 2023

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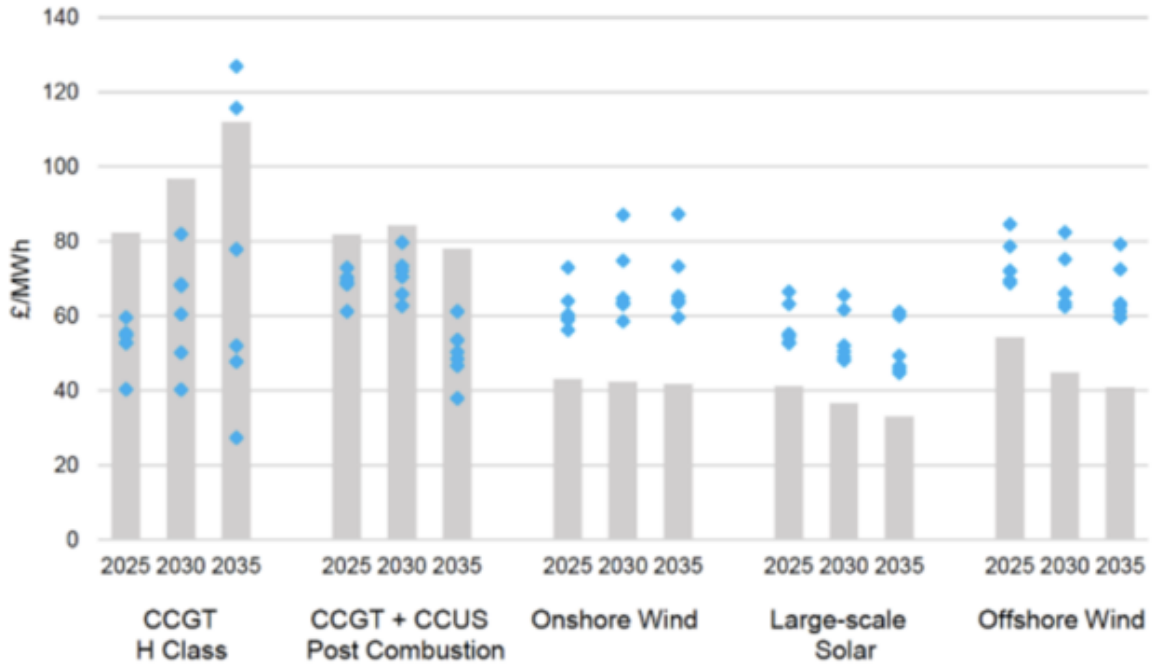
??500????????????????????????????Impax Asset
Management Group
Plc????????????CEO??
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Posted in ???, ????? | No Comments »



BEIS Electricity Generation Costs 2022

LCOE 2025 2035 54 40 /MWh 2025 67 85 /MWh 2035 60 80 /MWh

2035 LCOE 1.52 2021 8

Posted in , | No Comments »

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?? ? - Thursday, September 21st, 2023



Maks_Lab/iStock

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Posted in ??????????, ??, ????? | No Comments »

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?? ?? · Tuesday, September 19th, 2023

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Posted in ??????????, ??? | [No Comments »](#)

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?? ?? ? - Tuesday, September 12th, 2023



Gwengoat/iStock

1980-1970-SED-83-SED-F
DJ-“”-30-
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8-
36-16-
- 22 / 81 -
05.10.2023



CSU CSU

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10875 1 6 36

Wikipedia

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Posted in ???, ?? | No Comments »

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?? ?? · Thursday, September 7th, 2023

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axz66/iStock

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photoschmidt/iStock

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5?G7????????IPCC?6????AR6????1.5????????????GHG????2025????????????2019??
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Posted in ??????????, ???, ????? | No Comments »

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?? ? · Monday, August 28th, 2023



dima_zel/iStock

??GCR????????????????[PDF](#)????12????
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Posted in ???, ????, ???? | No Comments »

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?? ?? · Sunday, August 27th, 2023

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????????IPCC????????1.5????????1.5????????
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Don't overstate 1.5 degrees C threat, new IPCC head says

????????Woke,
Inc.: Inside Corporate America's Social Justice
Scam????????

Vivek Ramaswamy says the 'climate change agenda' is a hoax

????????Climate Change isn't
Everything????????

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??2022??
 DECLARATION??

Nobel Prize winner Dr. John F. Clauser signs the Clintel World Climate Declaration

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IPCC????63????????????????????????

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- Natural as well as anthropogenic factors cause warming
- Warming is far slower than predicted
- Climate policy relies on inadequate models
- Global warming has not increased natural disasters
- Policy must respect scientific and economic realities
- CO2 is not a pollutant. It is essential to all life on Earth. Photosynthesis is a blessing. More CO2 is beneficial for nature, greening the Earth: additional CO2 in the air has promoted growth in global plant biomass. It is also good for agriculture, increasing the yields of crop worldwide.

Posted in ??, ????? | No Comments »

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?? ?? · Saturday, August 26th, 2023

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Posted in ??????????, ??, ???????? | No Comments »

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?? ?? · Thursday, August 24th, 2023



NithidPhoto/iStock

2023?8?22????????????????????9????????????????????????????????



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2022?3?15??



??CO2????2030?46%????????????????????????????
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Posted in ????????????, ??? | [No Comments »](#)

?????2????????CO2????????????????????????????????

?? ?? · Tuesday, August 22nd, 2023



Artur/iStock

MIT
"heavily saturated"
EPA

CO2

CO2

CO2

CO2
80

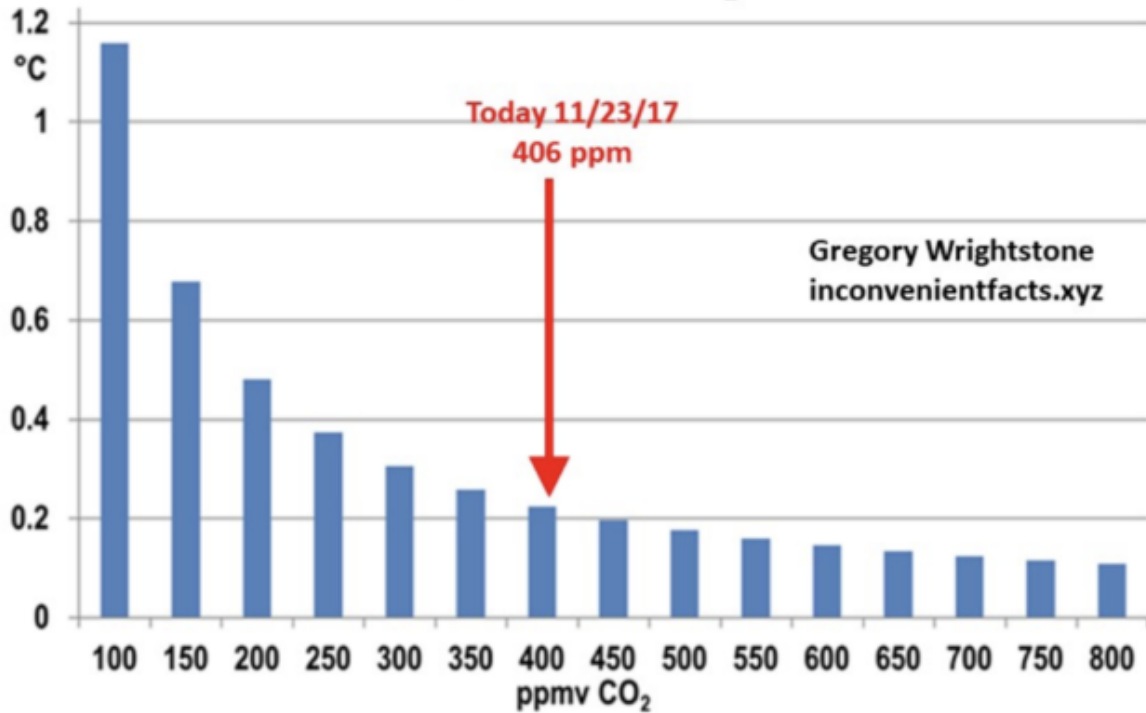
40
Gi
CO2
1

CO2

CO2 "heavily saturated"

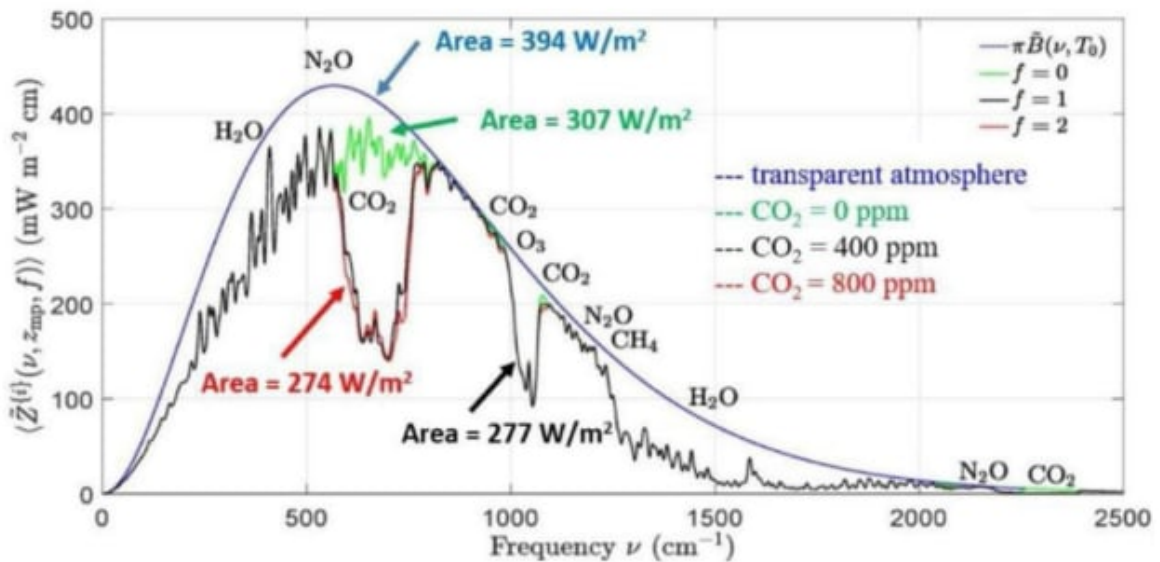
CO2
50ppm
CO2
saturation
CO2
"heavily saturated"

Figure I-3: Less global warming for each additional 50 parts-per-million-by-volume of CO₂ concentration



????????CO₂?????2?800ppm????????????????????????CO₂????????????????????????????????

????????????????????????????????CO₂????????????????????????CO₂?N₂O?O₃?CH₄????????????????
 ??394 W/m² @ transparent atmosphere??



????????????????????????????????CO₂ = 400ppm????????394W/m²?????277W/m²????????????????????????????????????277/394 = 70%????????CO₂?400ppm??800ppm????????????????????????????????274 W/m²?69.5%????????????????????????????3W/m²????????????????1????????????

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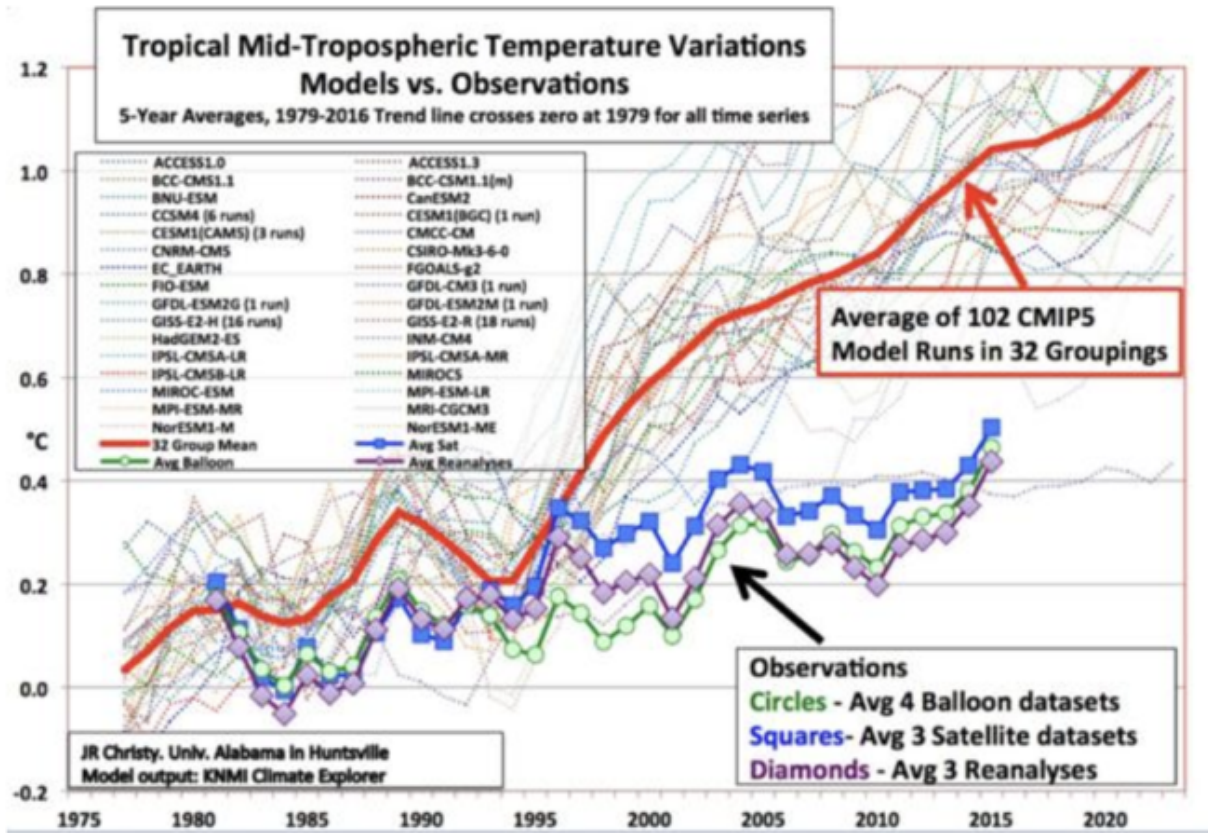
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The main conclusion of this part of the study is that even an order of magnitude increase of CO2 in the atmosphere by human activities, which at the present rate of input is not expected within the next several thousand years, may not be sufficient to produce a runaway greenhouse effect on Earth. On the short time scale, if CO₂ is augmented by another 10 percent in the next 30 years, the increase in the global temperature may be as small as 0.1°K.

Posted in ???, ????? | No Comments »

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?? ?? · Friday, August 18th, 2023



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Luisa Trescher Photos/iStock



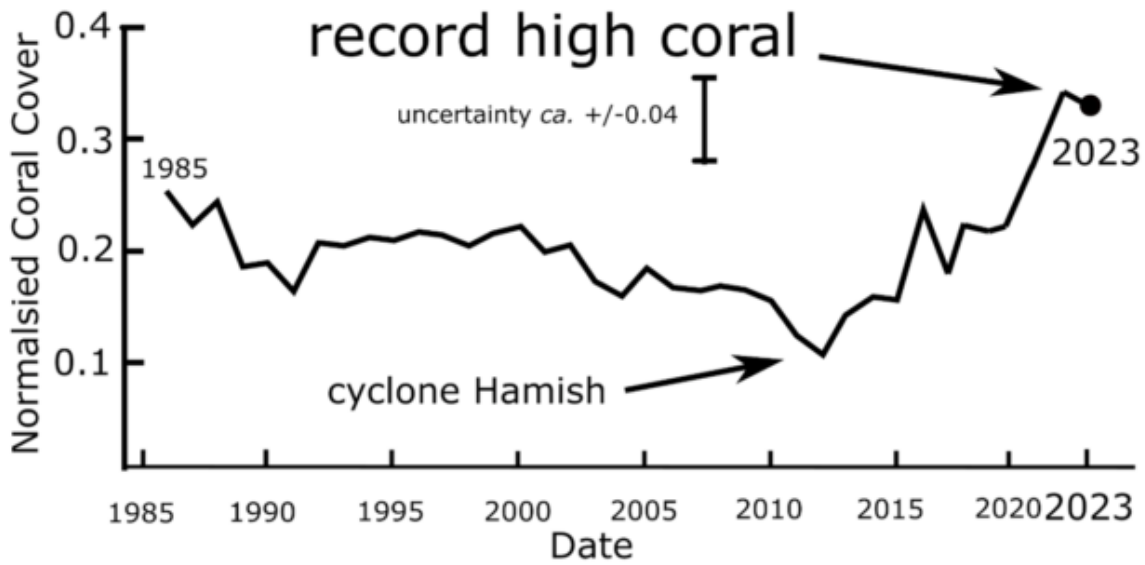
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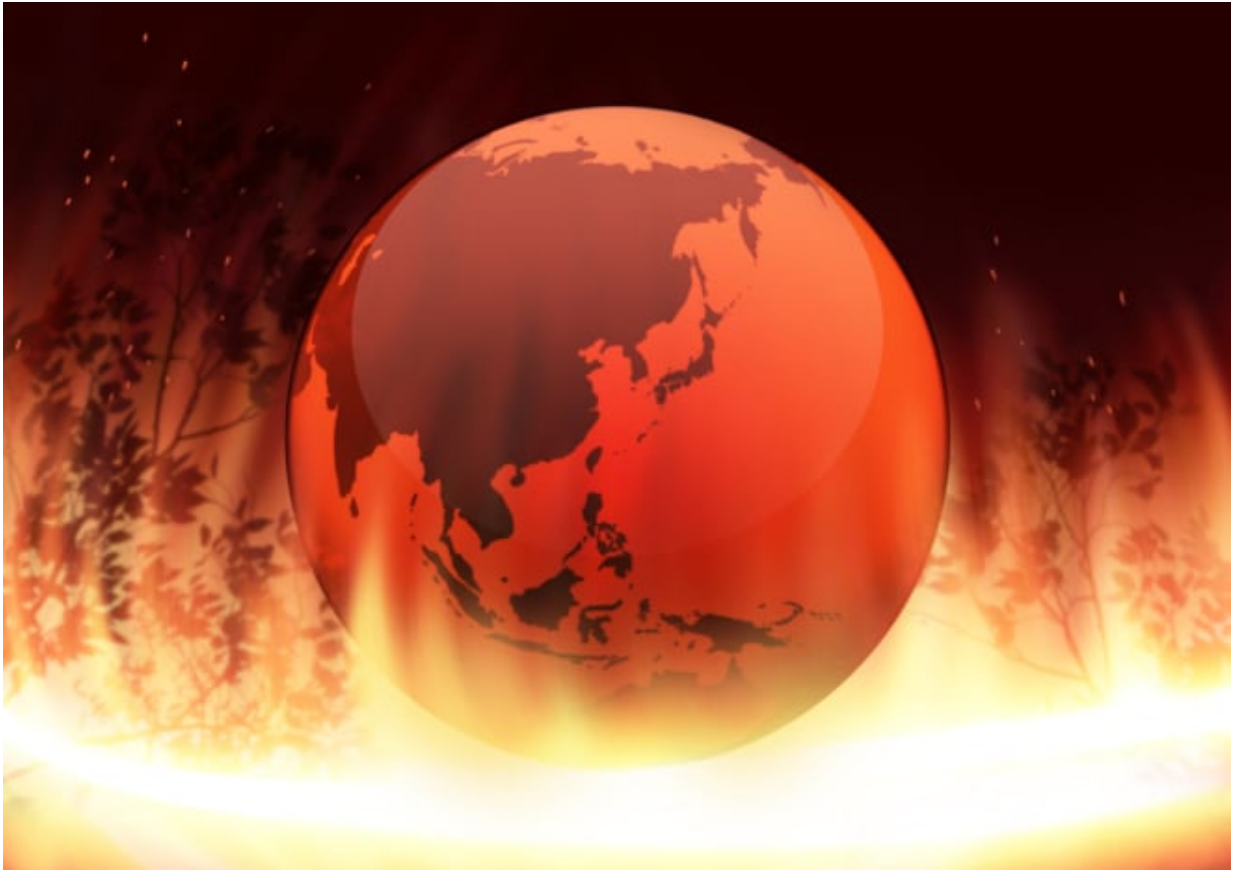
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Tr6/iStock

global warming global boiling

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2023 “”

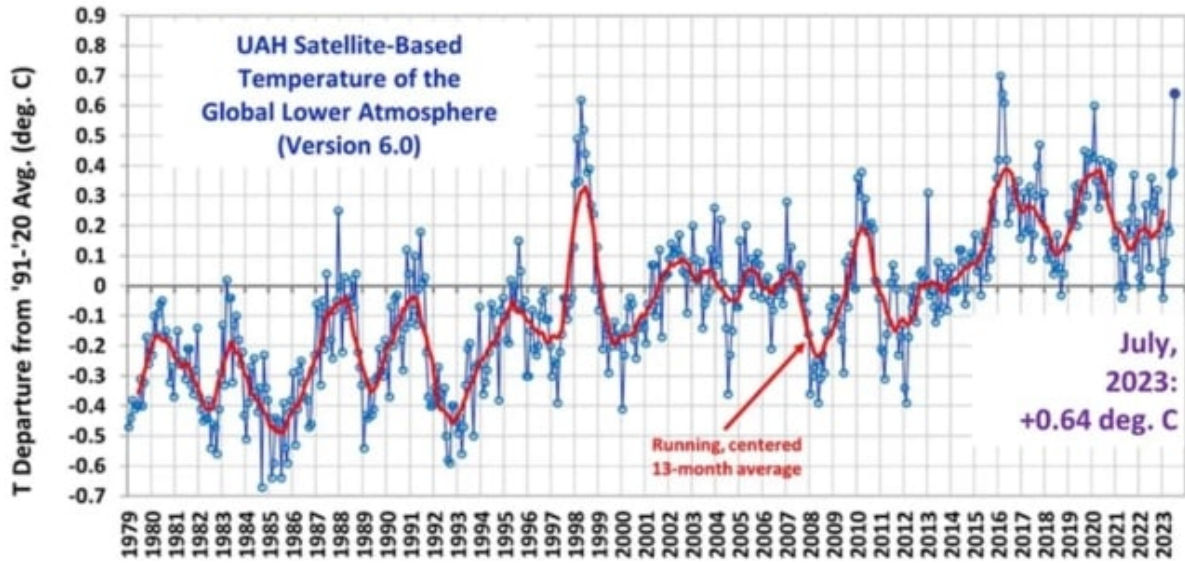
100 15 100

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Climate Etc.

9000 UAH



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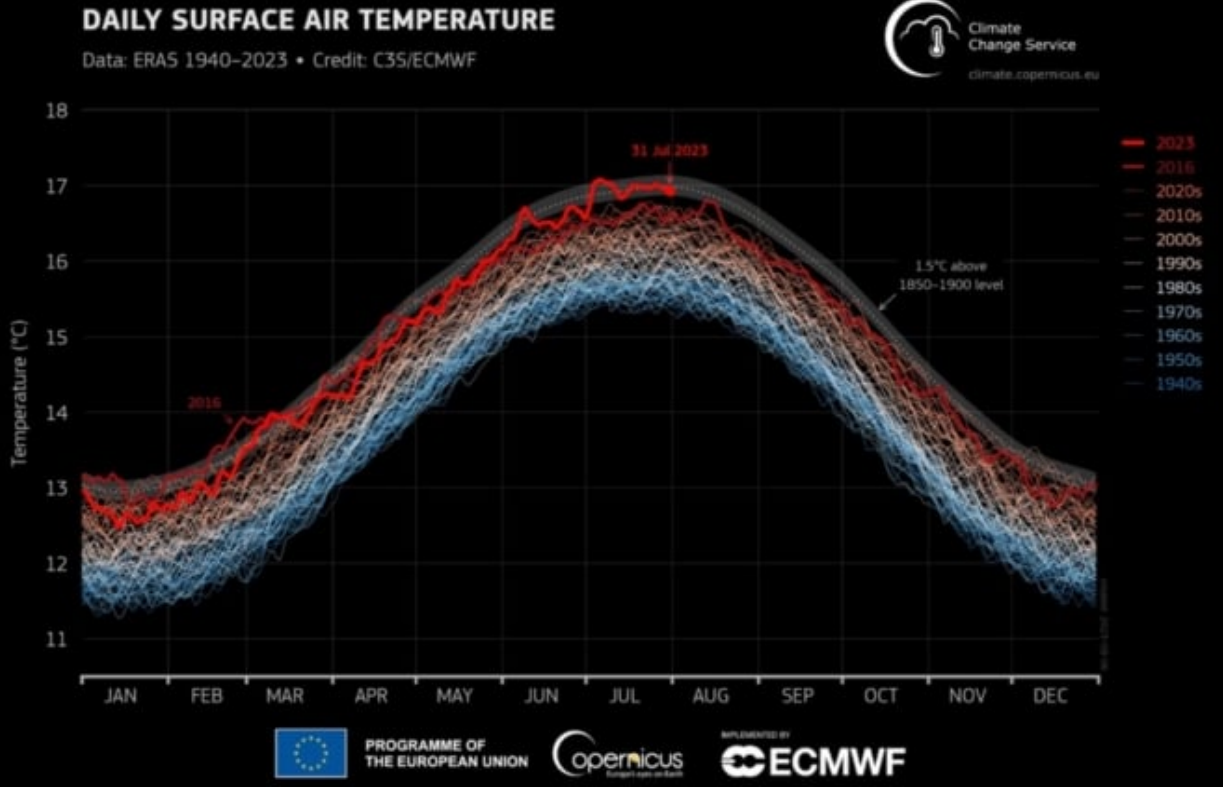
Climate Etc.

2023

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2023 4 1 2 1 7



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CO2
CO2

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2009
4
14
S. Matsuda?“ Validity of Bio-Ethanol as a Countermeasure against Global Warming”, J. Environ. Inf. Sci. , Vol.37, No.5, pp.1-6 (2009.3)?

CO2

CO2
CO2
2-09
p.55
Table 2?

HP
Vol.44
vol.37

CO2
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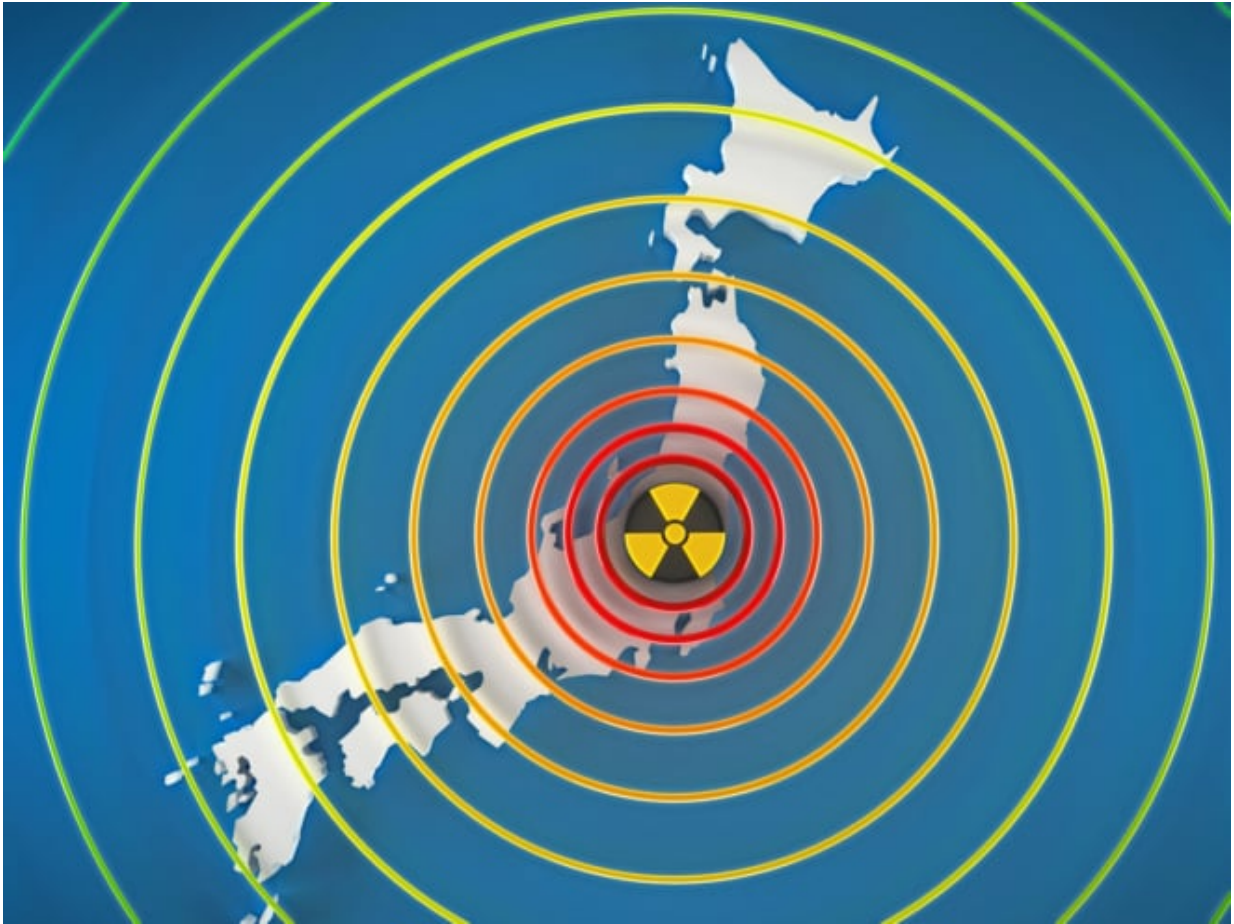
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Posted in [??](#), [????????](#) | [No Comments](#) »

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?? ?? · Thursday, August 3rd, 2023



adventr/iStock

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← ツイート



村本大輔(ウーマンラッシュアワー)
@WRHMURAMOTO

...

事故があった時、地元の人だけじゃなく日本中が被爆しますように

NHKニュース @nhk_news · 7月28日

福井県にある関西電力の高浜原子力発電所1号機が、28日午後、原子炉を起動し、12年ぶりに再稼働します

www3.nhk.or.jp/news/html/2023...

#nhk_video



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bluejayphoto/iStock

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Posted in ???, ??, ????? | No Comments »

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?? ? · Monday, July 31st, 2023

7?22????????G20??2022????????????
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NHK??

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??G20????????????
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some
members????
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1.5°C COP 2050

G7

2050

G7 G20

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2030

???

150GW TW

COP27

G20 COP28

UAE

- 2030
2030
2030
???

G20

G20 1.5°C by or around mid century

1.5°C

Posted in ... | No Comments »

IPCC AR6“???”

?? ?? · Sunday, July 30th, 2023

??623??IPCC??

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NicoElNino/iStock

AR6 COP26 1.5 IPCC 2014 5
AR5 2021 1.5
2 1.5 2 2 67 1.5 5
0 1.5
1.5 2 1.5 1.5
1.5 2 67
IPCC
1.5 2 19 500 CO₂e 1150
21
2020 50 GHG 1.5 10 23 7
IPCC 1.5 2 0.5 650
AR 6 -
SPM Table SPM.1 2 2050 2019 64 2030 21 2070 Table
SPM.1 1.5 2030 43 2050 84 22
1.5 1.5 50 1.5 0.2 0.3
AR6 1.5 1.7 1.8 1.5 500 500 1.5 1150 2 825
825 GHG 1.5
AR6 1.5
1.5
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AR6-SPM?C.2.4

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AR6-SPM?C.2.4
2
39

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2
1.5

1.5 AR6-SPM?P26



1.5
24

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1.5
IPCC AR6
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2030?21 GHG AR6-SPM?C.2.4

1.5 30?43?50?84 AR6-SPM?C.2.5



imply??
59

1.5

AR6
67

IPCC

AR6
2
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?1?AR6-SPM?B5.2????????1.5??

????????GHG????CO2????????????1.5????2050?99????2030?48????????????30????50????????????

?3?AR6.SPM?C.2.4?“Even without accounting for all the benefits of avoiding potential damages the global economic and social benefit of limiting global warming to 2°C exceeds the cost of mitigation in most of the assessed literature” (medium confidence)

?4?AR6-SMP P26 ??50?“The evidence is too limited to make a similar robust conclusion for limiting warming to 1.5°C. Limiting global warming to 1.5°C instead of 2°C would increase the costs of mitigation, but also increase the benefits in terms of reduced impacts and related risks, and reduced adaptation needs.”

?5?AR6.SPM C.2.5: “Ambitious mitigation pathways imply large and sometimes disruptive changes in existing economic structures, with significant distributional consequences within and between countries.”

?6?AR6-SPM E.1.3: “Strengthened and coordinated near-term actions in cost-effective modelled global pathways that limit warming to 2°C (>67%) or lower, reduce the overall risks to the feasibility of the system transitions, compared to modelled pathways with relatively delayed or uncoordinated action.”

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?? ? · Saturday, July 29th, 2023



BrianAJackson/iStock

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?????CO2????????????????????

?? ?? · Thursday, July 27th, 2023



JaCZhou/iStock

?????CO2????????????????????2023?7?4??Enrico Mariutti??The Dirty Secret of the Solar Industry???

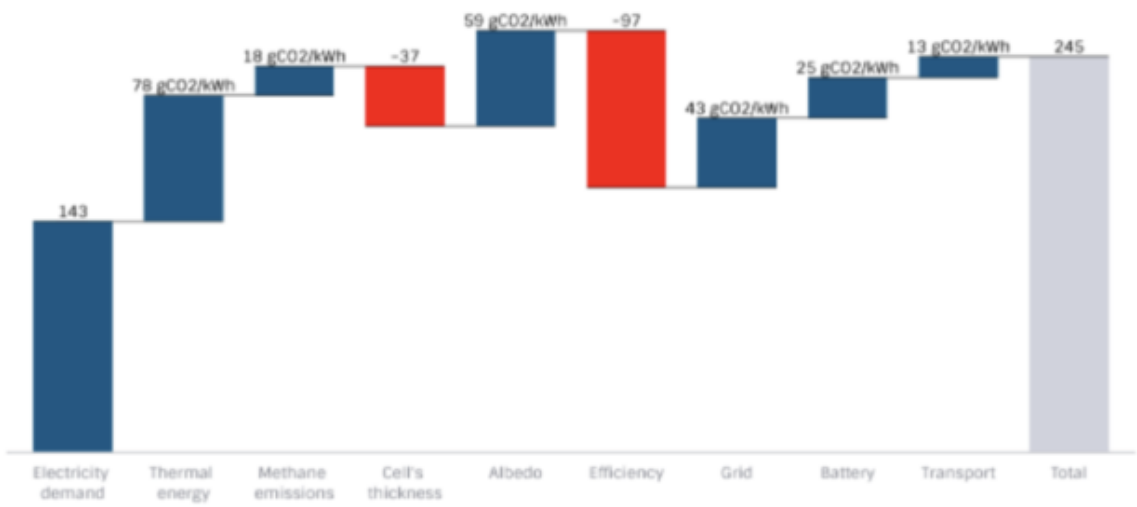
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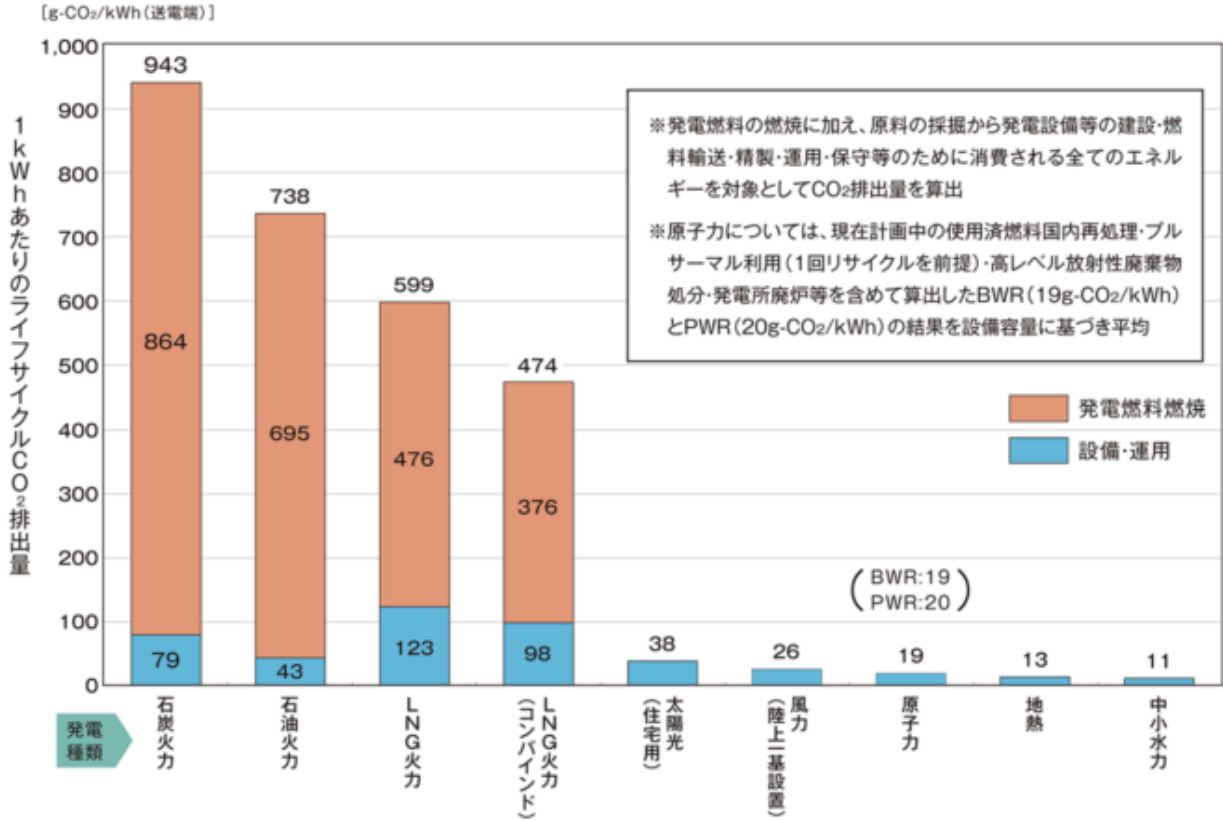
2022
Carbon intensity, Worst Scenario



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??CO2??CO2????????????
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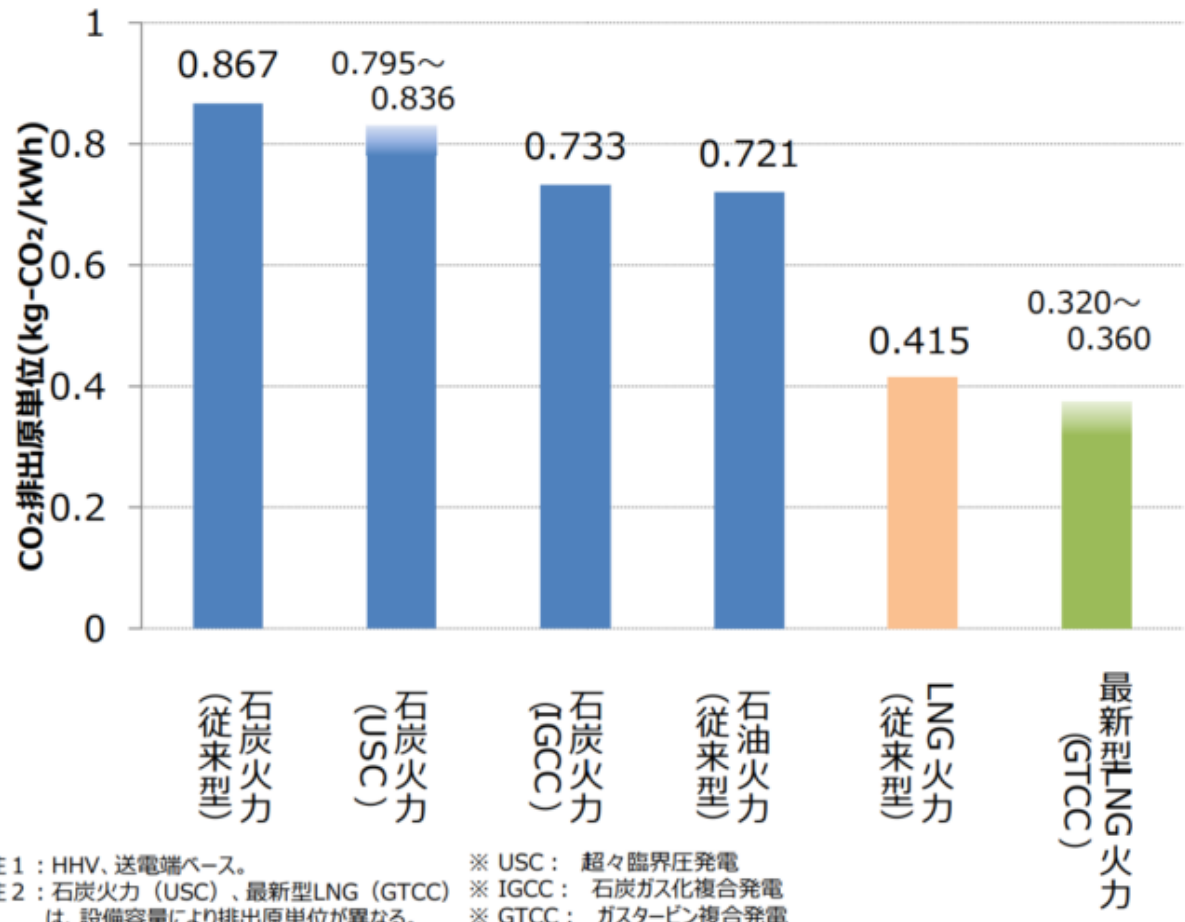
??1kWh??245??2016????????????????????????
?????kWh??38????????????2??????????



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CO2 9

1kWh 245 CO2 2022 LNG CO2 1kWh 320 360



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??????EV??????????????????

?? ?? · Friday, July 21st, 2023

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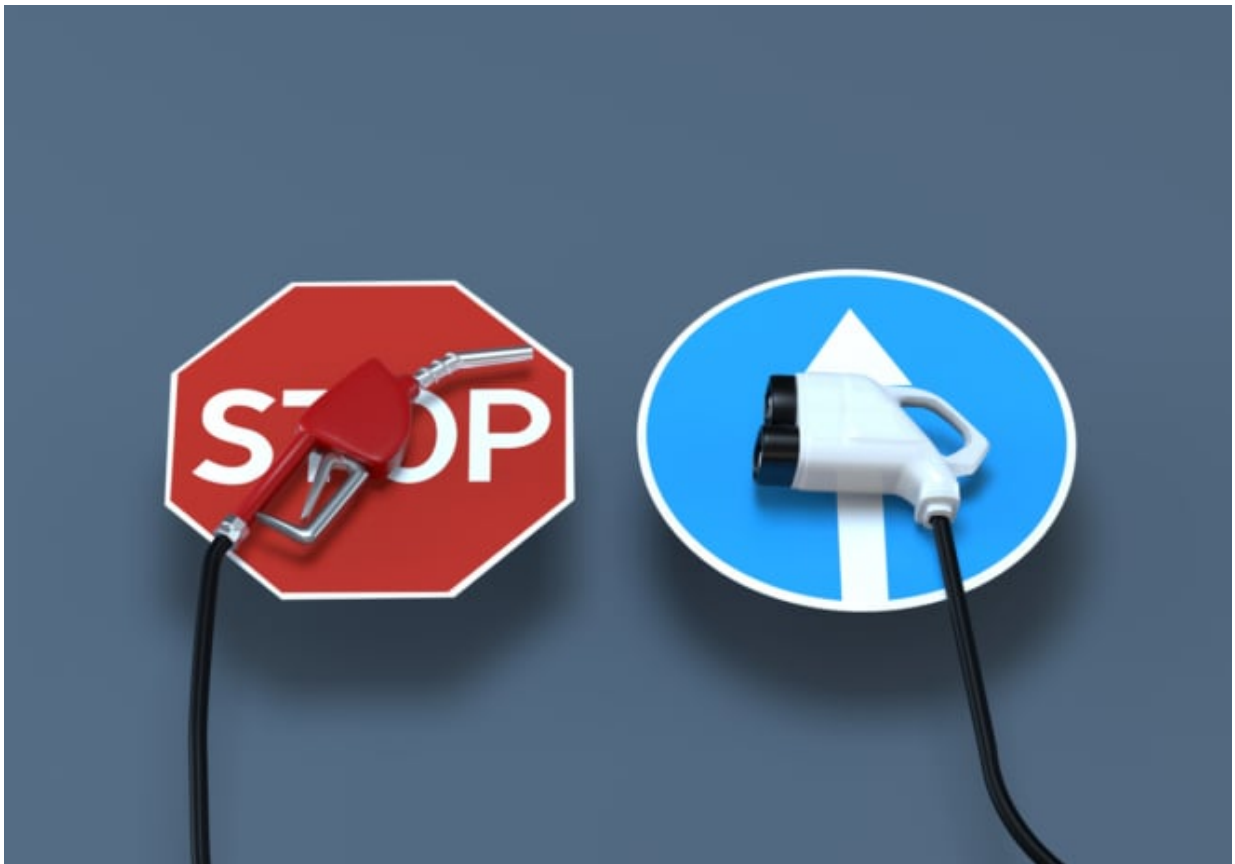
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?? ?? · Wednesday, July 19th, 2023



Max Lirnyk/iStock

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Electric Vehicles for Everyone? The Impossible Dream??

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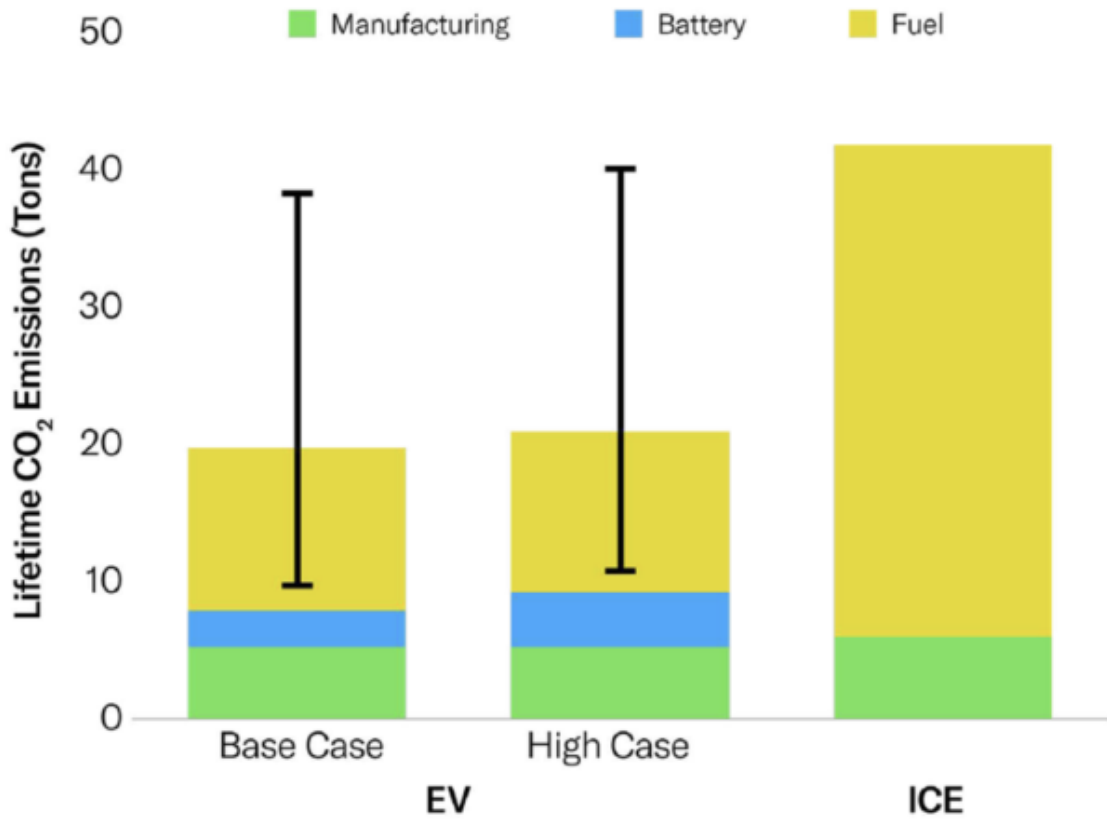
?????2??????CO2????????EV????CO2????????????????????

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Figure 3

Estimated Life-Cycle Emissions for EVs vs. ICE Cars, per IEA



Source: IEA, "The Role of Critical Minerals in Clean Energy Transitions"

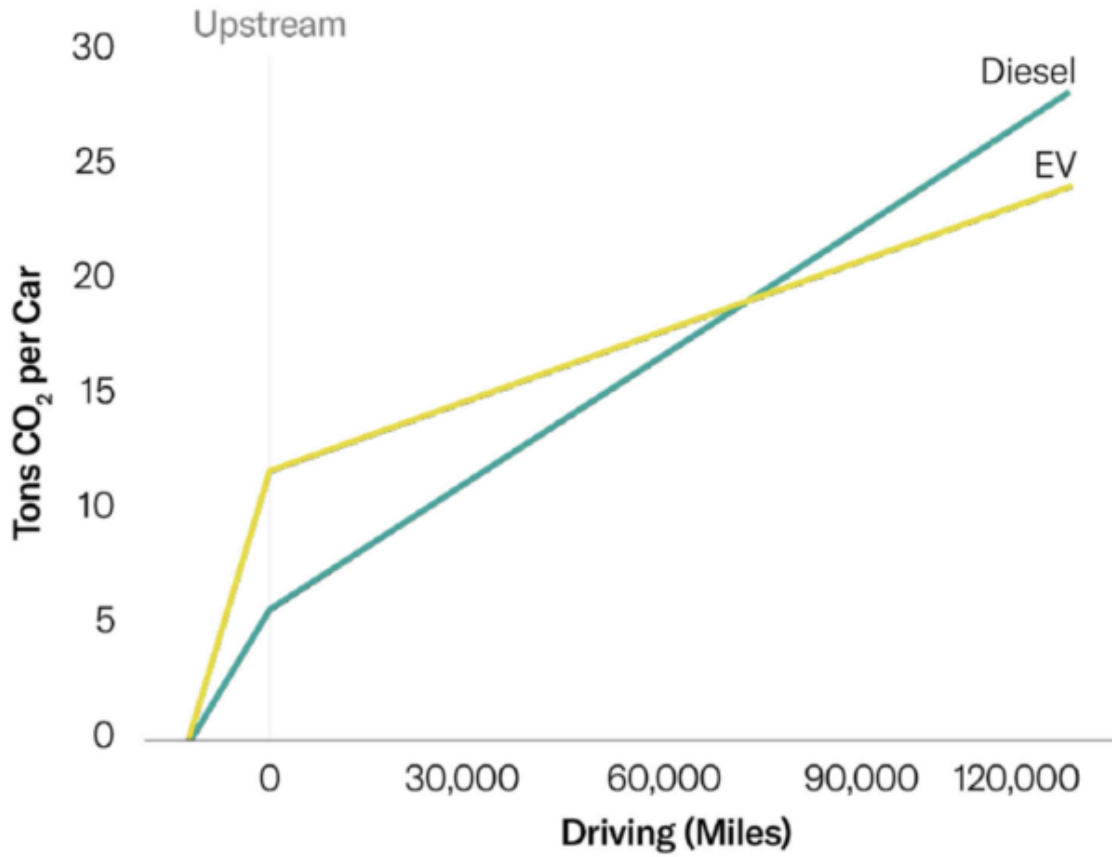
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Figure 4

Life-Cycle Emissions: Volkswagen EV vs. Diesel



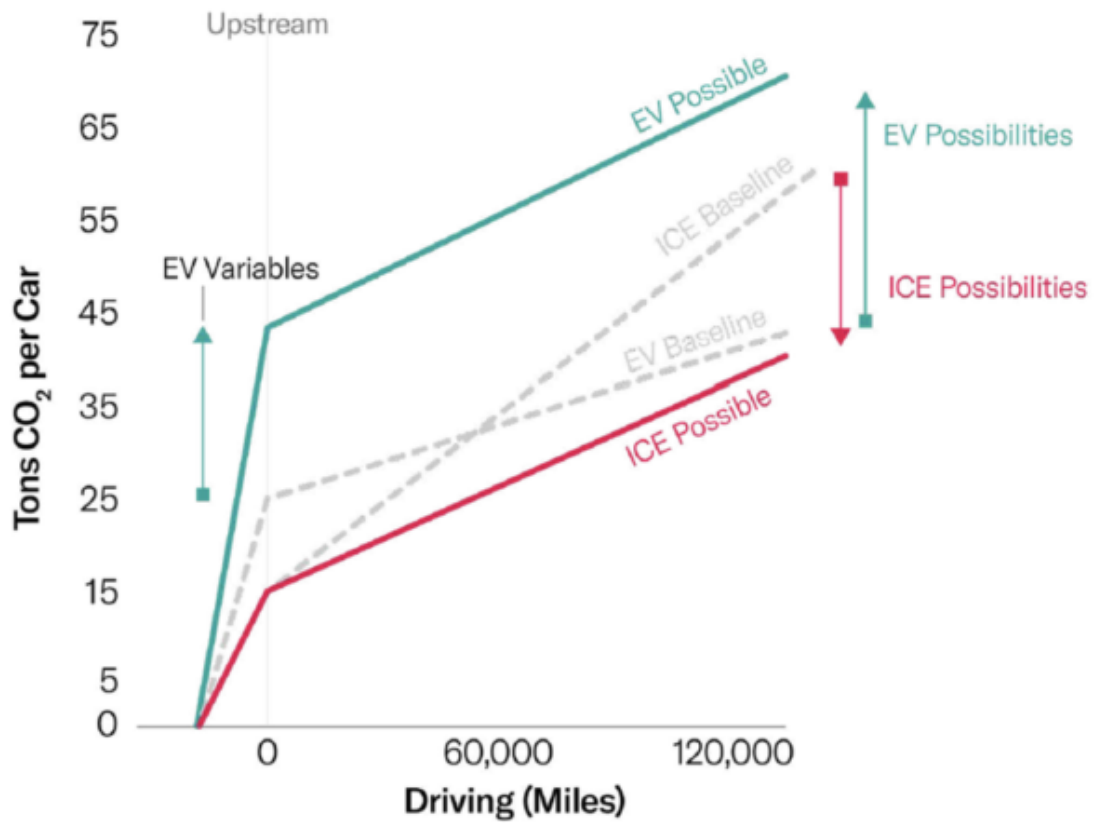
Source: Maciej Neugebauer, Adam Żebrowski, and Ogulcan Esmer, "Cumulative Emissions of CO₂ for Electric and Combustion Cars: A Case Study on Specific Models," *Energies*, Apr. 6, 2022

????????????????EV????????????????EV????CO2????????????????????????????????ICE????????????
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?EV???ICE???CO2????????????????????????????????

Figure 6

EV vs. ICE CO₂ Emissions: Scenarios with Known Unknowns



Source: Author's calculations from multiple data sources in this report; see Appendix

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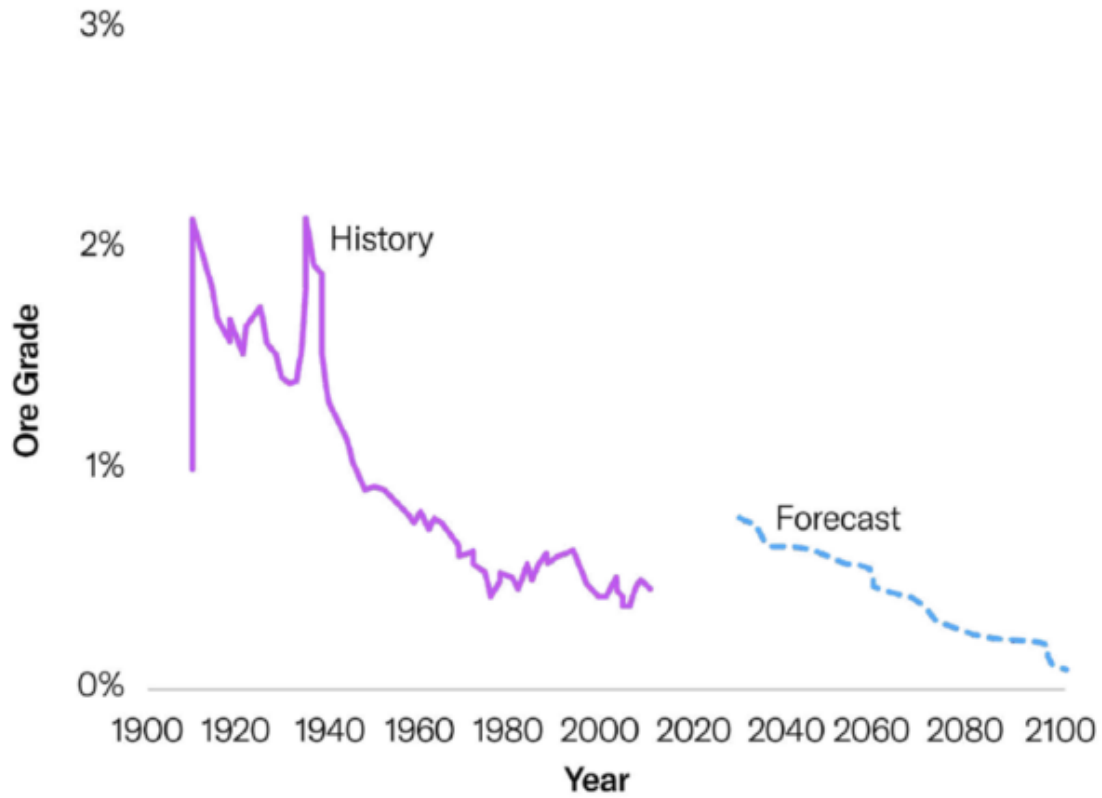
CO₂?????????1????????????????? EV??ICE????????????????????????????????????

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Figure 8

Two Centuries of Global Copper Ore Grades



Source: S. Northey et al., “Modelling Future Copper Ore Grade Decline Based on a Detailed Assessment of Copper Resources and Mining,” *Resources, Conservation and Recycling* 83 (February 2014): 190–201

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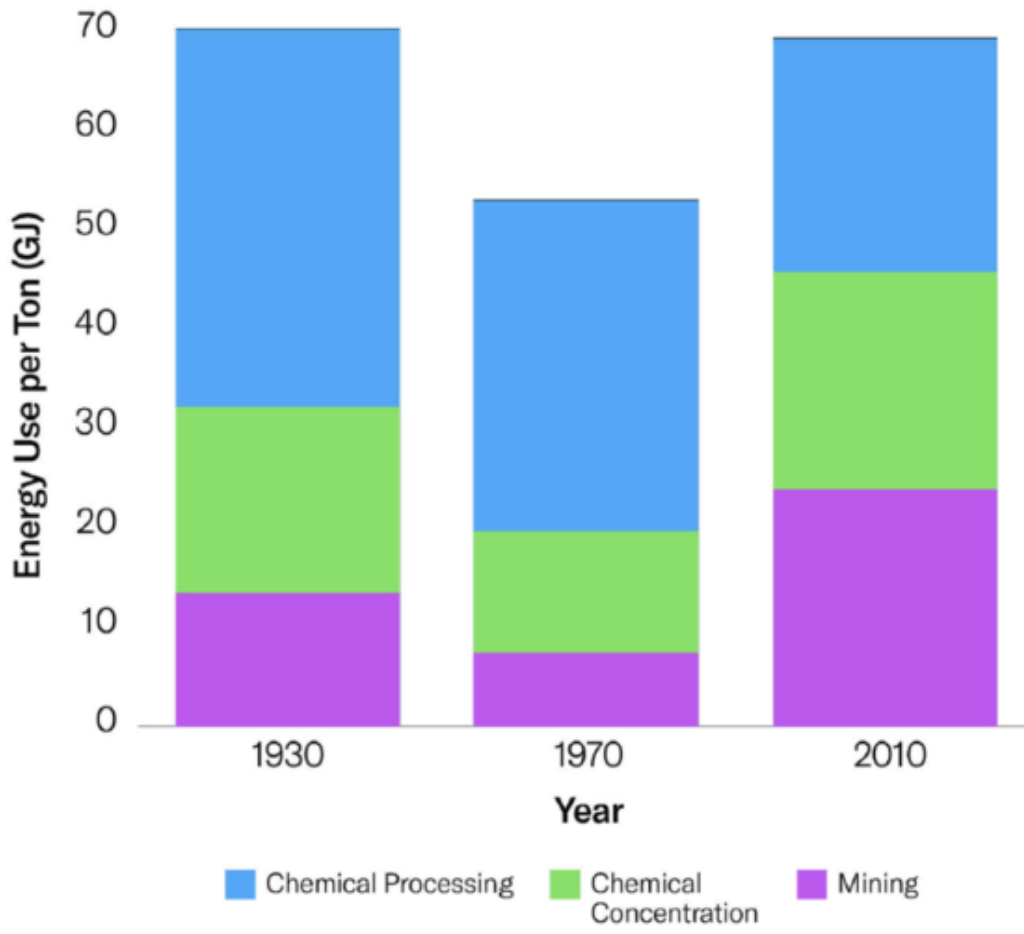
????????????????mining????????????????chemical

concentration??BEV????

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Figure 10

Copper Production: Technology Trends in Energy Use per Ton



Source: Nadine Rötzer and Mario Schmidt, "Historical, Current, and Future Energy Demand from Global Copper Production and Its Impact on Climate Change," Resources 9, no. 4 (April 2020)

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??ICE?HEV????????????????????
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