

# Global Energy Policy Research | GEPR

GEPR <http://agorajp.com/>

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?? ?? - Thursday, September 28th, 2023

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Posted in ???, ????? | No Comments »

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?? ?? · Tuesday, September 26th, 2023

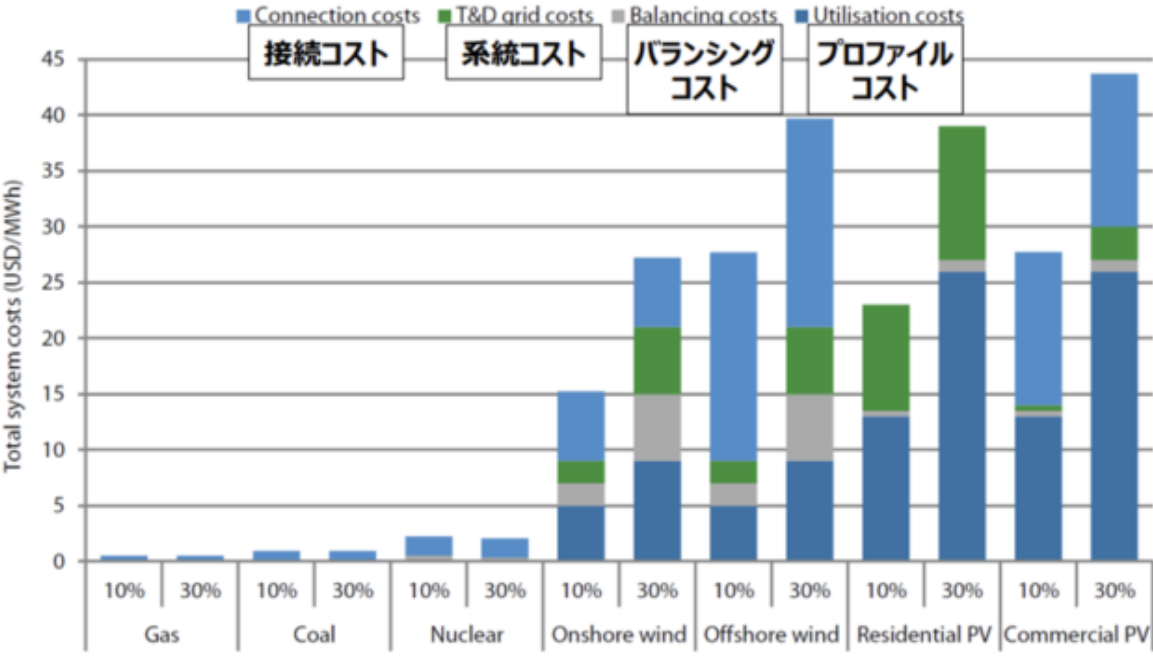


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- 1. ???
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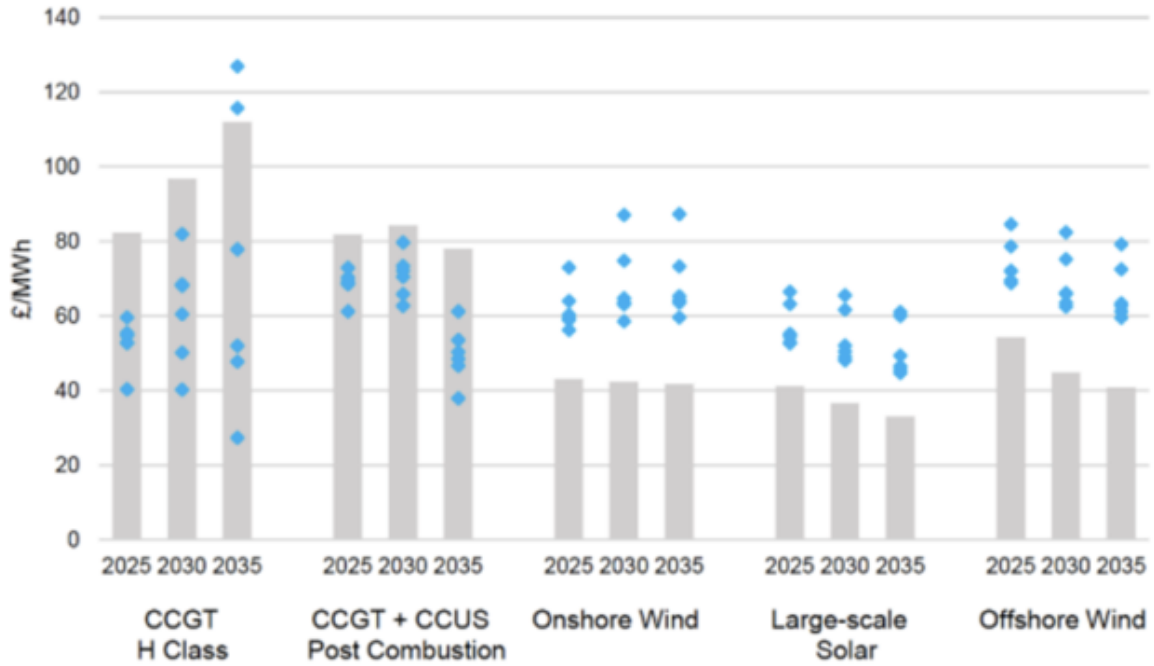
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OECD??US\$/MWh????????????????  
10????????????28 US\$/MWh?30?40  
US\$/MWh????????????????12????????????10%??30%????????1.5????????



???OECD?The Full Cost of Electricity Provision 2018

??BEIS??Enhanced Levelized  
Cost????????????????LCOE????????????????CCS????????????????????/MWh??  
????????????????????LCOE??LCOE????????????????



BEIS Electricity Generation Costs 2022

CCGT H Class LCOE 2025 40-67 £/MWh, 2035 60-85 £/MWh

CCGT + CCUS Post Combustion LCOE 2025 60-85 £/MWh, 2035 38-78 £/MWh

Onshore Wind LCOE 2025 58-88 £/MWh, 2035 60-88 £/MWh

Posted in BEIS Electricity Generation Costs 2022 | No Comments »

BEIS Electricity Generation Costs 2022

28.09.2023 · 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

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CDU FDJ 30

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Posted in ???, ?? | No Comments »

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?? ?? · Thursday, September 7th, 2023

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Posted in ???, ????? | No Comments »

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?? ?? · Saturday, September 2nd, 2023



axz66/iStock

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2027??

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

**????G7G20????????????1.5????????**

?? ? · Thursday, August 31st, 2023





photoschmidt/iStock

????????G20??28????????????????G20????????????????????????????  
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????????????68????????????63?66????????????????G20??  
 ???G7????????????????????????????????

**????????????????63?**

5?G7????????IPCC?6????AR6????1.5????????????GHG????2025????????????2019??  
 ?2030????43??2035????60????????????????2030?NDC????????GHG????????LTS??1.5????????  
 ??2050????????????????????????????????????COP28????????2030?NDC????????????LTS??  
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G20????????IPCC????????????????????????????G20????????  
 ?2025????????????????2019???2035????60%????????  
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G7??IPCC?6????????2025????2035?60????12??COP28????  
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G7????1.5????2050????????????  
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1.5????

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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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R????C<sup>14</sup>????????????????????????????????

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?????????GCR?????????12km?????????

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?????????Fig. 1?GCR?????????0?3?????????8?????????1?????????Fig. 2?????????GCR?????????5?6?7?8?????????

?????????GCR cycles?????????Fig. 3?????????Fig. S5?????????GCR?????????GCR?????????GCR?????????

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Fig. 4?????????GCR?????????3?????????GCR?????????GCR?????????

?????????GCR cycles?????????Fig. 5?????????

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

### ????????????”???? “????????????

?? ?? · 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

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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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??1????????????????????

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??2022????????????????????????????????????1600?????????????????????????????WORLD CLIMATE  
DECLARATION????????????????

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

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**IPCC?????63????????????????????**

??????2019?9?23??500????????????????????????????????  
??1600????????

????6????????????

- 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 »

**??????10????????????**

?? ?? · Saturday, August 26th, 2023

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??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

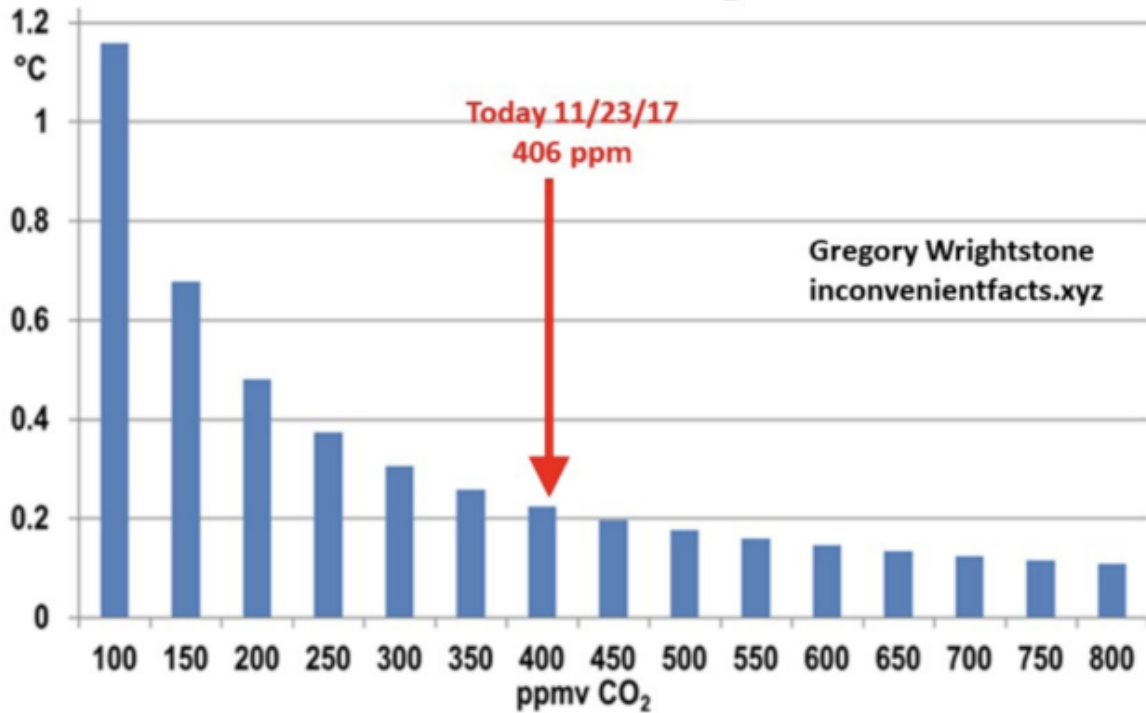
40 Gt  
 CO2 1

CO2

**CO2 "heavily saturated"**

CO2 50 ppm  
 = saturation  
 CO2 "heavily saturated"

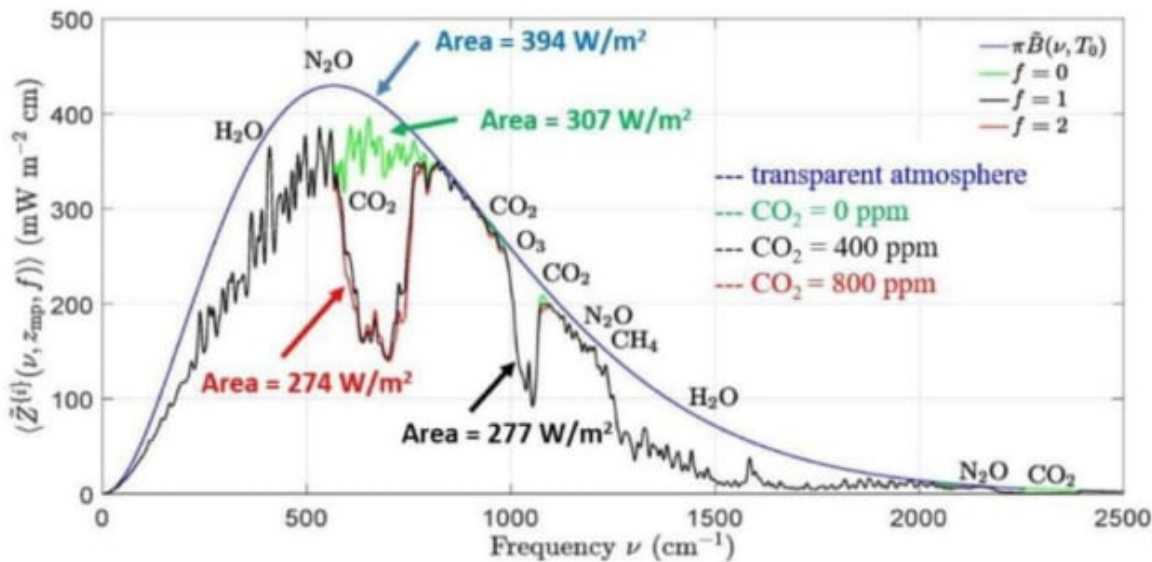
Figure I-3: Less global warming for each additional 50 parts-per-million-by-volume of CO<sub>2</sub> concentration



???????CO<sub>2</sub>????2?800ppm????????????????????????????CO<sub>2</sub>????????????????????????????????

????????????????????????????????CO<sub>2</sub>????????????????????????CO<sub>2</sub>?N<sub>2</sub>O?O<sub>3</sub>?CH<sub>4</sub>????????????????

??394 W/m<sup>2</sup>?????????????????????@transparent atmosphere????????????27??



????????????????????????????????CO<sub>2</sub> =

400ppm????????394W/m<sup>2</sup>????277W/m<sup>2</sup>????????????????????????????????????277/394 =

70????????CO<sub>2</sub>?400ppm??800ppm????????????????????????274

W/m<sup>2</sup>?69.5%????????????????????????3W/m<sup>2</sup>???????????????? 1????????

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? State Farm Test: ???

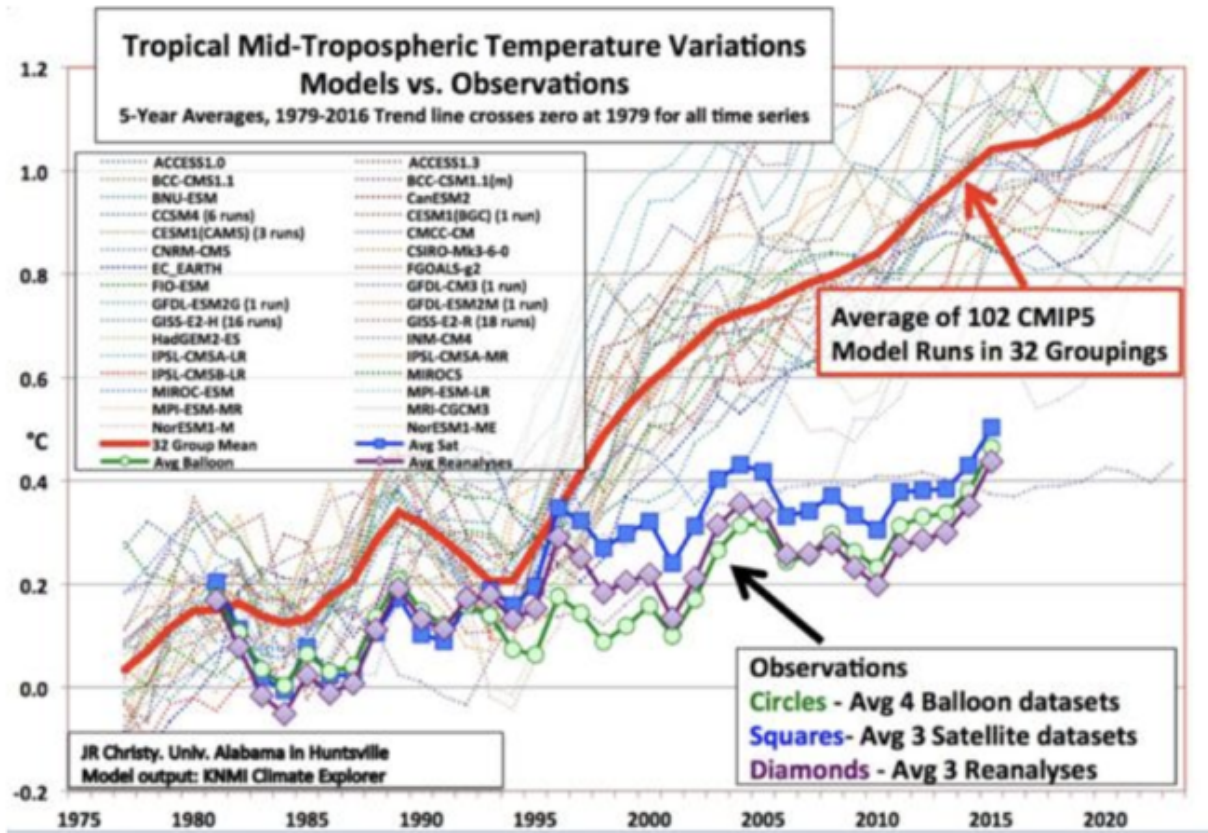
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1. EPA????????????????????????????????????
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The main conclusion of this part of the study is that even an order of magnitude increase of CO2 in the atmosphere by human activities, which at the present 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



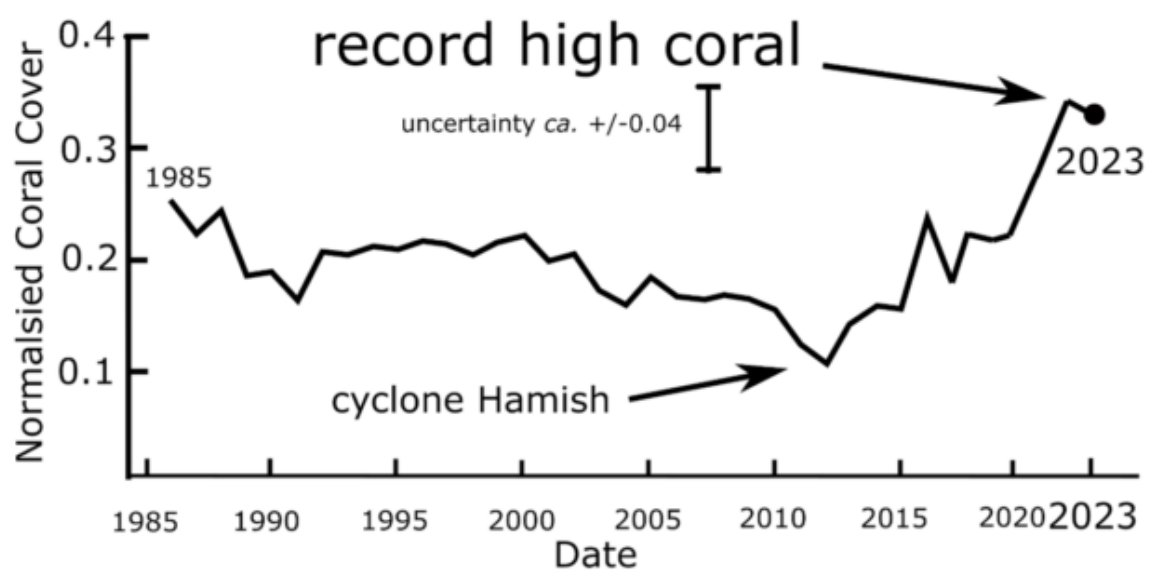
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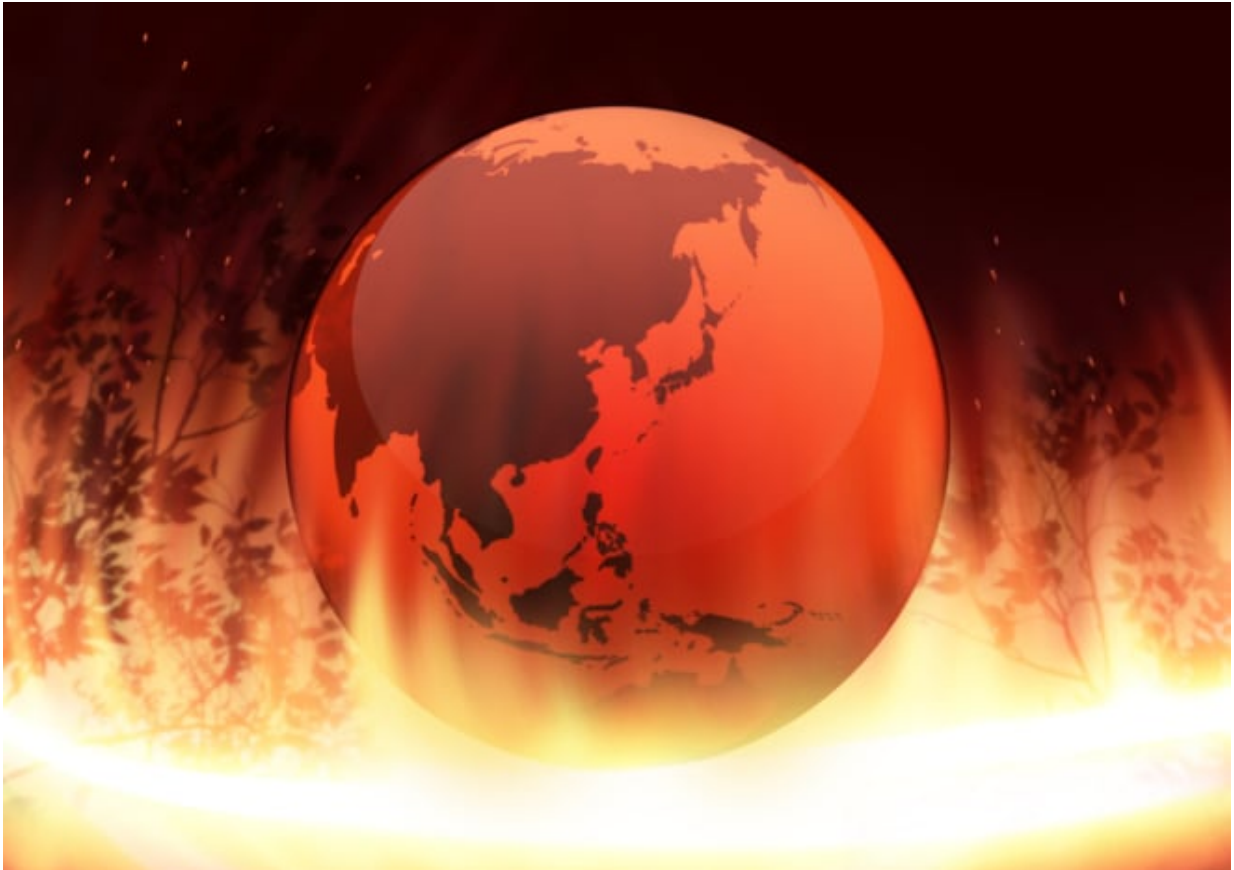
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Posted in ???, ????? | No Comments »

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?? ?? · Thursday, August 17th, 2023



Tr6/iStock

global warming global boiling

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2023 “”

100 15 100

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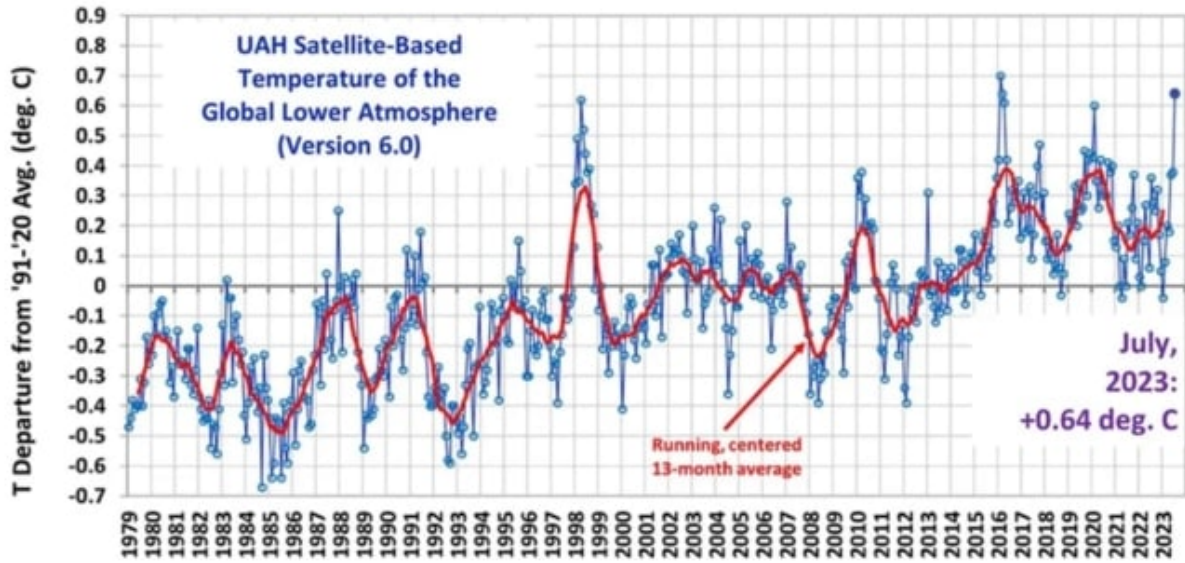
BBC 1





Climate Etc.

9000 UAH



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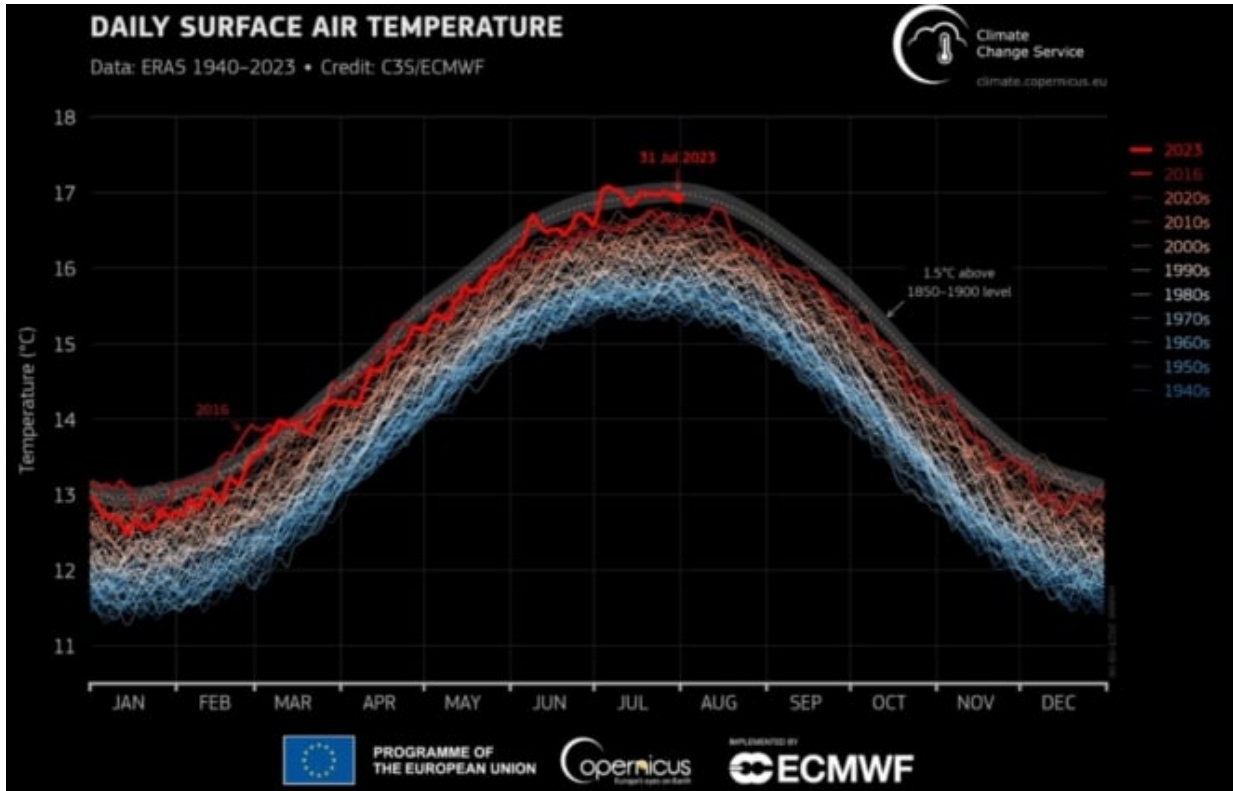
Climate Etc.

2023

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2023??2022????????????????????????????????????  
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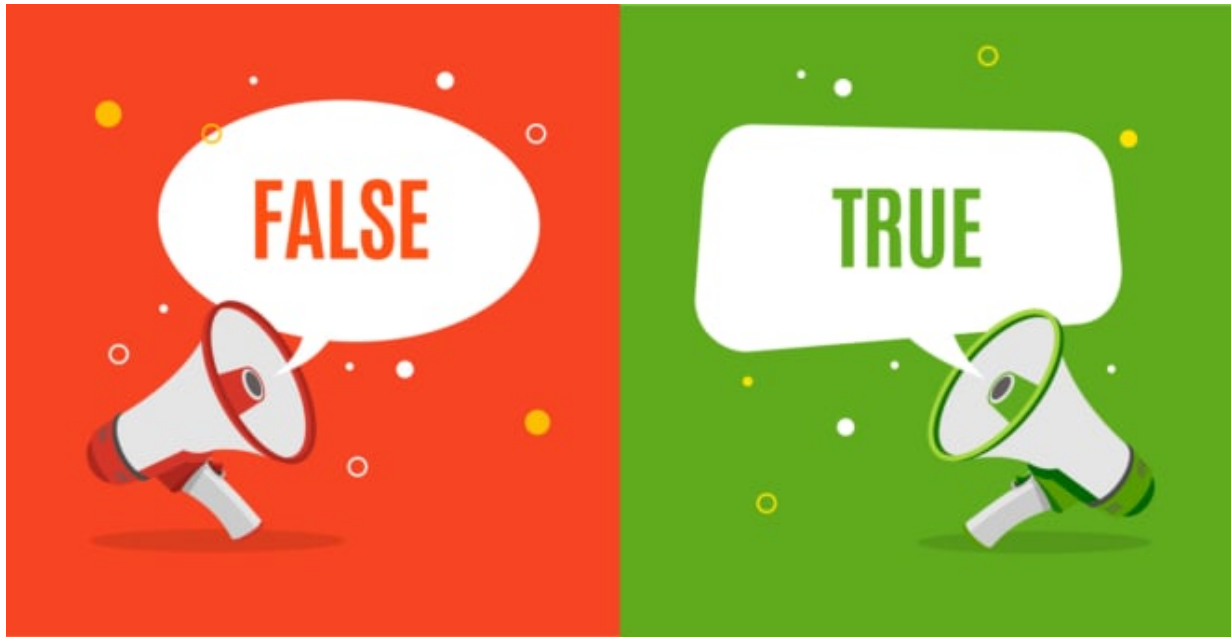
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Posted in ???, ????? | No Comments »

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?? ? · Saturday, August 5th, 2023



midwlv/iStock

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CO2  
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**??????????**

CN  
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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4  
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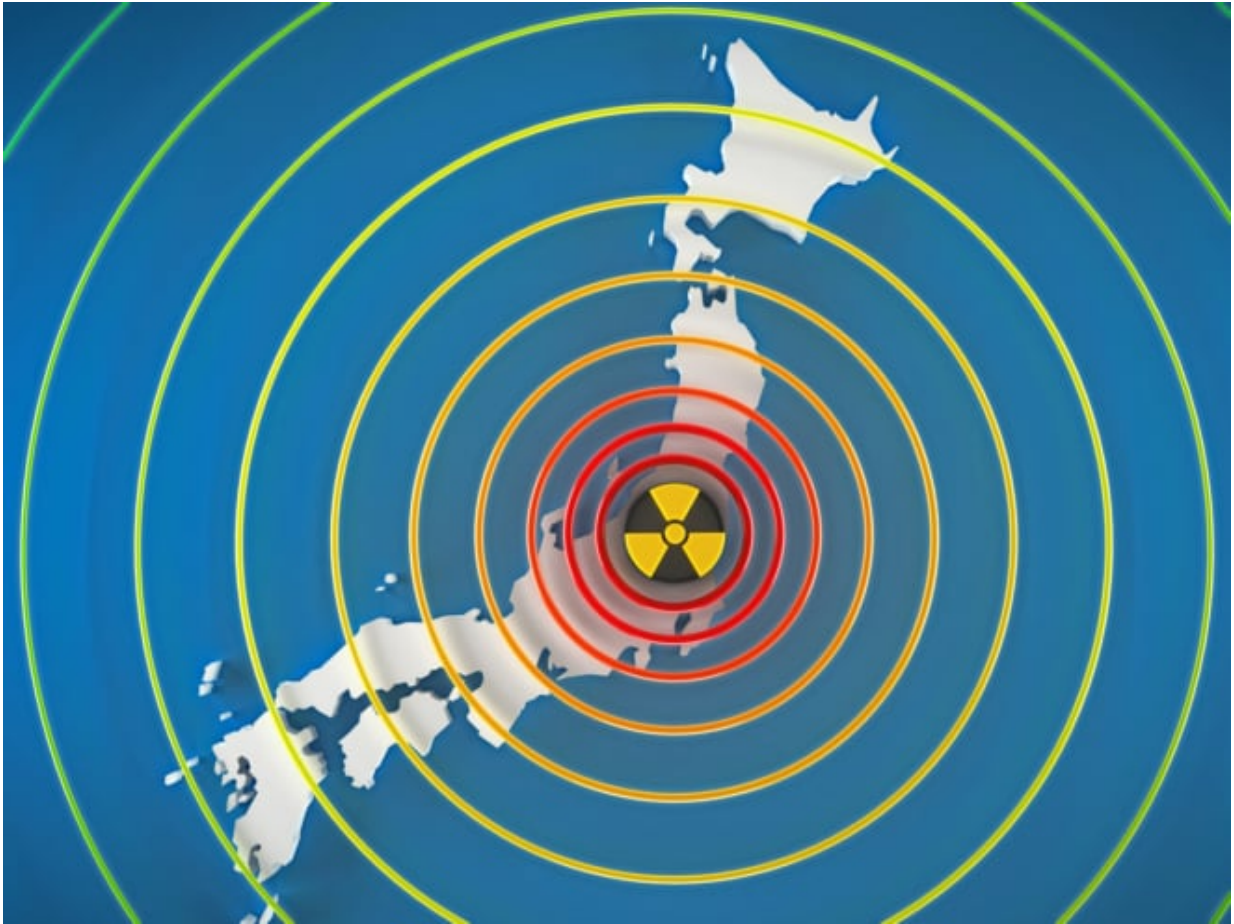
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Posted in [??](#), [????????](#) | [No Comments](#) »

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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...](http://www3.nhk.or.jp/news/html/2023...)  
#nhk\_video



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/Mark?I????????????????????PWR??  
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3.11??

2011?3?25??

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©? japan.cnet.com

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bluejayphoto/iStock

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7?27?????WMO??EU?????????2023?7?????????  
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Posted in ???, ??, ????? | No Comments »

# ????????G20????????

?? ? · Monday, July 31st, 2023

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

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??G20????????????  
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**some**  
**members??**??  
**others??**??

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1.5°C COP  
???

G7

2050  
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???

G7 G20

???



2030  
???

???

3 G20 G7 2030  
150GW 1TW

COP27  
???

G20 12 COP28

UAE

- ? 2030
- ? 2030
- ? 2030
- ? ?

G20

G20 1.5°C  
by or around mid century G20

1.5

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







AR6?COP26????????????????????1.5????????????????IPCC????????????2014????5????  
?AR5????2021????????1.5??

????????????????????????????2????1.5????????????????????2????????????????????  
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0????1.5????????????????????????

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??1.5????????????????????????  
????????????2????1.5????????????????

????1.5??1.5????2????67????  
????????????????????????????IPCC????????????????????????????????  
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SPM????????GHG????????????????????

????1.5????????2019????????????500????CO<sub>2</sub>e????????2????????1150????  
????<sup>21</sup>?

????2020????????50????GHG????????1.5????????10????23????7????  
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????????????????IPCC????????1.5????2????????????0.5????????  
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??AR 6-  
SPM?TableSPM.1????2????????????????GHG????2050??2019??64????2030??  
21????????2070????????Table

SPM.1?1.5????????2030?43??2050?84????????<sup>22</sup>?

????????1.5????????1.5????????????50????1.5  
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??AR6????1.5????????1.7?1.8????????1.5????  
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AR6????????????????????1.5????????

????1.5????????????

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AR6-SPM?C.2.4

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AR6-SPM?C.2.4  
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1.5 AR6-SPM?P26



1.5  
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IPCC AR6  
1.5  
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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  
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IPCC

AR6  
2  
1.5

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????????????????????????????????????



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?1.5??2????  
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AR6??1.5????????????  
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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.”

Posted in ???, ????? | No Comments »

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?? ? · Saturday, July 29th, 2023





Posted in ???, ????? | No Comments »

# ?????CO2????????????????????

?? ?? · Thursday, July 27th, 2023



JaCZhou/iStock

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

????????????????????CO2??CO2????????????????????IEA?IPCC????????????????  
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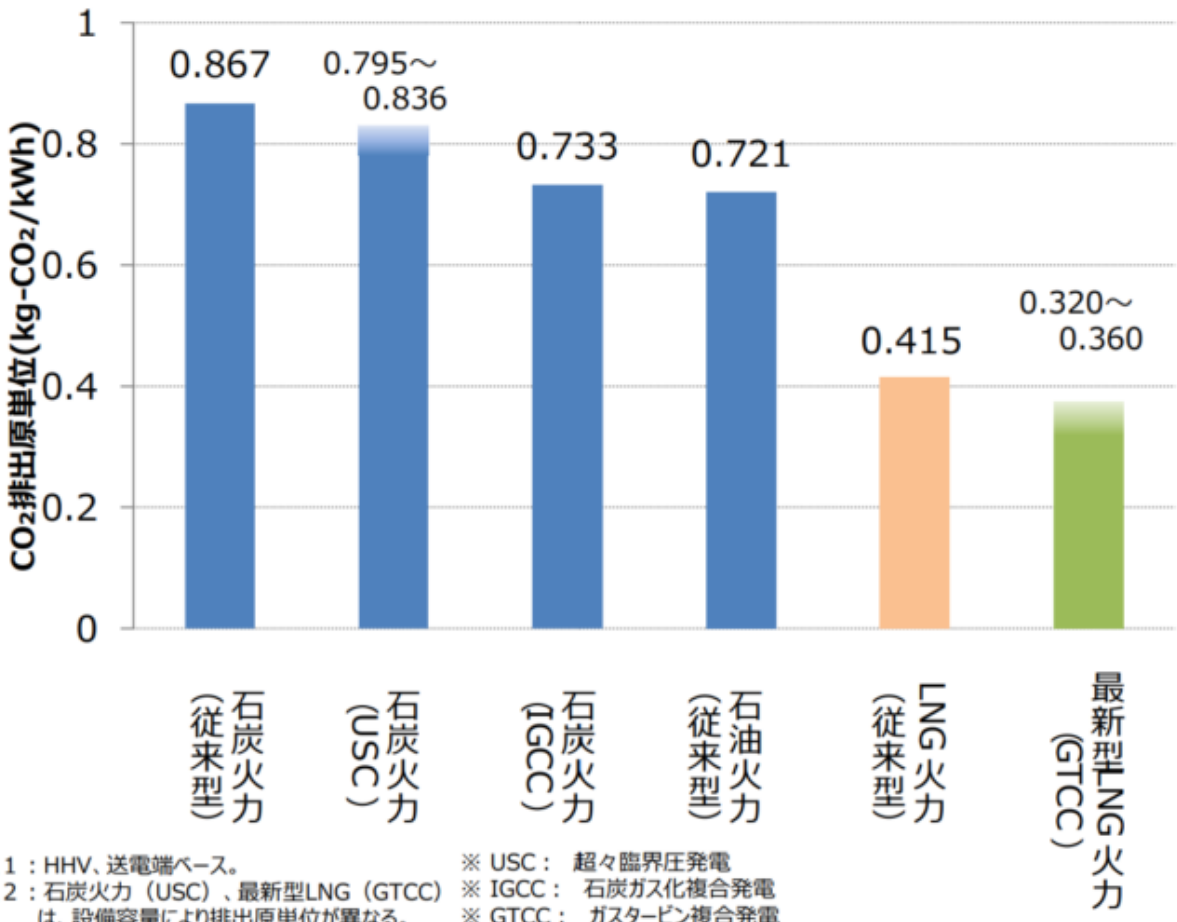
- ???CO2????????????
- ???CO2????????????????????????????????
- ???CO2????????????
- ???CO2????????????
- ???CO2????????????????????????????????

??CO2????????????????????kWh????245gCO2????????????????1?



CO2 9

1kWh 245 CO2 2022 LNG CO2 1kWh 320 360



3

CO2

CO2



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?? “???????”  
“??????????20??”

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??CO2??  
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Posted in ???, ????? | No Comments »

### ??????EV??????????????????

?? ?? · Friday, July 21st, 2023

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EV??



jetcityimage/iStock

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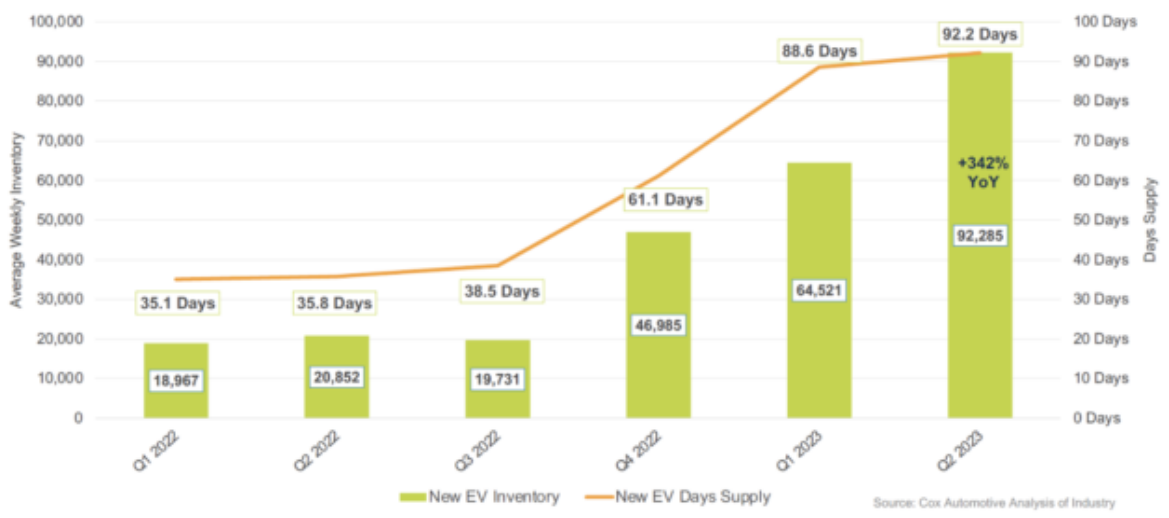
????????EV????

????????????????????ESG????????????????????????



# NEW EV INVENTORY & DAYS' SUPPLY ESTIMATES

EV inventory is having a "Field of Dreams" moment – and days' supply follows



COX AUTOMOTIVE

## EV????????????????

????????2050????????????????????????????????EV????????????????????????????????  
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??12????????????????????????????????EV????????????????????????????????

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

## ????????????????????

?? ? · Thursday, July 20th, 2023

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1??100????0.72??1979????????????????1.4  
????IPCC????????????3?5????????????????????????

2????CO2?????????2ppm?????????4????40????????????????CO2????????IPCC????????  
????????CO2????????????CO2????????????????????????

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????CO2?????????5????????CO2?5?????2ppm?????5????0.1ppm????????  
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????????????CO2????????????????????2009????????2021????????  
????2022????????????CO2????????????????

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3????CO2????????????????????????????????CO2????  
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Posted in ???, ????? | No Comments »

### ????????????????????????????????

?? ?? · Wednesday, July 19th, 2023



Max Lirnyk/iStock

??  
Electric Vehicles for Everyone? The Impossible Dream??

????????????????????BEV??ICE??BEV????????  
????????????ICE????????????HEV??

EV??I  
CE????EV????????????????????????????????



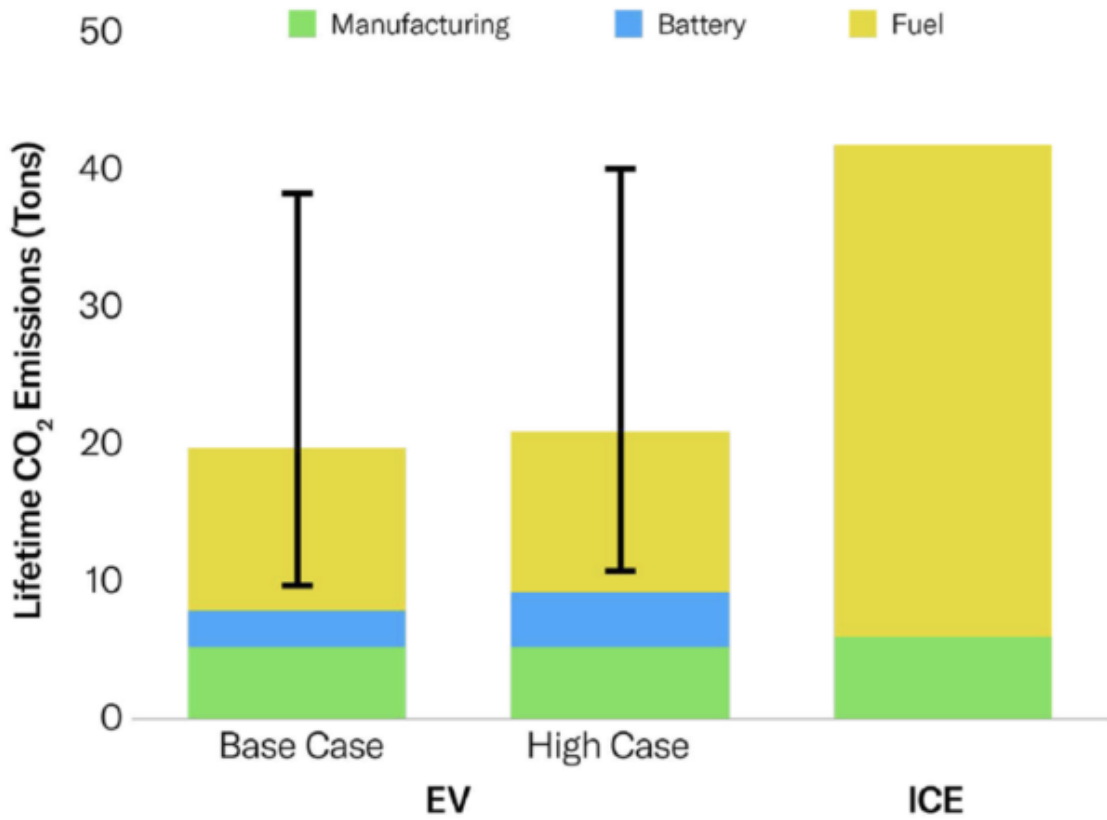
?????2??????CO2????????EV????CO2????????????????????

??1?CO2

??BEV????ICE????????????CO2????????????????

Figure 3

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



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

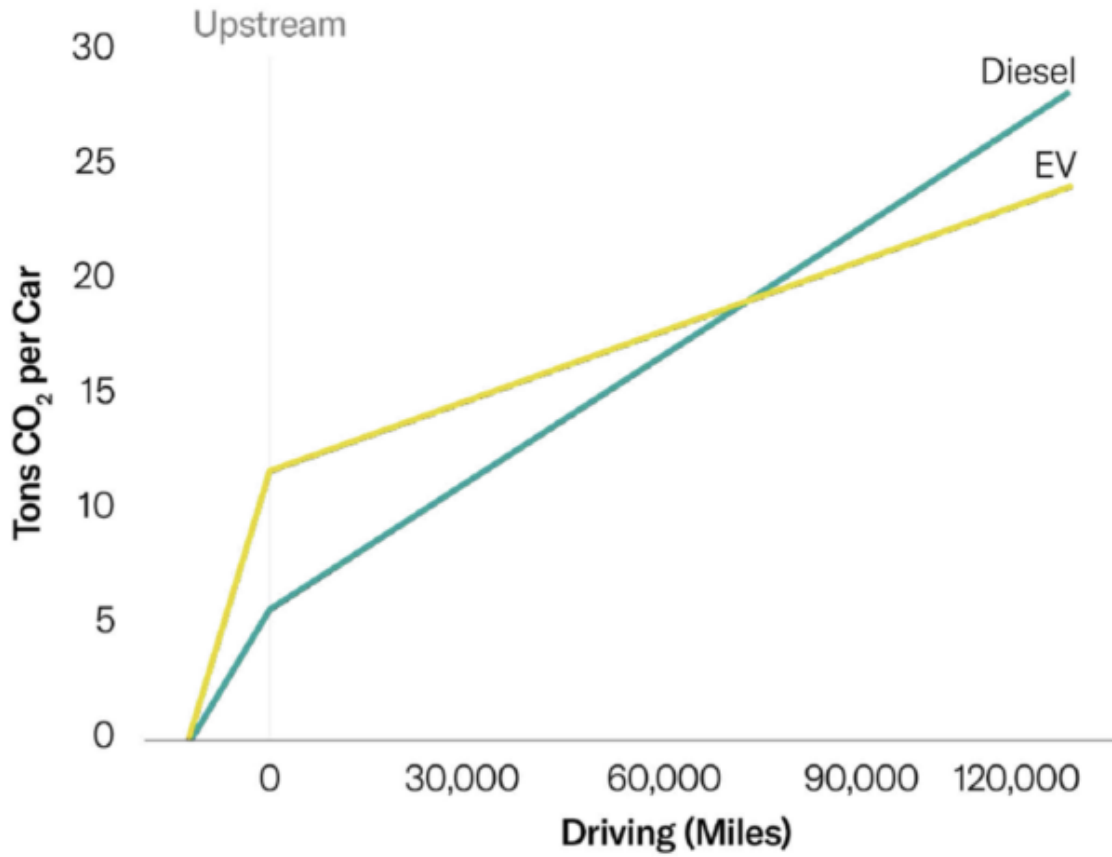
??

????IEA??  
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????????ICE?EV????????CO2????????????6????????????????????EV????CO2????????????????  
??EV????????????

Figure 4

Life-Cycle Emissions: Volkswagen EV vs. Diesel



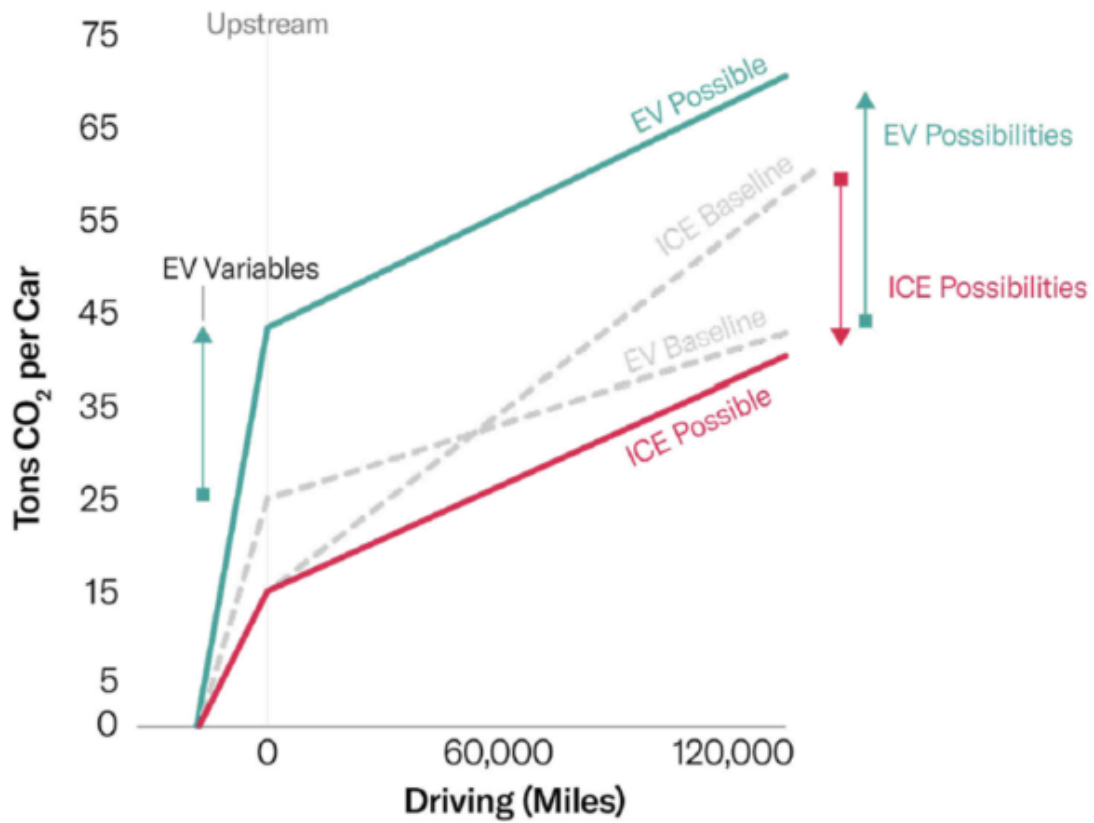
Source: Maciej Neugebauer, Adam Żebrowski, and Ogulcan Esmer, "Cumulative Emissions of CO<sub>2</sub> for Electric and Combustion Cars: A Case Study on Specific Models," *Energies*, Apr. 6, 2022

????????????????EV????????????????EV????CO2????????????????????????????????ICE????????????  
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????????????????EV????????CO2????????????ICE????????????????????????????????????12????????  
?EV???ICE???CO2????????????????????????????????

Figure 6

EV vs. ICE CO<sub>2</sub> Emissions: Scenarios with Known Unknowns



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

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CO<sub>2</sub>?????????1????????????????? EV??ICE????????????????????????????????????

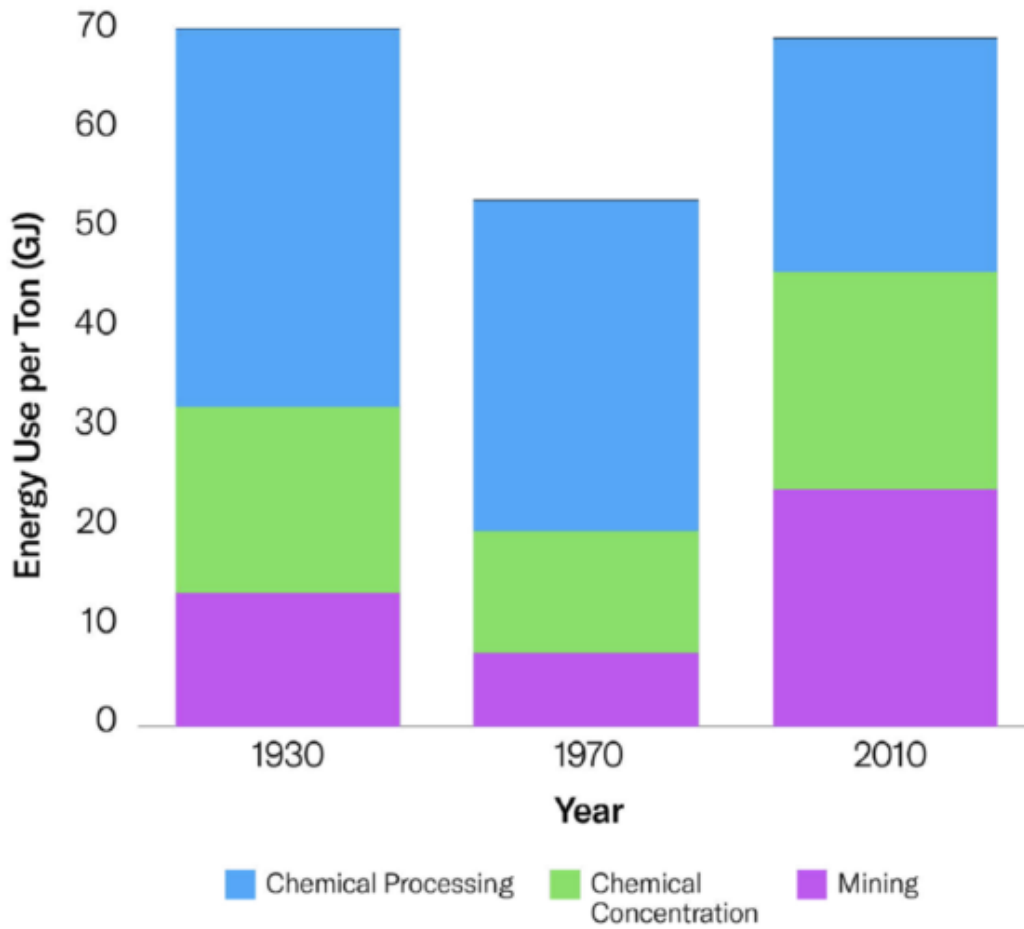
??1?????????????????????EV??

?????????????????????????1??2?????????????????0.5??  
 ??????????????????????



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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?????EV???EV????????????????????ICE??EV??  
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ICE??  
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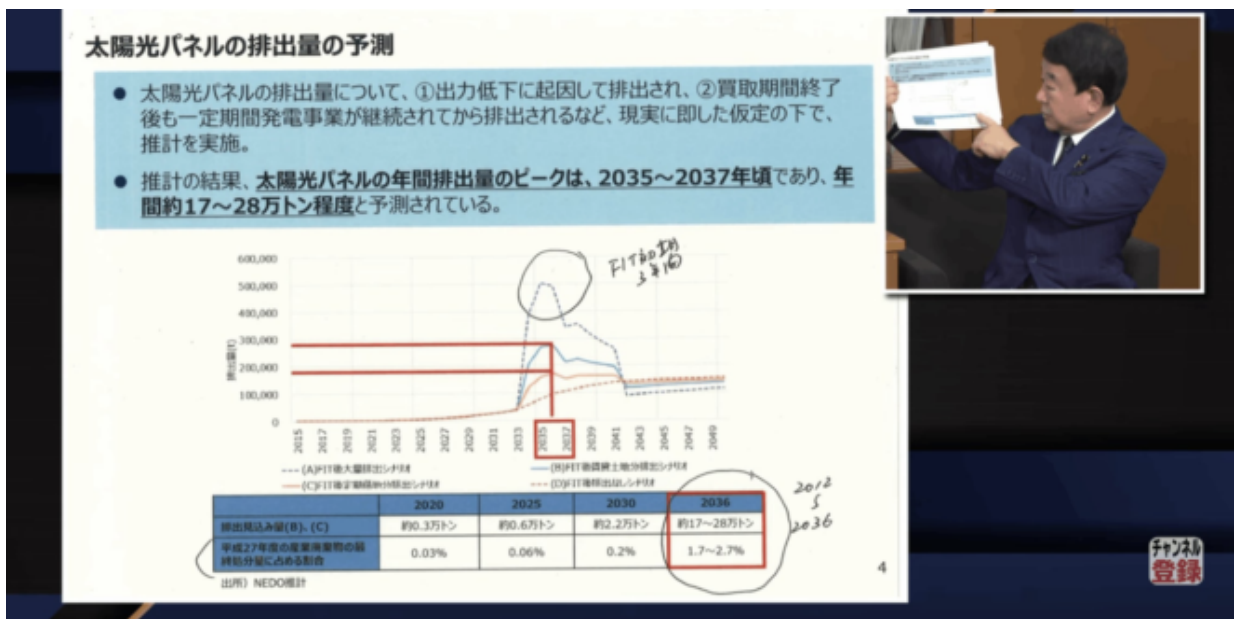
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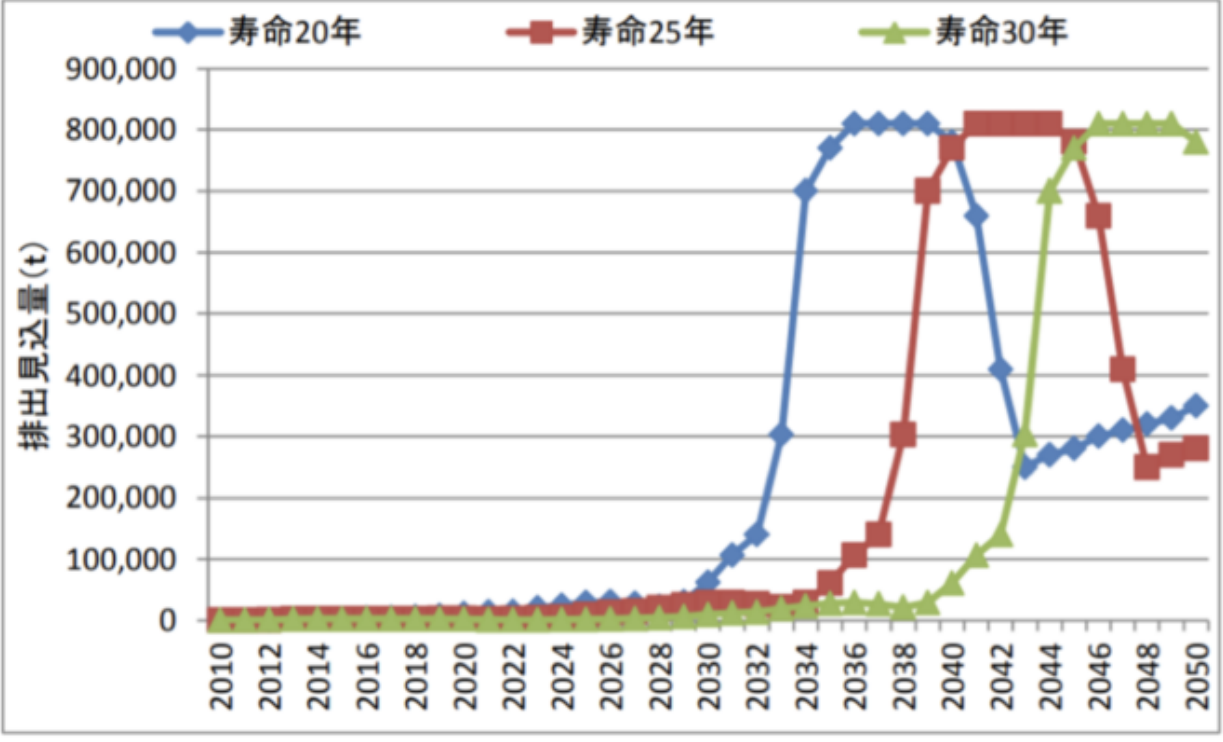
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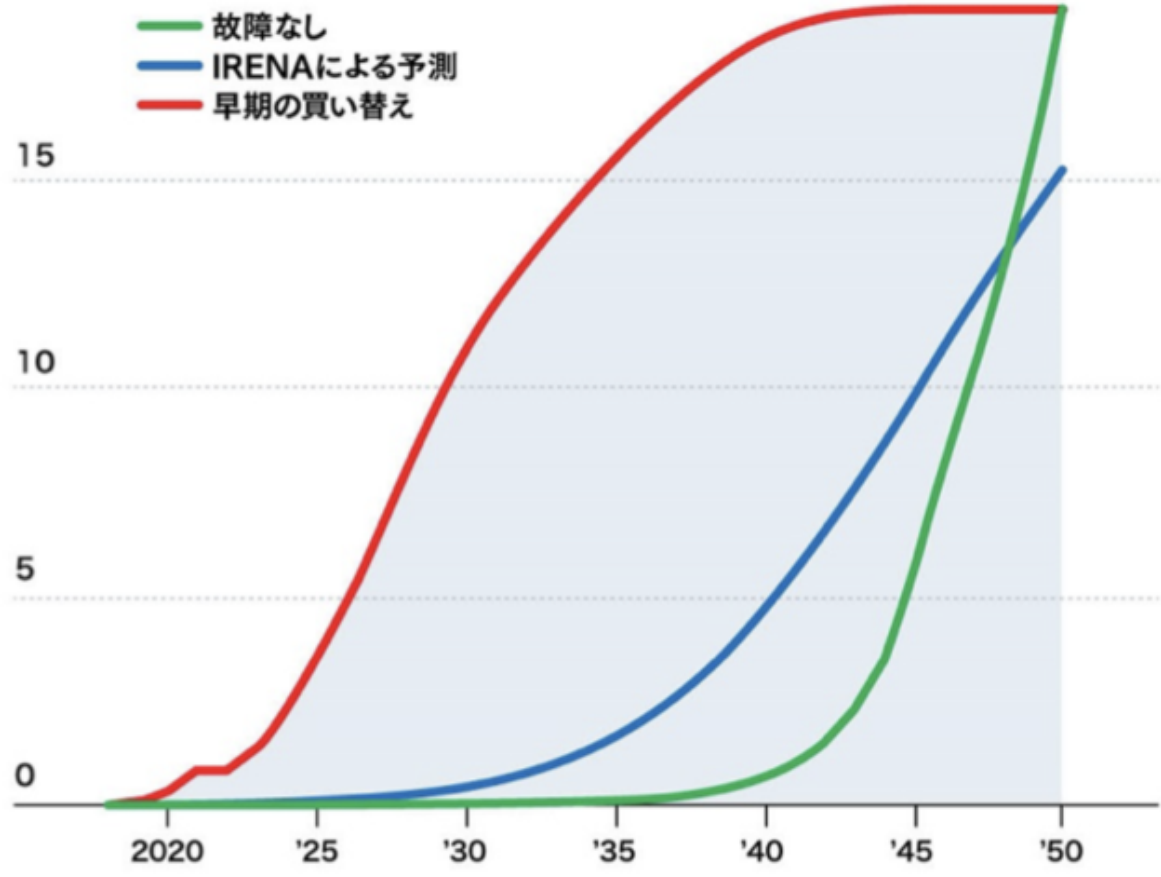
????????????2035????????2????????????3??





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廃棄物の累計  
(発電容量ベース)  
20ギガワット



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PCB??Poly Chlorinated Biphenyl????????????????????  
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PCB????????????????????????????????1972??47????????????????30????  
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1972??PCB????????????????????????PCB????????????????????2001??PCB????  
2004????????????????????JESCO????????????????????????????????30????  
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PCB????????2016????????????????JESCO????????????????????????PCB????  
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1?LCA?????????2?CFP?????????

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4/24??

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?SDGs????????

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

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?? ?? · Tuesday, July 4th, 2023





xijian/iStock

??IEA????????????Net Zero Scenario, NZE????????????

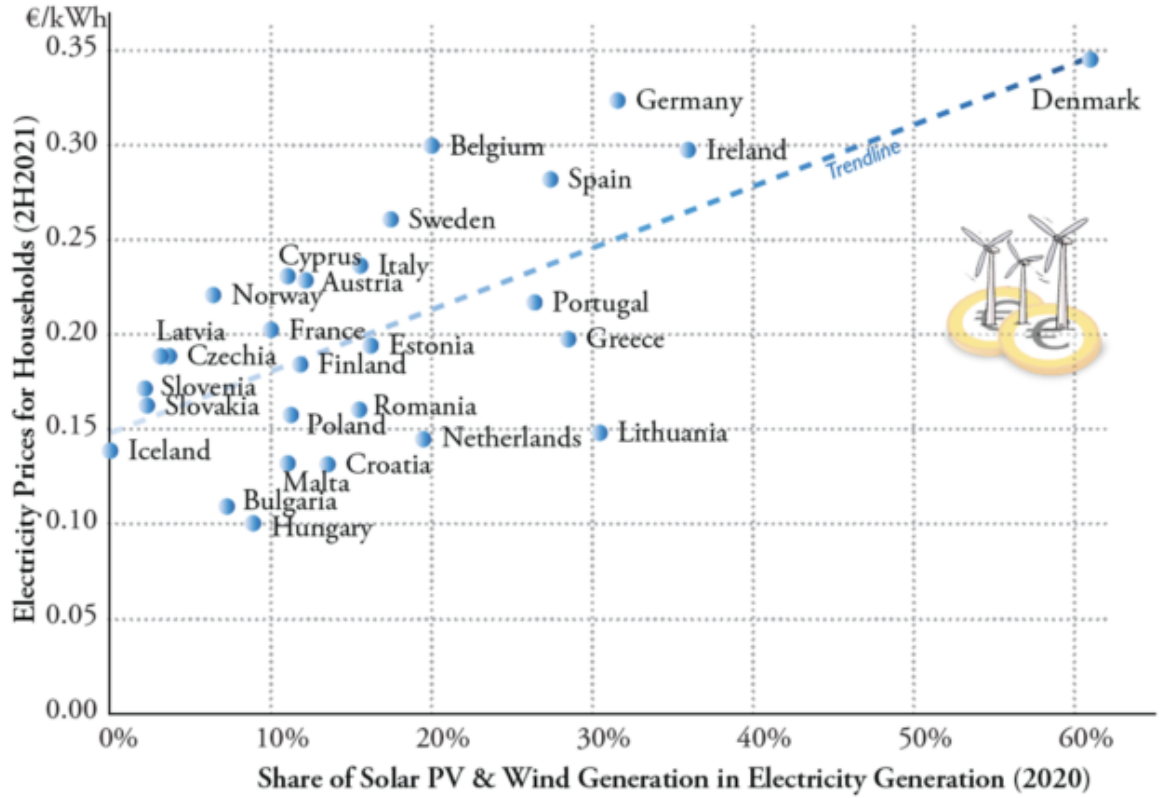
**A Critical Assessment of the IEA’s Net Zero Scenario, ESG, and the Cessation of Investment in New Oil and Gas Fields.**

??PV??  
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??PV??PV????????????????????????????????  
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Figure 46: Solar and Wind Penetration and Electricity Prices in Europe

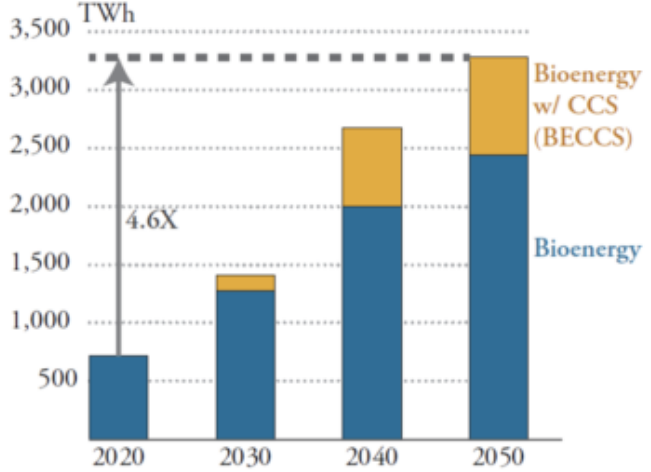


Source: Energy Policy Research, Eurostat, IEA

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IEA?NZE??2050??  
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Figure 23. Bioenergy for Electricity Generation in NZE



Source: IEA, Net Zero by 2050 (2021)

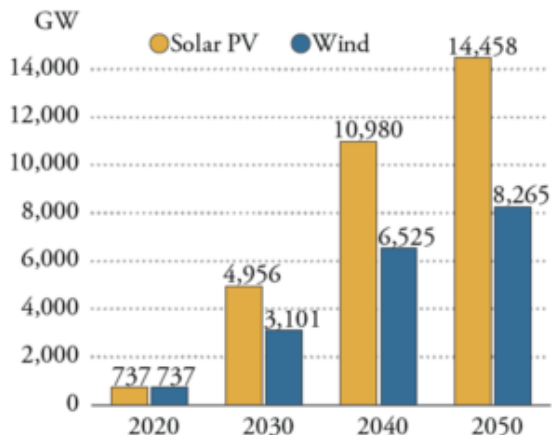
Figure 24. Global Land Requirements for Bioenergy for Electricity Generation in NZE



Source: Energy Policy Research. Land requirement calculations made using FreeingEnergy.

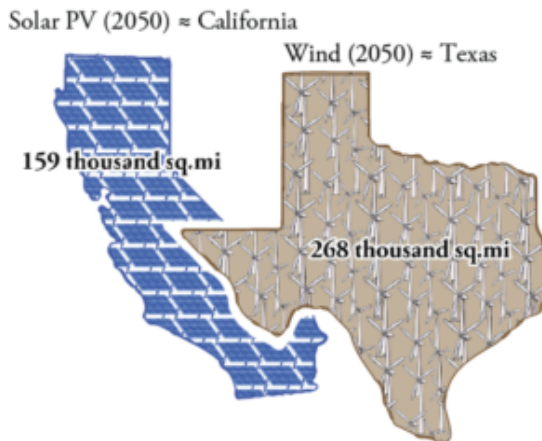
Batt Odgerel, Lucian Pugliaresi, Michael Lynch 38

Figure 25. Global Solar and Wind Capacity in NZE



Source: IEA, *Net Zero by 2050* (2021)

Figure 26. Global Land Requirements for Solar/ Wind Farms in NZE



Source: Energy Policy Research based on NZE  
Assumes sufficient/optimal grid infrastructure (transmission, storage) and current rate of efficiency

	万 km <sup>2</sup>	日本=1
メキシコ	197	5.2
フランス	55	1.5
カリフォルニア	42	1.1
テキサス	70	1.8
日本	38	1.0

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

# ????????COP28????????????????????

?? ? · Monday, July 3rd, 2023



CHUYN/iStock

????????G7????????????????????



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- 2025?????GHG?????2050?????10?????  
?????IPCC?????2030?43%?2035?60%?????
- 2030?NDC?????GHG?????LTS?1.5?????2050?????  
?????COP28?????2030?NDC?????2050?????

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?????G20?????1?30?12?12?COP28?????G7?????  
?????6?5?15?????

?????EU?????LMDC?????

?????LMDC?????

2030?45?????10?????  
COP27?????LMDC?????

COP28?????GST?????GST?????  
2023?7?5?????COP28?GST?????

GST?????3?????

2021?11?????IPCC?6?????  
?????3?????

GST?????  
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GST?????IPCC?6?????  
?????1.5?????GST?2025?????

?????2024?????  
2020?????1000?????2030?????6?????  
?????GST?????2024?????

?????IPCC?6?????IPCC?????2025?????2030?43?2035?6  
0?????2019?????GST?????

?????TWN?Third World Network?IPCC?????

- IPCC?6?????3?????2,425?????1,202?????  
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- ??????UNFCCC?????  
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