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????????NUMO????????????Chief Future Officer?CFO????????

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

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?? ? · Sunday, October 1st, 2023

??COP26????????????????????????????????????2????????????????1.5????????????1.5????????????2050??????
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Posted in ??????????, ??, ?? | [No Comments »](#)

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?? ?? · Friday, September 29th, 2023

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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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Posted in ???, ????? | No Comments »

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?? ?? · Tuesday, September 26th, 2023



nitinan chumdavong/iStock

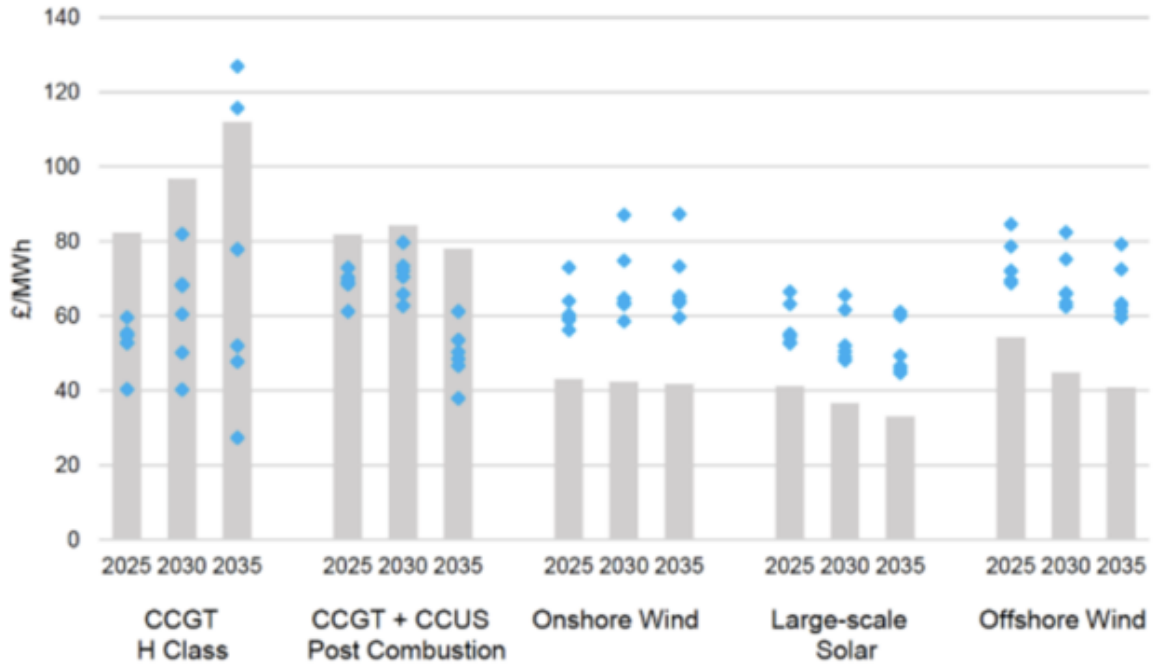
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2021?8??2030????????????????????????????????????LCOE?Levelize
d cost of electricity??

??2030??????????1kWh??8.2?
11.8????????????????LNG????????????CO2????????????????????????2030??????26.1????????????????
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電源	石炭火力	LNG 火力	原子力	石油火力	陸上風力	洋上風力	太陽光 (事業)	太陽光 (住宅)
発電コスト (¥/kWh)	13.6～ 22.4	10.7～ 14.3	11.7～	24.9～ 27.6	9.8～ 17.2	25.9	8.2～ 11.8	8.7～ 14.9
設備利用率稼働年数	70% 40年	70% 40年	70% 40年	30% 40年	25.4% 25年	33.2% 25年	17.2% 25年	13.8% 25年

2030????????????????????



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 »

· Thursday, September 21st, 2023



Maks_Lab/iStock

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— ?????? (@atomic_journal) September 15, 2023

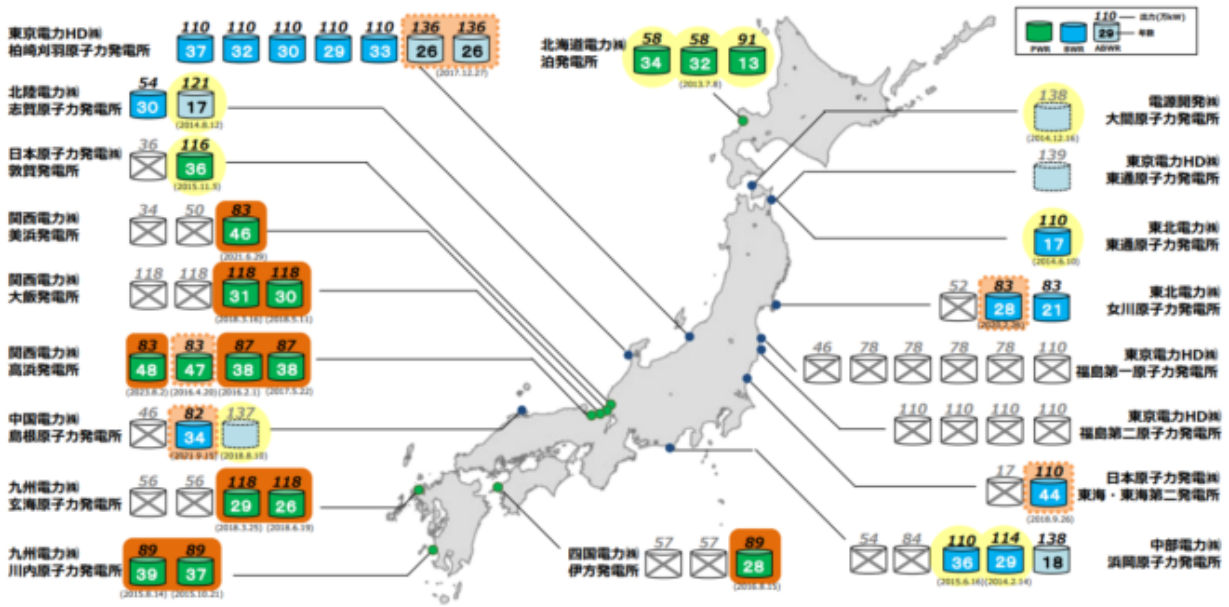
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??24????????????33????????????????????????????????????LNG??
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原子力発電所の現状

2023年8月29日時点



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

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?? ??? ?? · Tuesday, September 12th, 2023



Gwengoat/iStock

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80... SED... 83... SED... F
DJ... “...”...

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CSU CSU

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

?????G7?G20????????????1.5??????????

?? ? · Thursday, August 31st, 2023



photoschmidt/iStock

????????G20??28????????????????G20????????????????????????????
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????????????68????????????63?66????????????????G20??
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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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 ?2025????????????????2019???2035????60%????????
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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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Fig. 4?????????GCR?????????3?????????GCR?????????GCR?????????

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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

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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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??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????????

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

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?? ?? · Tuesday, August 22nd, 2023



Artur/iStock

??MIT??CO2?
"heavily
saturated"????????????????EPA??
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CO2????????

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? State Farm Test: ???

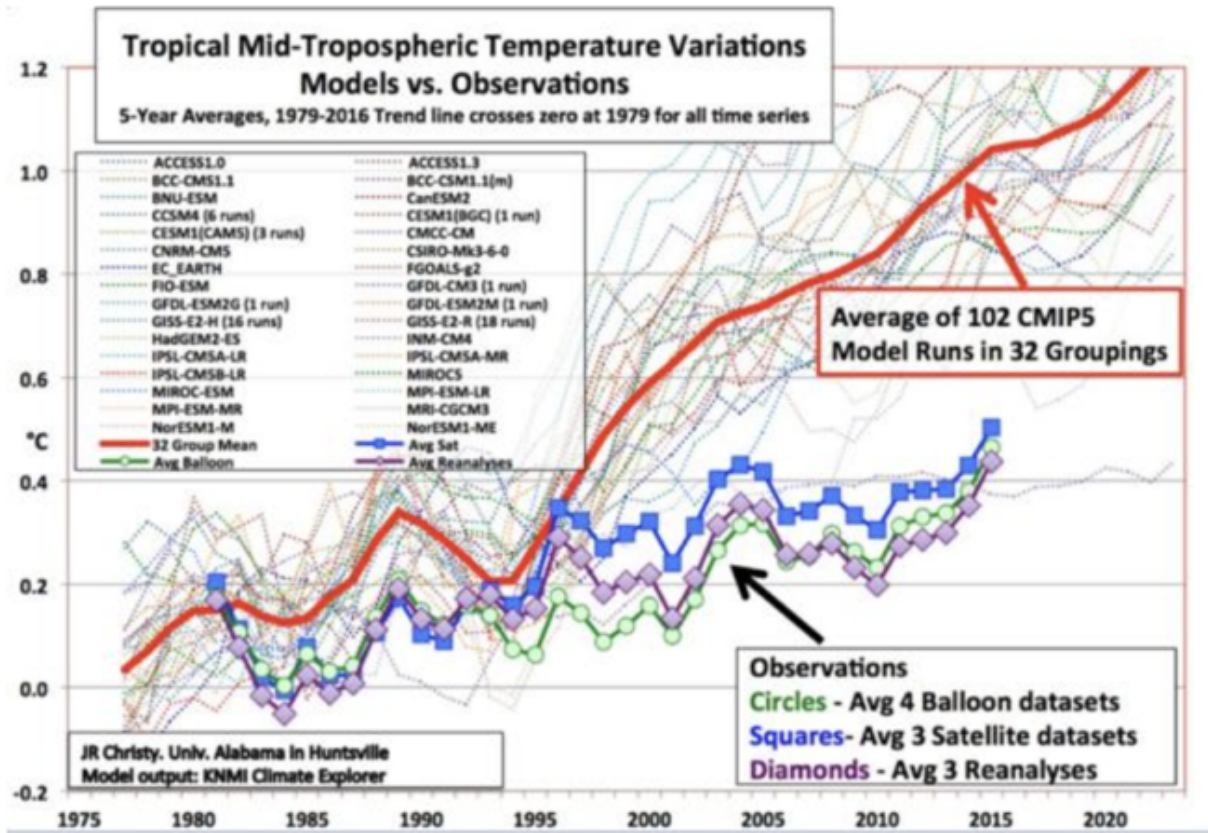
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The main conclusion of this part of the study is that even an order of magnitude increase of CO₂ in the atmosphere by human activities, which at the present rate of input is not expected within the next several thousand years, may not be sufficient 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

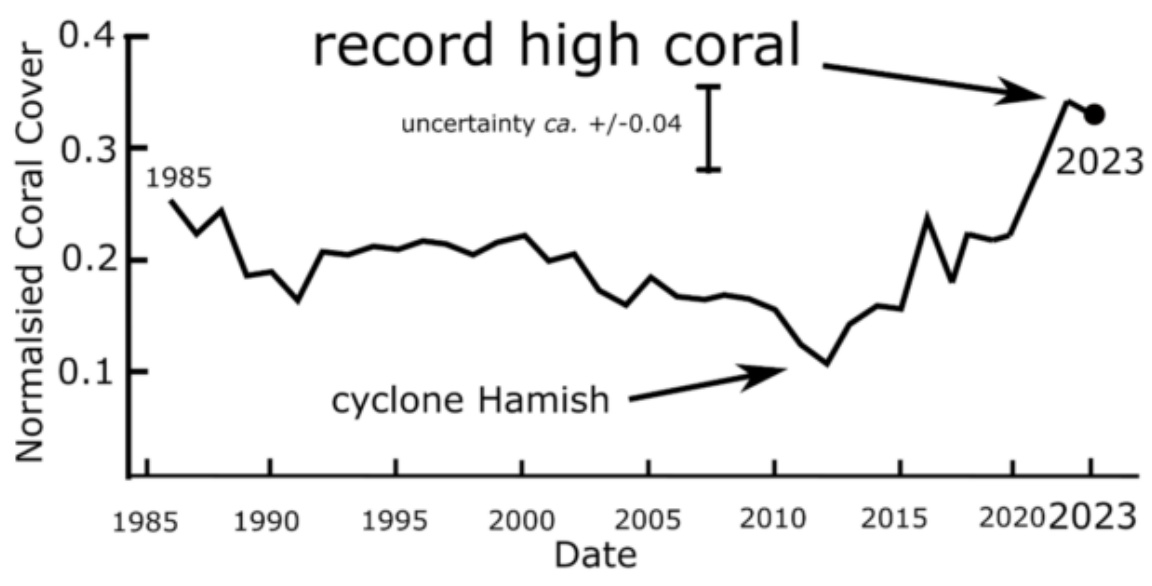
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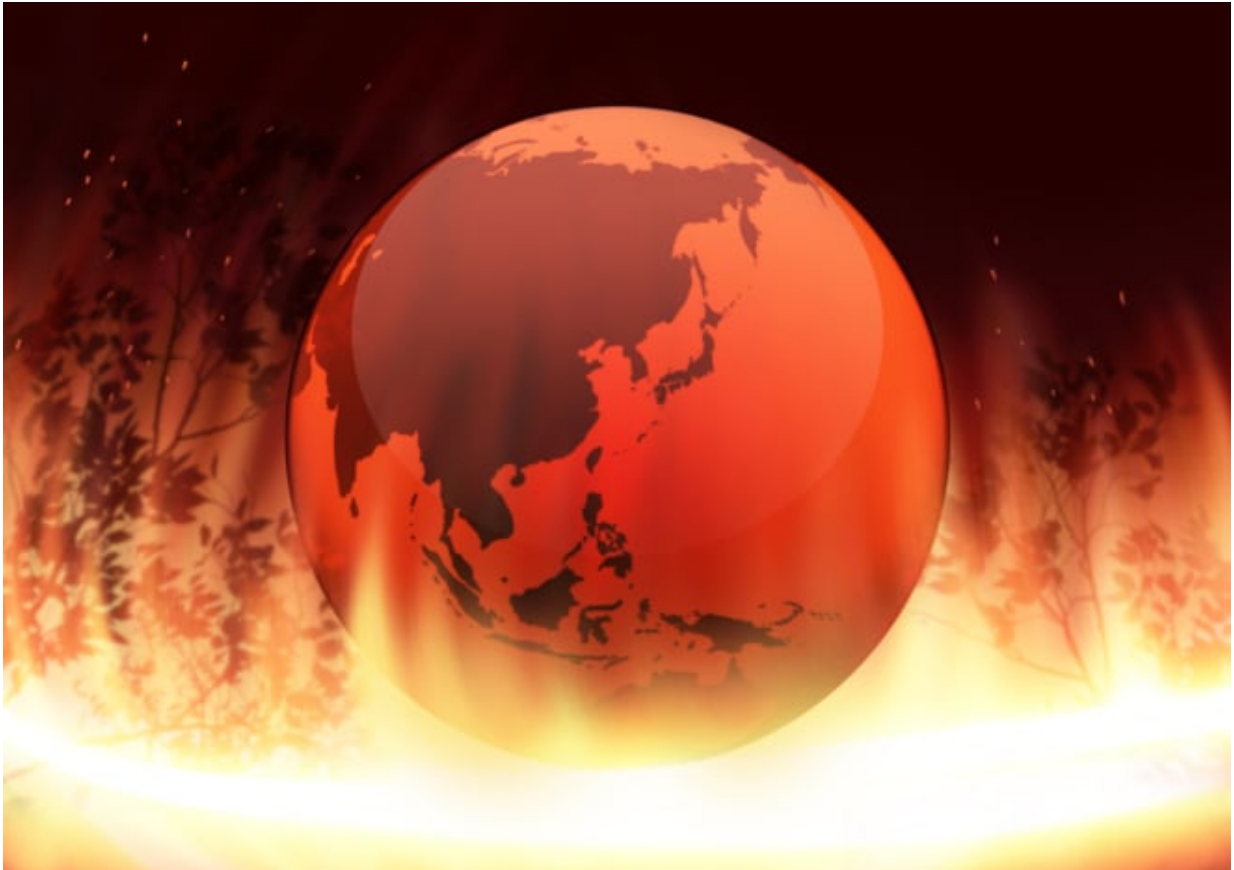
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Tr6/iStock

global warming global boiling

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2023 “”

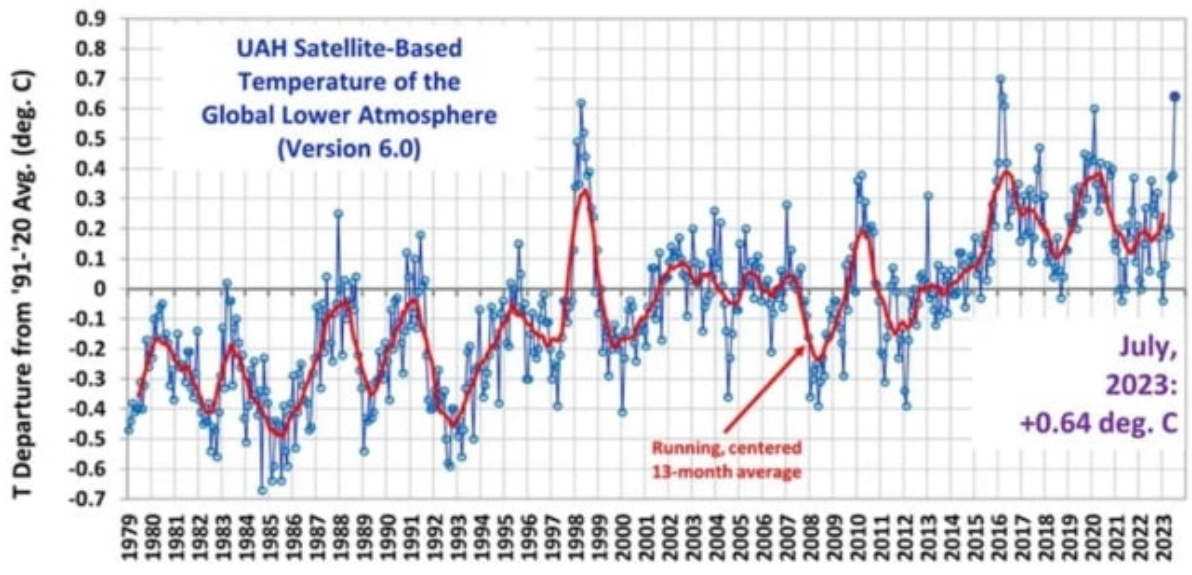
100 15 100

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Climate Etc.

9000 UAH



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Climate Etc.

2023

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CO2
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2009
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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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949-954??
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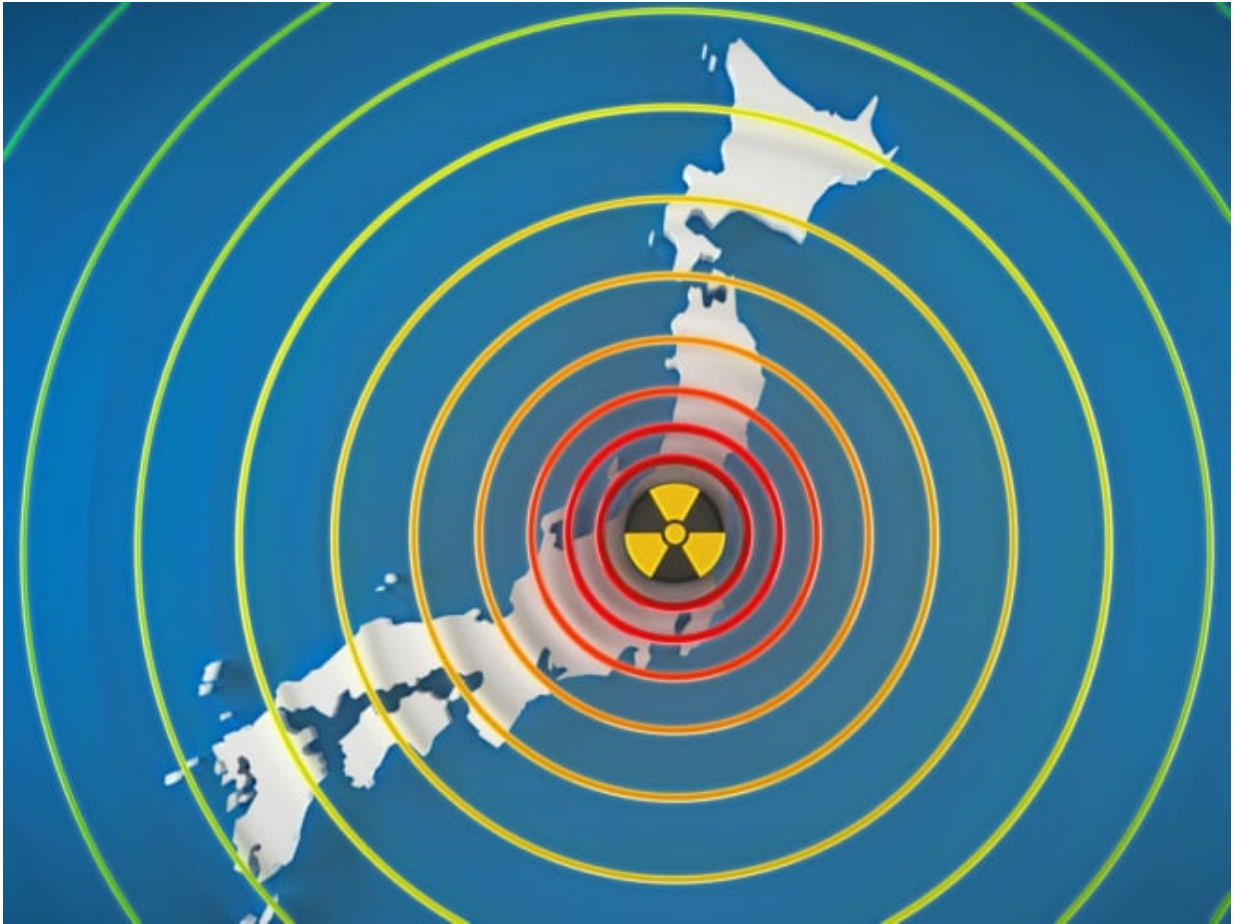
??3????????
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Posted in [??, ????????????](#) | [No Comments](#) »

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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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2011?3?25??

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©? japan.cnet.com

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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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others????

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1.5°C COP 2050

G7

2050

G7 G20

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2030

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150GW TW

COP27

G20 COP28

UAE

- 2030
2030
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G20

G20 1.5°C by or around mid century

1.5°C

Posted in ... | No Comments »

IPCC AR6 “Worst Case” Report

?? ?? · Sunday, July 30th, 2023

2023 IPCC report “worst case” scenario
Scenario: SSP5-8.5

Scenario: SSP5-8.5 IPCC 2023 AR6 report

1.5°C scenario requires 7 times more GHG abatement
than SSP5-8.5 scenario

2040 emissions in SSP5-8.5 scenario
are 50% higher than in SSP1-2.6

AR6 report highlights that SSP5-8.5 scenario
leads to a 5°C increase in global temperature
by 2100, compared to 2020 levels.

AR6-SPM report “Longer
Report” highlights that SSP5-8.5 scenario
leads to a 5°C increase in global temperature
by 2100, compared to 2020 levels.



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

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SPM????????GHG????????????????????

????1.5????????2019????????????500????CO₂e????????2????????1150????
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????2020????????50????GHG????????1.5????????10????23????7????
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????????????????IPCC????????1.5????2????????????0.5????????
????????650????????

??AR 6-
SPM?TableSPM.1????2????????????????GHG????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
26
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IPCC

AR6
2
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????????IPCC??

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????????????????????1.5????????????????????????????????1.7?1.8????????????????????
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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



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???

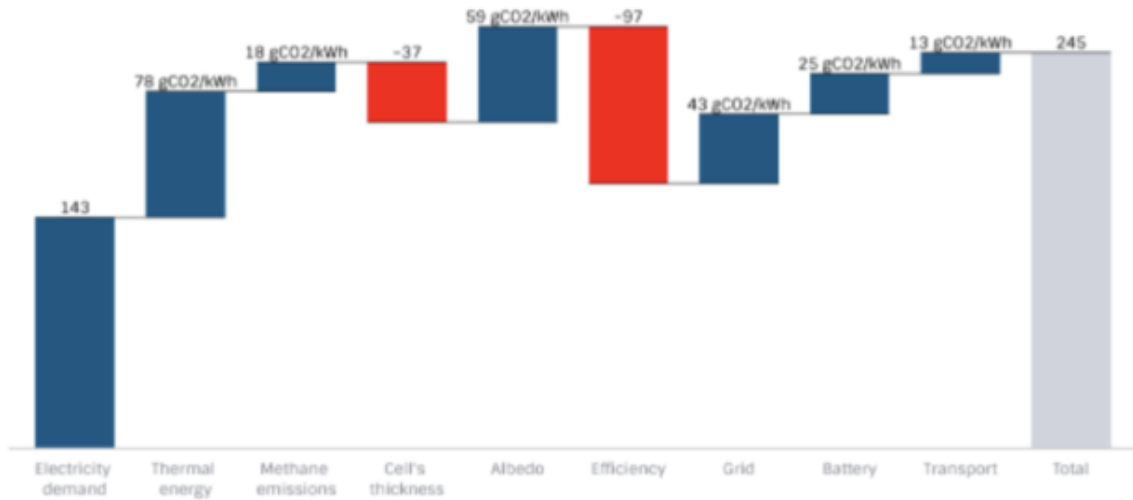
????????????????????CO2??CO2????????????????IEA?IPCC??????????????
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- ???CO2??????????????????????????????????
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??CO2????????????????kWh??245gCO2????????????1?

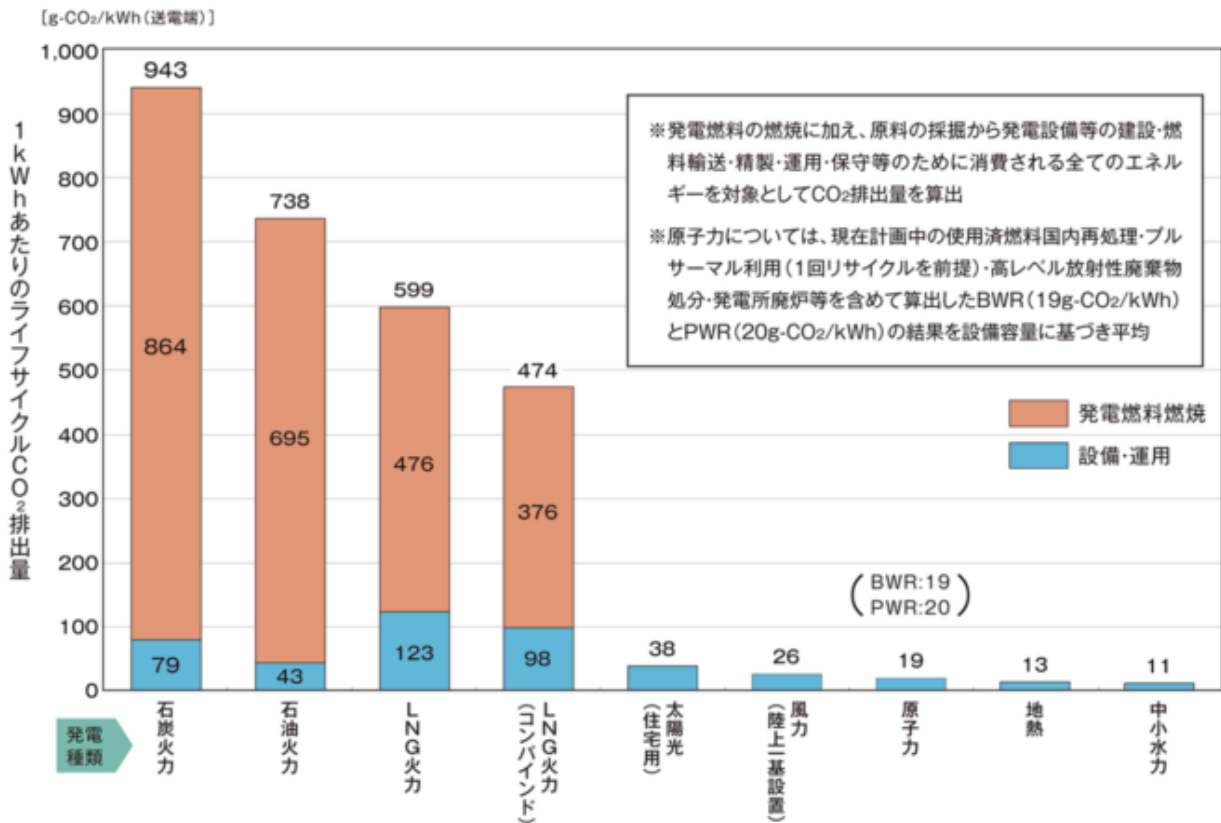
2022
Carbon intensity, Worst Scenario



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??CO2??CO2????????????
245????????

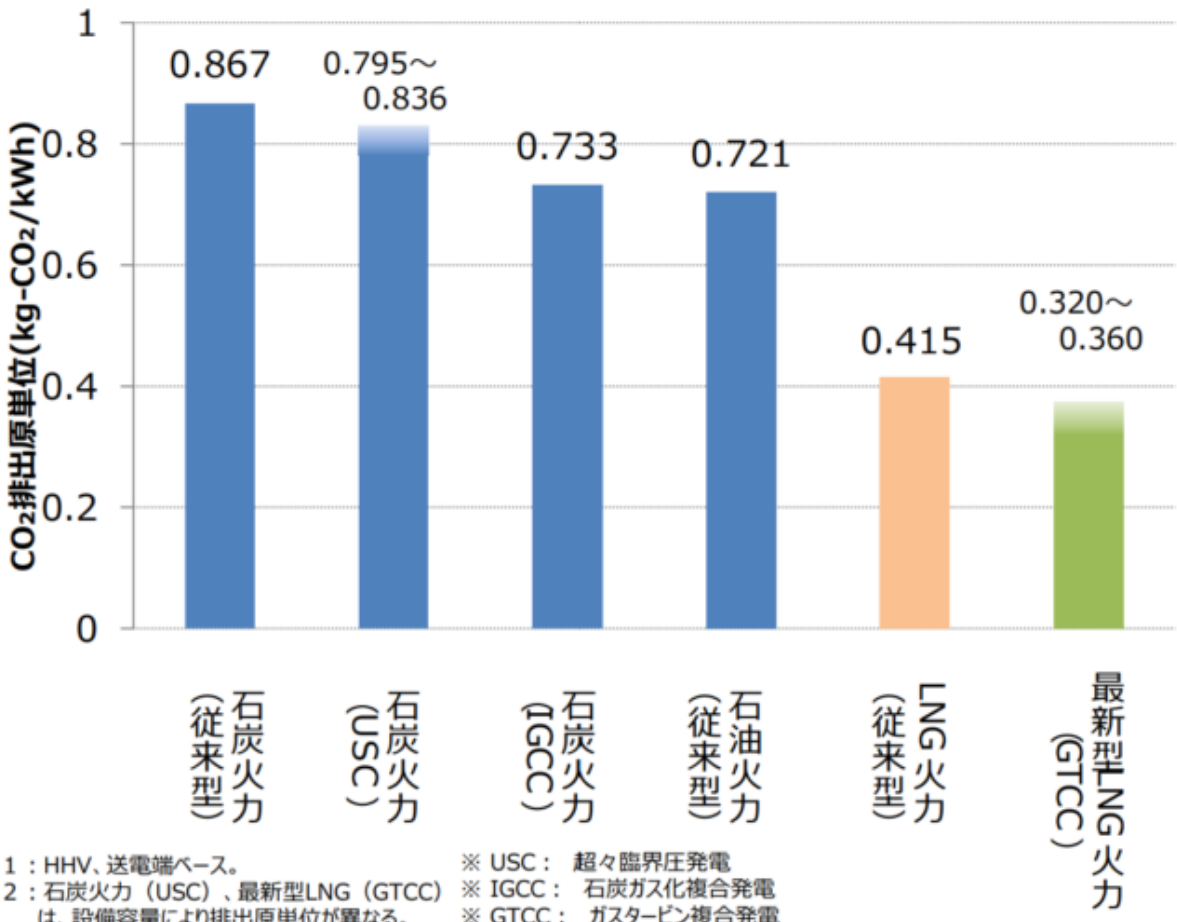
??1kWh??245??2016????????????????????????
?????kWh??38????????????2??????????



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CO2 9

1kWh 245 CO2 2022 LNG CO2 1kWh 320 360



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CO2

CO2

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“??????????20??”

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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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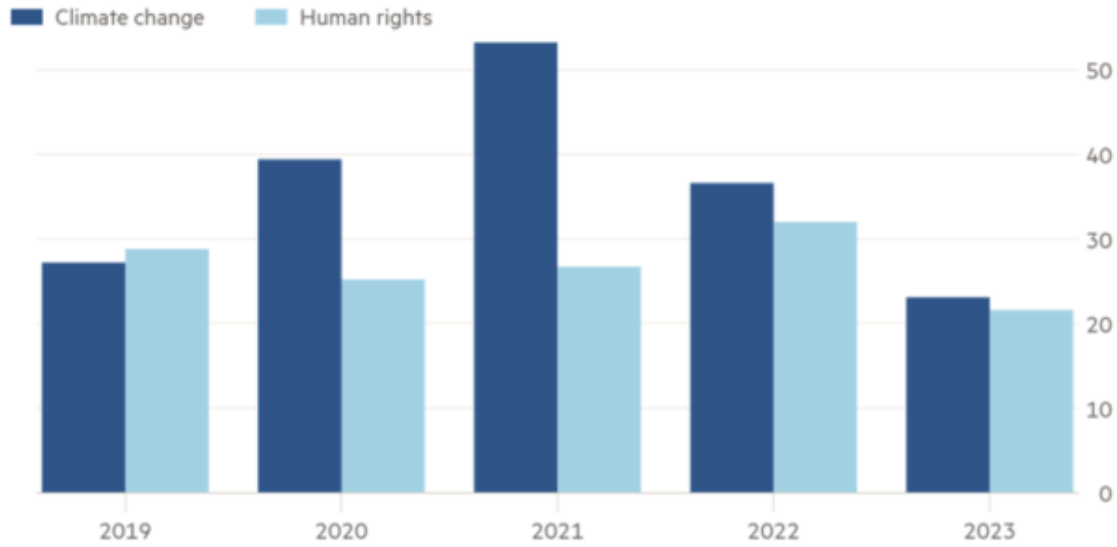
????????????4,000????????????????????????????3??
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?????????EV?????

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

Investor support drops for environmental, social issues at US companies

Average (%)



Source: Sustainable Investments Institute © FT

FINANCIAL TIMES??

?????EPA?????
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4?12??EPA?????2032?????
???67??EV?????50?????35?????25??EV?????

????EPA??67?????EV?????
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????EPA?????
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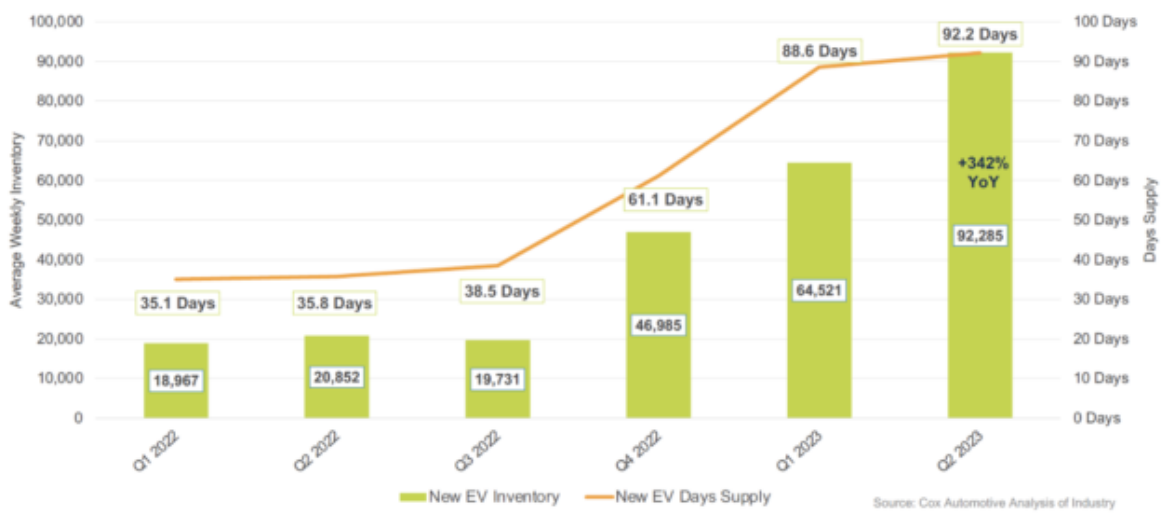
????EPA?????JD?????EV?????
??3?????21??EV?????1??17.8?????

??10??EV?????
?????EV?????

2023 Cox Automotive Mid-year Review?????2023??2?????
92,000?????2022??2?????342% ??????

NEW EV INVENTORY & DAYS' SUPPLY ESTIMATES

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



COX AUTOMOTIVE

Source: Cox Automotive Analysis of Industry

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

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

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

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?? ? · Thursday, July 20th, 2023

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????????????????G7????????????????????????????????????COP????????????????????????????????????
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NickS/iStock

??21?5????50??
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Nobel Physics Laureate 2022 Slams ‘Climate Emergency’ Narrative as “Dangerous Corruption of Science”

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??300????????????????????????????????????
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1??100????0.72??1979????????????????1.4
????IPCC????????????3?5????????????????????

2????CO2?????????2ppm?????????4????40????????????CO2????????IPCC????????
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????????????????CO2????200????????IPCC????????????????200
????CO2?????????5????CO2?5?????2ppm?????5????0.1ppm????????
????????????????????????????????2ppm????????

????????????CO2????????????????2009????????2021????????
????2022????????????CO2????????????????

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3????CO2????????????????????????????????CO2????????
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????CO2????????????

1????CO2????CO2????2????CO2????3????

3????1????CO2????

????1?2????3????

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

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Posted in ???, ????? | No Comments »

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

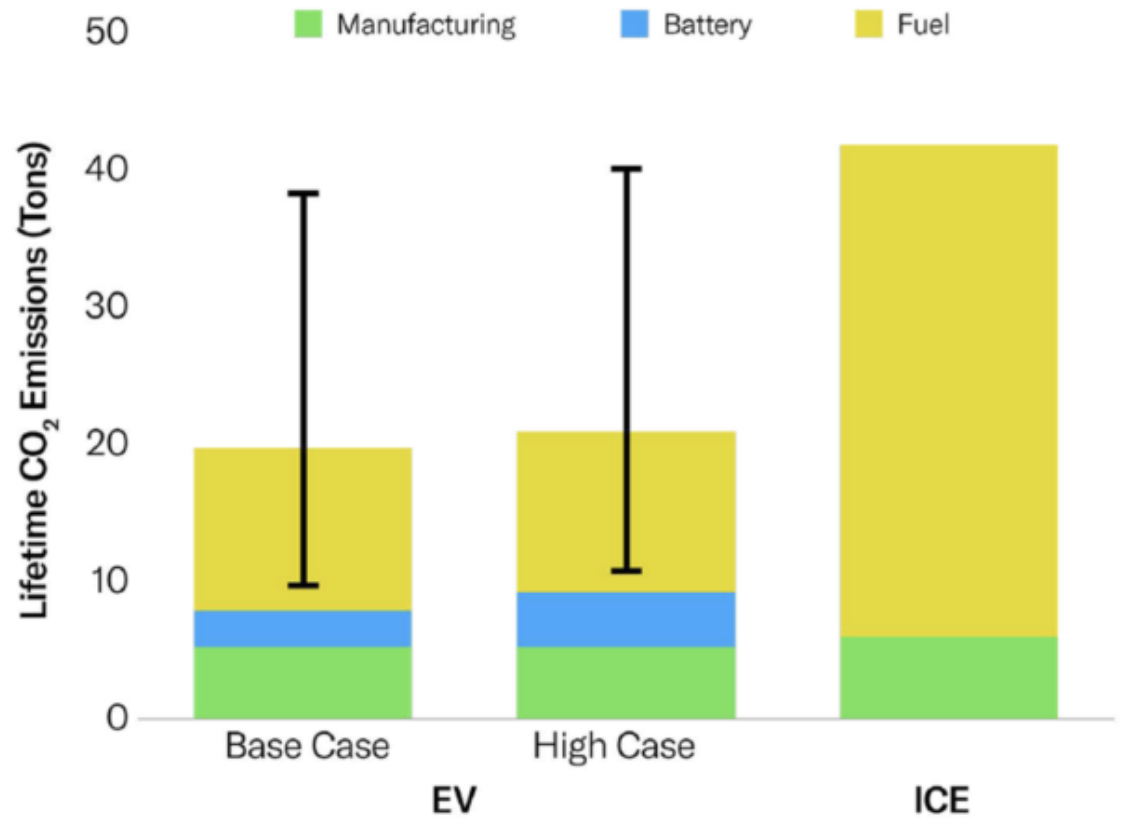
?????2??????CO2????????EV????CO2????????????????????

??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"

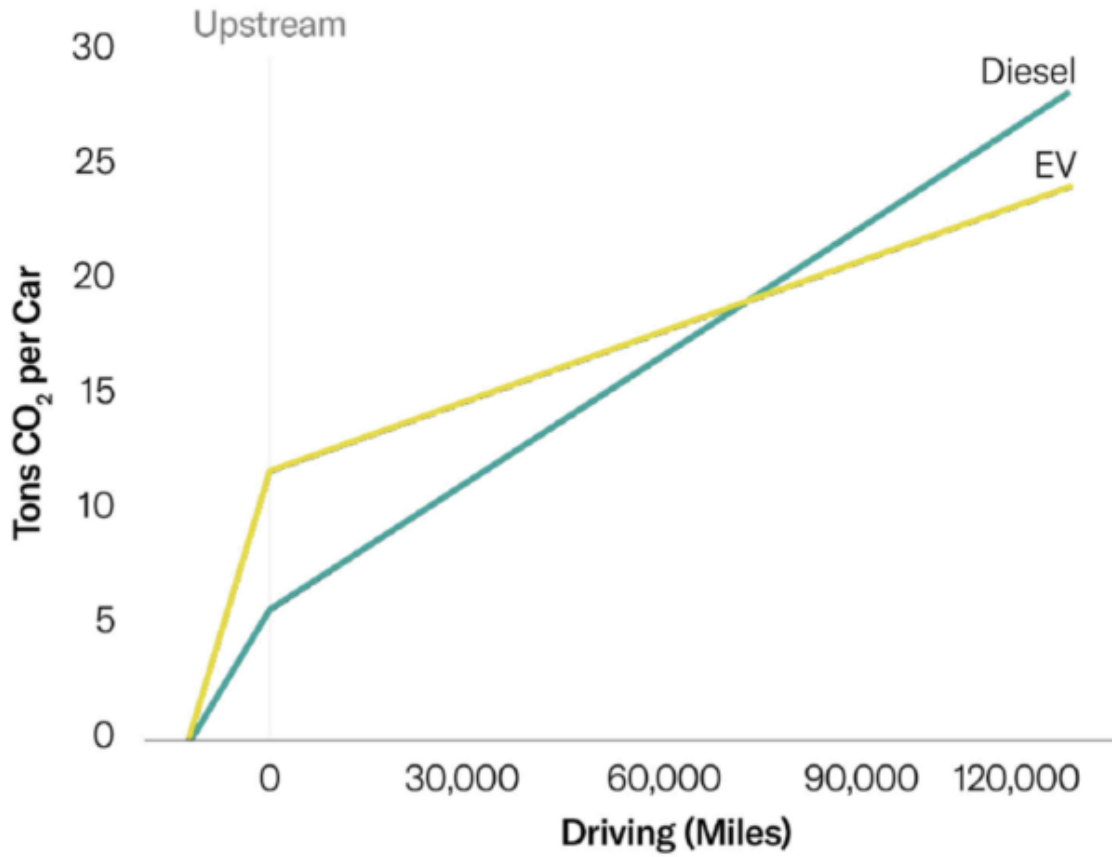
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????IEA??
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???EV????????????

Figure 4

Life-Cycle Emissions: Volkswagen EV vs. Diesel



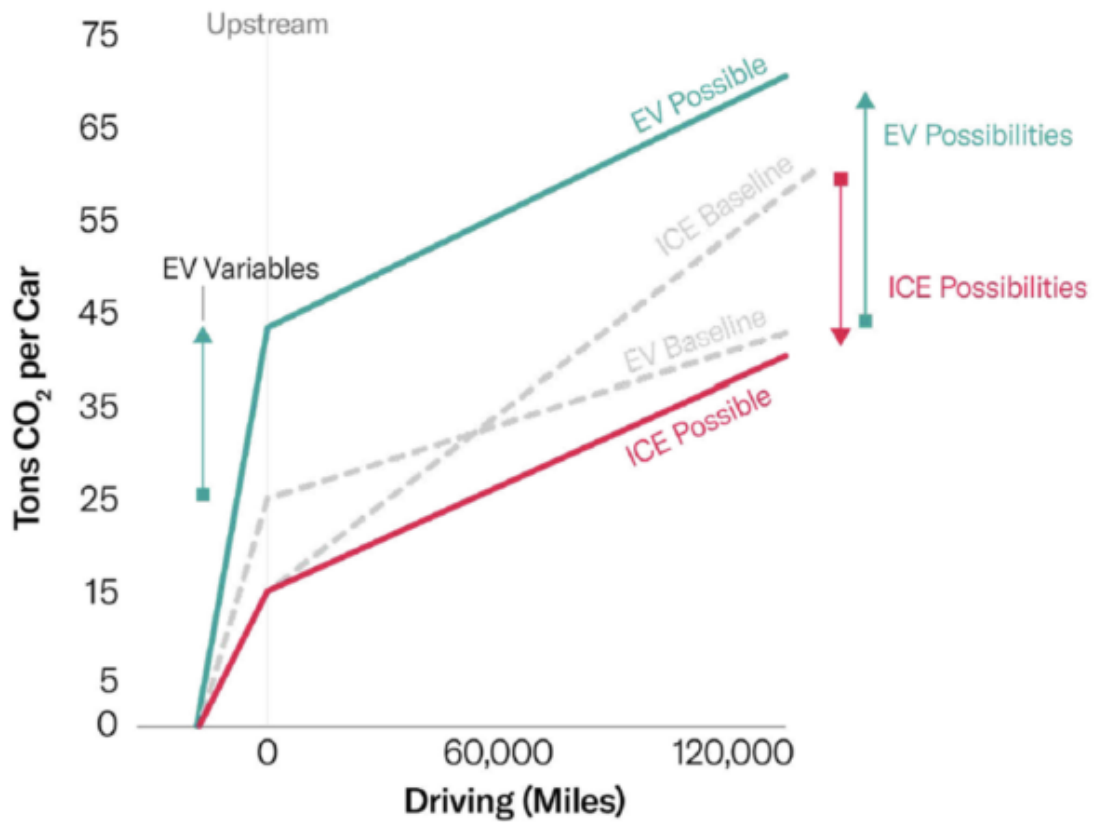
Source: Maciej Neugebauer, Adam Żebrowski, and Ogulcan Esmer, "Cumulative Emissions of CO₂ for Electric and Combustion Cars: A Case Study on Specific Models," *Energies*, Apr. 6, 2022

????????????????EV????????????????EV????CO2????????????????????????????????ICE????????????
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????????????????EV????????CO2????????????ICE????????????????????????????????????12????????
?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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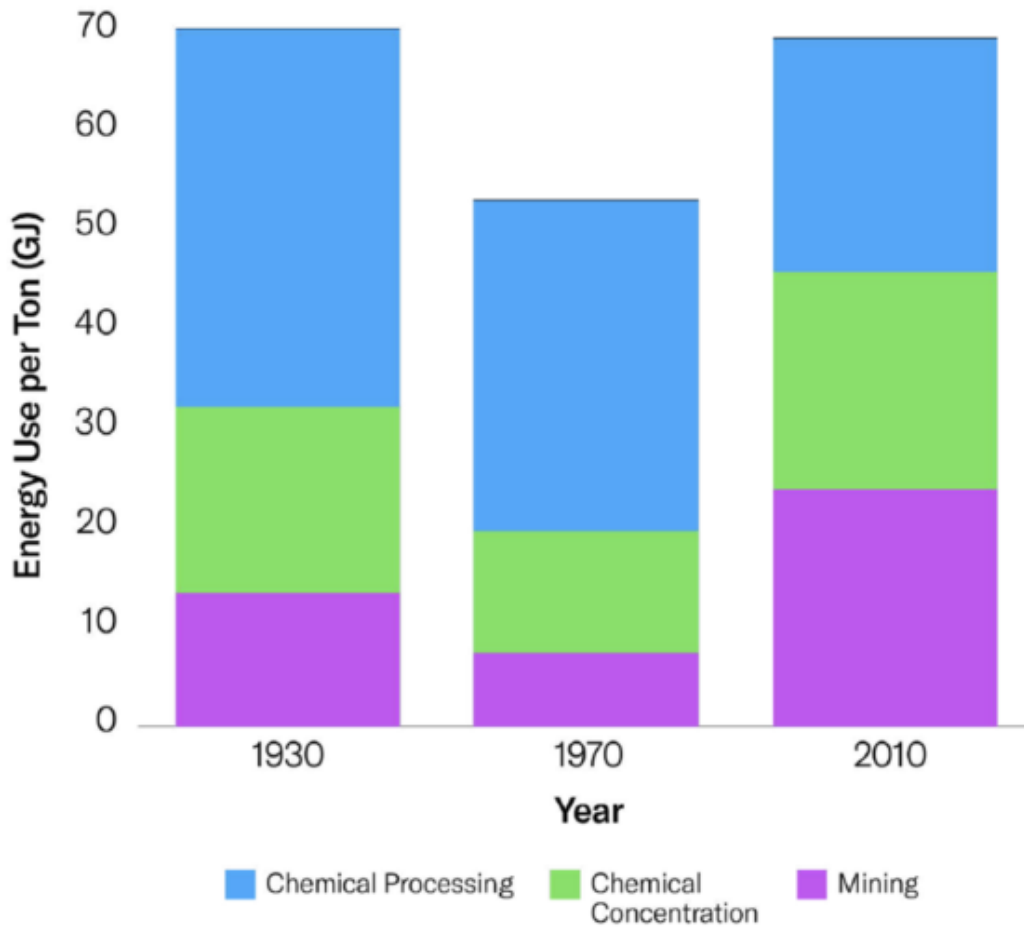
CO₂?????????1????????????????? EV??ICE????????????????????????????????????

??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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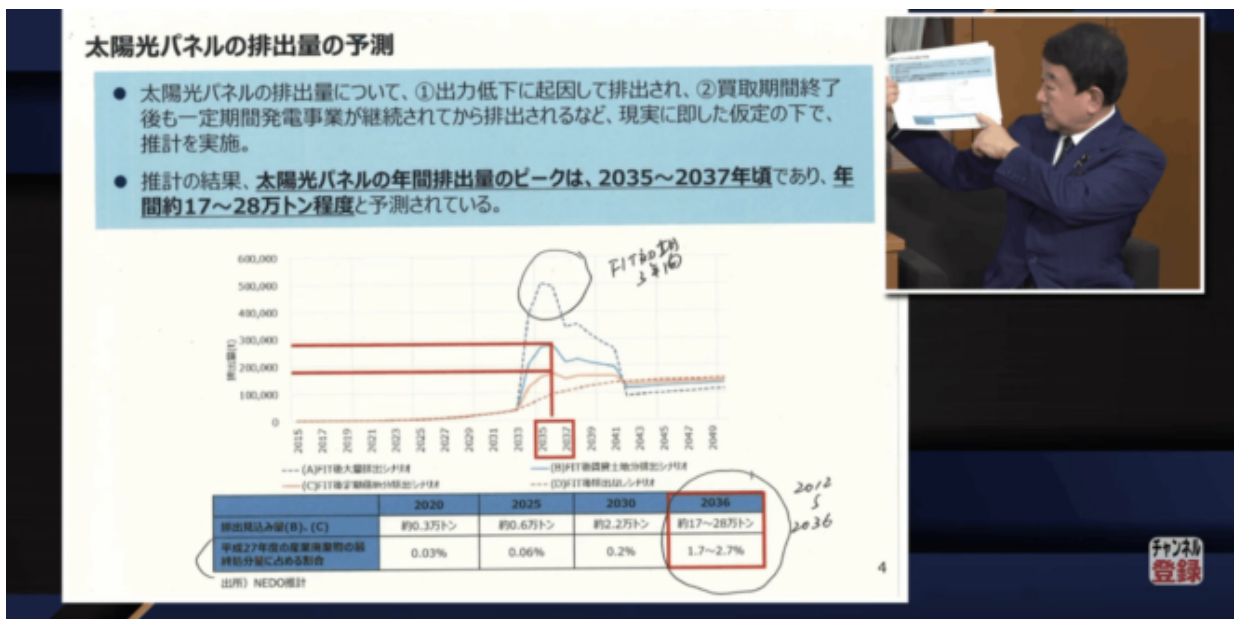
????????????????????????????????1????????????????????3????5????????????

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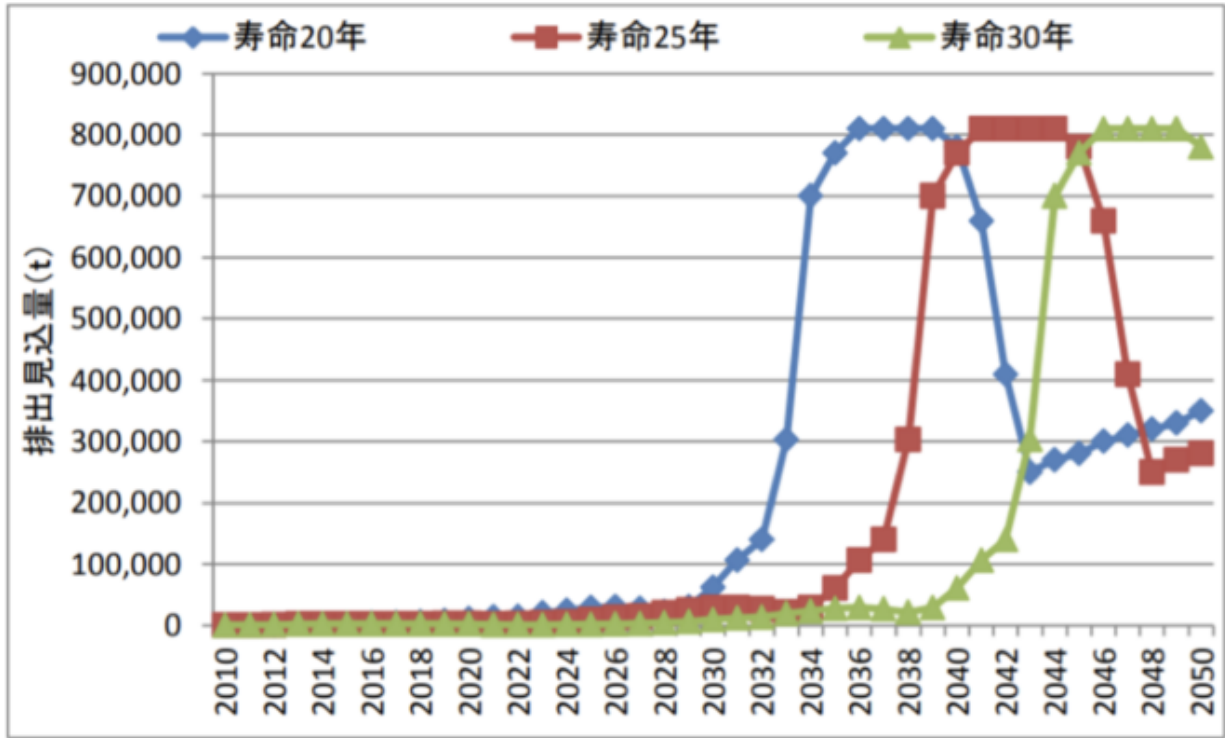


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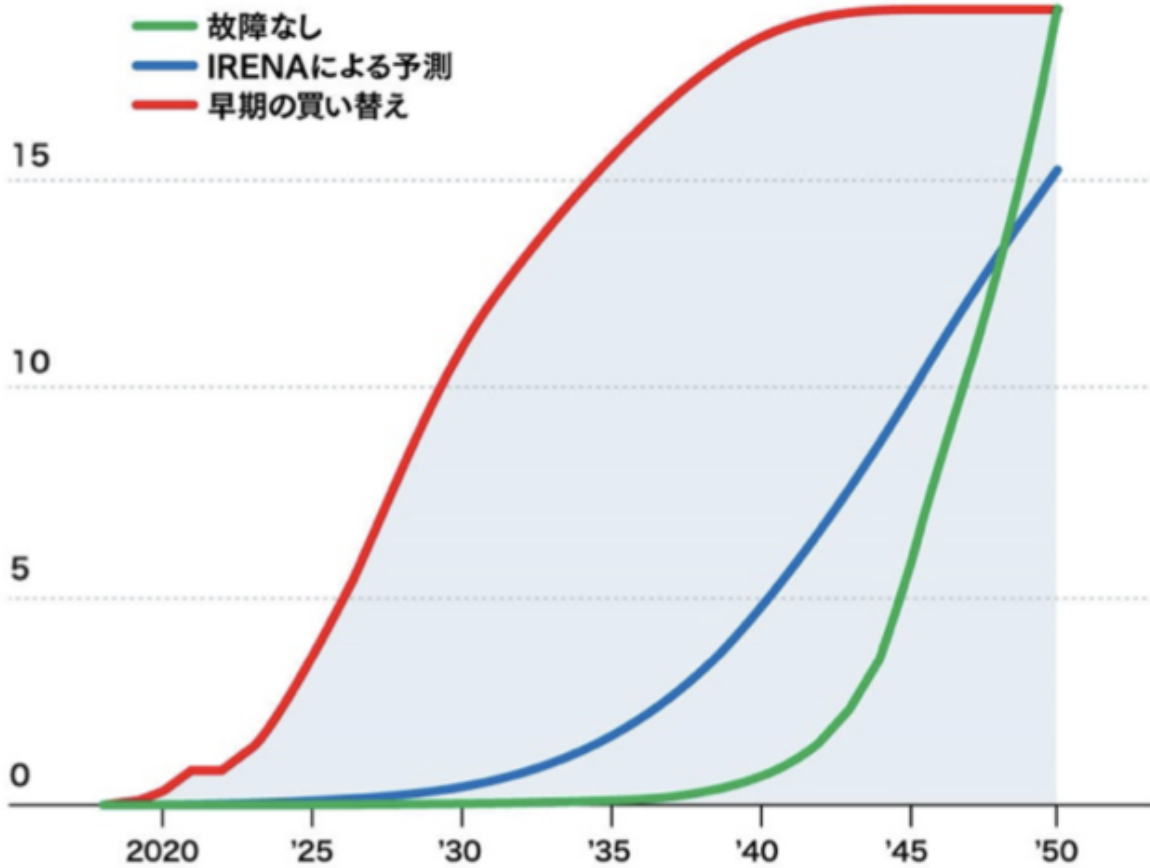
????????????????2035????????????2????????????????3??



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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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?????PCB ????15?????

1972??PCB?????PCB?????2001??PCB?????
2004?????JESCO?????30?????
????PCB?????

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

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?? ?? ? - Sunday, July 9th, 2023



Grafissimo/iStock

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