









# ?????????ALPS ????????????

?? ?? · Saturday, September 2nd, 2023



axz66/iStock

## ?????????

????????????????????????????????ALPS??24??????  
??

??

??

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

??

??ALPS??????????????????  
??????

??

## ?????????

??  
??

ALPS??





G20????????IPCC??G20????????  
?2025????????????????????2019????2035?????????60%????????????????  
??2030????????????CO2????????  
????????????????

????????G20??G20?????  
????????2040????????????????????????

????G20?????3????????G7??

G7???IPCC?6????????????????2025????????2035?60????????????12?COP28????????  
????????????G20????????IPCC????????????

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

?????IPCC??

????????2040????????????????????????????????COP27????????LMDC????????2050????????  
????????????2030??  
????????????????????

**????????????64?**

G7?????1.5????????????????2050????????????????????????  
????????G7????????????????????

????????????????G20????????????????????????????????  
????????????????????3????????????????  
????????2????????????????????  
????????????????

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

**EU????????65?**

????????????????????????????????CBAM????????????

EU?CBAM????????????6????????????  
????????????G20????????  
CBAM????????

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

????????????6?IPCC????????1.5????  
1.5????????



?????1.5??

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

??

?? ? · Monday, August 28th, 2023



dima\_zel/iStock

??GCR????????????????????PDF????12??????  
??16??5????????????????????????????

??50??  
??

??

??????????1997????????????????????GCR??GCR????????????????  
??

????????????CO2????????????????????IPCC??

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

??

2019 GCR 78 2km 12km

high-altitude clouds 27km

GCR 12km

deep convective activities

GCR

decadal 10 11 GCR 1.4

034

NOAA 1979 1979 43

GCR GCR cycles 11

Fig. 1 GCR 03 8 1 Fig. 2 GCR 5678

GCR cycles Fig. 3 Fig. S5 GCR GCR GCR

Fig. 4 GCR 3 GCR GCR

GCR cycles Fig. 5

??????????

??10????GCR??  
????????????????????8????????????????????????GCR??  
?????????GCR cycles????????????????????????

??2??????  
????????????????3????????????GCR??

????????????????????????GCR??  
??

?

??  
??

??

????????????????????IPCC??  
??  
??????

??

??

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

### ????????????????”???? “????????????????

?? ?? · Sunday, August 27th, 2023

??

????????????????????IPCC????????????????????????1.5????????????????1.5????????????????  
??

### 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

2022 WORLD CLIMATE DECLARATION

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

**IPCC63**

2019 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

1 10

1g 880



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

????12????????????????30??100????????????????????????  
?

??

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



????????????(WSJ)

????????????????3000????????????3?????1????????????????8????????????????  
????????????????

**????????????????**

??

????????????????2016??  
????????????????

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

??ALPS????????  
????????????????????????

**????????????**

1970??  
????????????????????80????????????????????????

??1990??  
????10????????

??2008????????????????????????????????????  
????????????????????????????????????

??

**????????????**

??  
????????

??FIT?40????  
????????

??  
????

**????????????**

??  
????

??40????????????22????????????  
????

??22????????????  
????



??2050????????????????????2030??CO2????46%????????????????  
GX??

2022?3?15??



??CO2????2030?46%????????????????????????????  
????????????????????????????????



??  
?????  
??



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

GX??  
??

??  
??

??  
??

?

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

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

?SDGs????????

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

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

?? ?? · Tuesday, August 22nd, 2023







????CO2??

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

???????

????????????????EPA????????????????”State Farm”????????????????????????????????????

? State Farm Test: ???

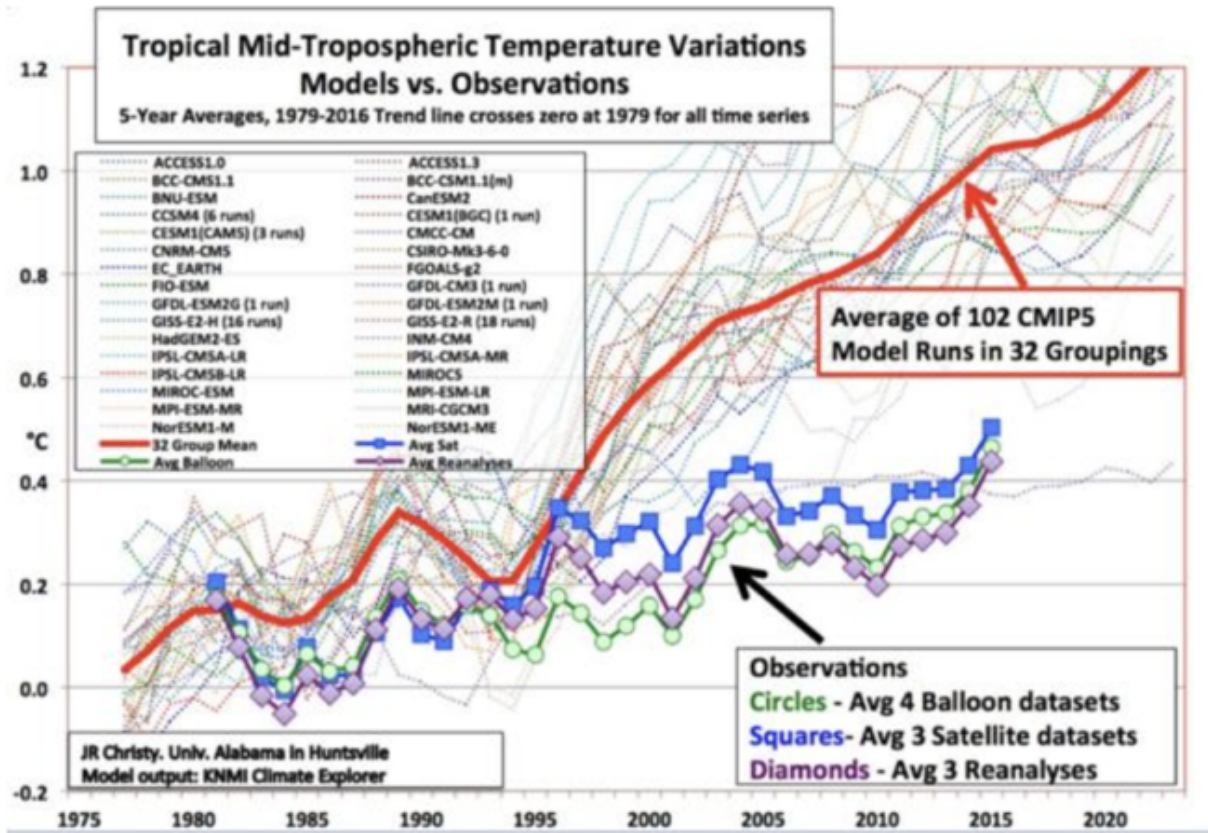
??????????

1. EPA????????????????????????????????????
2. EPA????????????????????????IPCC??
3. ?????????????????????????

??  
??

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

????????????????????????????EPA??



????EPA????????????CO2????????????CO2????????????????????????????????????

????????????EPA??

????

????

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



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 »

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

?? ?? · Friday, August 18th, 2023



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

Luisa Trescher Photos/iStock



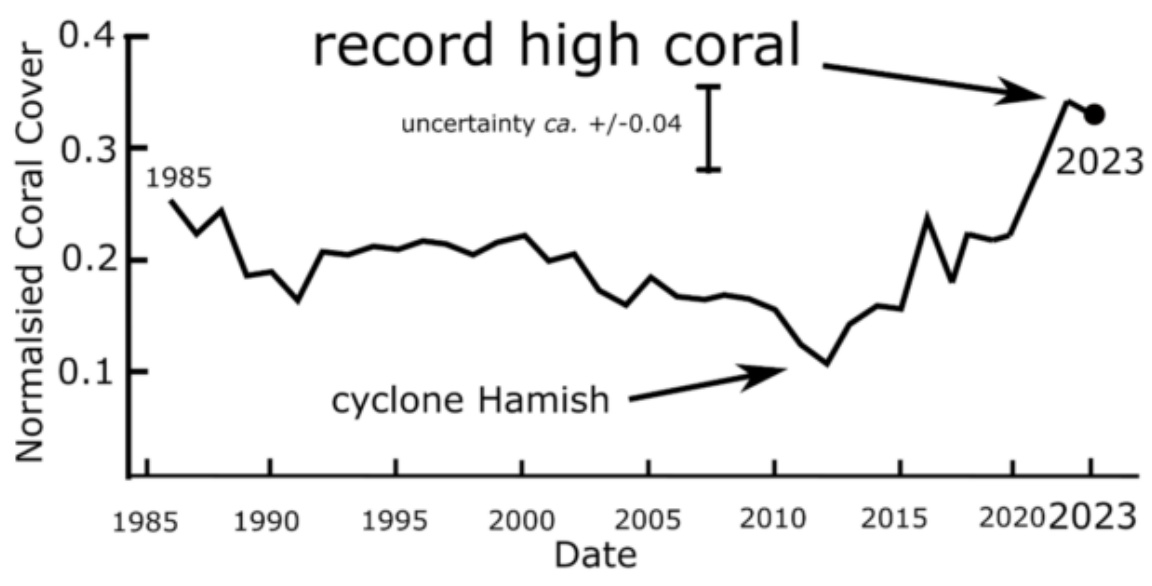
??

60????????????????????

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

??  
??

??  
????????????2022????????????



2023??

??2012????????????2????

2022??  
??

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

????????????????????AIMS????????2023??

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

??

??

??

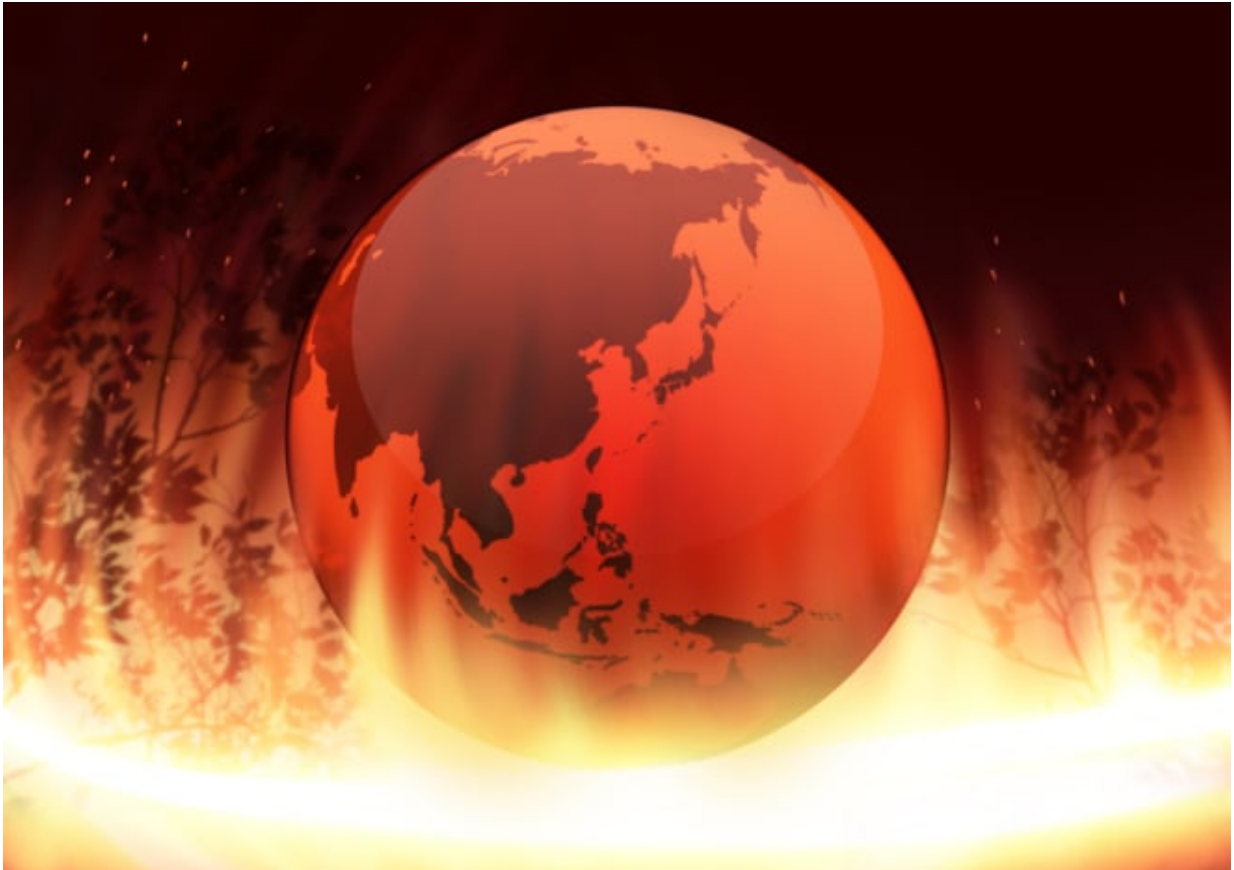
????????????????

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

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

??





Tr6/iStock

global warming global boiling

“”



2023 “”

100 15 100

50 5

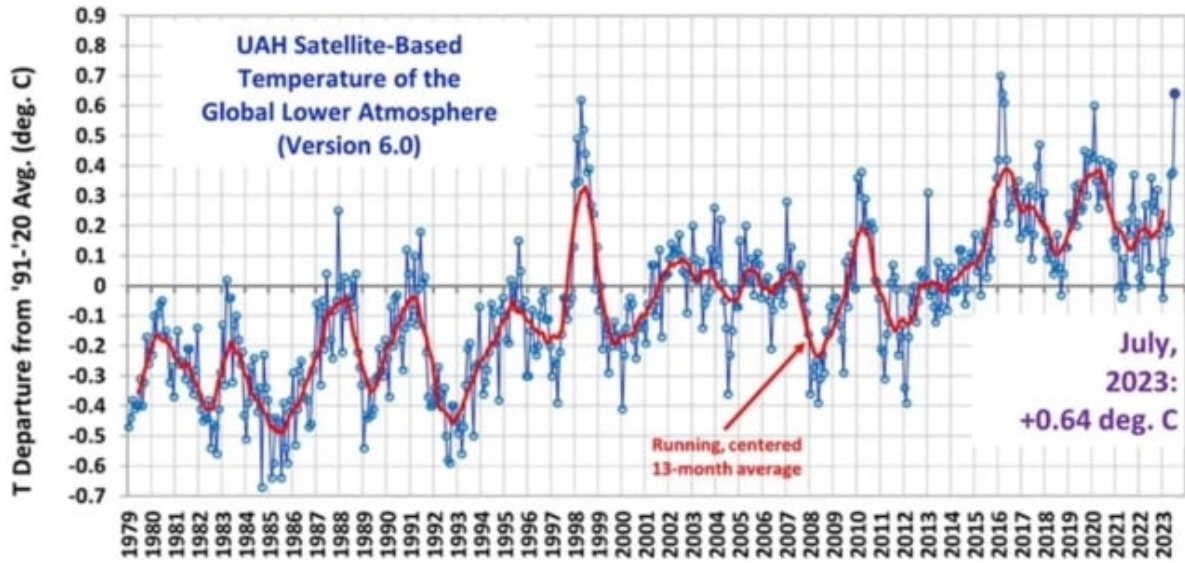
BBC 1





Climate Etc.

9000 UAH



3

Climate Etc.

2023

1 7

2 1 3

2023 4 1 2 1 7







CO2  
CO2

CO2  
CN

CN

20  
95

CN

**??????????**

CN  
CO2  
CN

CN

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  
4  
12  
4  
12  
2009  
2011

or

??14????????????????????????????  
??

??  
??

??CO2??  
??  
??

??  
??CN????CO2????????????

??1981????????????4?10??pp.  
949-954??  
????????????????????????

??  
????1????2????3????4??

??2??  
??

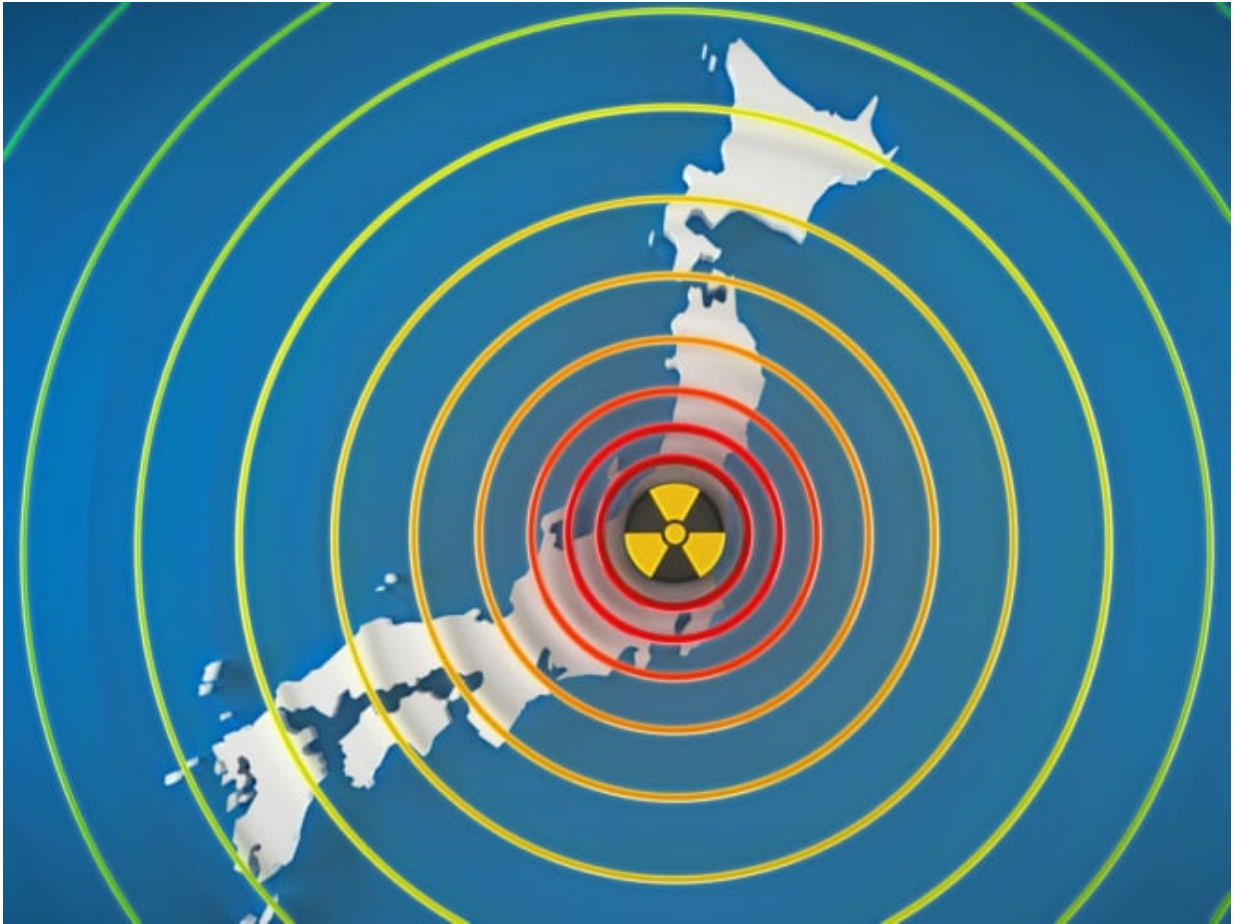
??3????????????  
????????????

??

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

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

?? ?? · Thursday, August 3rd, 2023



adventr/iStock

????????????728??

????????????????????????X????????????

????????????1??28????????????????????????????????????

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

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













bluejayphoto/iStock

?????????7?????????40?????????  
????8?????????7?????????30?????????

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

????????????  
??13?????????

????????????41?????????  
????“?????”?????

7?27?????WMO??EU?????????2023?7?????????  
????????????

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

????????????“????????????  
?????”????????? ????2023?7?????????  
????????????

????????????100????????CO2?????????  
????????????7?????????  
????????????

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

??

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

??85??  
??  
???

????????????????????15??2????????????????????  
??

????????????????????130??  
??  
??

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

??WMO??  
??COP????????????????

??EU??EU????????????????????  
??  
??

??7????????????????????????10????????????????????  
?1000????????????

????????????????????40??  
??

??25??2????????????????????wetter.com????????????2023????????  
????????????????????????26????????????????????daswetter.com????200????????????2023????????????  
??  
??

????????????????7?30????????????????????15????????24??

????????????????“?”??CO2????????????????  
????????????????????

?

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

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

?? ? · Monday, July 31st, 2023

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



NHK??

????????????????29????????????22??

2??

??G20????????????  
??

??  
??  
???

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

??????????

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

???

1.5°C COP  
???

G7

2050  
???

???

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](#) »

# IPCC AR6 “Summary for Policymakers”

2023 · Sunday, July 30th, 2023

2023 IPCC Summary for Policymakers

IPCC AR6 Summary for Policymakers

1.5°C and 2°C pathways for limiting global warming to 1.5°C and 2°C by 2100

2040

AR6 Summary for Policymakers

AR6-SPM Longer Report



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

????1.5??1.5????2????67????  
????????????????????????????IPCC????????????????????????????????  
????????

??

????????????????2????2?1.5????????????AR 6-  
SPM????????GHG????????????????????

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

????2020????50????GHG????1.5????10????23????7????  
????????????????????

????????????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????????<sup>22</sup>?

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

????  
????



AR6-SPM?C.2.4

???



AR6-SPM?C.2.4  
2  
39

?????

2  
1.5

1.5 AR6-SPM?P26



1.5  
24

?????

1.5  
IPCC AR6  
1.5  
?

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  
1.5  
2  
1.5

????????IPCC??

????????????????AR6??  
????????????????????????????????????



????????????????????????????????GHG????2019????2030????43????2050?84????????????????  
????????????????????1.5????????????????????????????????1.7?1.8????????????????????  
?????1.5????????????????????

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

???1.5??  
?????????????5?????????1.5????????????????

?????IPCC

AR6??1.5????????????????  
??

?

?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 »

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

?? ? · Saturday, July 29th, 2023



BrianAJackson/iStock

??  
??

**????????????????????????????????**

??

????????TV??  
??IAEA????????????  
??

??  
??

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

??

??  
??

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

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

??



Posted in ???, ????? | No Comments »

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

?? ?? · Thursday, July 27th, 2023



JaCZhou/iStock

??????CO2????????????????????2023??74??Enrico Mariutti????????????????????????????????The Dirty Secret of the Solar Industry???

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

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

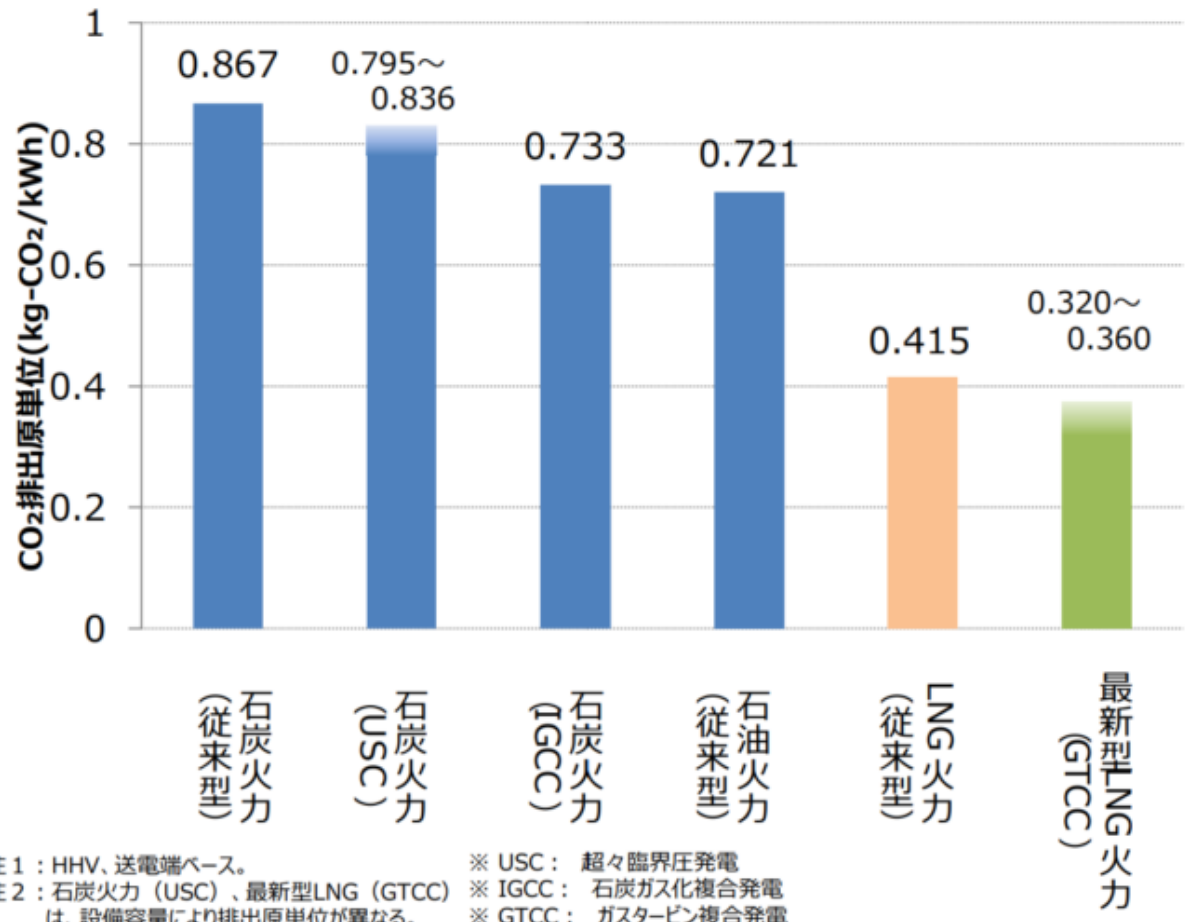
- ???CO2?????????????
- ???CO2????????????????????????????????
- ???CO2?????????????
- ???CO2?????????????
- ???CO2????????????????????????????????

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



CO2 9

1kWh 245 CO2 2022 LNG CO2 1kWh 320 360



3

CO2

CO2







jetcityimage/iStock

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

??EV??  
??

????????????????5??3????????ESG????????????????????????????????  
????????????????????

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

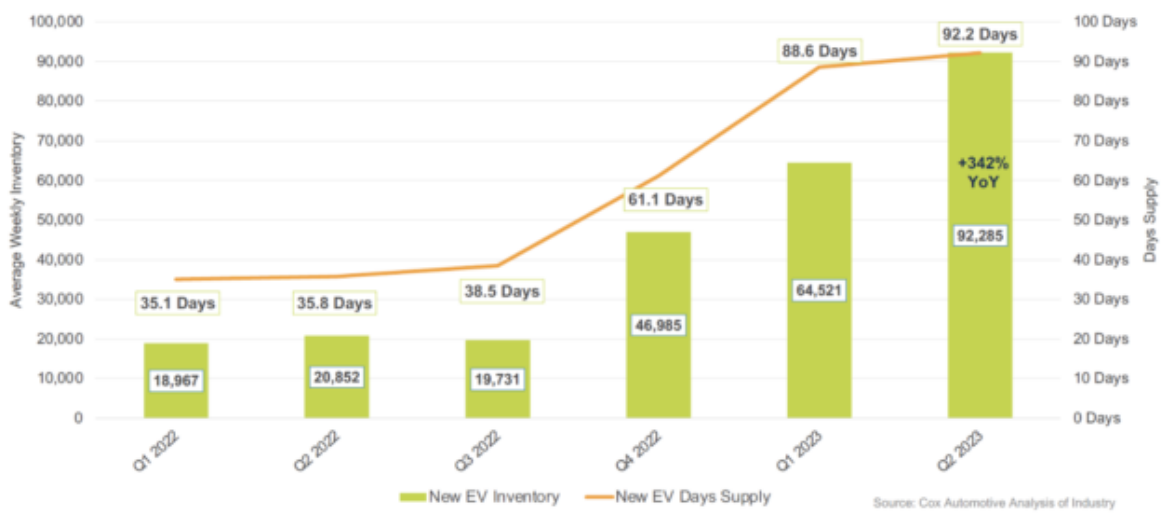
????????EV????

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



### 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??  
??

??12??EV??

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

????????????CEO????????EV??

??EV??  
??

????????????????????EV??  
?????EPA????????????????????????????

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

### ??

?? ? · Thursday, July 20th, 2023

??  
????????????????G7????????????????????????????????????COP????????????????????????????????????  
??



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

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

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

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

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

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

????????????0.1ppm????????20????????0.02ppm????????  
????????????

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

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

????????????IPCC????????????

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

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

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

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

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

????????TV????  
????10????

????

????????????????????GX??

??

??

Posted in ???, ????? | No Comments »

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

?? ?? · Wednesday, July 19th, 2023



Max Lirnyk/iStock

??  
??  
[Electric Vehicles for Everyone? The Impossible Dream](#)??

??  
??  
??  
??

EV??  
CE????EV????????????????????????????????

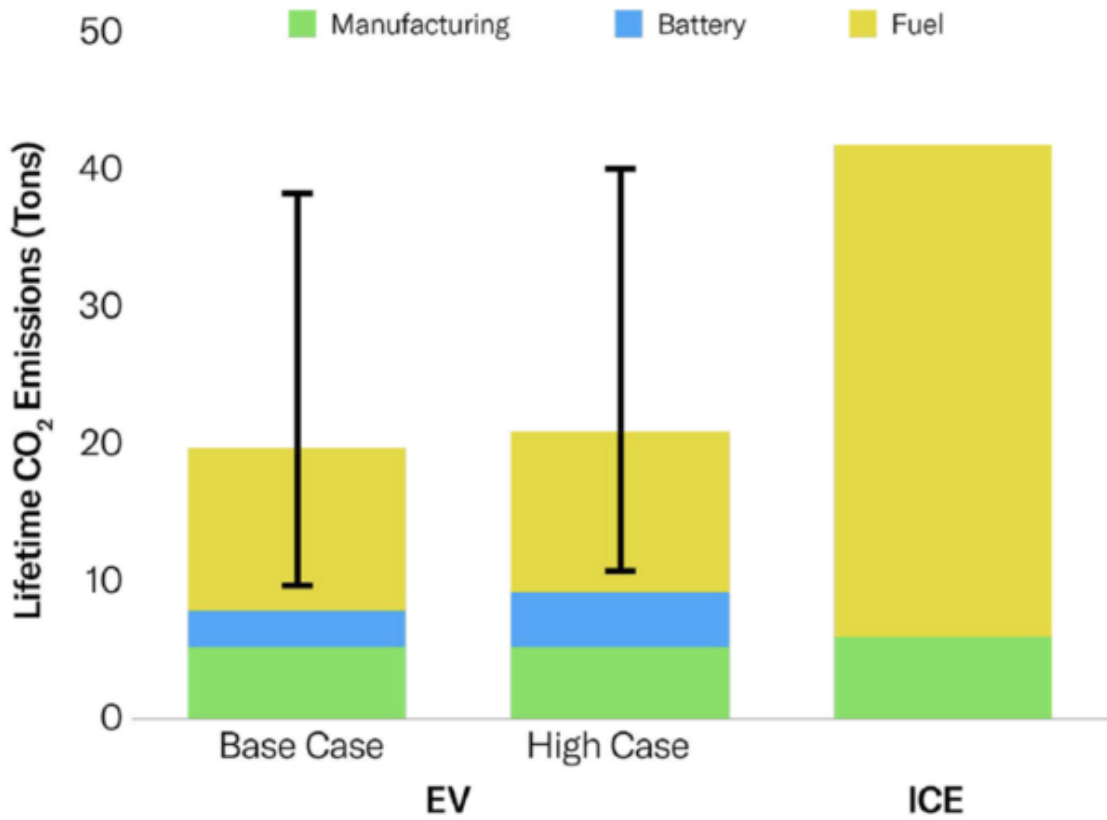
?????2??????CO2????????EV????CO2????????????????????

??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"

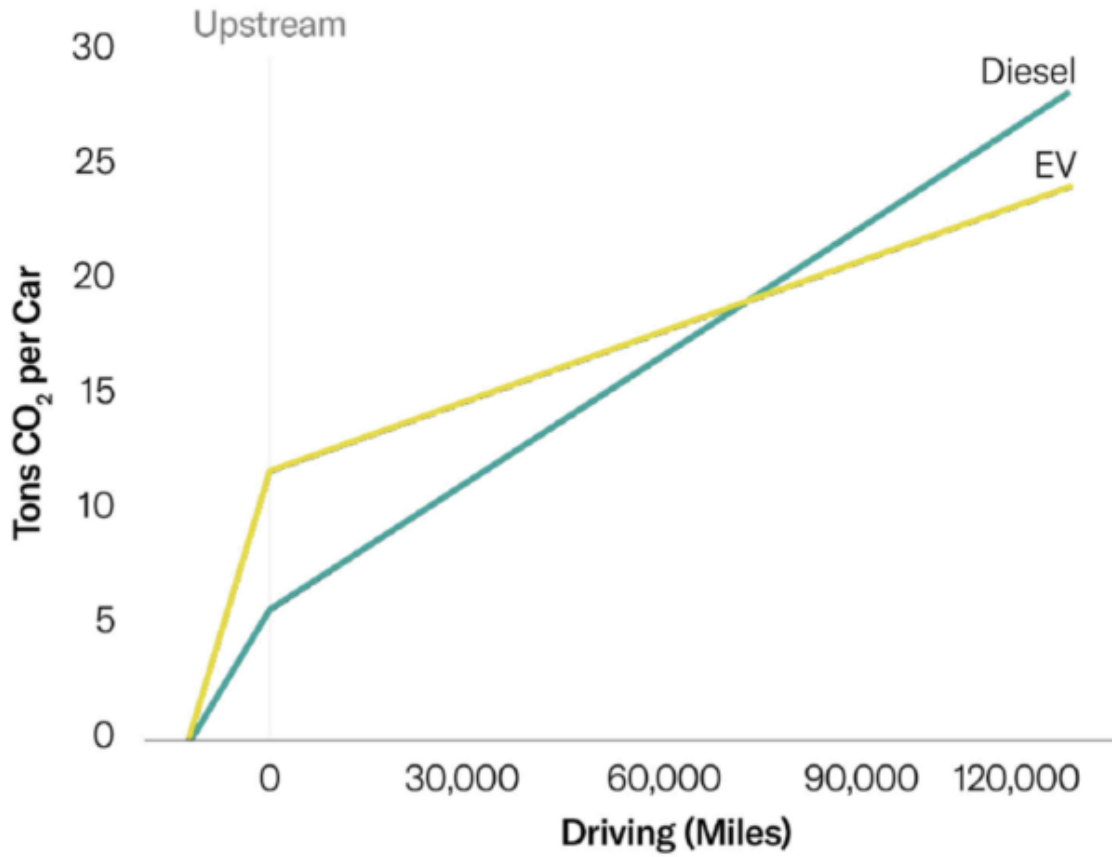
??

????IEA??  
??

????????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

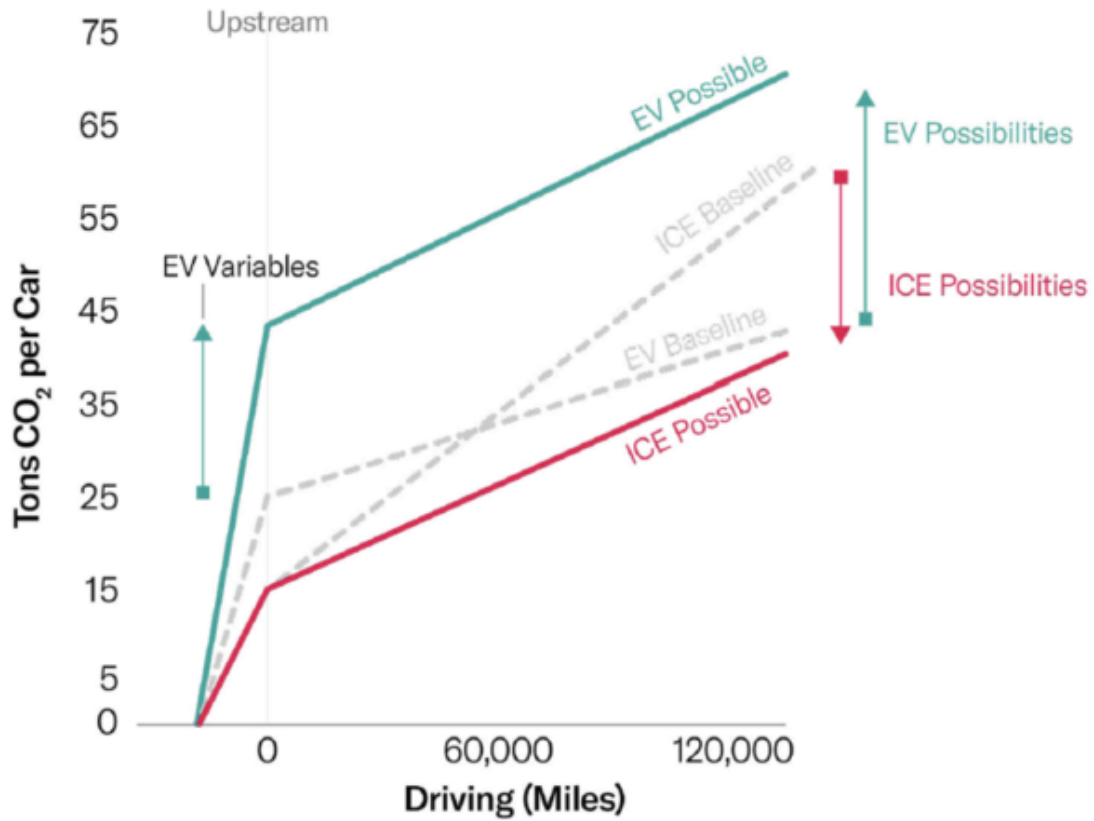
????????????????EV????????????????EV????CO2????????????????????????????????ICE????????????  
???????????????

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

??????

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

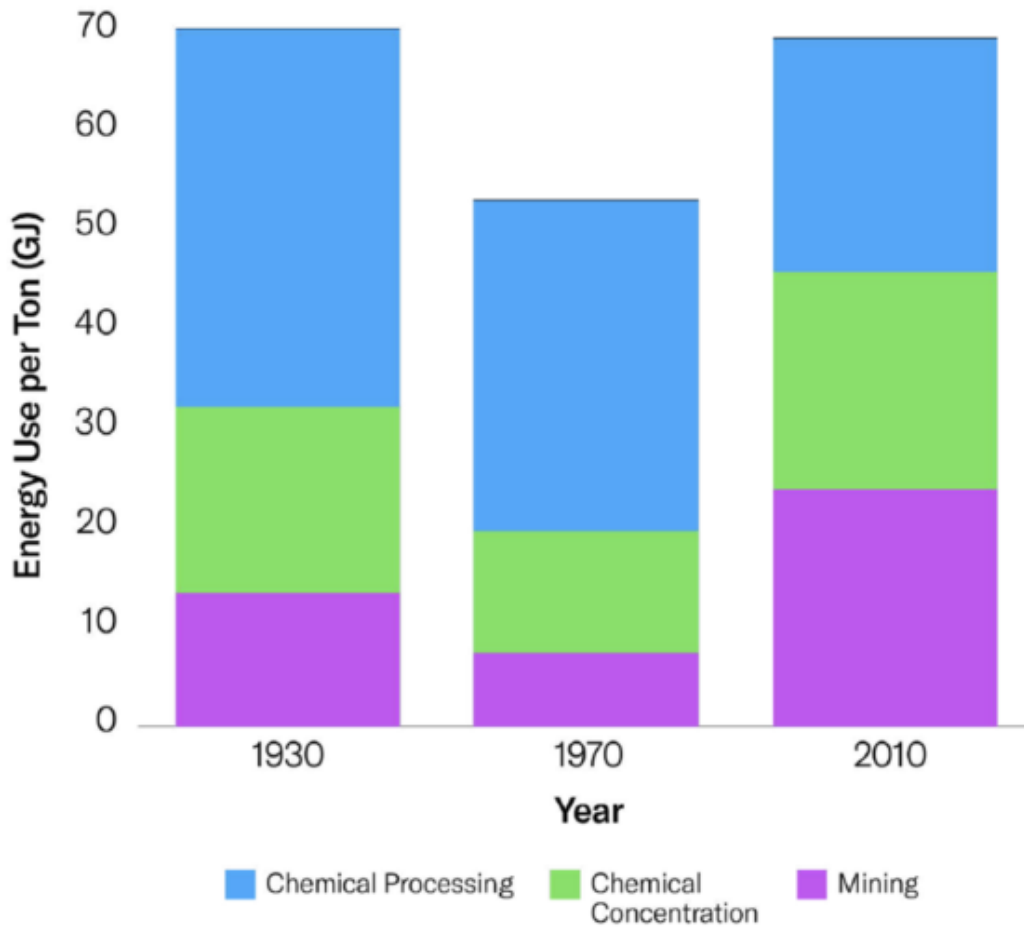
??1?????????????????????EV??

?????????????????????????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)

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

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



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

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

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

?



????????????????10????????1????????????????????????????

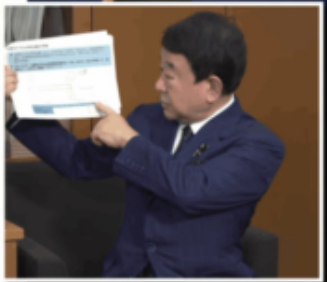
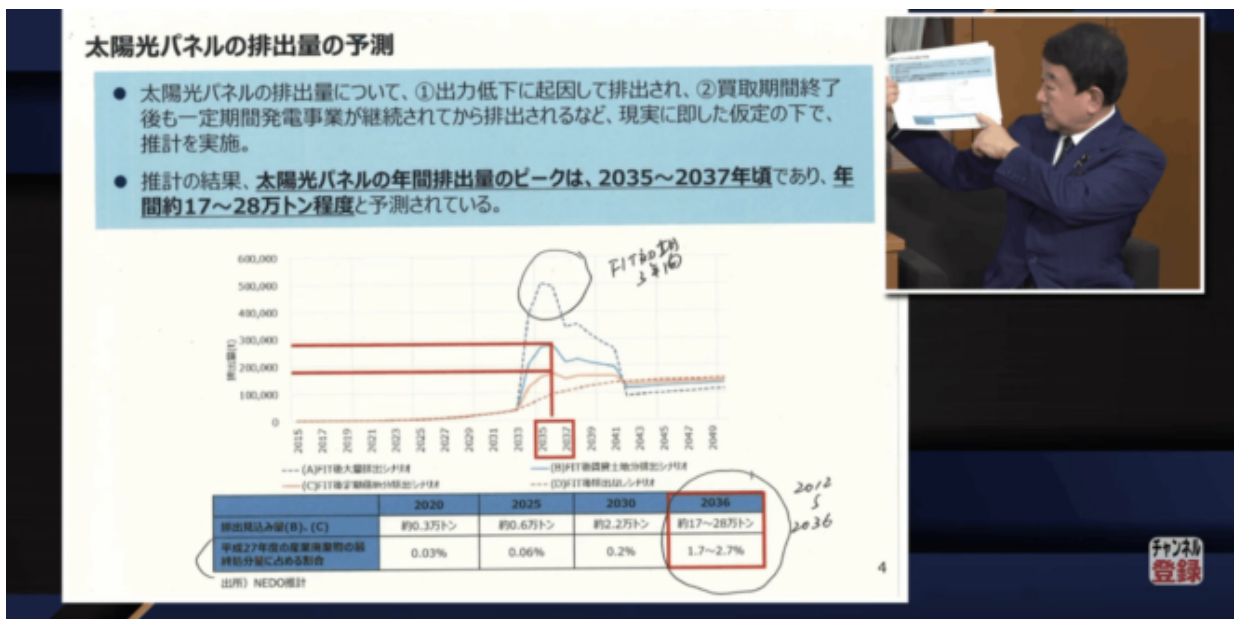
????????????????????????????????1????????????????????3????5????????????

????????????????????????????1????3????????????????????????????12????25??  
????????????????????????????1????????????

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

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

????????????????????????????????2035????????????????2015????????????3%????  
????????????1??

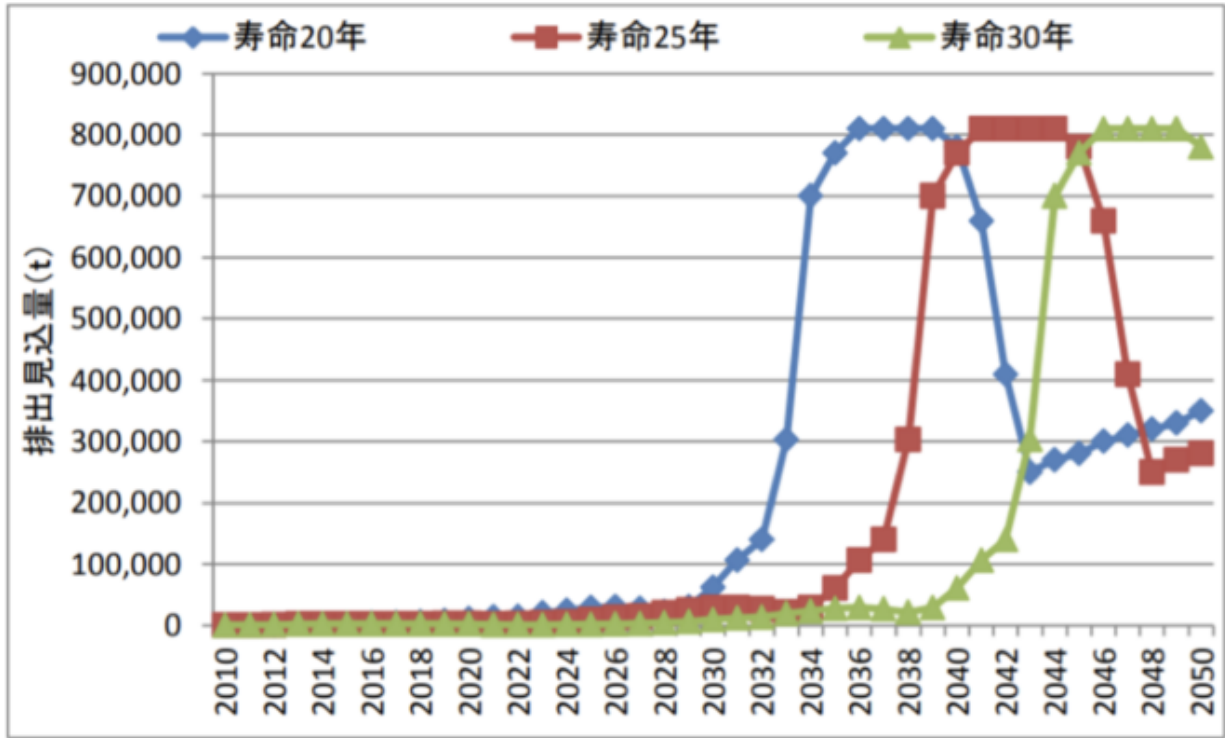


?1????????????

????????????????446????????????????

????????????????9????????1????????????????????????????10%??  
????????????????????

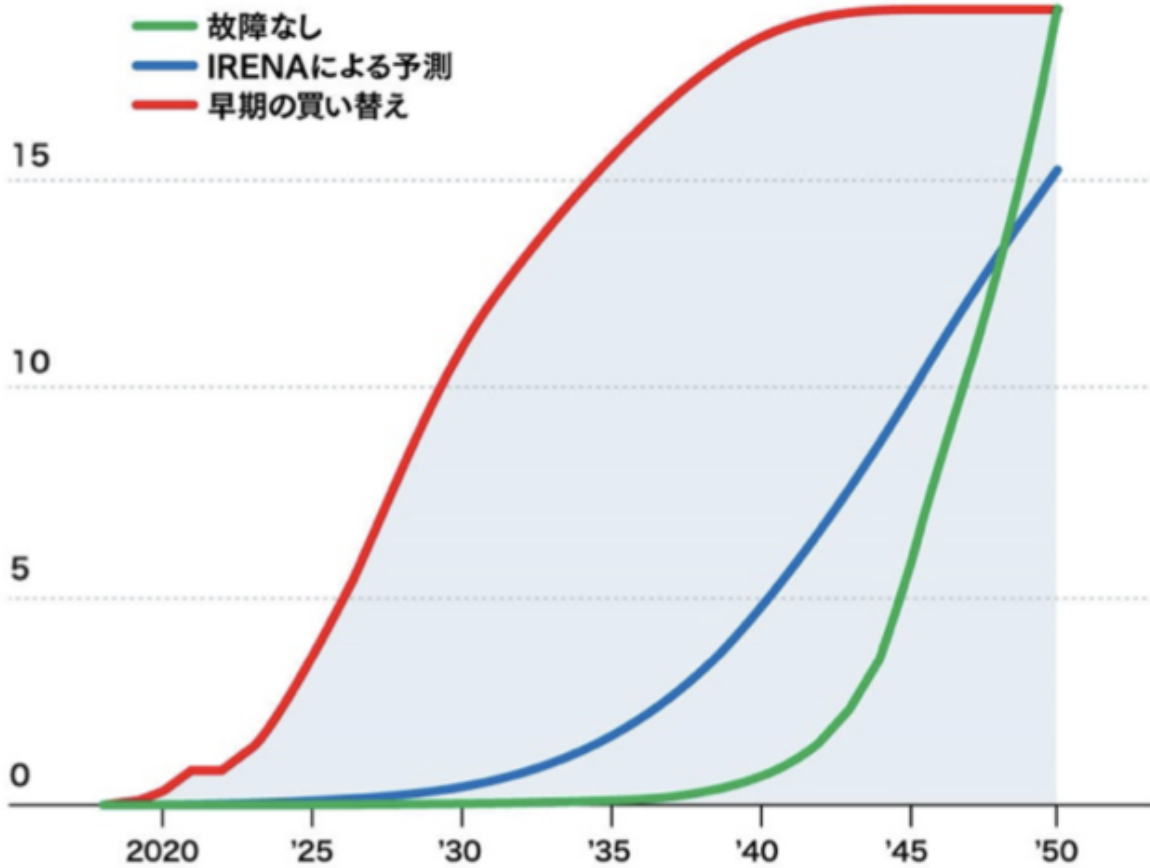
????????????????2035????????????2????????????????3??



????????????????????20?25?30??  
 ??????

**廃棄物の累計**  
 (発電容量ベース)

20ギガワット



3?????????  
??DIAMOND ??????????

????????2035????????????????????????????????

????????????????????????????????????PCB????????????????????????????PCB????????????????  
????????????????????????????PCB????????????????

**?PCB???**

PCB??Poly Chlorinated Biphenyl????????????????????  
????????????PCB??  
??

**?PCB???**

??PCB????????????????  
????????????1968????43????????????????????????????PCB????????????????????  
????????????43?10??  
????????????????????????????????

**?PCB?????????**

PCB????????????????????????????????????1972????47????????????????????30????????  
??  
??13?6?22????????  
????????????????????????PCB ??????????????15????????

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

PCB????????2016????????????????JESCO????????????????????????????PCB?????  
????????????????????????????????PCB????????????????????????????????  
????????????????????????????????

??

????????????????????PCB??  
????????????????????PCB????????????

????????????????????????PCB????????????????????????????????????  
????????????????????????????







??

??21??2????3??  
??24????????????????????????  
????

??“????”????????????  
??

????22????2??1????3?16????????????????  
????????????????23????

??  
??????

??  
????????????200??????

??YouTube??  
??

????????????????????22?6??48????????????????  
??4??

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

????????????????6????????????????????2??  
??

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

????????????????????GPS??  
????????????????

??2??YouTube?1????  
????????????????1????????????????????????????

??2????????????????????????????????  
??  
????????????????????????

??

????????????2????7?3????2??  
??

????2??  
??

??



1?LCA????????2?CFP????????

????????????????????3??  
????????????????????????

??  
??  
?

??

??  
??  
?????

?????????ESG?????????ESG?????????????E????S????G?????????????ESG????????????  
?????????????????????ESG??

??  
??  
??

??

??CFP??  
??  
??

??  
??

???????

??  
??

??  
??

???CFP????????????

??  
??  
??





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

??PV??PV????????????????????????????????????  
????????????

????????????????PV??PV????????????????????????  
????????????









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

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

?? ? · Monday, July 3rd, 2023



CHUYN/iStock

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

????????

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

????????

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

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?????  
?????
- ??????UNFCCC?????  
?????...?????  
?????







?



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

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

?? ?? · Sunday, July 2nd, 2023



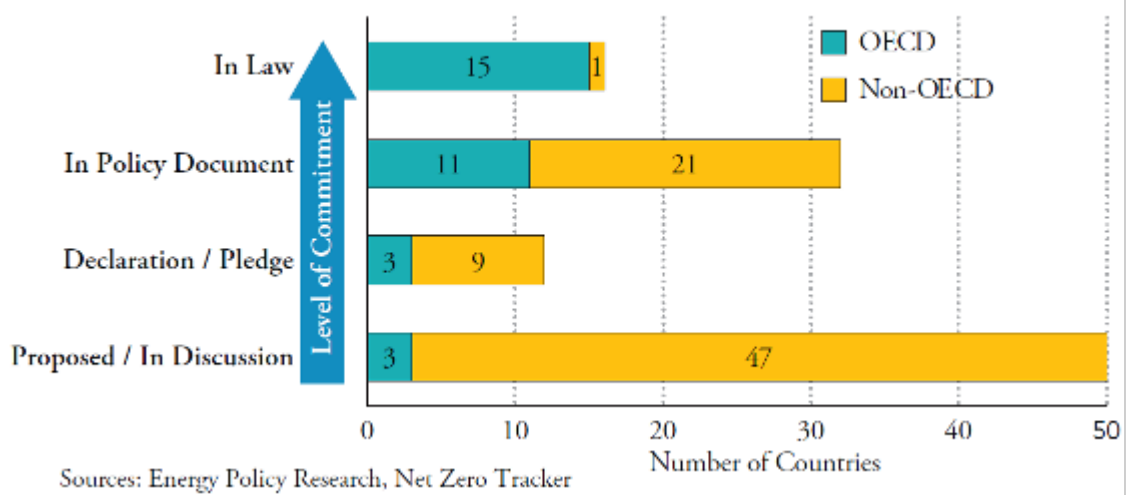
A Mokhtari/iStock

IAE 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.

OECD 2050

Figure 49. Two-Speed Transition: Net Zero by 2050 Level of Commitment

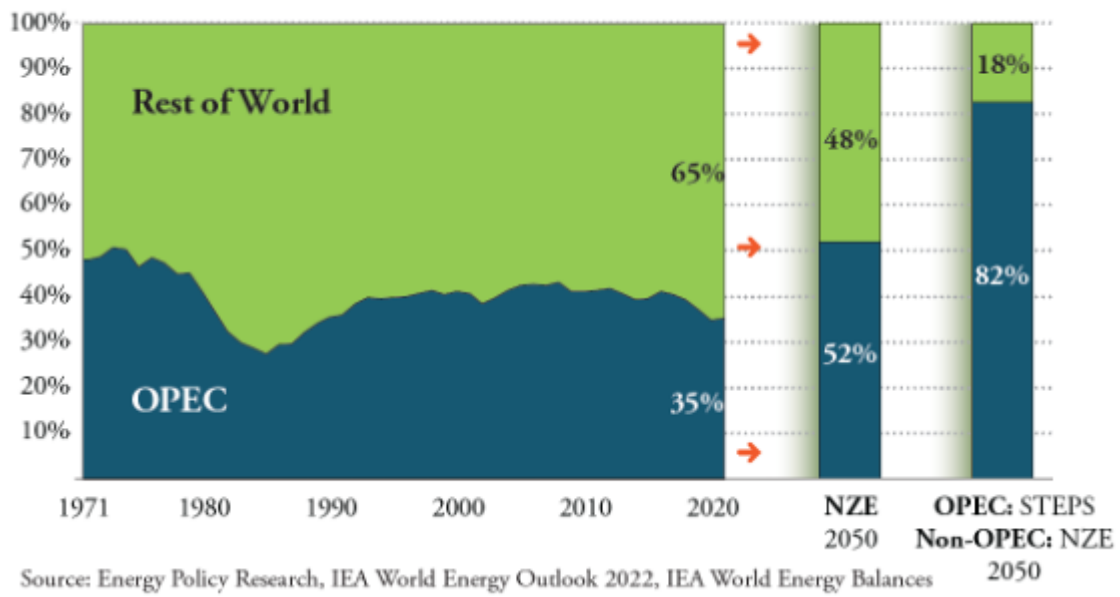


IEA NZE OPEC 35% 52% 1973

NZE OPE

OPEC NZE OPEC NZE STEPS OPEC 82%

Figure 17. OPEC Share of Global Oil Production

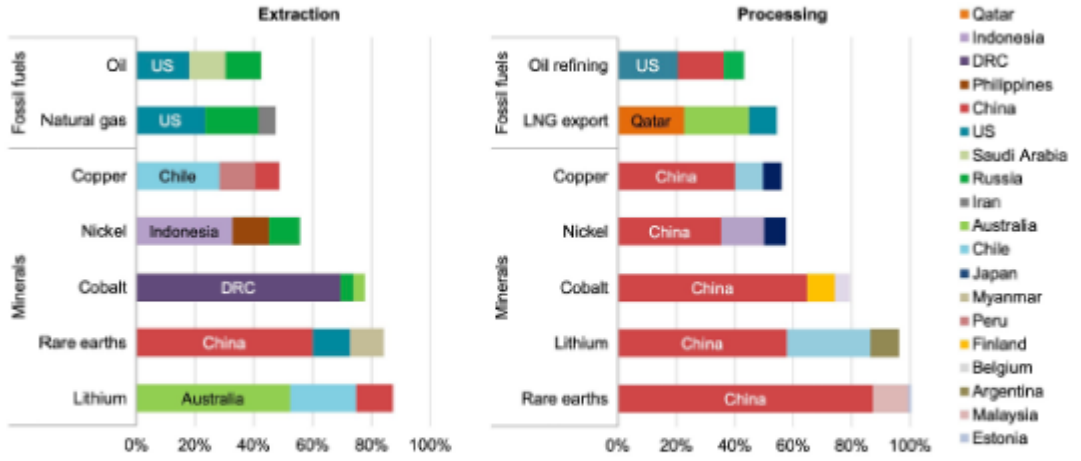


????????????????????????????????????OPEC??

NZE????????????PV????EV??  
??

????????????OPEC????PV????EV??

Figure 18. Share of Top Three Producing Countries in Production of Selected Minerals and Fossil Fuels, 2019



Source: IEA, The Role of Critical Minerals in Clean Energy Transitions (2021)

OPEC????????????????????????????????????NZE??  
??? NZE??

?





12????????????34????????????????????????????????????

????????????3????????????????7????????????12????????????4????????????

??



????????3?????4??

???????

?????????

????34??????2012??2???

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

??10???????

2022??????????????????

10??

??

??

??????SRZ-1200

??GX????????????????????

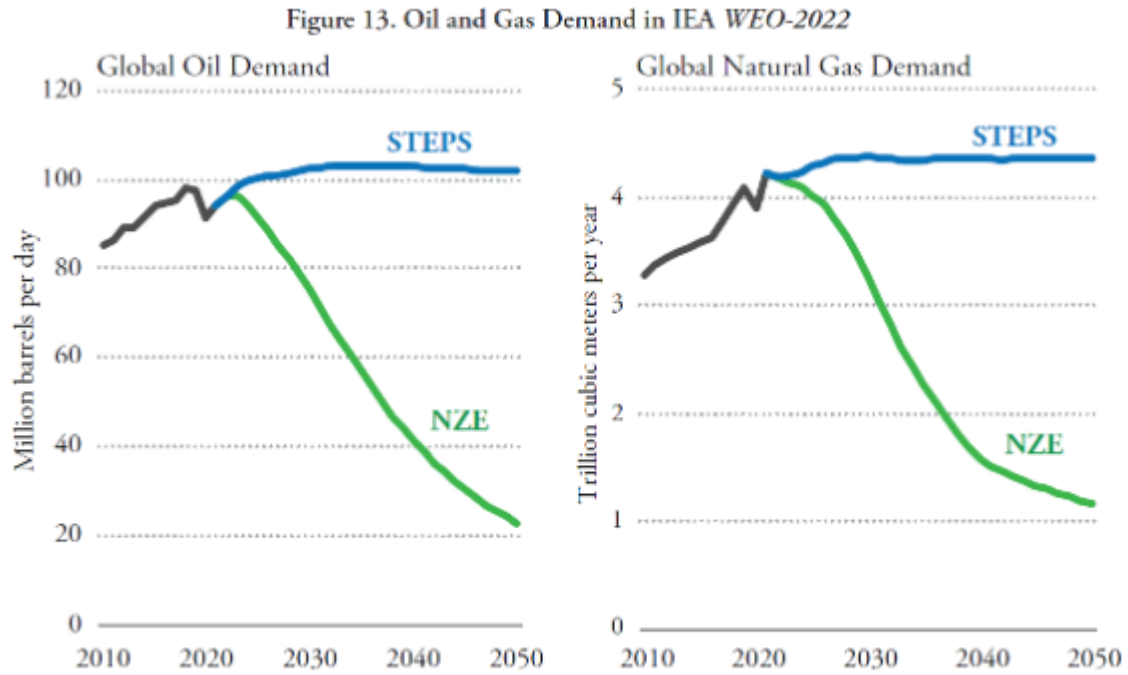


????????IEA????????Net Zero Scenario, NZE????????

????????IEA????????ESG??  
????????

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

????????????????NZE??2050????CO2????????????STEPS????????????  
???



Source: Data from IEA, *World Energy Outlook* (2022) & *Outlooks for gas markets and investment* (2023). The data derived and estimated from graphs in the *WEO-2022* and the IEA’s gas report for the G7, as the IEA’s data tables only show scenario data for 2030 and 2050.

??NZE??

????????????????????2??IEA?N  
ZE??STEPS??NZE????????  
????????

??WTI????????????200????400????  
????????????MMBtu??15??30????????????????????????????????

