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?? ?? · Friday, October 13th, 2023



Liudmila Chernetska/iStock

1. ?????????????

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- 1976????????? ?????????????????????
- 1980????????????????????
- 1989????????????????? ??????????????????
- 1989????????? ?????????????????????

1989??1988?????????WMO?????????UNEP?????????????????
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2. ?????????????

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@WMO????????727??
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?????? IPCC???

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



1.5????????????1.5??
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Bill Gates sees 'a lot of climate exaggeration' out there: 'The climate is not the end of the planet. So the planet is going to be fine'



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



CO2??
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4. ?????????

????CO2???430ppm????1000ppm????????????????????????????????2050????????????????????????????
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??CO2????????????????????????????????
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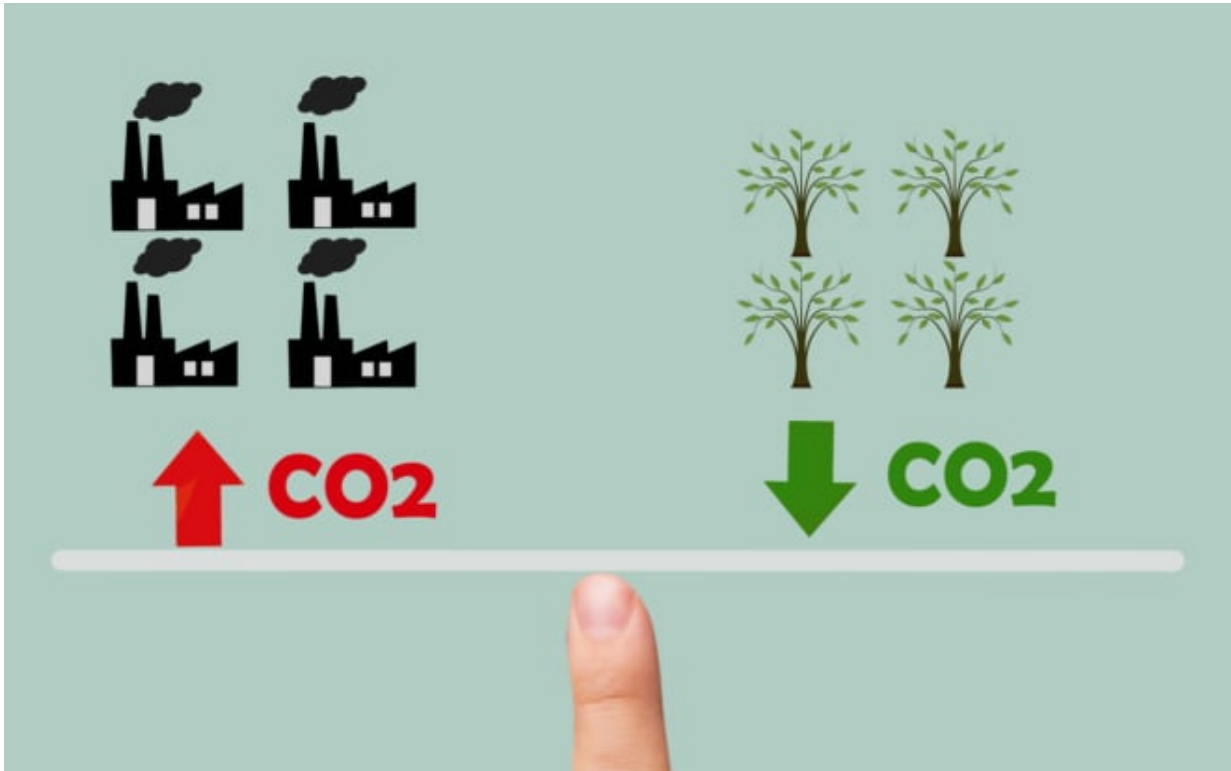
The main conclusion of this part of the study is that even an order of magnitude increase of CO₂ in the atmosphere by human activities, which at the present rate of input is not expected within the next several thousand years, may not be sufficient to produce a runaway greenhouse effect on Earth. On 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.

??CO2?????1????????????????????????????????
????????????????????????????????CO2??30??10????????????????????0.1°K??????????????

Posted in ???, ????? | No Comments »

2026????????????????????????????????

?? ?? · Saturday, October 7th, 2023



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

2026??2023????????????????????????????????2023?10?11??????
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?SDGs????????

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

2023????????????????

?? ?? · Wednesday, October 4th, 2023



2023 ESG 2030 2040
023 CO2 1 CO2 CO2
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4 12,009
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2022 GX 2023 10
2023 9 19 188

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- CO2
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- CO2
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2023??

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?SDGs????????

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

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?? ?? · Tuesday, October 3rd, 2023



KEN226/iStock

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?????????1930????????????????????????????????0.3 m????????????????????????Tsuboi,
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IPCC????????????????????????????????????100??20??

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Posted in ???, ????? | No Comments »

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?? ?? · Monday, October 2nd, 2023



metamorworks/iStock

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??SKB????????????????????30????????

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Dialogue?Openness????????????????

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9?27??9?12?????????10?8????

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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??????
??2050??????????
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??G7??ZEV??
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9?20??2030????2035????????????????????????????????????
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????????Global Warming Policy Foundation??



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

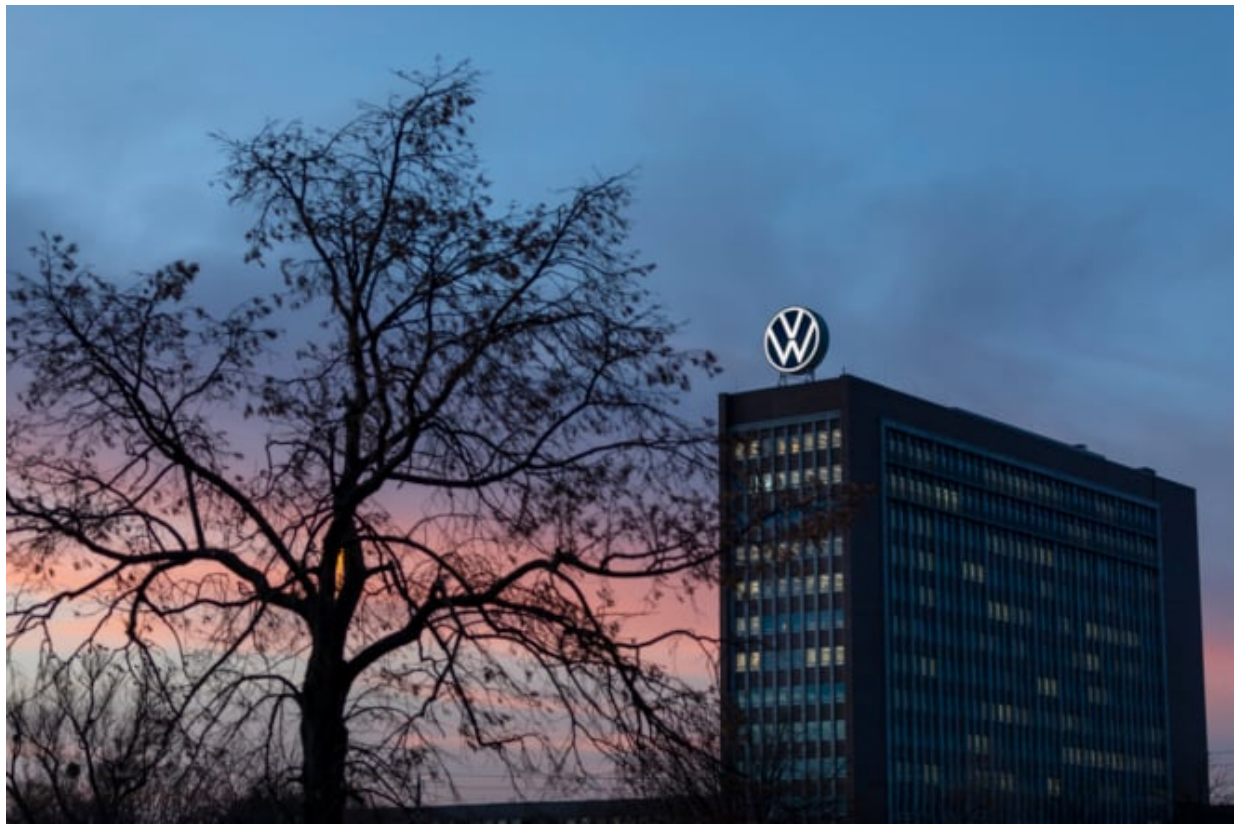
????????????????
?? ?? · Friday, September 29th, 2023

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??6????????BDI??392????16????????????????????????????
????????????????30????????????????????????????²¹?

????????????????????VDA??5????????????????????????????????128????????5????????????27?
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Ilari Nackel/iStock

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????2021????????????????16????????76%????????????
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- ?1?JETRO????????2023?6?14??
- ?2?JETRO????????2023?6?2??
- ?3??
- ?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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??2030???2035????????????

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???carbon

budget??

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2050??
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Deltapoll?22??25????????????????????10????????????????????
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??500????????????????????????????Impax Asset
Management Group
Plc????????????CEO??
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Posted in ???, ????? | No Comments »

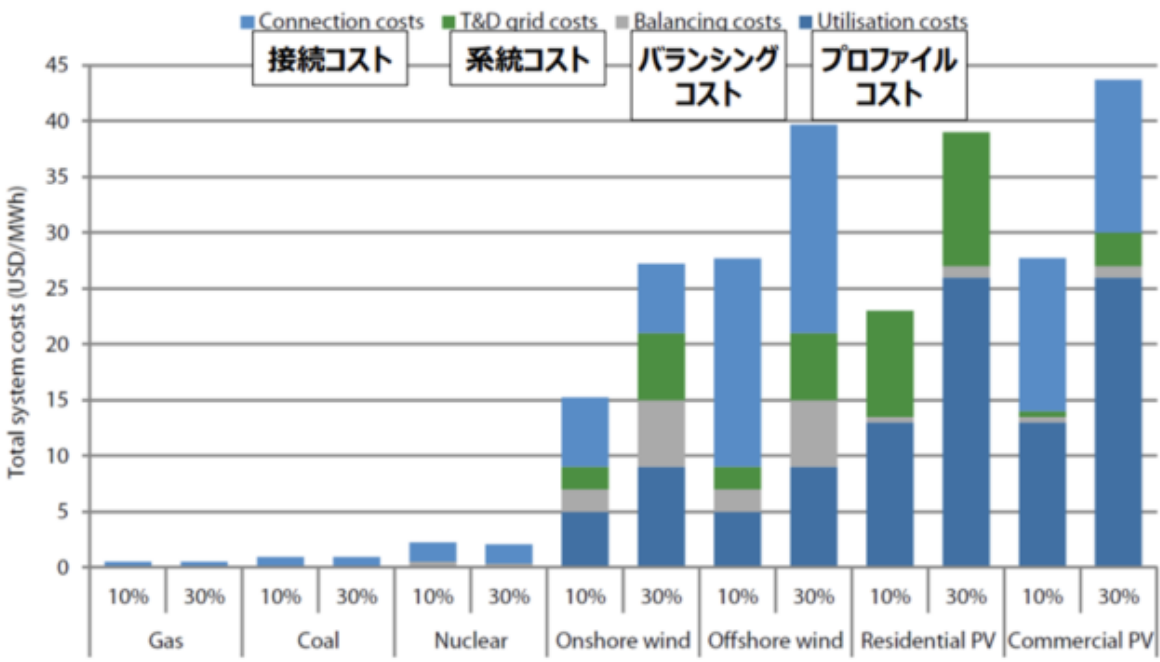
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1. ???
2. ???
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3. ?????????????????????????????????

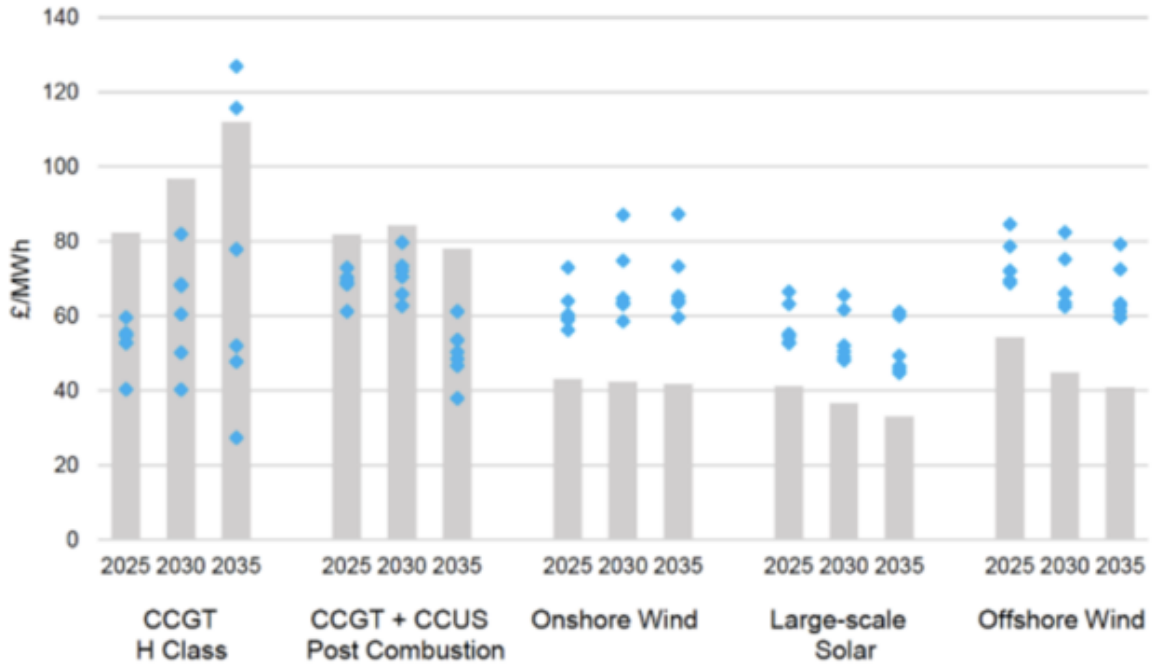
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OECD??US\$/MWh????????????????????
10????????????????28 US\$/MWh?30??40
US\$/MWh????????????????????????1?2????????????????10%??30%????????????1.5?????????????????



OECD The Full Cost of Electricity Provision 2018

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



BEIS Electricity Generation Costs 2022

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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????????????????????????CO2????????????????????3%????????????????????10????????????????????
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?SDGs???????

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

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?? ?? · Tuesday, September 19th, 2023

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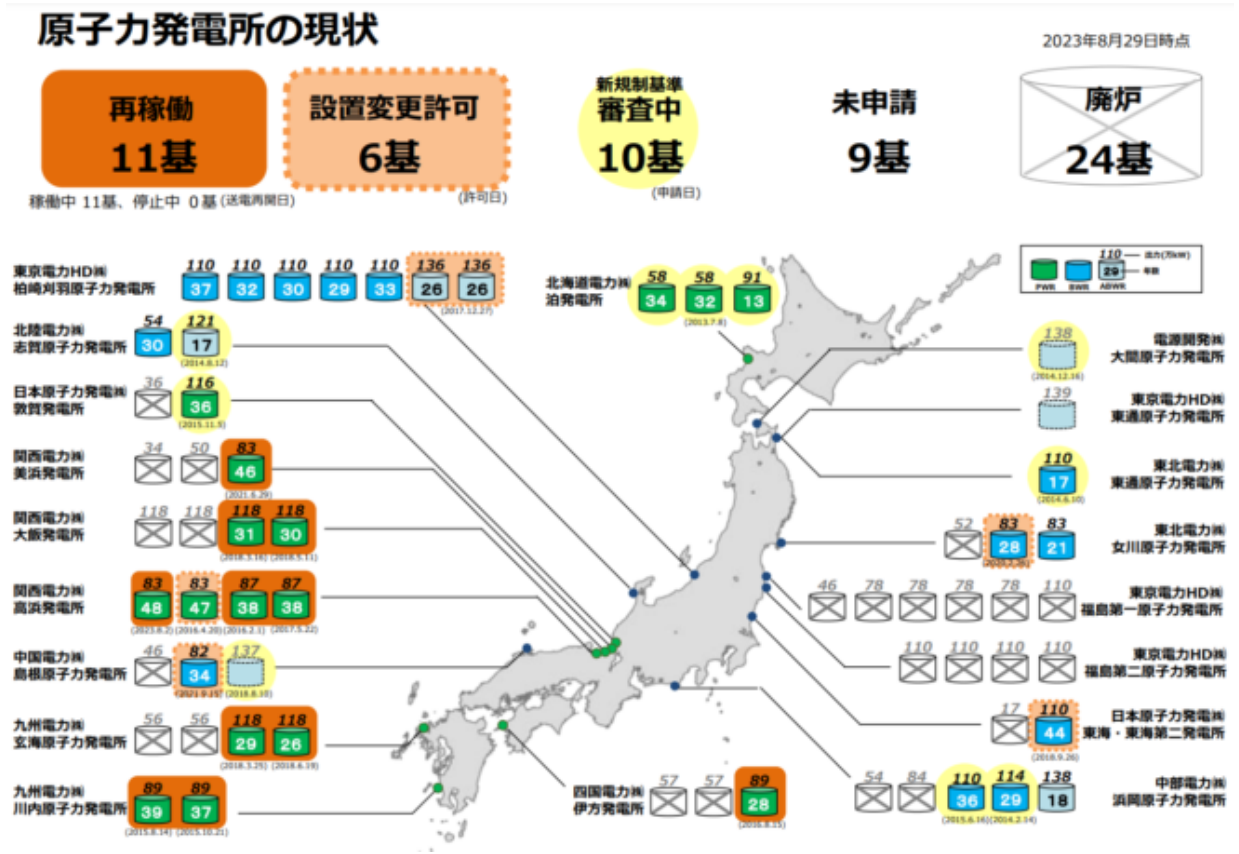
????????????????????MI??2022??
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— ?????? (@atomic_journal) September 15, 2023

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

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



Gwengoat/iStock

1980 70

80 SED 83 SED F DJ

CDU FDJ 30

8

36 16



CSU CSU

36

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10875 1 6 36

Wikipedia

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2010 13

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CSU

CSU AfD AfD

CSU

25

25

16 2

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Posted in ???, ?? | No Comments »

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?? ?? · Thursday, September 7th, 2023

2022????????????????????????F??

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???Quantum Korea 2023??

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Posted in ???, ????? | No Comments »

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?? ?? · Saturday, September 2nd, 2023



axz66/iStock

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ALPS??
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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??
????????2050????????????????????????????????????

????????????????????????G20????????????100????????????????G20????????????
?????????NDC????????????????????????????????2023????????????2030????????????
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G20????????IPCC????????????????????????G20????????
?2025????????????2019??2035????60%????????
????????2030????????CO2????????



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

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

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

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

????2040????????????????COP27????LMDC????2050????
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G7????1.5????2050????????????
????G7????

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EU????65?

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

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

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

????1.5????

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

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?? ? · Monday, August 28th, 2023



dima_zel/iStock

??GCR????????????????????[PDF](#)????12??????
??16??5????????????????????????????

??50??
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????????1997????????????????GCR??GCR????????????????
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????????CO2????????????????IPCC??

????????????????????????????C¹⁴?GCR??GC
R????C¹⁴????????????????????????????????????

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????????????2019????????????GCR????78??
????????GCR??2km????????????

?????????12km?????????

?????????high-altitude clouds?????????27km?????????

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

?????????deep convective activities?????????

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?????????decadal?10?????????11?????????GCR?????????1.4?????????

?????????0?3?4?????

?????????NOAA?????????1979?????????1979????43?????????

?????????GCR?????GCR cycles?????GCR?????GCR?????????11?????????

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

?????????10?????GCR?????

????????????8????????????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

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

??1????????????10????????????????
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1g????????????????880????



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????12????????????????30??100????????????????????????
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Posted in ??????????, ??, ??????? | No Comments »

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?? ?? · Thursday, August 24th, 2023



NithidPhoto/iStock

2023?8?22??

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

2022?3?15??



??CO2????2030?46%????????????????????????????
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GX??
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?SDGs????????

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

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

?? ?? · Tuesday, August 22nd, 2023



Artur/iStock

??MIT????????????????????????????????????CO2?
”heavily
saturated”????????????????EPA??
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CO2??????????

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

????CO2??
??????????80??????????????????????

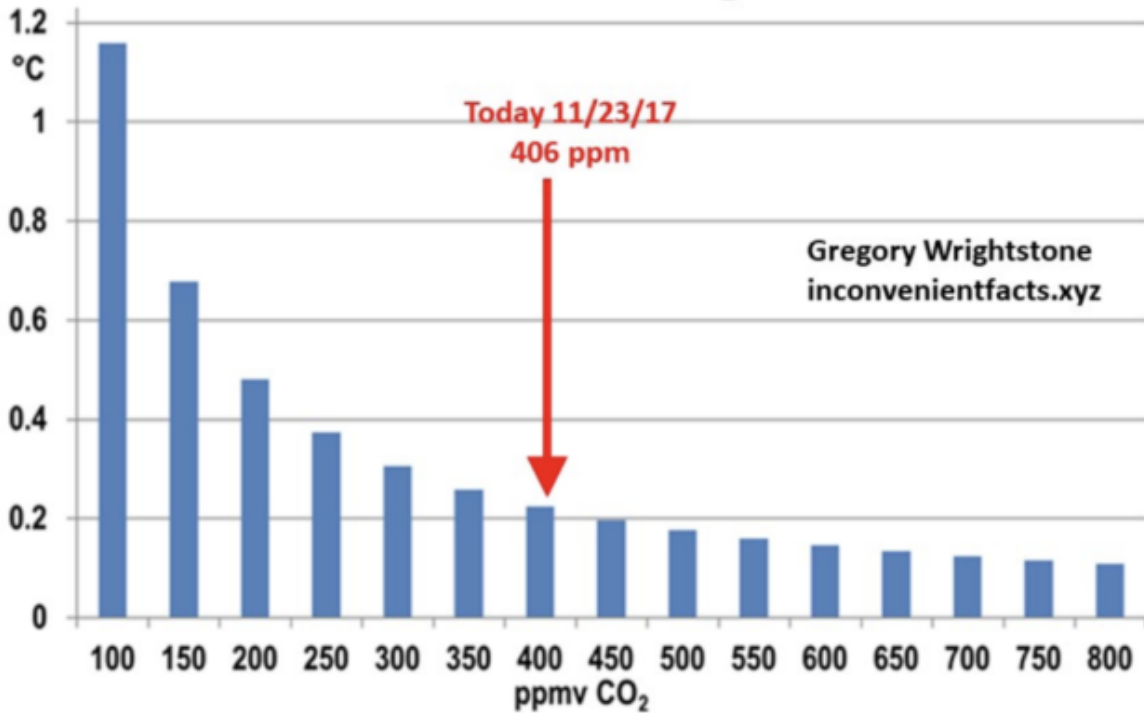
????????40?????Gt??CO2?1??????????????????????????????
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????????????????????CO2??????????????????????????????????????

????CO2?”heavily saturated”

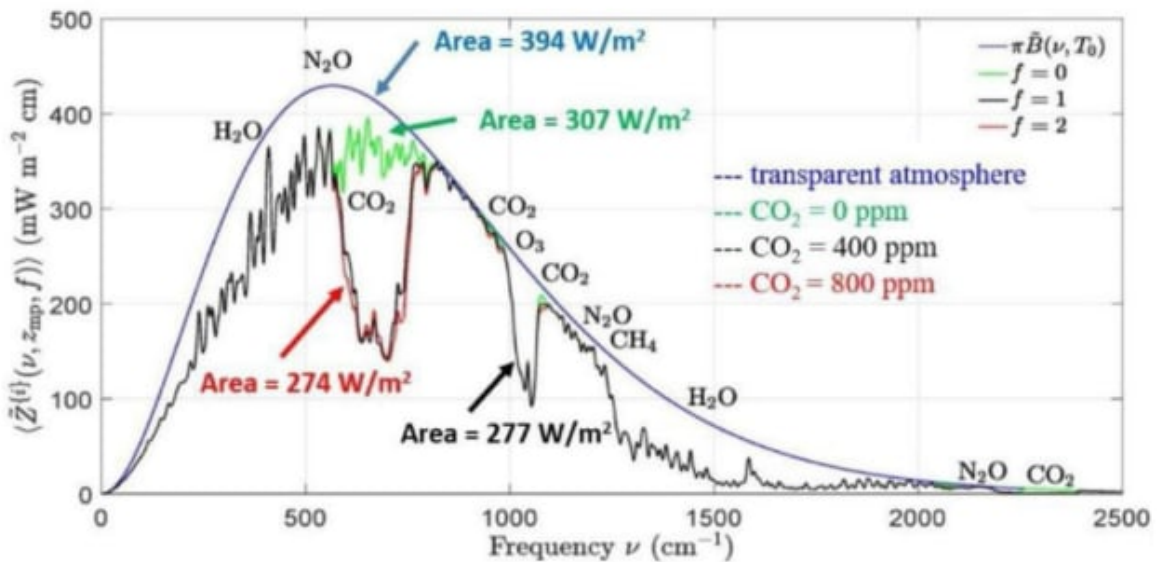
????????CO2???50ppm????????????????????????????CO2????????????????????????????????????
???????????????????????? = saturation????????????????CO2?”heavily saturated”?????????

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



CO₂ 800 ppm
 ?

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



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

?????CO2??

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

? State Farm Test: ???

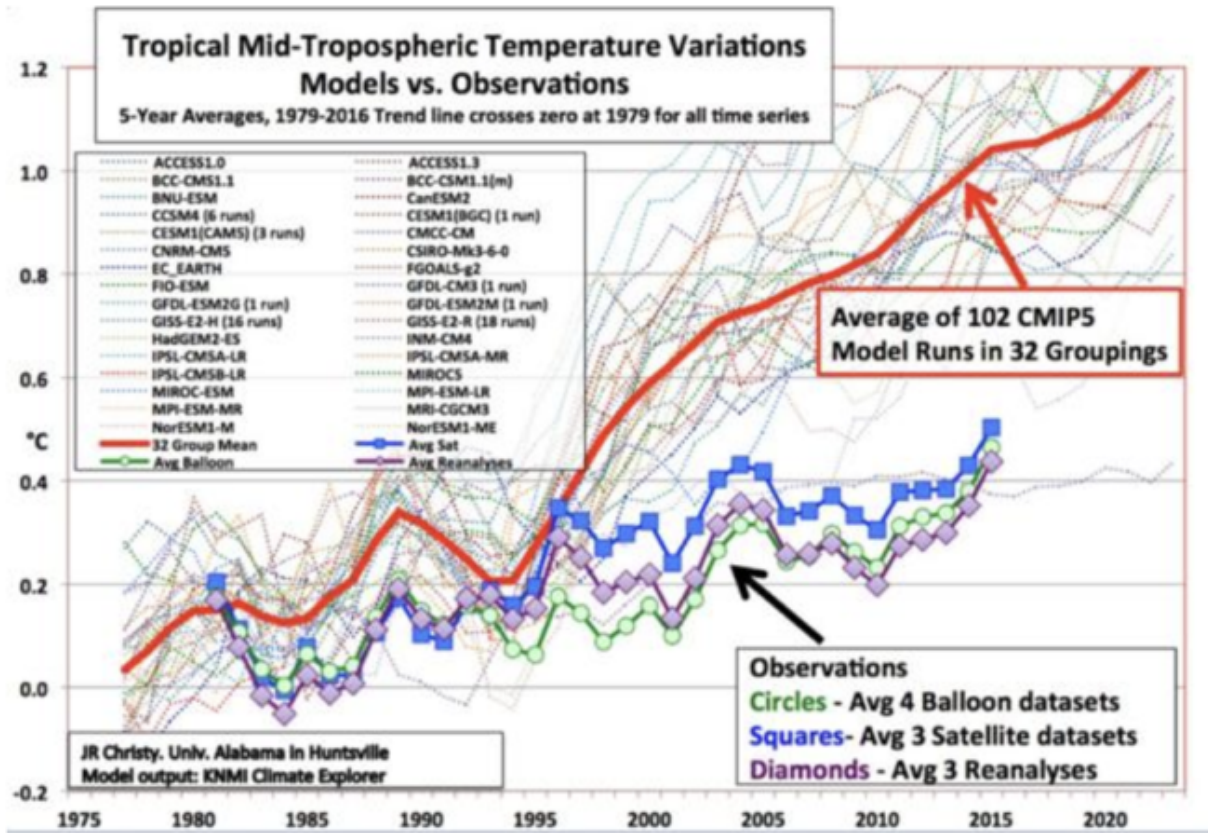
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1. EPA????????????????????????????????????
2. EPA????????????????????????IPCC??
3. ?????????????????????????

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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



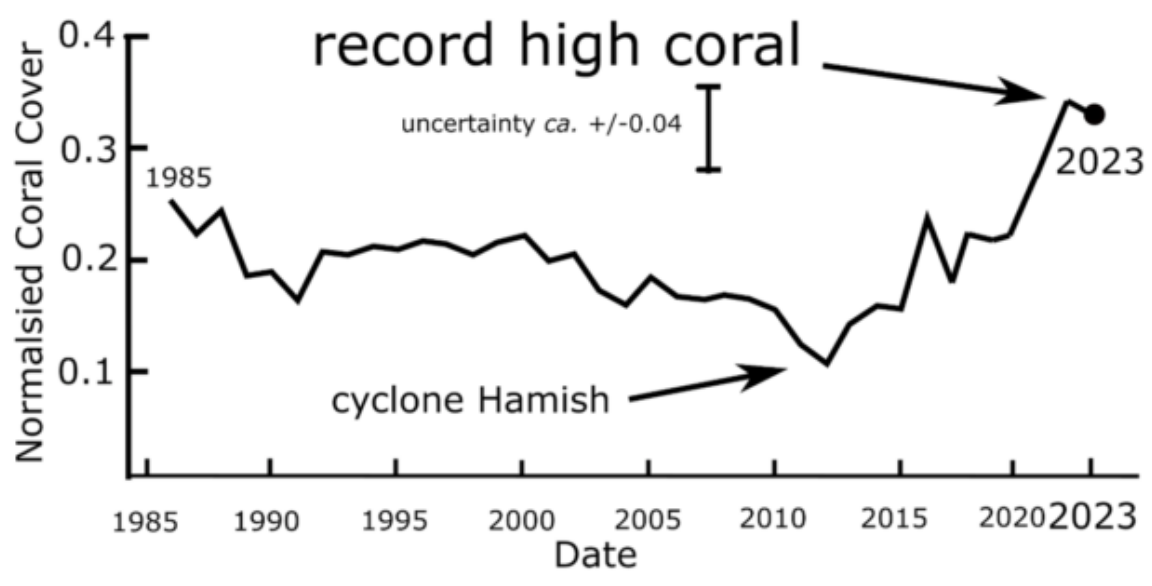
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60????????????????????

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2023??

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2022??
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??Australian Environment
Foundation??
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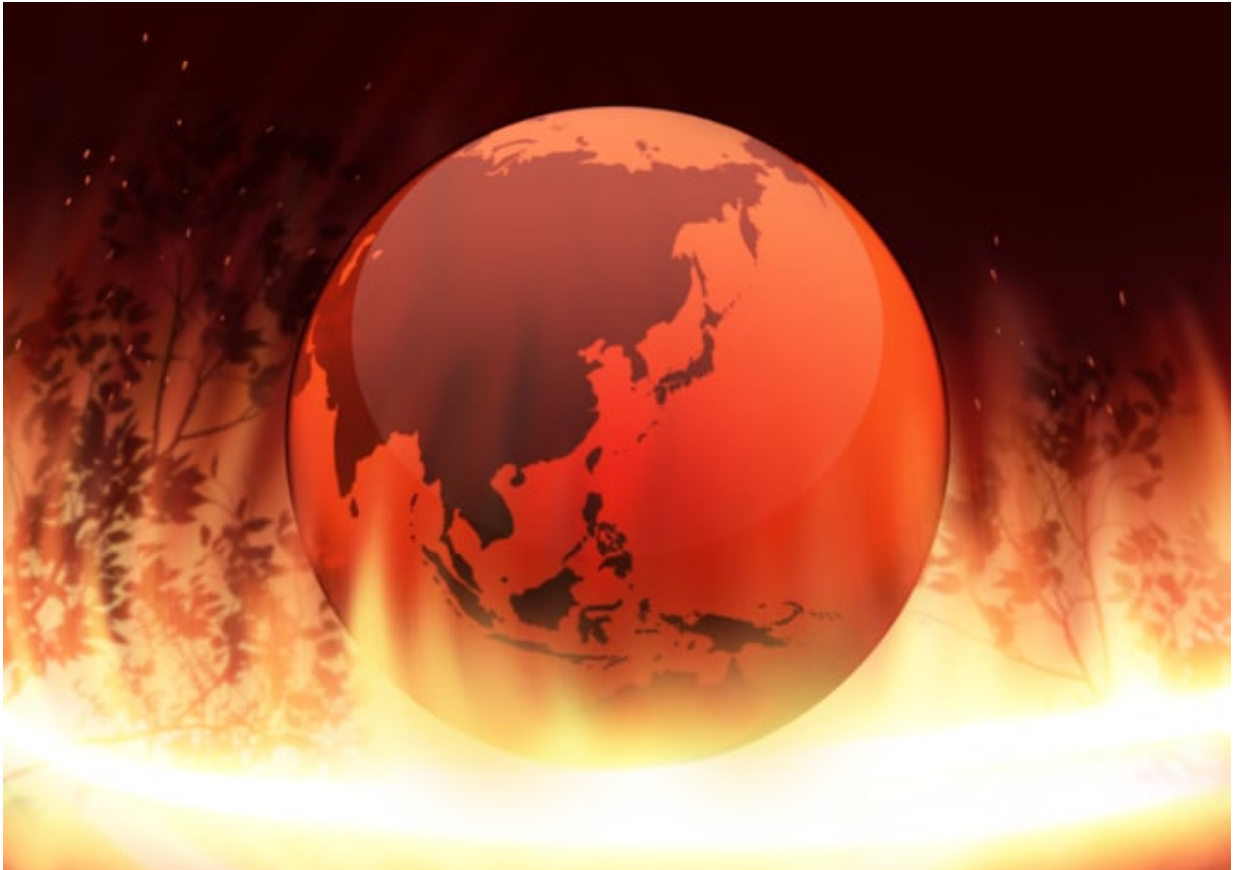
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Posted in ???, ????? | No Comments »

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?? ?? · Thursday, August 17th, 2023



Tr6/iStock

global warming global boiling

“”



2023 “”

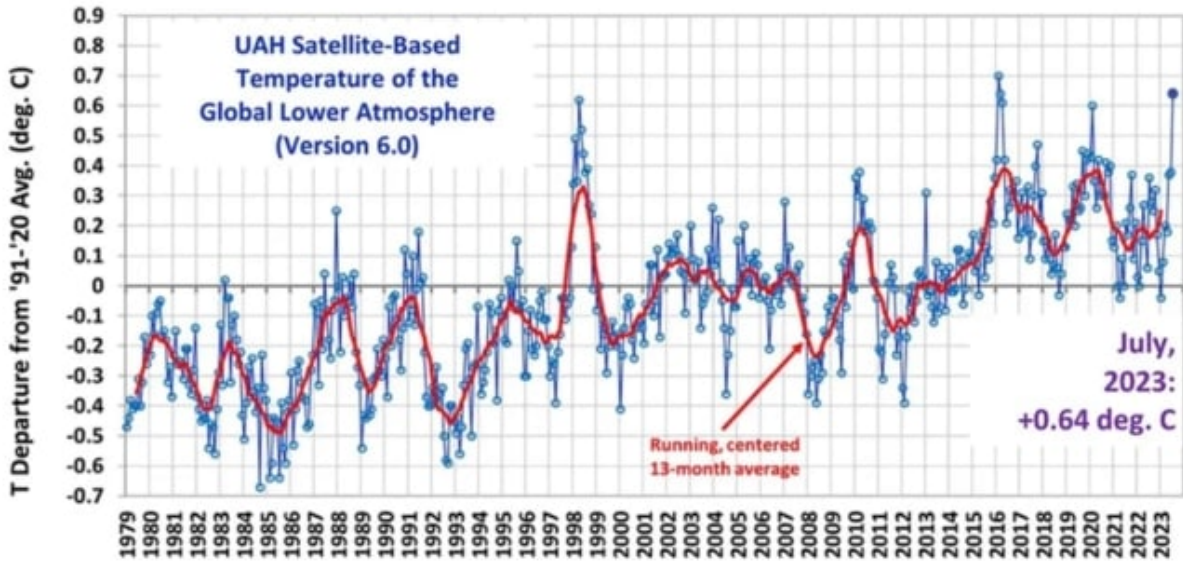
100 15 100

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

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95

CN

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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
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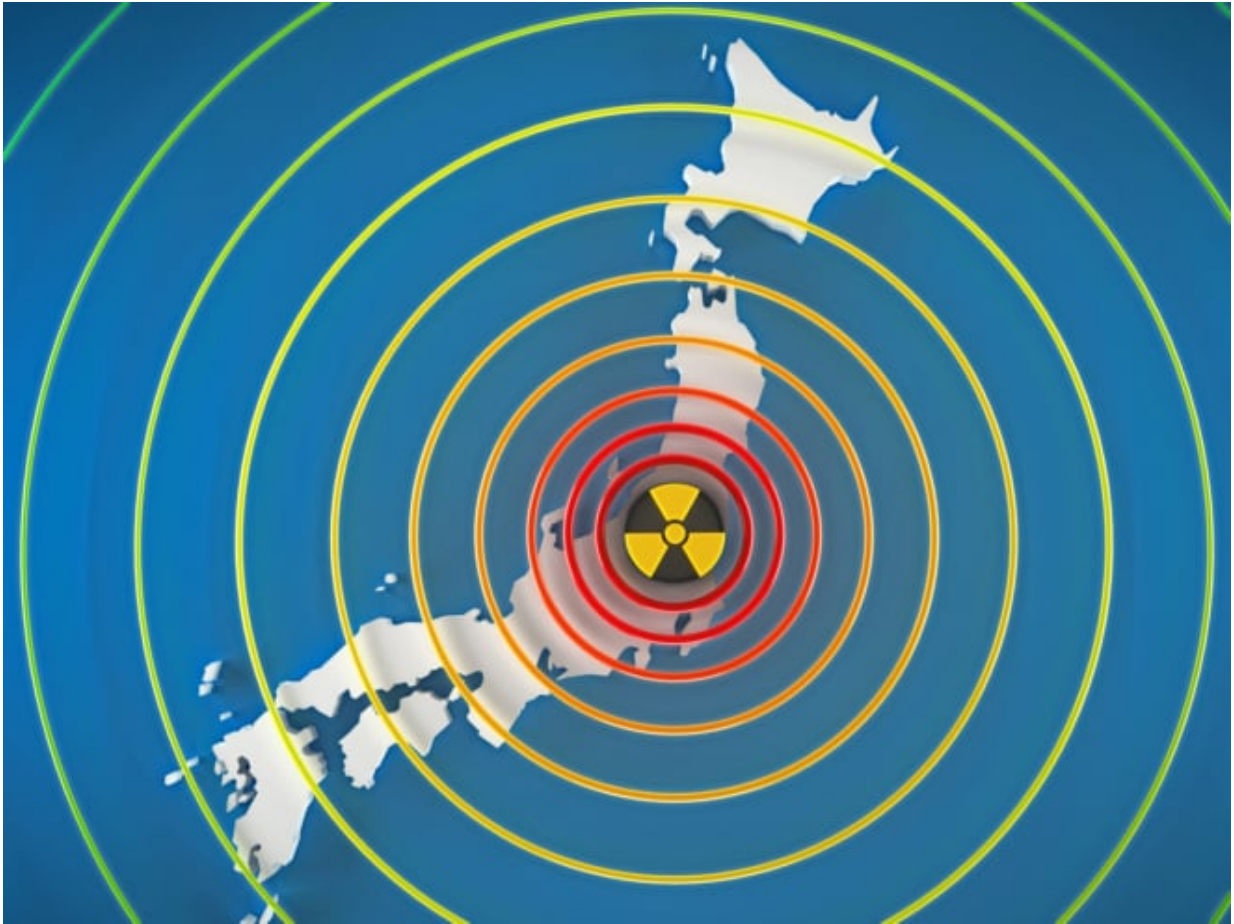
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?? ?? · Thursday, August 3rd, 2023



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



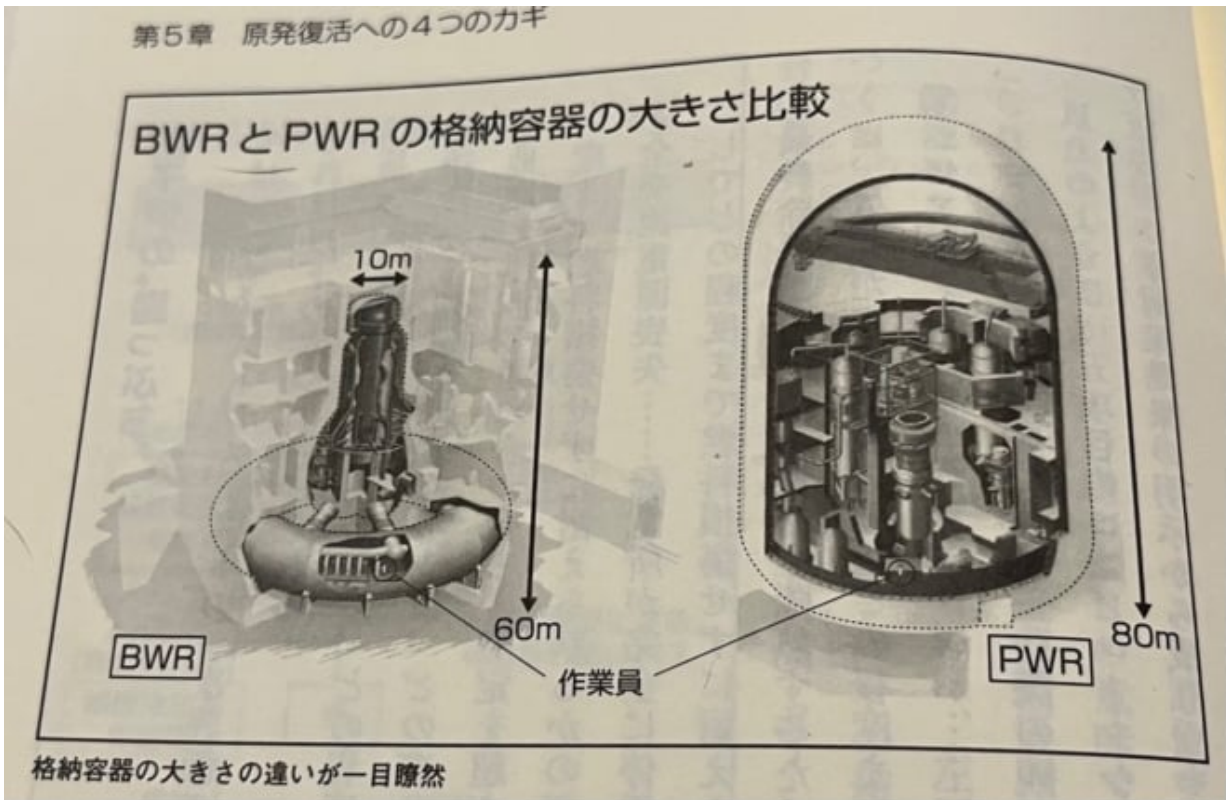
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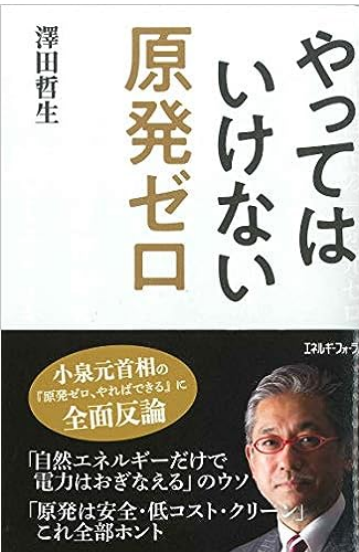
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©? japan.cnet.com

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

“????????”?????? ??????????????????
?? ??? ?? · Wednesday, August 2nd, 2023



bluejayphoto/iStock

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

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

?? ? · Monday, July 31st, 2023

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G7???

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COP27??

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G20??

G20??1.5??by or around mid century??G20??

1.5??

Posted in ????| No Comments »

IPCC AR6 “Summary” Report

?? ?? · Sunday, July 30th, 2023

2023 IPCC Summary Report

IPCC AR6 Summary Report

1.5°C GHG emissions

2040 emissions

AR6 GHG emissions

AR6-SPM Longer Report



NicoElNino/iStock

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

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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????????²²?

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??AR6????1.5????????1.7?1.8????????1.5????
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AR6????????????????????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
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
67

IPCC

AR6
2
1.5

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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???

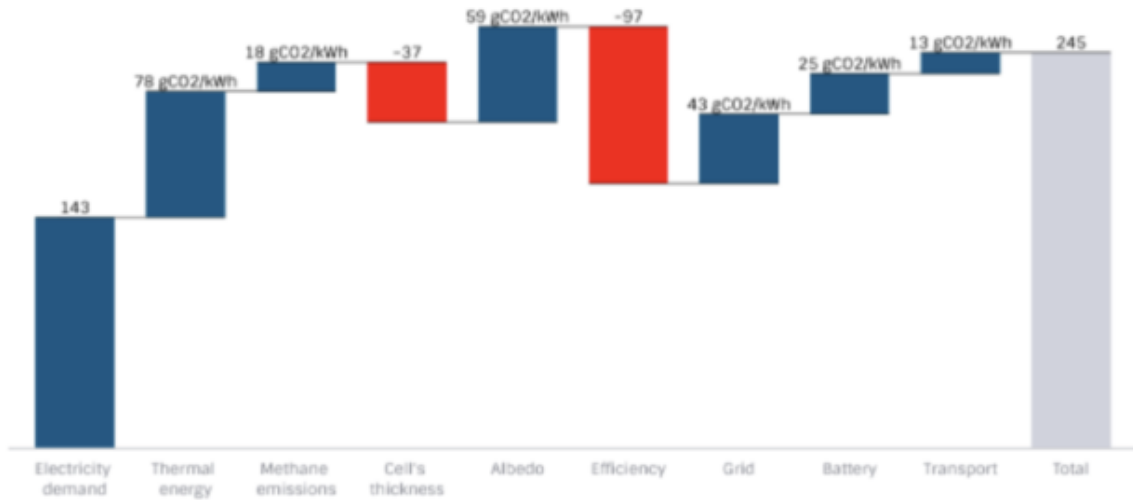
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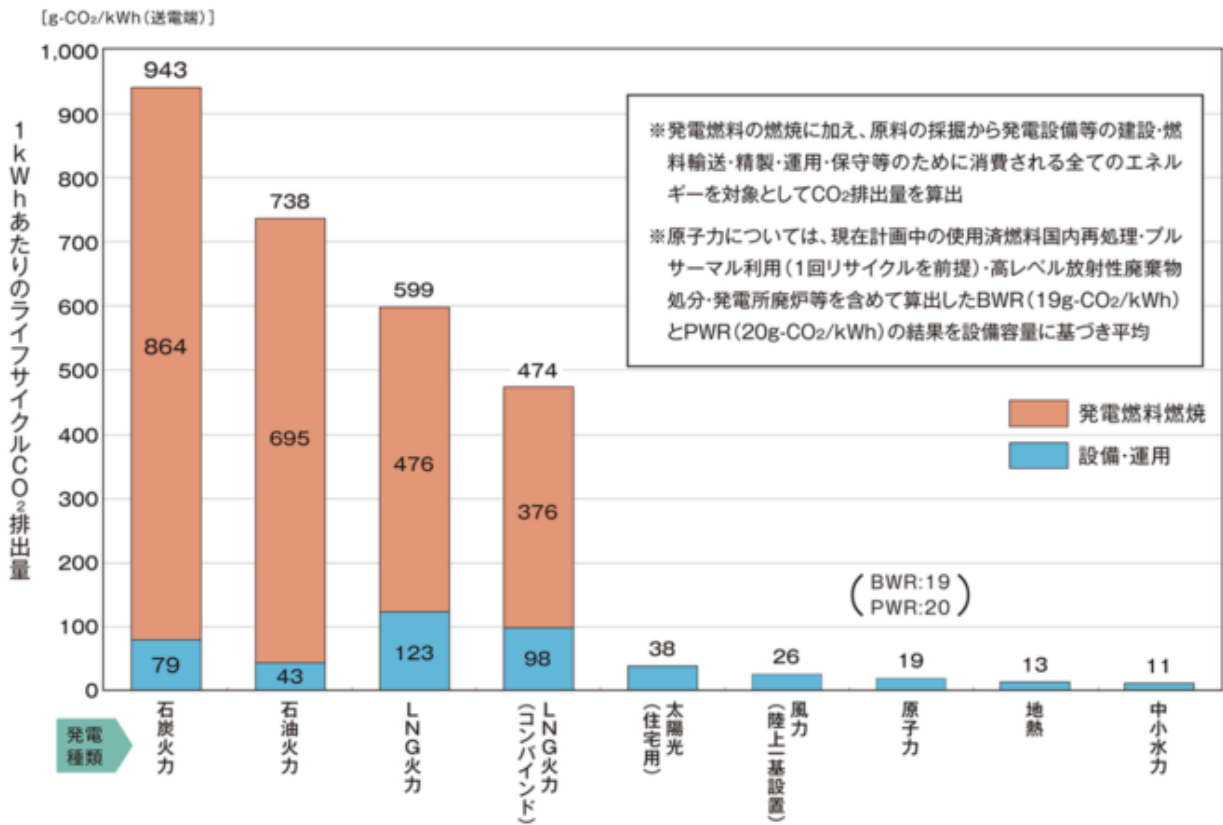
2022
Carbon intensity, Worst Scenario



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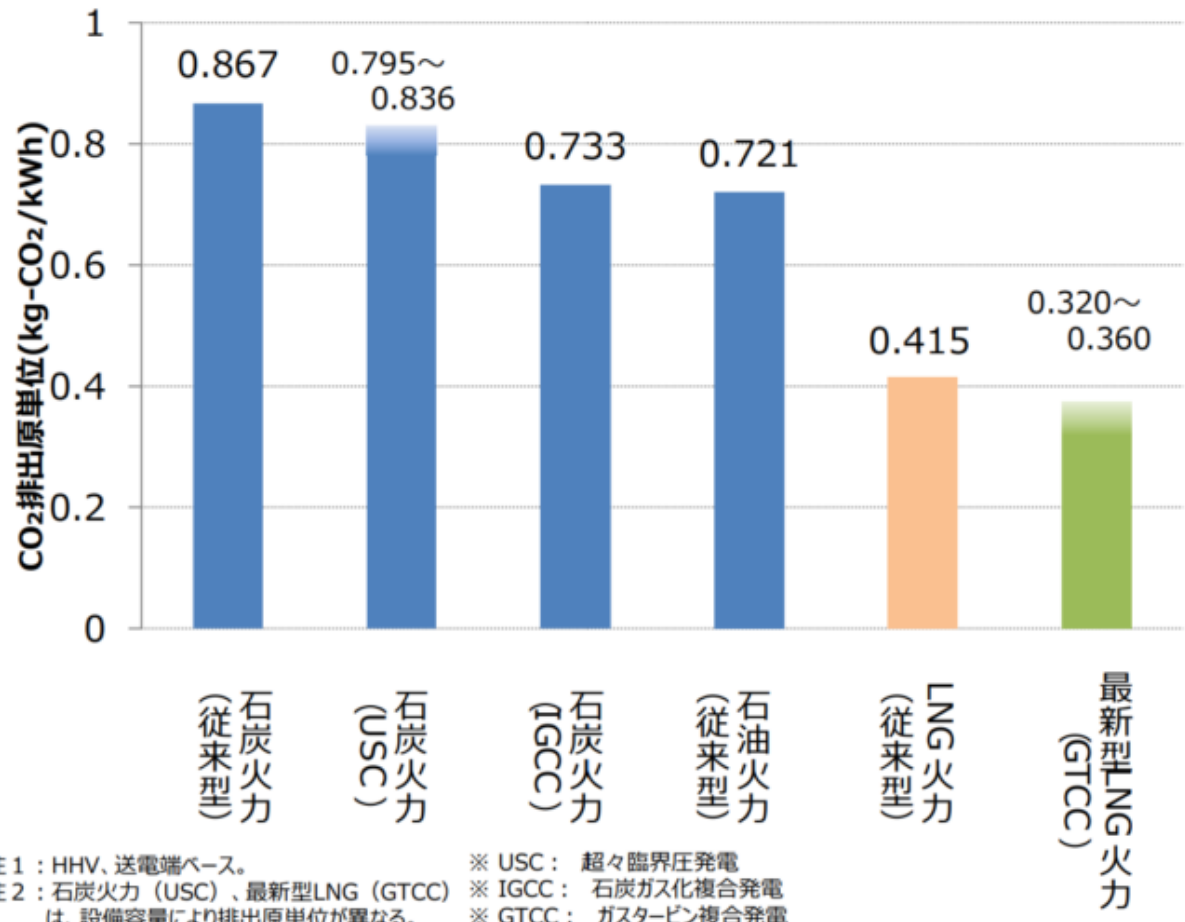
??1kWh??245??2016????????????????????????
?????kWh??38????????????2??????????



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CO2 9

1kWh 245 CO2 2022 LNG CO2 1kWh 320 360



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