

600
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7.5
3.5
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EU

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17



yudhistirama/iStock

NHK??????COP28????????????????????

COP28 ????????????????????

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??NHK????????????COP28????????????????????????????????

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28. Further recognizes the need for deep, rapid and sustained reductions in greenhouse gas emissions in line with 1.5 °C pathways and calls on Parties to contribute to the following global efforts, in a nationally determined manner, taking into account the Paris Agreement and their different national circumstances, pathways and approaches:

- (a) Tripling renewable energy capacity globally and doubling the global average annual rate of energy efficiency improvements by 2030;
- (b) Accelerating efforts towards the phase-down of unabated coal power;
- (c) Accelerating efforts globally towards net zero emission energy systems, utilizing zero- and low-carbon fuels well before or by around mid-century;
- (d) Transitioning away from fossil fuels in energy systems, in a just, orderly and equitable manner, accelerating action in this critical decade, so as to achieve net zero by 2050 in keeping with the science;

Draft decision -/CMA.5?Outcome of the first global stocktake

??????

- calls on Parties ??COP??
- contribute to the following global efforts ???
- in a nationally determined manner ???
- different national circumstances,..., in a just, orderly and equitable manner ?
??
- accelerating action in this critical decade??????2020??

??300????????????????????????????????????6??

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??2030????????1????????????????2030????????5.8-5.9????2050????????5????????????????????

67. *Highlights* the growing gap between the needs of developing country Parties, in particular those due to the increasing impacts of climate change compounded by difficult macroeconomic circumstances, and the support provided and mobilized for their efforts to implement their nationally determined contributions, highlighting that such needs are currently estimated at USD 5.8–5.9 trillion for the pre-2030 period;⁵

68. *Also highlights* that the adaptation finance needs of developing countries are estimated at USD 215–387 billion annually up until 2030, and that about USD 4.3 trillion per year needs to be invested in clean energy up until 2030, increasing thereafter to USD 5 trillion per year up until 2050, to be able to reach net zero emissions by 2050;⁶

1????1????????????150???1?????15??2030??????????????????
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????COP????????????????

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

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GEPR??? · Thursday, December 14th, 2023



deepblue4you/iStock

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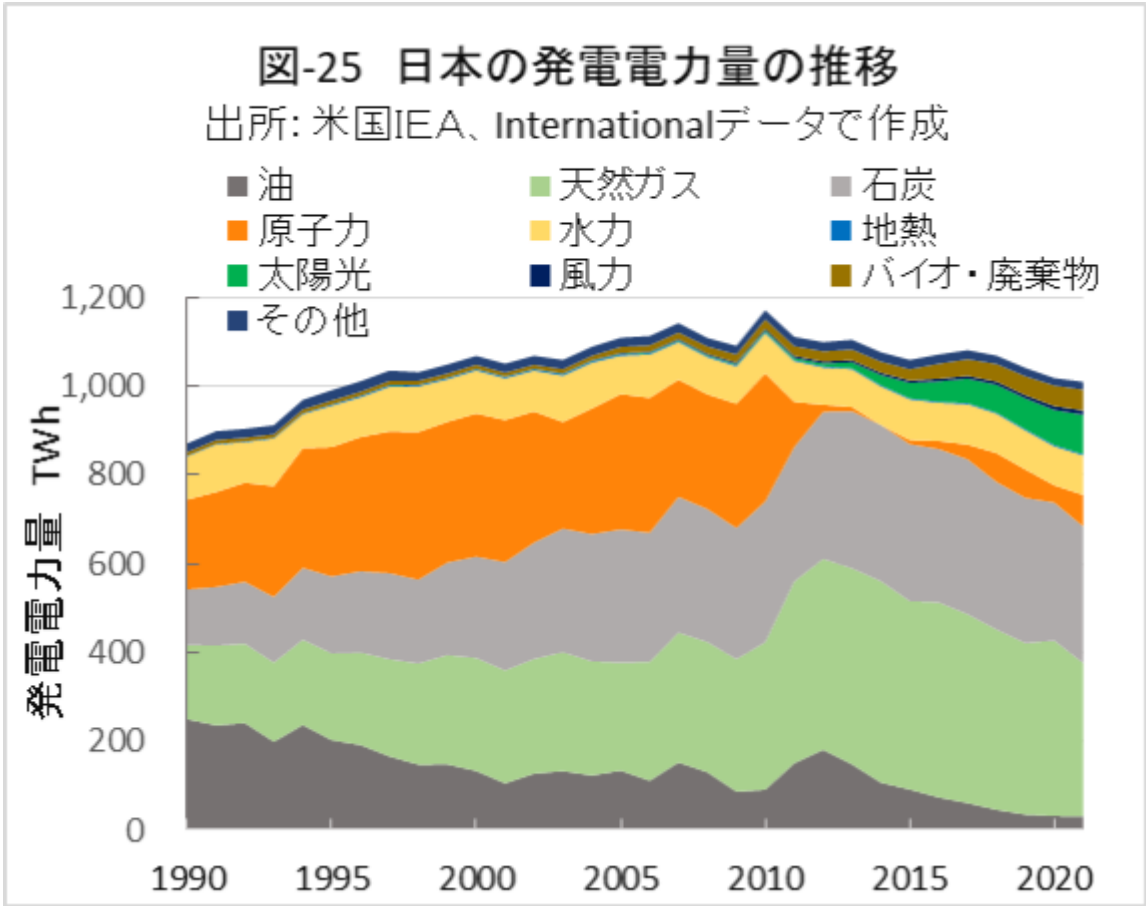
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????????????????????VRE??VR
E????????????????GHG????????????

?23??-

??EU-28??10??



2011年3月11日の東日本大震災以降、発電電力量の約25%が天然ガス(LNG)によるものとなり、

2012年7月のFIT導入以降、太陽光発電の急増により、2017年には太陽光が約25%を占めるに至りました。FITの終了後は、

再生可能エネルギー(VRE)

VREはGHG削減に有効なVREと見なされています。

VREはGHG削減に有効なVREと見なされています。

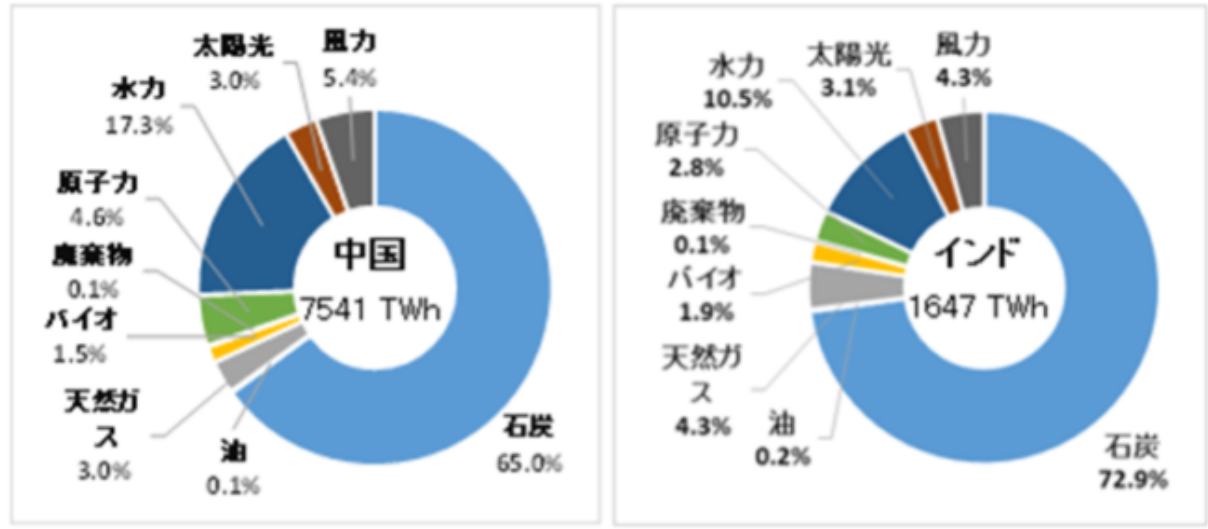
VREはGHG削減に有効なVREと見なされています。

GHG削減に有効なVREと見なされています。

GHG削減に有効なVREと見なされています。

図-26 中国とインドの電源構成 (2019年)

出所:IEA データで作成



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????GHG????2/3????????????????????2050?GHG????????????????????GHG????????????????????

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2050?GHG??

?????????GHG??VRE????????????????????27????????

????????????TES????????????????????27%??????????

図-28 グループ別 一次エネルギー供給量
(2020年) 出所: 米国eia、Internationalデータ

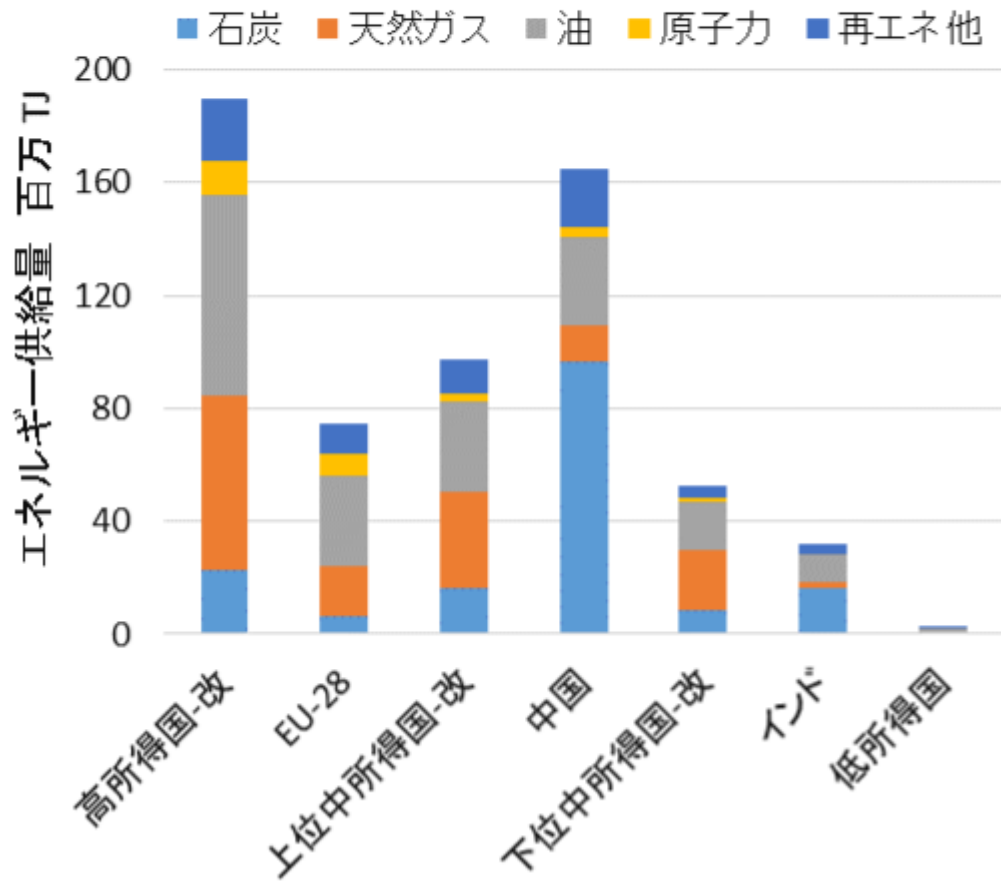
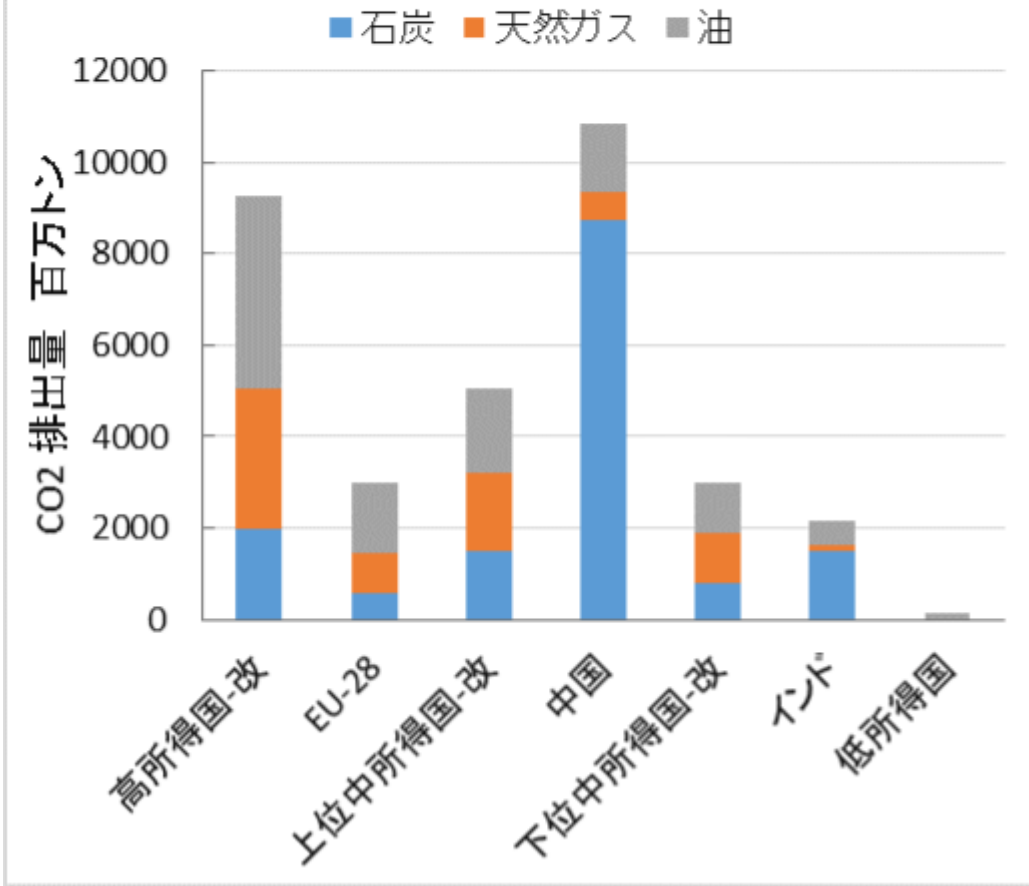


図-29 グループ別燃料燃焼CO2排出量 (2020年) 出所: 米国eia, Internationalデータ



2020年、世界のCO2排出量は52%増加し、16%減少した。

CO2排出量は0.56トンを削減した。

LCAによると、LNGはCO2排出量を0.6から0.65に削減し、35%削減した。

18%削減し、IEAによると2020年のGHG排出量は57%削減した。

70%削減し、GHG排出量を削減した。

削減した。

30%削減し、1970年からの削減率を向上させた。

削減した。

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????????????????2050?GHG????????????????????????????????????

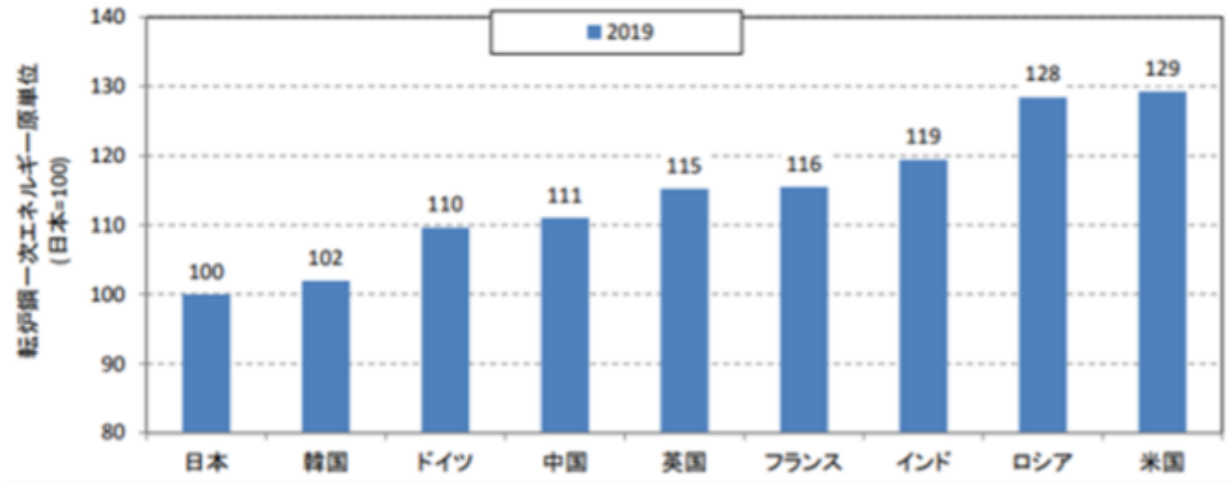
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図-30 高炉-転炉鋼の一次エネルギー原単位 (2019年)
出所：2019年時点のエネルギー原単位の推計(鉄鋼部門-転炉鋼)、RITEほか



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

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GHG????????????????????GHG????????????????????????2050????????????GHG????????????????
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GHG????????????????????????????????????EU????????GHG???60?70%????????????????????GHG?
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Posted in ??????????, ??? | No Comments »

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GEPR??? · Monday, December 11th, 2023



deepblue4you/iStock

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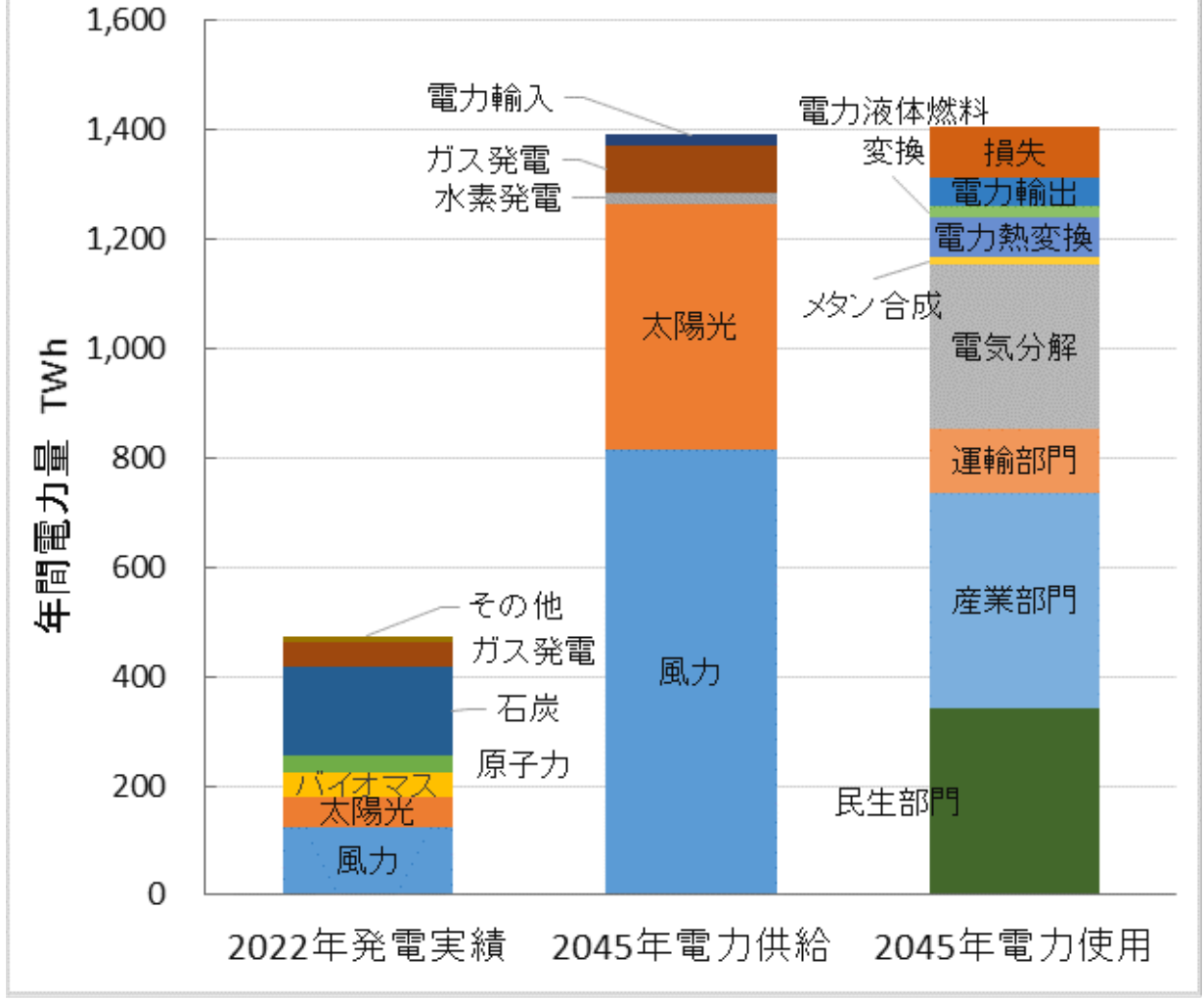
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????????????????VRE????????????????????????????????????Energy-

図-22 ドイツ2022年実績と2045年「参照」シナリオ
出所: Energy-Chartsと「参照」シナリオのデータで作成



2045??6?????4????????????????????????3?????
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??Power-to-
X??CO2????????????????????????????????????3????????????

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??30%????????????????

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1990????????????????CO2????????CCS????????????????2010????????CCS????????????????2015????????????????CCS
????????GHG????????????????????????????????

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VRE????????????????????VRE????????????????????????????????????

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

??2050????????????????????????????????

?? ?? · Sunday, December 10th, 2023

????COP28??



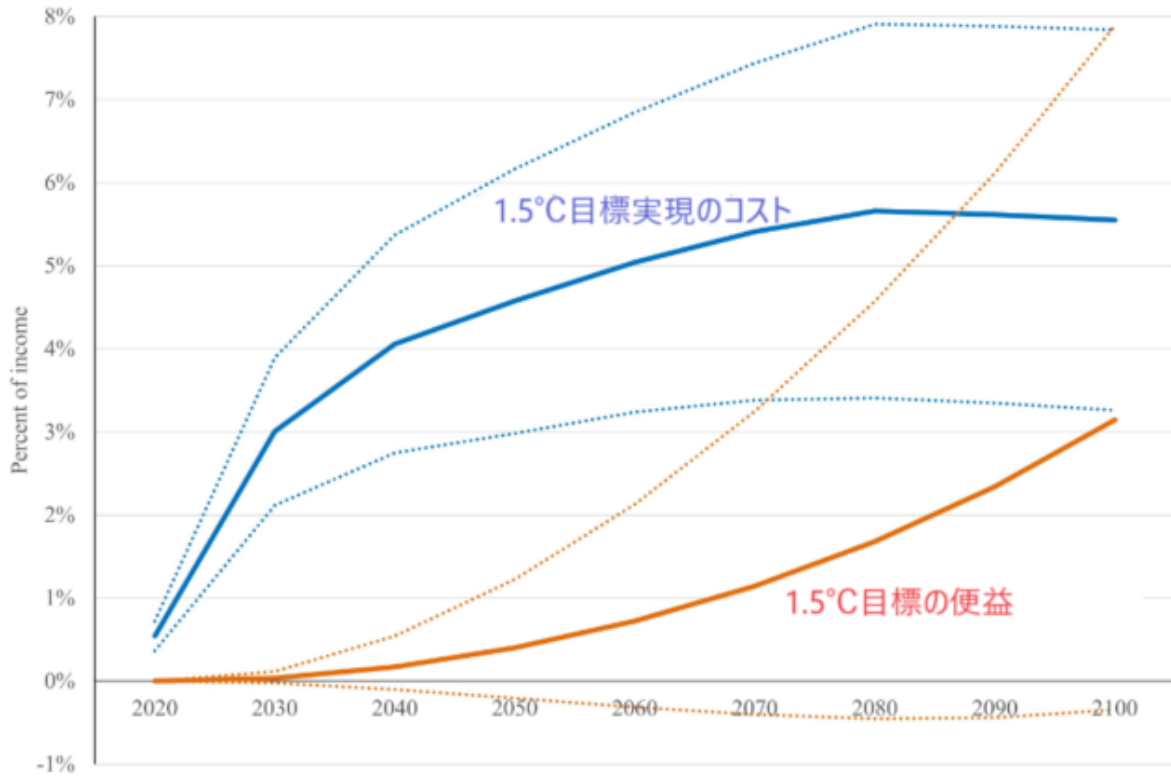
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1.5????????????2?10?

??Richard
S.Tol????????????????????61????????39??

????????1????2050????1.5????????????????GDP????4.5????????????????0.5????2100????5.5???
????????3.1?????



1.5°C (Tol)

IPCC SSP5-8.5 2100

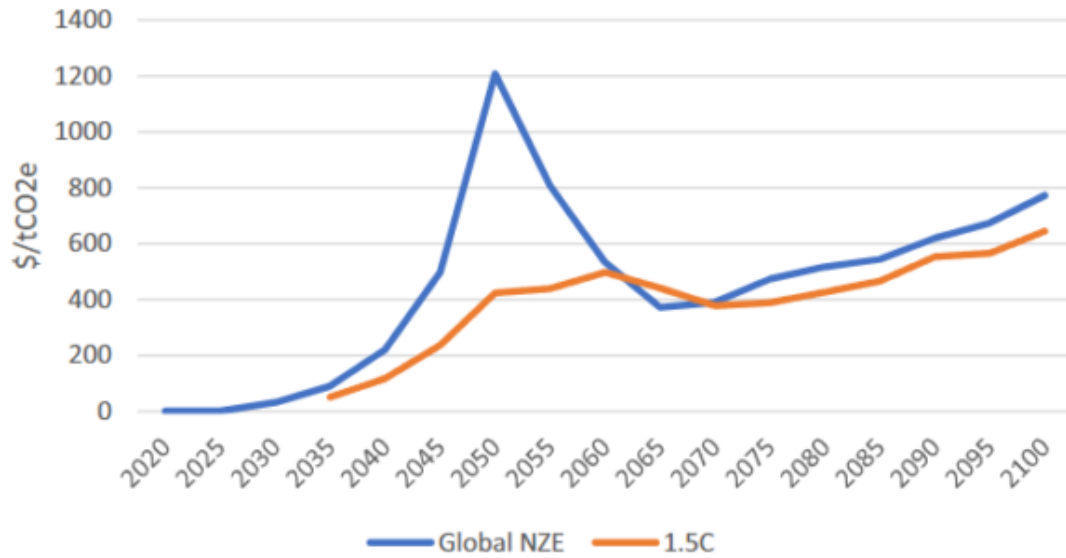
1.5°C

2100

1200

Jennifer Morris et al. 2050 CO2 1200

Global Emissions Price



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5????2050????????????????????????????????????

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

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wildpixel/iStock

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IPCC????????????????????????CO2????????????????2100????????????????????????????????????
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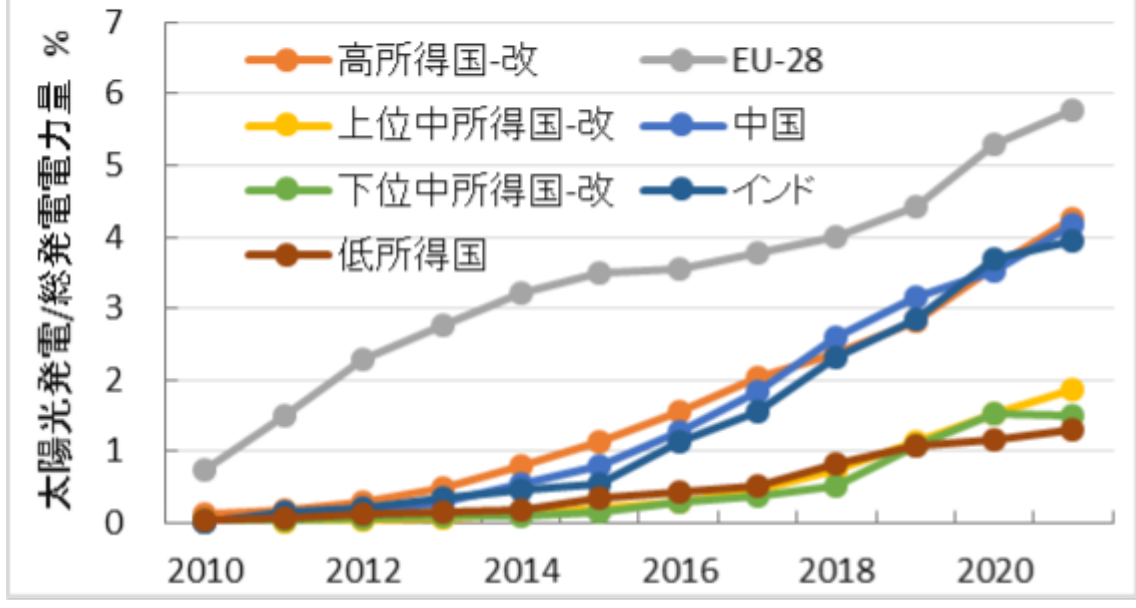
Posted in ???, ????? | No Comments »

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GEPR??? · Saturday, December 9th, 2023



図-15 総発電量に対する太陽光発電比率の推移
出所: eiaデータで作成



Variable Renewable Energy, VRE GHG VRE GHG EU-28 GHG

VRE kW VRE kW VRE VRE

VRE EU-28 VRE VRE

VRE VRE VRE

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

VRE Energy-Charts

Energy-Charts?

Energy-Charts ISE

30

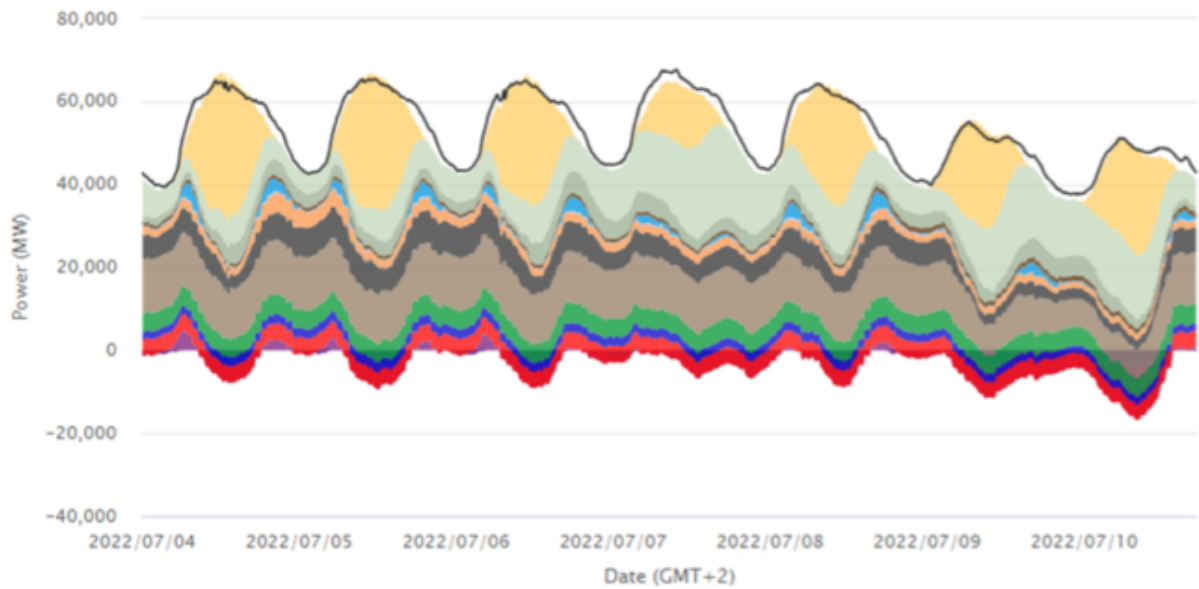
CO2

Energy-

Charts????????????2022??27??74??10??
??

Public net electricity generation in Germany in week 27 2022

Energetically corrected values



- Hydro pumped storage consumption
- Nuclear
- Biomass
- Fossil hard coal
- Fossil gas
- Hydro water reservoir
- Others
- Wind offshore
- Solar
- Residual load
- Renewable share of load
- Import Balance
- Hydro Run-of-River
- Fossil brown coal / lignite
- Fossil oil
- Geothermal
- Hydro pumped storage
- Waste
- Wind onshore
- Load
- Renewable share of generation
- Day Ahead Auction (DE-LU)

Energy-Charts.info - last update: 2023/06/02 18:13 GMT+2

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?2?2022????????????????????????????????????1?kWh?1000TWh????????????????????????????????????
????????????????25%????????12%????????

表-2 ドイツの電源構成 (2022年公共正味発電電力量)

電源	正味発電電力量		正味発電容量 GW	設備利用率 %
	TWh	%		
太陽光	57.6	11.7	64.16	10.2
陸上風力	98.2	20.0	56.91	19.7
洋上風力	24.8	5.1	7.89	35.9
非再エネ廃棄物	5.3	1.1		
再エネ廃棄物	4.6	0.9		
その他	0.6	0.1		
貯水式水力	1.1	0.2		
地熱	0.2	0.0		
ガス火力	45.2	9.2	33.84	15.2
油火力	1.0	0.2	4.77	2.4
瀝青炭火力	55.4	11.3	19.06	33.2
褐炭火力	105.9	21.6	18.69	64.7
バイオマス	41.9	8.5	8.91	53.7
流れ込み式水力	15.8	3.2	4.94	36.5
原子力	32.8	6.7	4.06	92.2
年間正味発電電力量	490.4	100.0		
電力輸出入(輸入-輸出)	-27.6	-5.6		
揚水発電発電電力量	6.0	1.2		
揚水発電ポンプ動力量	-8.1	-1.7		
年間電力負荷量	482.3			
年平均1日発電電力量	1,344.0	GWh		
年平均発電量	56.0	GW		

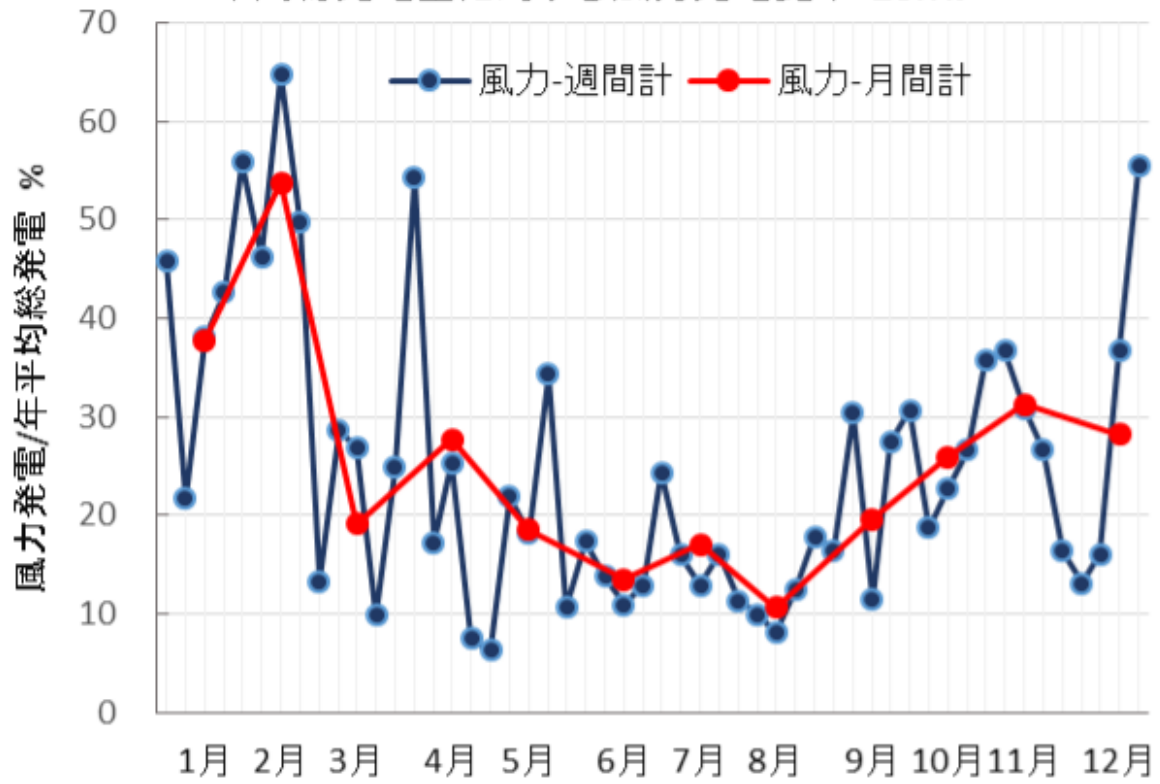
(注記)
 1) 公共正味発電電力量は、自家発を含まない、電力ユーザーのコンセントから出て消費される値。
 2) 太陽光、風力の発電容量は年間平均値、その他は2022年末の値。
 3) 電力負荷量は電力系統に投入された値。

16% 2022年 100%
 6% 65% 25% 10% 60%
 0.3 2.6
 1
 1

図-16 ドイツの風力発電電力量の変動(2022年)

出所: Energy-Chartsのデータで作成

年間総発電量に対する風力発電比率: 25.1%



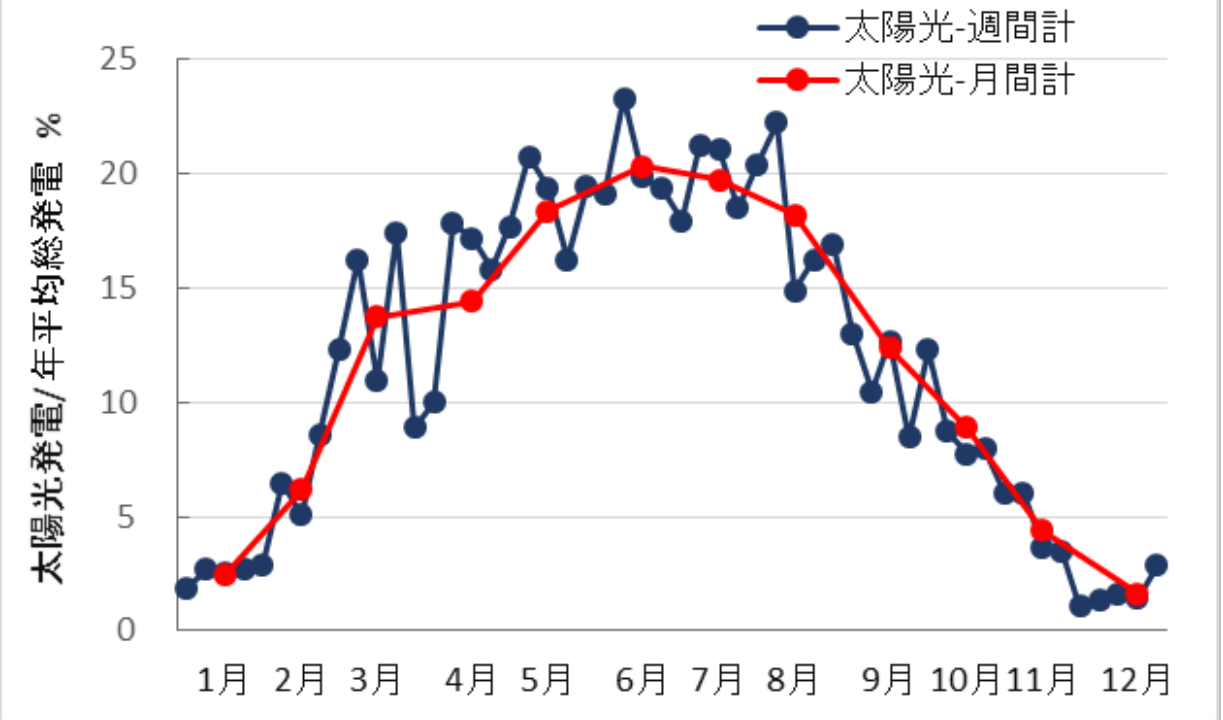
17%? 12%? 23%? 0.1? 2.0????????

0.14????????? 1.7????????

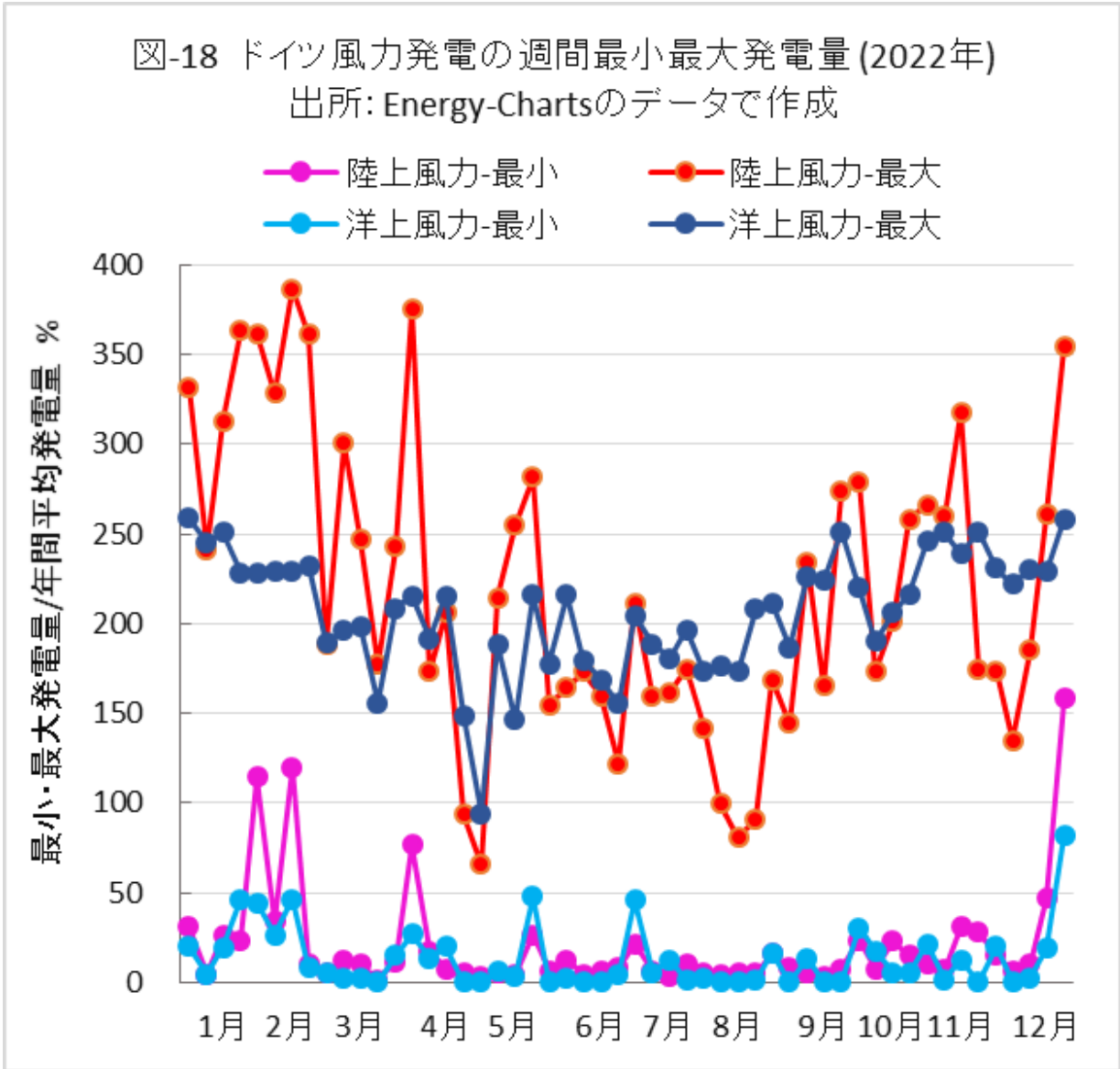
図-17 ドイツの太陽光発電電力量の変動(2022年)

出所: Energy-Chartsのデータで作成

年間総発電量に対する太陽光発電比率: **11.7%**



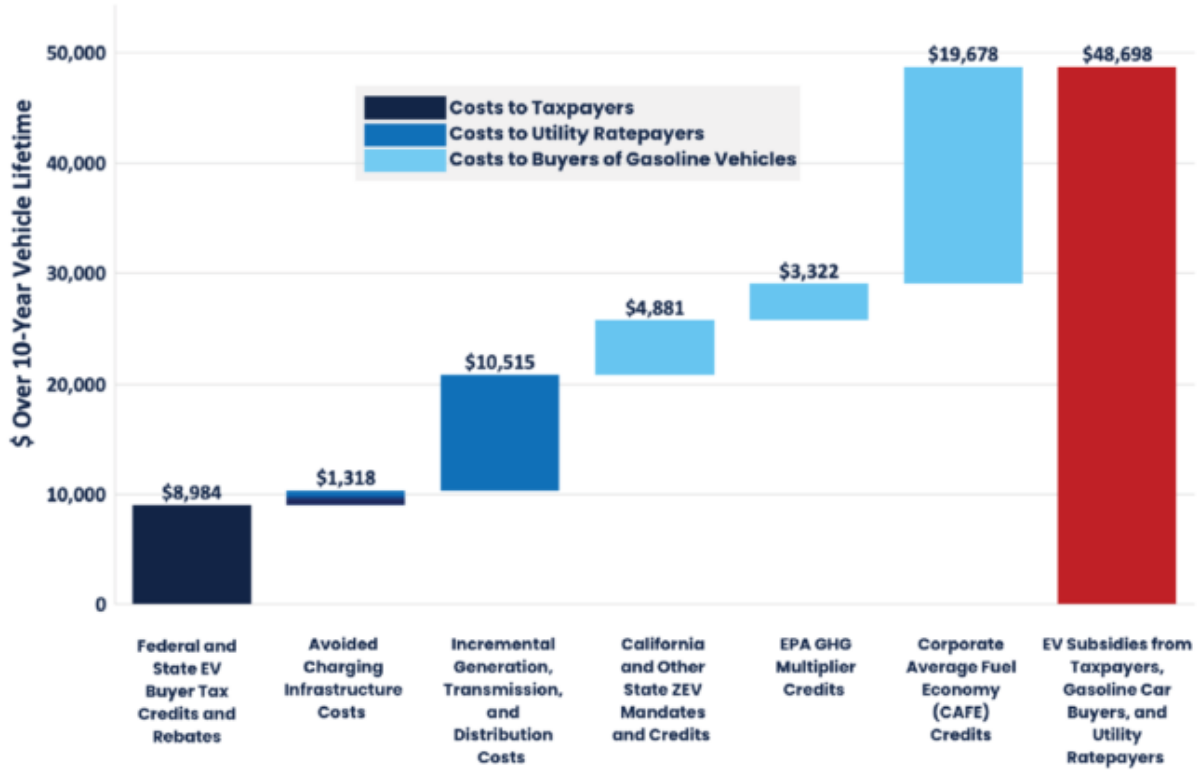
18%
10% 4%



?19??1????6?????????????
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- ?????????????????????????????????8984????1318????????????
- ?????????????????????????????????10515????1318????????????
- ???4881+3322+19678= 27881????????

Figure 1(a)
Subsidies and Regulatory Credits Accrued by a MY2021 Electric Vehicle Over 10 Years



????????8984??

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

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

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?? ?? · Thursday, December 7th, 2023



alashi/iStock

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??2023?12?2???????????



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GX??CO2????????????????
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2020?6???CO2?2020?6?17?CO2??
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Posted in ??????????, ??? | No Comments »

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?? ?? · Thursday, December 7th, 2023



HunterBliss/iStock

1. IPCC?????

IPCC?CO2????????Princeton????????1??????1967??3??????1975??????????1979??MIT??????
?R. Newell ??????????????

????DOE??1979????????????????????????????????????CO2????????????????????????²¹?R.
Newell????????????R. Cess????????????Lawrence Livermore????????????R.
Newell????????????????

1986????????????2??1988????????????????????????????????????IPCC????????????????
????????????CO2??

??1990??Hadley????????????????CO2????????????????????????CO2????????????
????CO2????????????????????????

Hadley?????IPCC Working
Group1?????IPCC??R.
Courtney????????????

R. Courtney, ” Global Warming : How It All Began ”,(1999)

????CO2????????????fake science????????R. Newell????????IPCC????????R.
Cess????CO2????????S. Schneider?J. Hansen? M. Schlesinger?T.
Wigley????????????

R.
Cess????????????????CO2?300ppm??600ppm????????????3????????
????????????2?????1.5????????

?????1????CO2????????????????????????????????????2005????????
????????????CO2?????2????????????2006????????

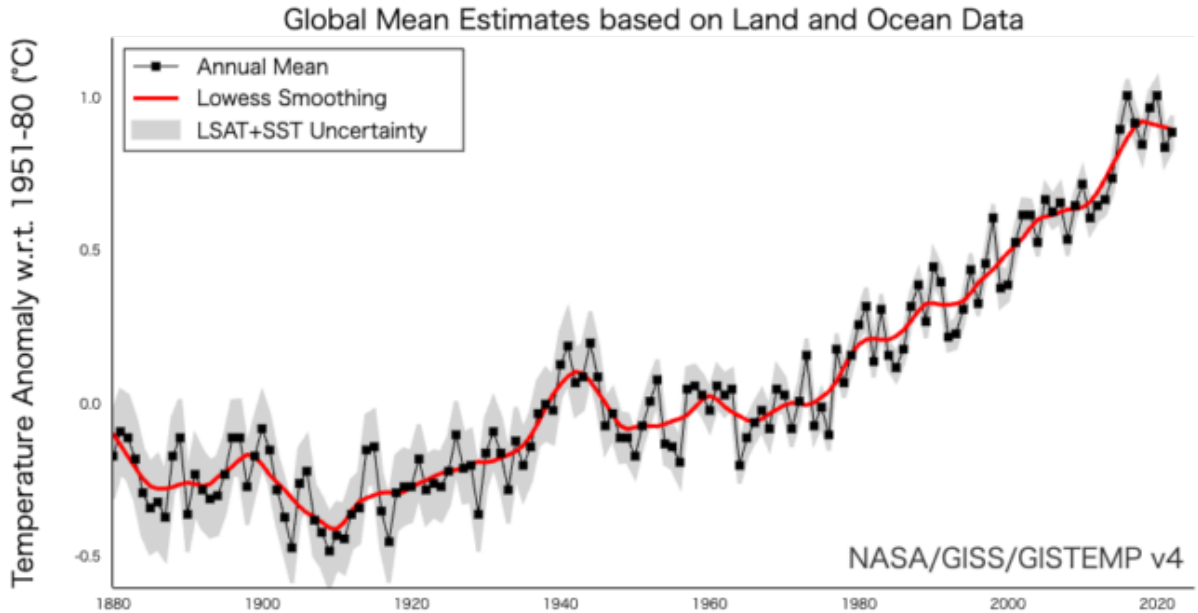
????????????????????????Green New Deal??Clean Power
Plan????2015????????EV????????2050?Net
Zero????????2020?10????2050?Carbon Neutral????

2. ?????????????

CO2????????????NASA GISS????IPCC?WMO?NOAA????????NASA
GISS?Director?1981-2013????J. Hansen????G. Schmidt????

J.
Hansen?1988????????????99?CO2????????

<https://realclimatescience.com/overwhelming-evidence-of-collusion/>

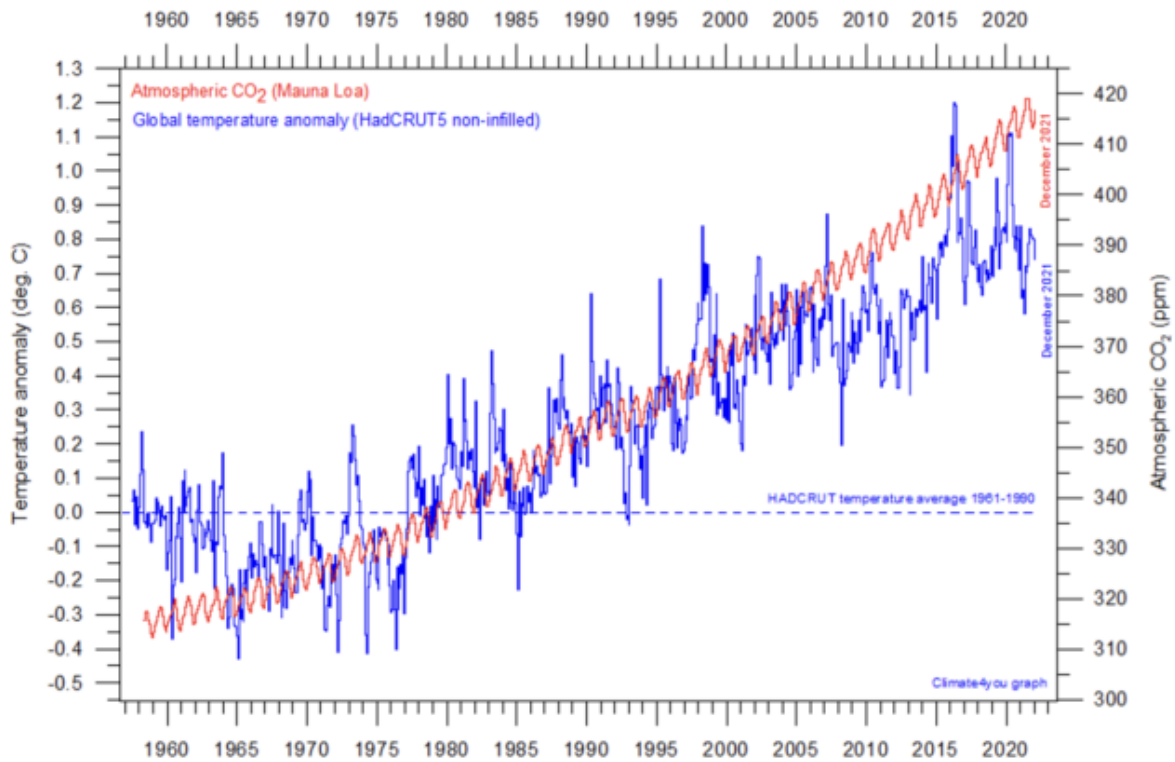


Data.GISS: GISS Surface Temperature Analysis (GISTEMP v4) (nasa.gov)

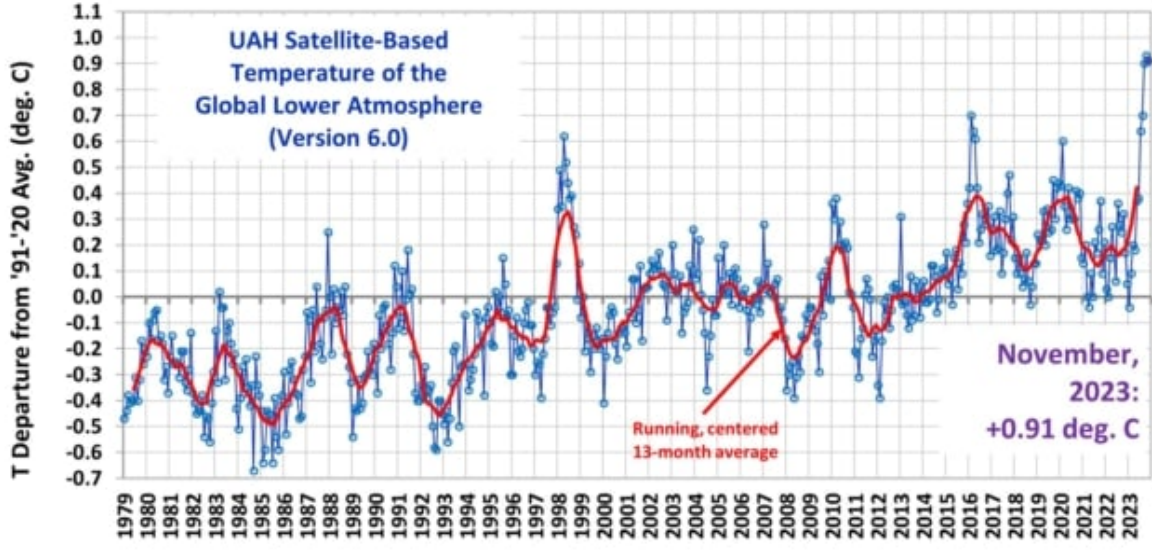
?? ? N A S A

GISS?????????????????????HadCRUT5?UAH?????????????????????CO2?????????????????2023?????

?????El Nino?????????????????????



<https://www.climate4you.com/>



<https://www.drroyspencer.com/latest-global-temperatures/>

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????????????????????CO2????????????????????CO2????????????????????600????????????????????CO
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 ?????????2016?9??24-53??



Newton Special

熱波、大干ばつ、集中豪雨 —— 世界を襲う気象災害
異常気象と地球温暖化の脅威

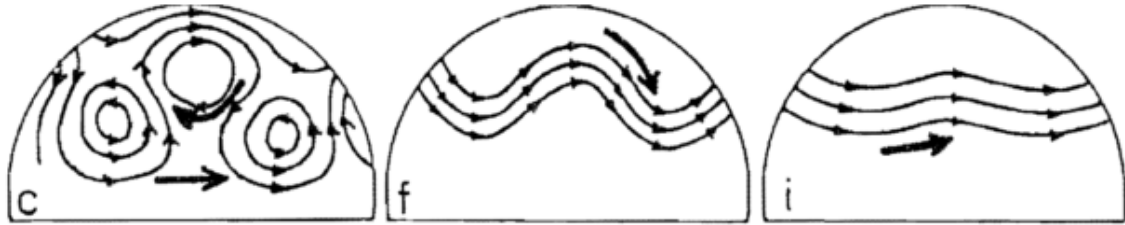
協力 江守正多 / 木本昌秀 / 塩塚秀夫 / 坪木和久 / 森 正人 / 渡部雅浩
 執筆 宮内 諭 (編集部)

現在、地球は過去に例を見ないペースで「温暖化」が進んでいる。異常気象と地球温暖化はどのように関与しあっているのだろうか。そして、今後、地球環境はどのように変化していくと考えられているのだろうか。

Amazonでのご購入はこちら Amazonで買う

Newton ????????

?????????????????Bucha??



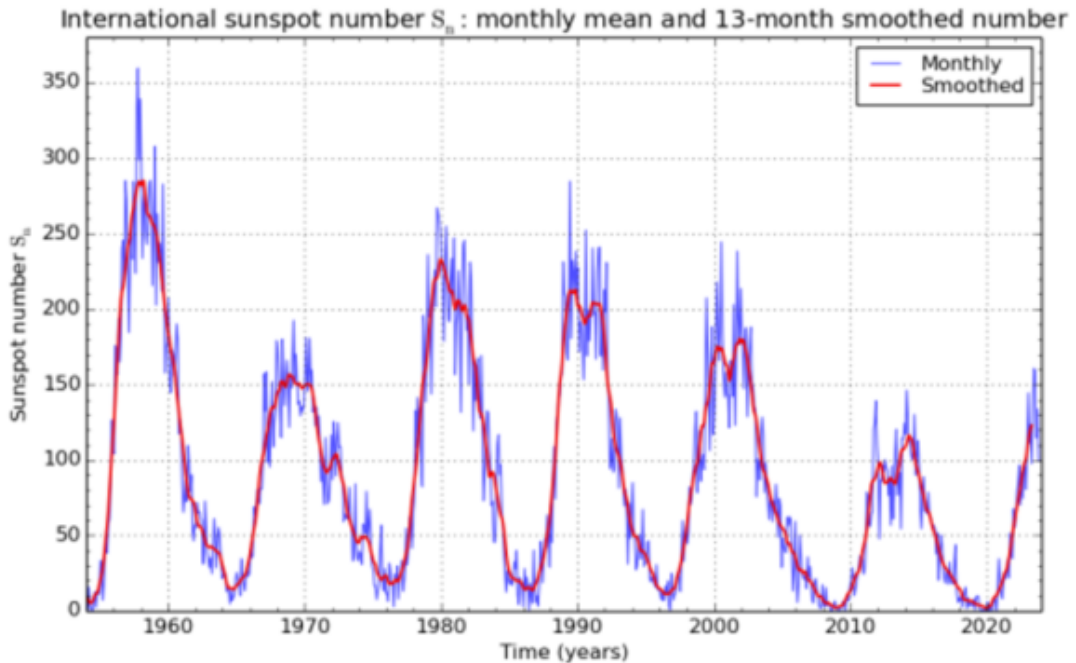
太陽活動低い
偏西風蛇行大
異常気象多い

太陽活動中位
偏西風蛇行中
異常気象中位

太陽活動高い
偏西風蛇行小
異常気象少ない

???V. Bucha, Annales Geophysicae, Vol.6, 513-524 (1988)

???SIDC????????????????cycle20?1964-1976??cycle24,25?2008-????????????????



SILSO graphics (<http://sidc.be/silso>) Royal Observatory of Belgium 2023 November 1

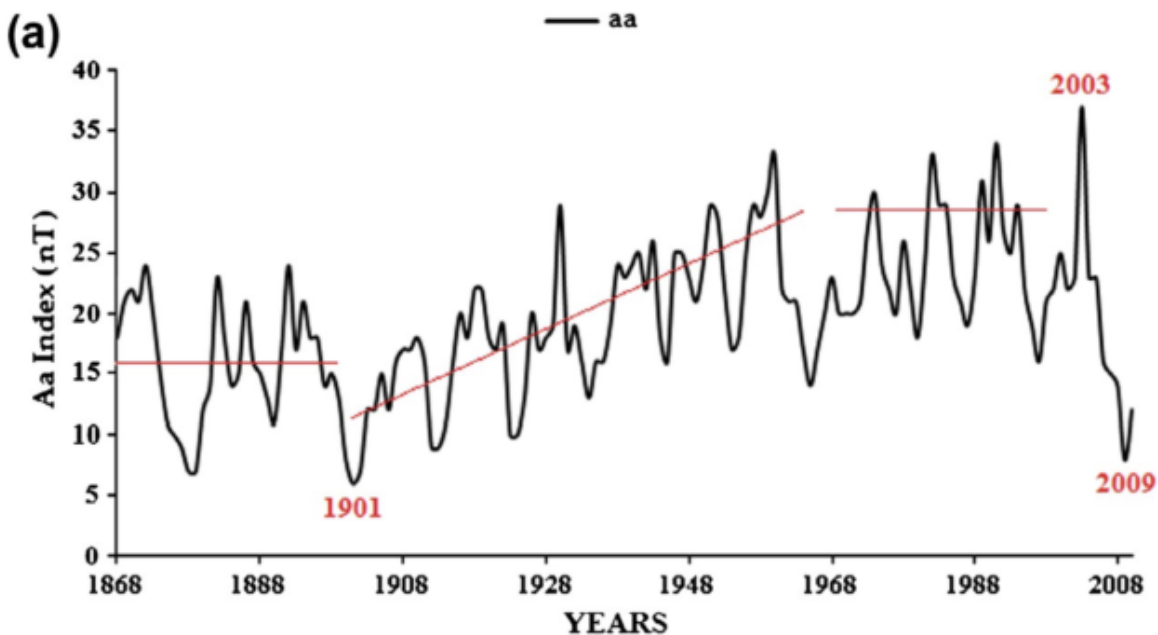
????????????????fake

science??44???????

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- 2006??18???
- 1963??38???
- 1918?????
- 1877??????????25cm???
- 1833????1m???

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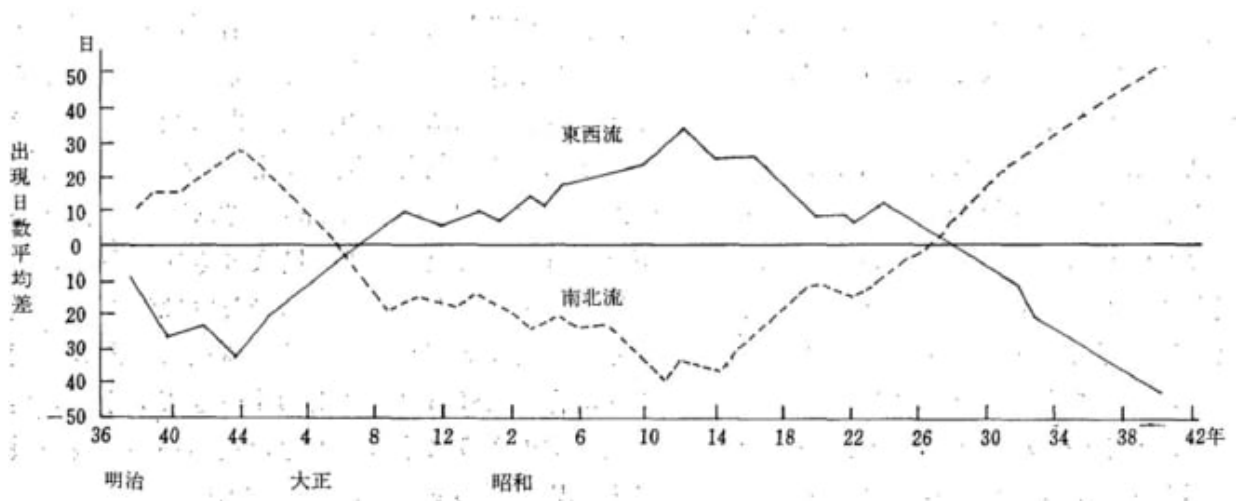


?????Zebro, J-L et al., Journal of Adavanced Research (2013),4, 265-274

1300?1918?	???	???????????
1919?1962?	???????	???????????
1963?1976?	???????	???????????
1977?2005?	???????	???????????
2006???	?????	???????????

????????????????????1951????????????1910?2000????????????????1960?1980????????????????
 ???1975????????????????????Bucha??????
 ???

??1918????????1952???
 ?cycle20????????????????????????????



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????????????????1963??38??

1963?	38?????????
1964?	????????????????
1965?	?????????9?100?????
1966?	????????????????
1967?	??????
1968?	?????????????????????????10??
1968??1969?	????????????1969?3??
1969?	?????????100?????????2000??
1969?	?????????6-8000??
1971?	1??????3????????100??
1972?	????????????????????????
1973?	????????????
1973?	????????????????????????????250?????????????????????????????????9?????

?????????????cycle20????????????38?????????????????cycle24,25?????????????18?????????????
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IPCC?????1988????1977-2005?????????????????????????????????????2000???Independent???CO2?
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?????????????????2006??2005/12-2006/2?????????18????????????????????????????????????
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2006??	?????18???????????
2010??	?????????
2010??	????????????????????????????????
2012??	????????????????
2013??	?????
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2014??	????????????????????????????
2015??	????????????
2016?	?????
2017??	?????????????
2017??	?????????????????
2018??	????????????????????

2019??	??????????
2019???2020?2?	????????????????
2021??	????????????
2021??	??
2022?1?	?????????50.7??
2022??	????????????????????????????????
2023??	??????????
2023??	????????????????????????

4. ??

????????1967,1975????CO2????????R. Newell????????1979????

CO₂????1979????

???IPCC????CO2??
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??EV????EV????50????1??CO2?
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COP28????CO2??
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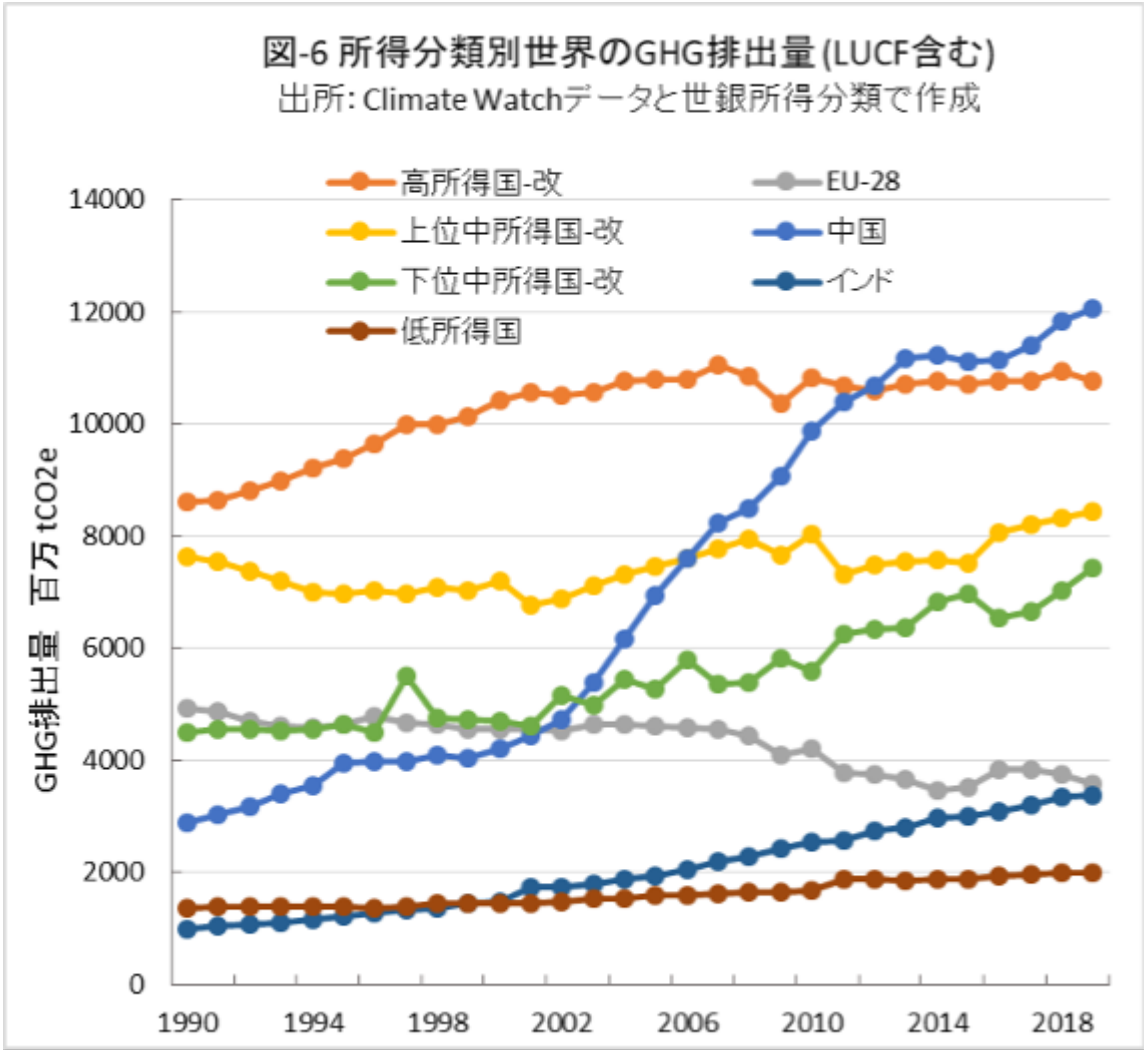
?????1??J-
POWER????????BBC????????????????????????????????????
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?1?

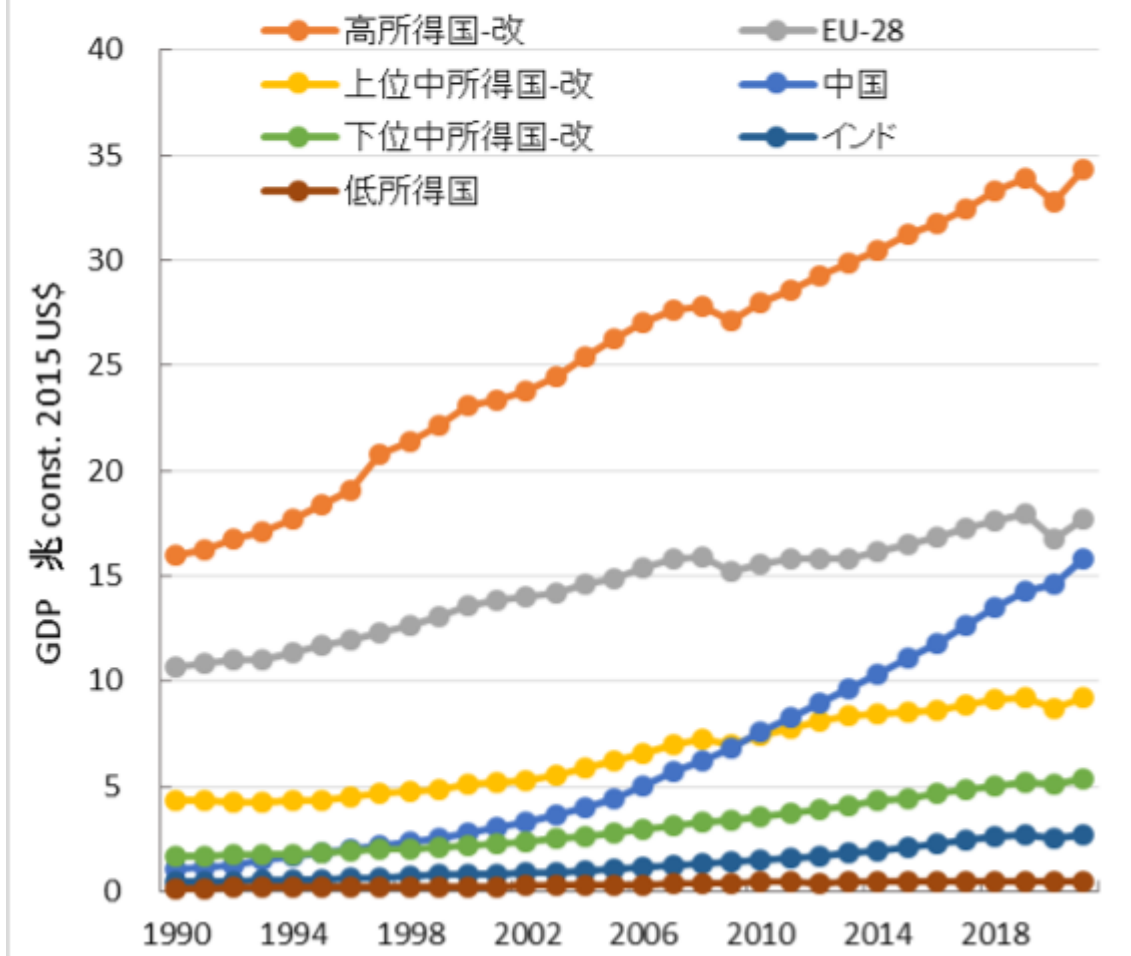
1985????DOE???Lawrence Livermore????
DOE Report: PROJECTING THE CLIMATIC EFFECTS OF INCREASING CARBON DIOXIDE (1985)

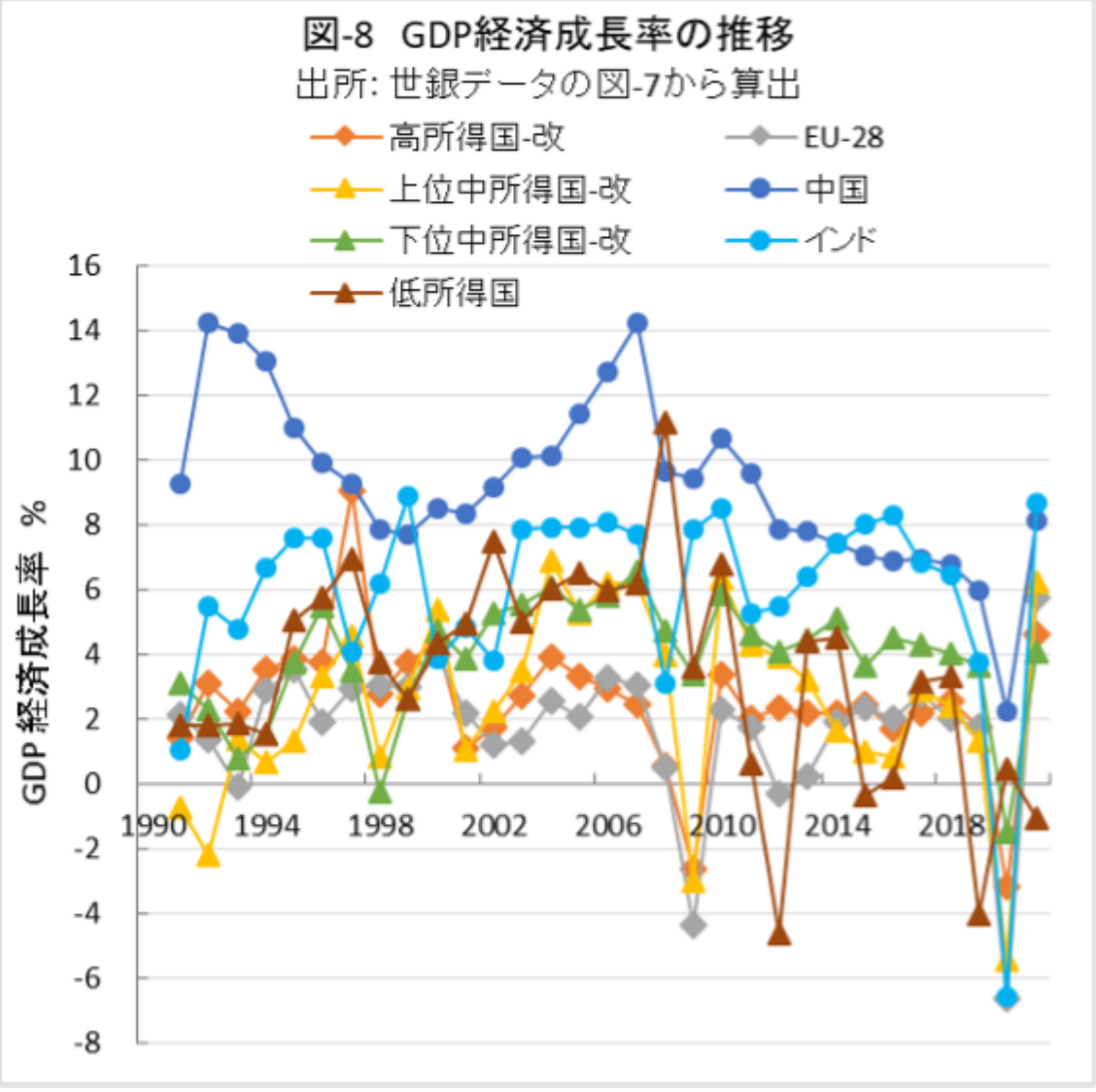
1990????R. Newell????H. W. Ellsaesser??
W. Ellsaesser, A different view of the climatic effect of CO₂-Updated*, Atmosfera (1990), 3, pp. 3-29.



????????GDP????8??GDP????????GDP??
?

図-7 所得分類別実質GDPの推移
(constant 2015 US\$)
出所: 世銀データで作成





??-
 ??EU-28????????2008????????????????3?4%????????????2%????????????-
 ??GHG????????????????????????????????????EU-28?GHG????????????????
 ??????????????

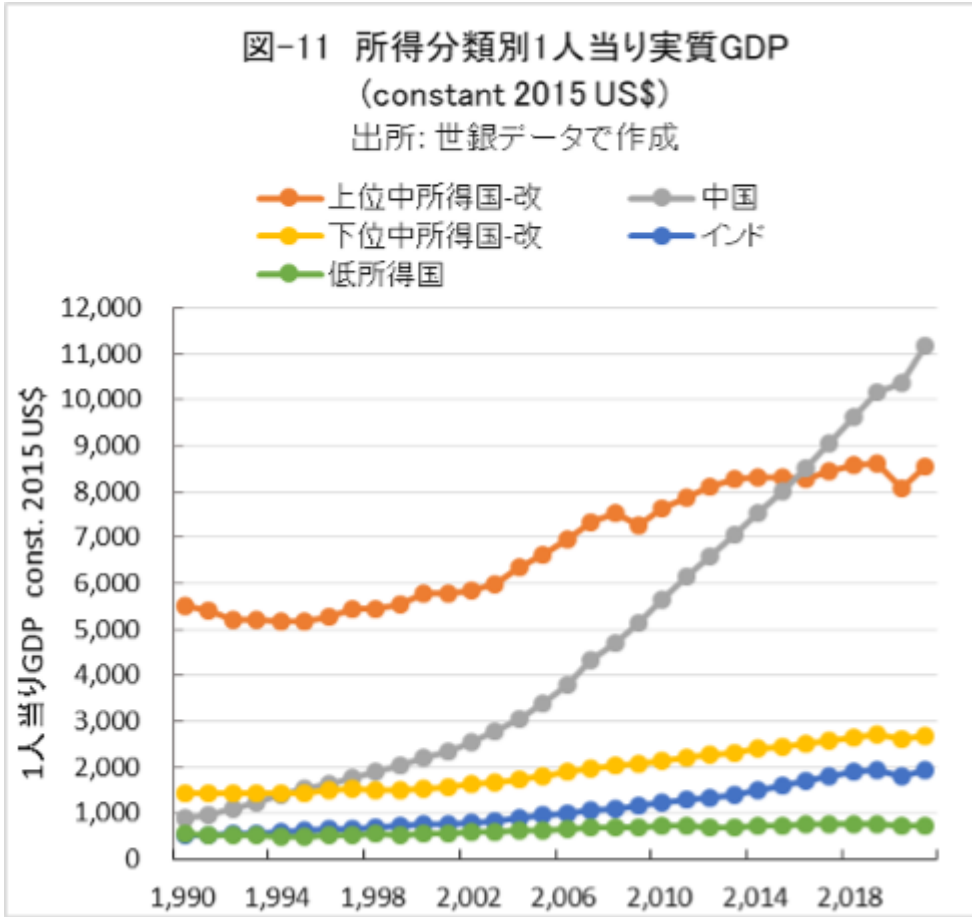
????????????????????10%????????????????9%????????GHG????2002????2013????
 ?????????????????????6%????????GHG????????

??????-????????-
 ?????????????2005????????6%????????????2.5%?4%?3.4%???GHG????2000????
 ?????????????-????????????

????2%????????????GHG????GHG????????EU-28????????GHG????????
 ???4?5%????????????????????GHG????GHG????????????GHG??
 ?????????????

1???GDP?GHG

????????????????GHG????????GHG????????????1????????1????
 ?GDP????????GHG1????????????



1990年GHG排出量は約16t CO₂e/人であったが、EU-28の平均は約10t CO₂e/人、中国は約10t CO₂e/人、インドは約10t CO₂e/人、低所得国は約10t CO₂e/人であった。

GHG排出量

2020年のGHG排出量は、中国は約100億t CO₂e、インドは約25億t CO₂e、EU-28は約20億t CO₂e、上位中所得国は約10億t CO₂e、下位中所得国は約5億t CO₂e、低所得国は約2億t CO₂eであった。

2020年のGHG排出量は、中国は約100億t CO₂e、インドは約25億t CO₂e、EU-28は約20億t CO₂e、上位中所得国は約10億t CO₂e、下位中所得国は約5億t CO₂e、低所得国は約2億t CO₂eであった。

2023年のGHG排出量は、中国は約105億t CO₂e、インドは約28億t CO₂e、EU-28は約21億t CO₂e、上位中所得国は約11億t CO₂e、下位中所得国は約6億t CO₂e、低所得国は約2億t CO₂eであった。

1990年のGHG排出量は、中国は約10億t CO₂e、インドは約2億t CO₂e、EU-28は約20億t CO₂e、上位中所得国は約10億t CO₂e、下位中所得国は約5億t CO₂e、低所得国は約2億t CO₂eであった。

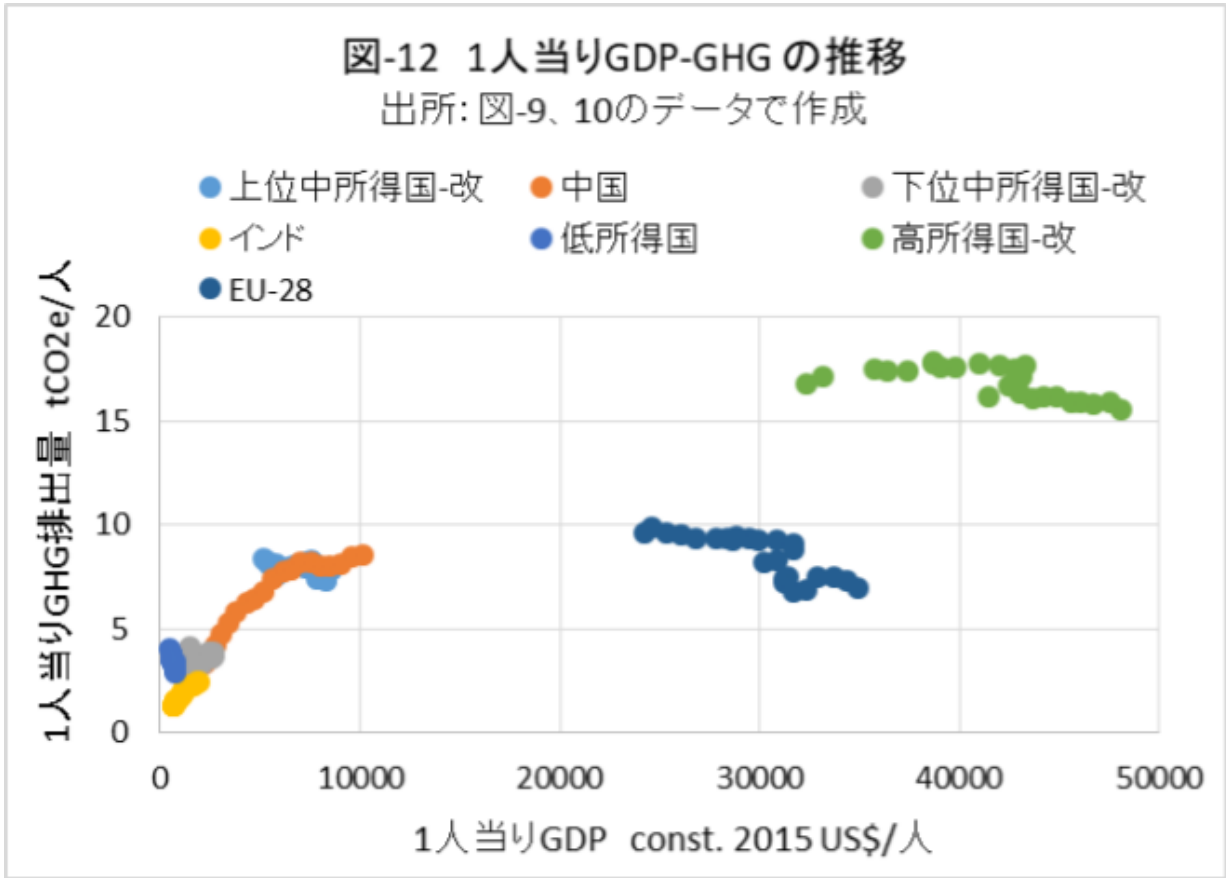
2000年のGHG排出量は、中国は約20億t CO₂e、インドは約5億t CO₂e、EU-28は約20億t CO₂e、上位中所得国は約10億t CO₂e、下位中所得国は約5億t CO₂e、低所得国は約2億t CO₂eであった。

1990年のGHG排出量は、中国は約10億t CO₂e、インドは約2億t CO₂e、EU-28は約20億t CO₂e、上位中所得国は約10億t CO₂e、下位中所得国は約5億t CO₂e、低所得国は約2億t CO₂eであった。

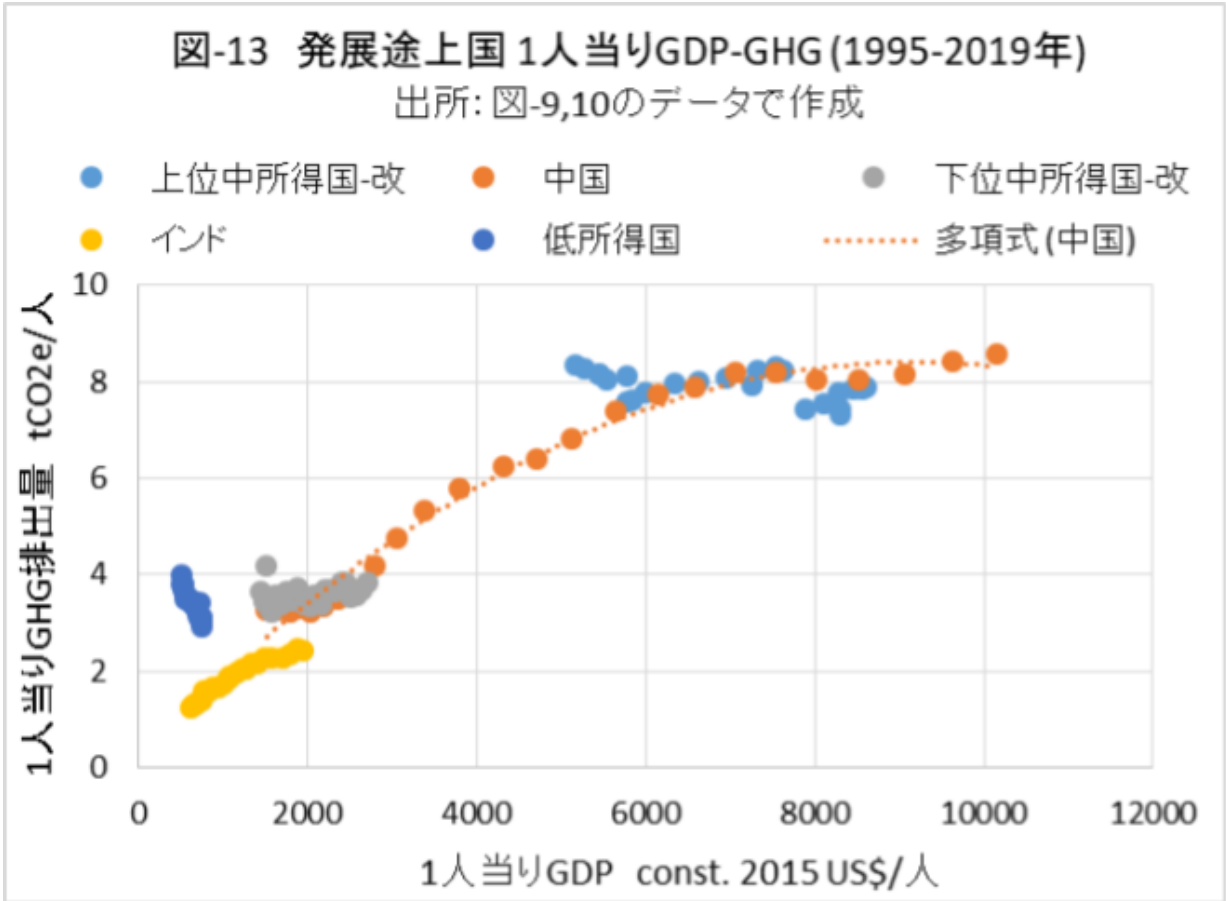
GHG排出

2020年のGHG排出量は、中国は約100億t CO₂e、インドは約25億t CO₂e、EU-28は約20億t CO₂e、上位中所得国は約10億t CO₂e、下位中所得国は約5億t CO₂e、低所得国は約2億t CO₂eであった。

12 GDP GHG 1995 10 1995
GDP GHG EU-28 GHG
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13 GHG
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???????GHG??

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

COP28????????????????????????????????????80?

?? ?? · Monday, December 4th, 2023



Heiness/iStock

1. COP28??

COP28?UAE??10?21????????????????????
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COP??CO2????????????????????????????????
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??27????COP??CO2??????27????????????????????CO2
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CO2??CO2????????????????????????????????
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2. ??????

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?????????2006????2022???1990??????50????CO2??
??45??????????????

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Request to Reconsider Proposed Regulations on Battery Electric Vehicles

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1. BEV????????????????
2. BEV????????????????
3. BEV????????????
4. BEV????????????????

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????????2010????????2022????????2050????????????????

Renewables*	36.59%
Coal	27.96%
Gas	14.86%
Nuclear	12.26%
Hydro	3.30%
Oil	0.83%
Other	4.20%

How is Electricity Generated in Germany?(2019/2022)

(*) Wind:56.2%, Solar: 21.2%, Others:22.6% ?

??14.9????????78????????????????

Oil	35.2%
Natural gas	25.1%
Renewables	14.9%
Lignite	9.1%
Coal	8.6%
Nuclear	6.4%
Other	0.7%

What Primary Energy Sources are Consumed in Germany? (2019/2022)

???Lignite????:????????????????????????????

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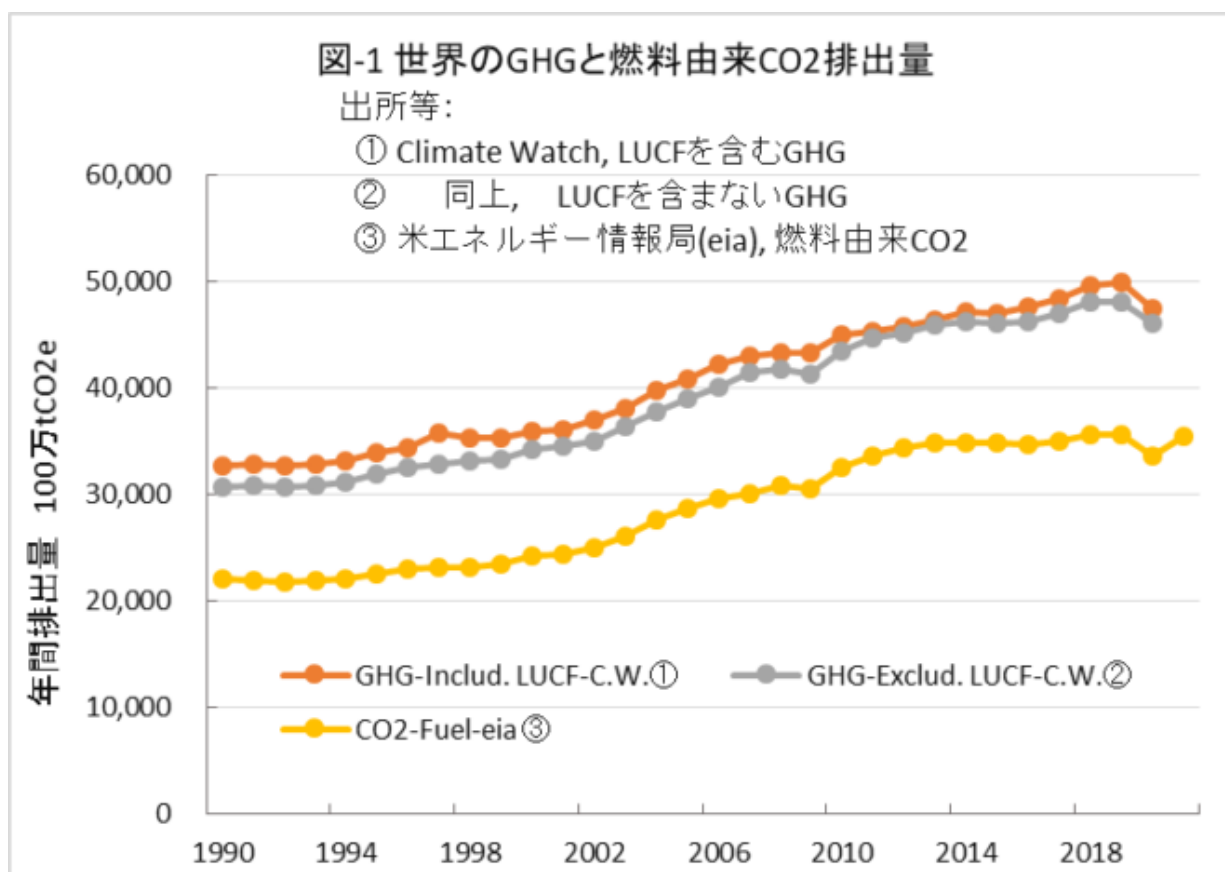
????????????GHG??
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????????????????2050?GHG??????????????????

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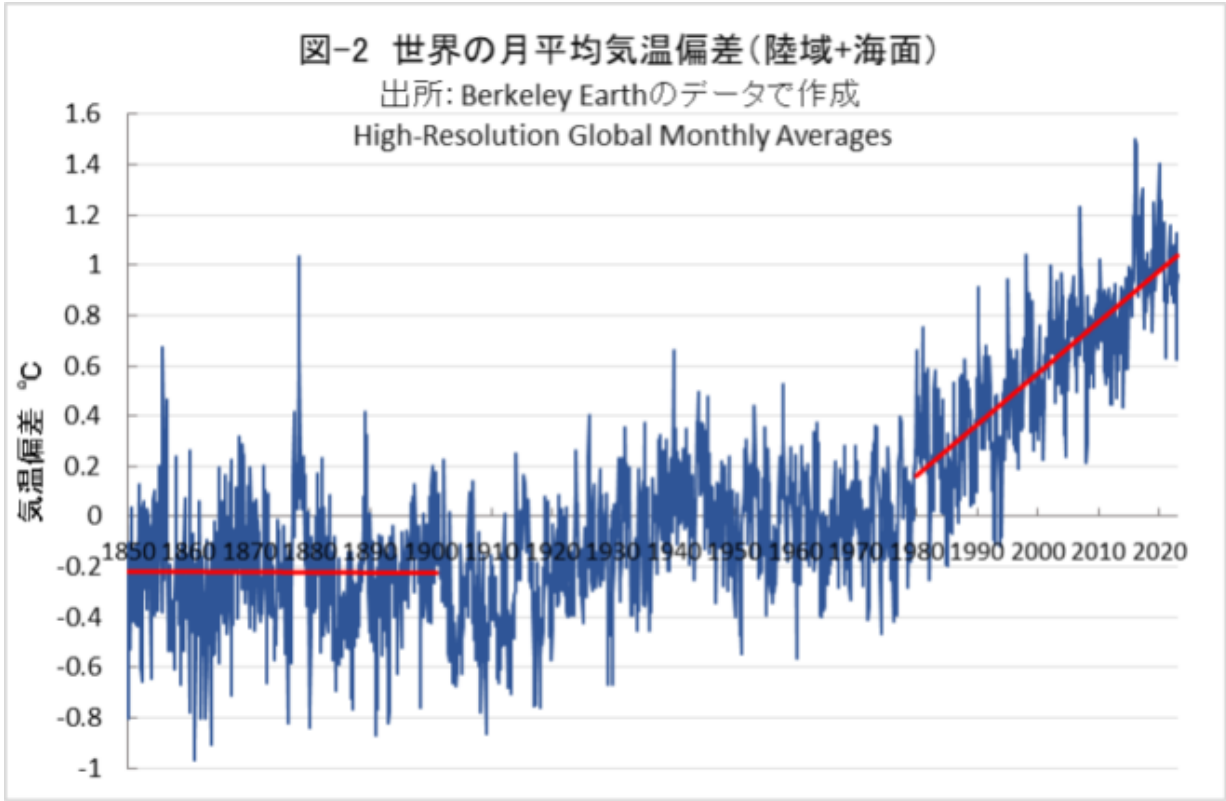
?1?????GHG?CO2?????????????????GHG?Climate
Watch?????LUCF???CO2?????????????????eia???????????



2009????????COP15????????????????2050????????????????50%????????80%????????????????????????20
15?COP21????????????????2????????1.5????????????????????????

?????1?????GHG????????????????????2009????????????????????2020????????????????????????
CO2????????2021????????????????????????

?2?????Berkeley
Earth????????????????????????????????????1850?1900??1980?2022????????????????????????

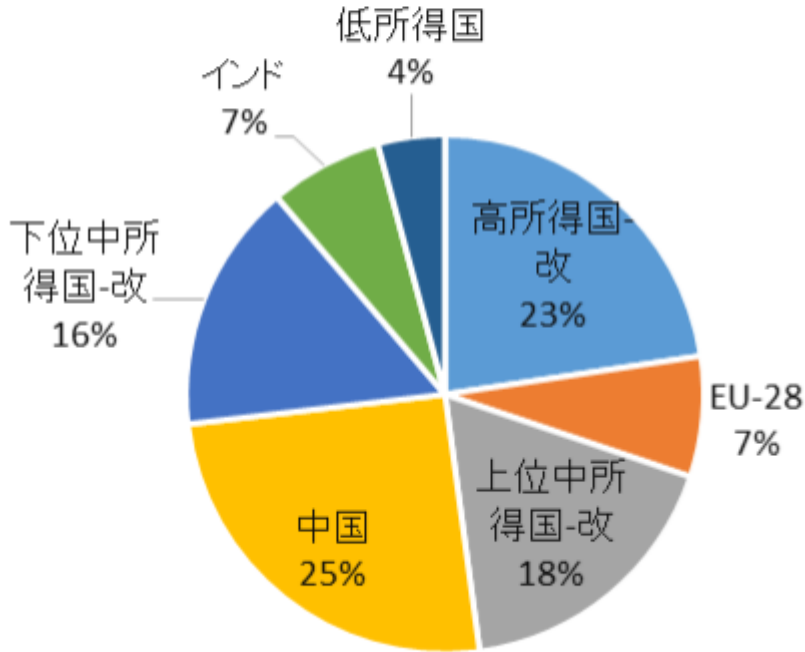


1850??????2022??????1.2????????????????????????????????2030????1.5????????????????????????1.5??
 ???

??GHG????????????????????????????????2050????????????????????????GH
 G????????????????????????2060????????2070????????????????????

?3??GHG????????????1/3????????????????????1/3????????????1/3????????????????????
 ???GHG????????????????????????????????

図-3 所得分類別世界のGHG排出量比率
(2019年, LUCF含む)
出所: Climate Watchデータで作成



????????????GHG??GHG????????????
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????????????1970??kindle????????????????
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Posted in ??????????, ??? | No Comments »

????????SMR????

?? ?? · Saturday, December 2nd, 2023



mrdoomits/iStock

????SMR????????????

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??1942????????1????????????????????????????
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??2010????????????????2011??
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????SMR????????????????????NuScale????????????????????????????????11????????
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Posted in ???, ????????? | No Comments »

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?? ?? ?? · Thursday, November 30th, 2023



????????????? bluejayphoto/iStock

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11?15????????????????2????????????????????????????????2021????????????????????????????
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??600??

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??100?????1.5????????????????????????1????????????????????????

??CDU??CDU????????????????????????CDU????????????????

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CDU??
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??“????”????????????????????

Posted in ???, ?? | No Comments »

COP28????????????????????????????????

?? ?? · Wednesday, November 29th, 2023



Darwel/iStock

COP28?11?30????????????UAE??
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????????????????????????1.5????????²¹????????????2030????????????CO2????????
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????5?????????G7??????????????



????2035????????????????????????????????????1.5????????????????????????????????
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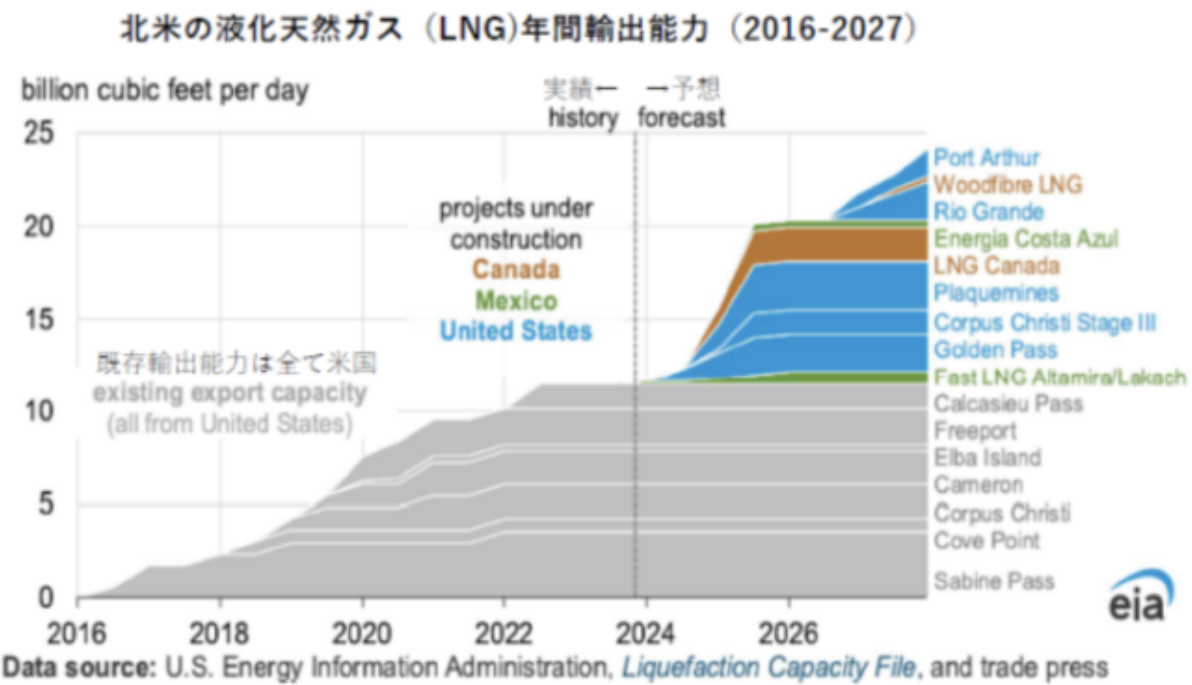
????????11??EIA????????????????????

11?2????????????²²³??
????????????2022?8????1???23?7????????????????????????????1????22????3310???²³³????????
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????????????1440????51%????????1860????6????????????????????????????????????
????????300/????????????????????????????????????100????????????????????20????????

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??EIA?11?13????²⁴²??2027????LNG????
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????????????????????129?Bcf/????????????11?Bcf/????21?Bcf/????97?Bcf/????
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????2010??2018????????
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??COP28?
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?1??1.5????????????
??21(a)????????????1.5????
????????????????????2????????????1.5????????????????????????????????????COP26????????????????????????

?2?“EU sanctions on Russia’s coal increase U.S. coal exports to Europe”, Today in Energy, November 2, 2023, EIA

?3??

?4?“LNG export capacity from North America is likely to more than double through 2027”, Today in Energy,
November 13, 2023, EIA

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

????COP28? ????????????

?? ? · Monday, November 27th, 2023



12?4??14??COP28????????COP6????????????????????????????????17??CO
P????????????????????

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COP28????COP????2023????????14????????????????????????????GST????1????????????????????

GST??
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??????2025????????Nationally Determined Contribution:
NDC??

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COP28????????GST??

??5??G????????????????????G????????????1.5????2050????????????????IPCC?6????????????
????2025????????2030??43????2035??65????????????GST????????????????????

????????G??2030????????????2050????????????????
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??9??G20????????????????????1.5????????????????
????????GHG????2025????????????IPCC?6????????????????IPCC????????????????
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????????2025????????????????????????????????NDC????????G????2035?65????????????
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Third World Network

Third World Network



IPCC 2025 2030 43 2030 60

GST BASIC LMDC Like Minded Developing Countries: 1.5

1.5 1.5 2050

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GST IPCC 1.5 2025 2030 43 2034 60 IPCC 1.5

?

GST

GST

1.5 2050

G20 NDCs 2030 5.8 5.9 2020 1000 78 1000 1.5

COP28

ADB AFDB

LDC

liability compensation 1000 2025

1

CO2????????1.5????????????

?? ?? · Saturday, November 18th, 2023

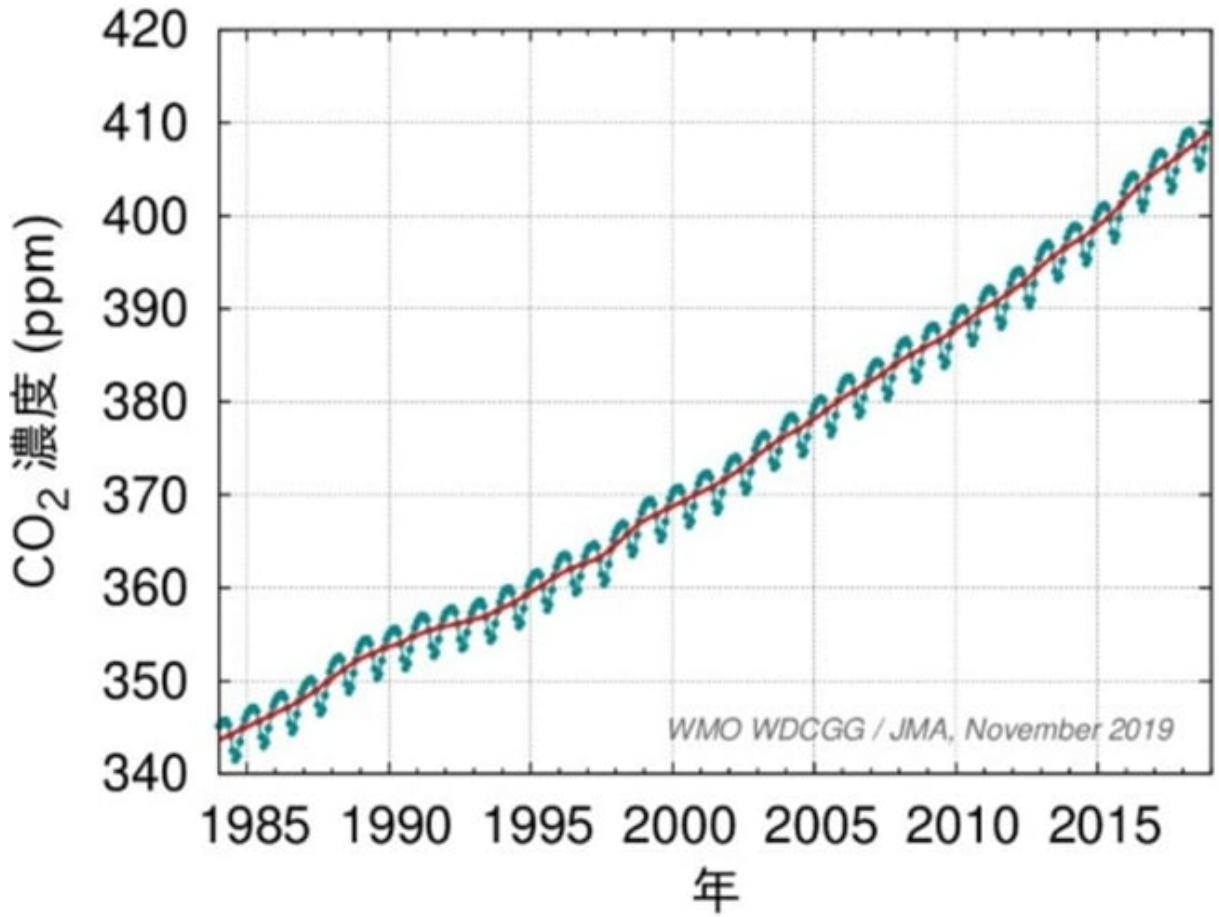


MR1805/iStock

CO2????????420ppm????????1850????280ppm?1.5????????????????

???CO2????????1.5????????...????????????????????????

??CO2??
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????CO2????40????2ppm????
??HP??

????1.5????

????280ppm????

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??1850????1????

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????CO2????CO2????
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??1850??280ppm????

????CO2????

????RCP8.5????CO2????

????RCP6.0????1.5??630ppm????2090????

CO2????1????420ppm?1.5??630ppm????420ppm?28

0ppm????560ppm????????????????????CO2??
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????????150??1????????????CO2????????????????2090????????????1????????70????????1????????????
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Posted in ???, ????? | No Comments »

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?? ?? · Sunday, November 5th, 2023



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<https://agora-web.jp/archives/230217005900.html>

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

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

?? ?? · Friday, November 3rd, 2023

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??????????????23????????????????????????????????530????8????????????

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

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

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?? ?? · Thursday, November 2nd, 2023



PhonlamaiPhoto/iStock

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???300??

??1000????????????????????
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??4000??
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4. ?????????????????????????????????????
5. ?????????????????

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??300????????????????
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Posted in ??????????, ??, ????????? | No Comments »

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?? ? · Wednesday, November 1st, 2023



Kirillm/iStock

2022????????????????????????????????2023?10????????????????????????????
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1973????????????50????????????????????????????????

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?3????????????????????????1970????????????????????????????

?4?????????????????????????????????5 IEA?????????12????????????????????
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??CEO????????????EV????????????EV????????
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??CO2????????????EV?LCA????????????CO2????????10????????????CO2????????????
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??“????????”????????????...????“?”??

??2020?10?26? ???????2050??12????????????
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EU?EV?????????????e-fuel???

??2023?4?1????????????????????????

????????????????10?25????????????????????????????????????EV????????????????

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JAPAN MOBILITY SHOW 2023 Toyota Press Briefing

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

2. ??????EV?????

????????????????????????????????????EV????????49%????????63%????????????????

????????GM??EV????????50????????????????????GM????????????????????GM????????????????????
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????????7??EV????????????????????EV????????????F-150????????????3????????1????????????????
????????????LG????????EV????????????????????????????

More alarm bells sound on slowing demand for electric vehicles

3. ???????

EV??EV????????????????????????????
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??Ernst &
Young????????????????????????EV????????????????????????????2????????EV????????2035??
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4. ???

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

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?? ?? · Monday, October 30th, 2023



Stock photo and footage/iStock

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??	CO2???	???
2018??	8???	10??
2019??	9???	9??

2020??	10???	8??
??	CO2???	???
2018??	120???	80??
2019??	110???	90??
2020??	100???	100??

?B??

A??CO2????????CO2????????????????????????????????????B??CO2????
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??????3????????15????15????CO2????????????????1????
????CO2????????1??2????????????????????

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??1????CO2????????CO2????????

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2023?10??????3????????CO2????????3????
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????????100%????????????????????3????????CO??
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Posted in ??????????, ???, ????? | No Comments »

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?? ?? ? - Saturday, October 28th, 2023

??53????????????????????



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??BSI????????????????????
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Royale““??
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108 CDU 34.6 1 AfD 18.4 5 15.1

BSI



3DFOX/iStock

??9?EU????????????????????????????????
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“???” ???
“???”??

??ZDF????????????????????

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Posted in ???, ?? | No Comments »

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?? ?? · Wednesday, October 25th, 2023



Tero Vesalainen/iStock

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

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??2026
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??EV??????

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

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

2. ???????

??2024????????????????RFK Jr.??

COVID??

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RFK Jr.?2024?????????????????

3. ???????UN?IPCC???????????

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????????????????????MIT??CO2? ”heavily

saturated”????????EPA????????????????????????????????

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

????????????IPCC?????????????????2????????????????????????

The Detection and Attribution of Northern Hemisphere Land Surface Warming (1850–2018) in Terms of Human and Natural Factors: Challenges of Inadequate Data

????????IPCC??

??4%????????

??IPCC????????????????TSI??TSI????????????1950????

??IPCC??

????????????????CERES?????



1850????????????IPCC????????????????????????????????IPCC????????????
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??CO2????????????
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4. ??????

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Posted in ???, ????? | No Comments »

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

?? ?? · Tuesday, October 24th, 2023



LifestyleVisuals/iStock

????????????????????2024????????ESG??ESG??
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??ESG??????????

?????538.com?????10?21?????????????????????????5?????????56.8%?????????13.7%?????????7.2%??
?????5.6%?????3.7%?????

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1. ??????????45??????????????

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Wikipedia??

2. ?????????????????????

ESG??

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??HP??

3. ??????????

??????ESG????????????????2024??ESG????????????????????
??ESG????????????????????????

?????????Woke, Inc.????????????????????



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



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Wikipedia??

4. ???????????????



ESG??



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Wikipedia??

5. ?????????????????????????



ESG??



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Wikipedia??

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

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

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

?????????IEEI? · Thursday, October 19th, 2023

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ALPS??

??1000??
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????????????????????????????????0.56????????????????6????????????????????10????????????????????

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?? ?? · Friday, October 13th, 2023



Liudmila Chernetska/iStock

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

????????????????????1970?1980??
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- 1976????????? ?????????????????????
- 1980????????????????????
- 1989????????????????? ??????????????????
- 1989????????? ?????????????????????

1989??1988?????????WMO?????????UNEP?????????????????
????IPCC????????????

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??CO2????????????????????????????
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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'



????????????????????2023??
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????2??????CO2????????????????????



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



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



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4. ?????????

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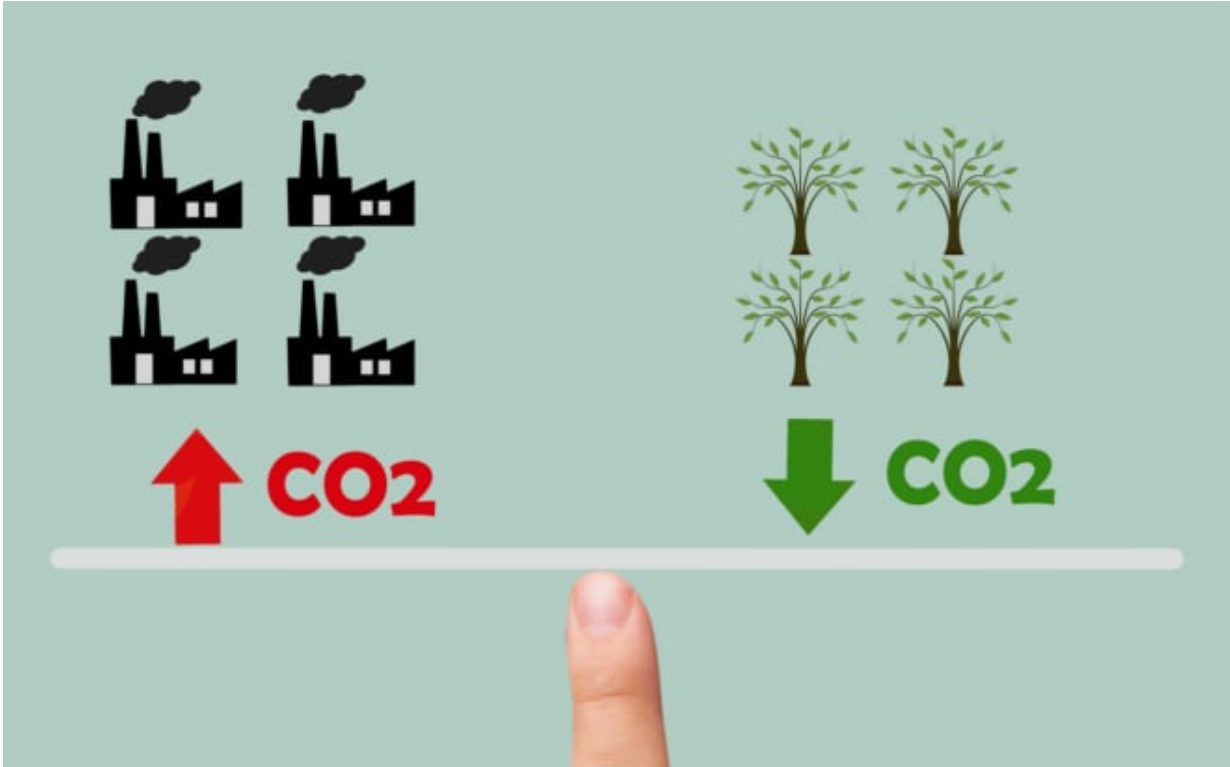
The main conclusion of this part of the study is that even an order of magnitude increase of CO₂ in the atmosphere by human activities, which at the present rate of input is not expected within the next several thousand years, may not be sufficient to produce a runaway greenhouse effect on Earth. On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



2023

2023

ESG

919 EU UCPD CRD 26 20 25 26

EU

EU-ETS

2026 EU

EU-ETS

EU-ETS

EU-ETS

EU-ETS

J- CO2 kWh NGO CO2

COP27 2023 13

2050 2030 CO2

