

CO2???????(CO2 Coalition)

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Foresight??

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

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?? ?? ? · Tuesday, January 9th, 2024



ZU_09/iStock

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?? ?? · Sunday, December 31st, 2023



shotbydave/iStock



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

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?? ?? · Saturday, December 30th, 2023



CampPhoto/iStock

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21?4??28??67????????????????
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Wikipedia??

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

COP28???????

?? ? · Tuesday, December 26th, 2023



Heiness/iStock

12????????COP28????????????????????????????????COP??????

??NDC??
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????1.5????2050????????????????????IPCC?6????????????2025????????2030??43????2035?
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??NDC??2025????????20
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COP28????????????????????????????????1.5????????????????????????????????????
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fuels)??????????

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COP28????????8????????????????????OPEC????????
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12????????????UAE????????????????

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??????1.5??1.5????????
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?1?https://unfccc.int/sites/default/files/resource/cma2023_L17E.pdf

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

????????SINO?Science in name only?

?? ?? · Saturday, December 23rd, 2023



metamorworks/iStock

1. COP28???

11?30??2??UAE????COP28??90,000????

11?21?????She Changes
Climate????COP28????1.5°C????
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????B.Sc????PhD????MBA????

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COP28 ????????

COP28????NHK????“????”????
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2. ???????5???

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g Point??

3. Science in name only

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??30??2050??
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4. ???

EU?????Science in name
only??
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Posted in ??????????, ??, ???? | No Comments »

????????????????COP????????????

?? ?? · Friday, December 22nd, 2023

????????COP28????????COP????????????????????????????????????

????????????(phase out)????????????????????????????????????(phase
down)????????????(transition away)????????????????????

COP????????????

COP????????????????????????????????????(UNFCCC)????????????1994????????
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????COP????????1.5??EU??2021??COP
26??

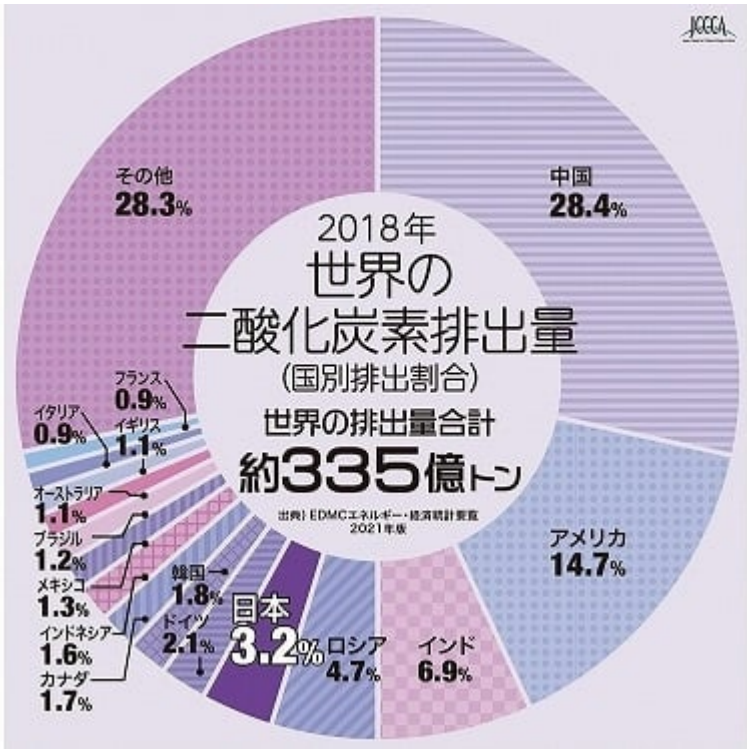
????????????????????????COP????????????????????COP27??
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????????????????(JCCCA)

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

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

?? ?? · Friday, December 22nd, 2023



peshkov/iStock

??COP28????????????????????????DeepL????????????????

Climate Alarmists Shame COP28 into Overtime Deal to Abandon Fossil Fuels

????????????????????????DeepL??????

The COP28 climate conference in Dubai seemed to be heading for an anticlimax on Tuesday, as the last scheduled day of negotiations passed without reaching the top goal of the climate movement: a worldwide agreement to phase out fossil fuels.

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

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

?? ??? ?? · Thursday, December 21st, 2023



Ignatiev/iStock

EV????????...????????

12?17????????????EV????????????5????

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12 13 33 14 15 4

4

12 13 3

30 45 50 1

7.5 3.5

EU

EV

16 17 no farmer, no food, no future?

17

EV

1400 11



yudhistirama/iStock

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

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

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

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



deepblue4you/iStock

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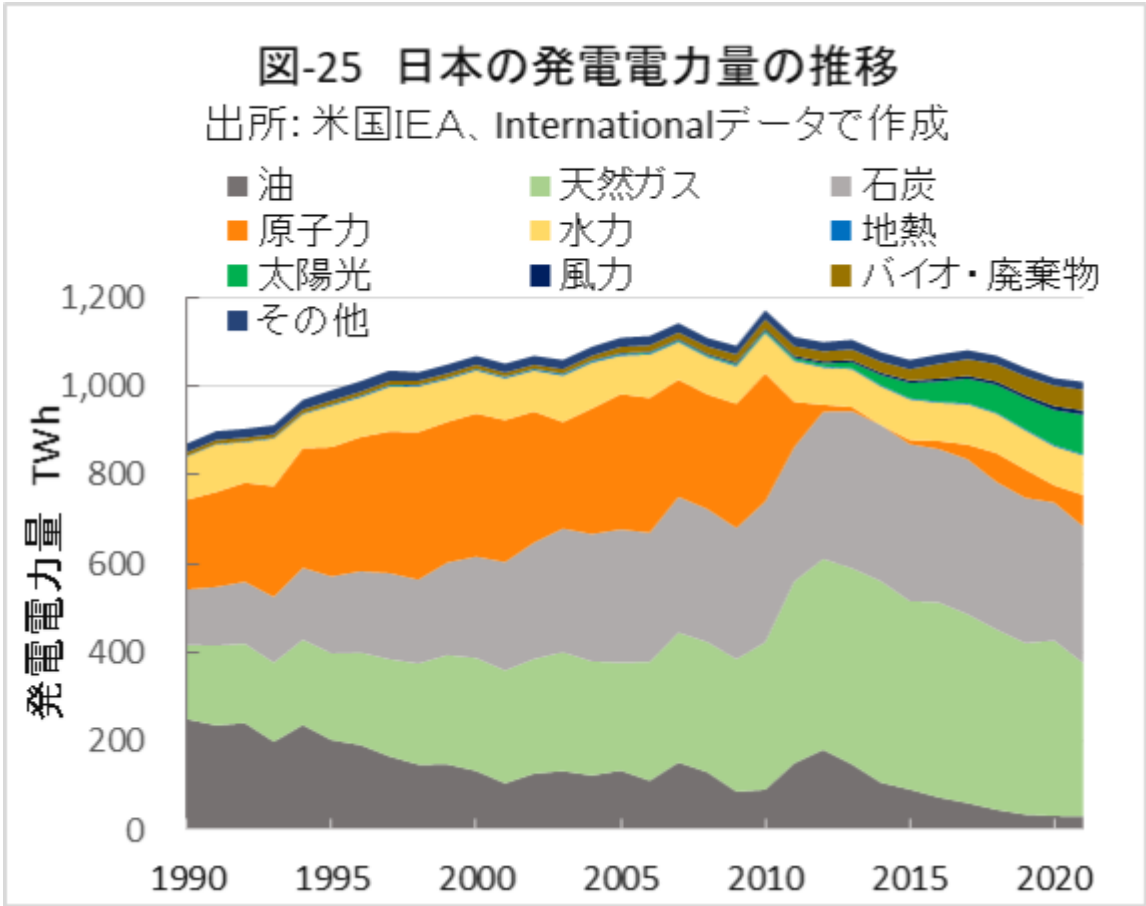
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E????????????????GHG????????????

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??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)によるものとなった。

2012年7月にFIT制度が導入された。2017年にはFIT制度による発電電力量が約25%に達した。FIT制度は再生可能エネルギーの普及を促進し、発電電力量の構成に大きな変化をもたらした。

再生可能エネルギー(VRE)

VREは再生可能エネルギーの総称である。GHG(温室効果ガス)排出量が極めて少ないVREの導入は、気候変動対策に貢献する。

VREの導入は、エネルギー安全保障の観点からも重要である。再生可能エネルギーは国内で生産可能であり、エネルギー供給の多様性を高めることができる。

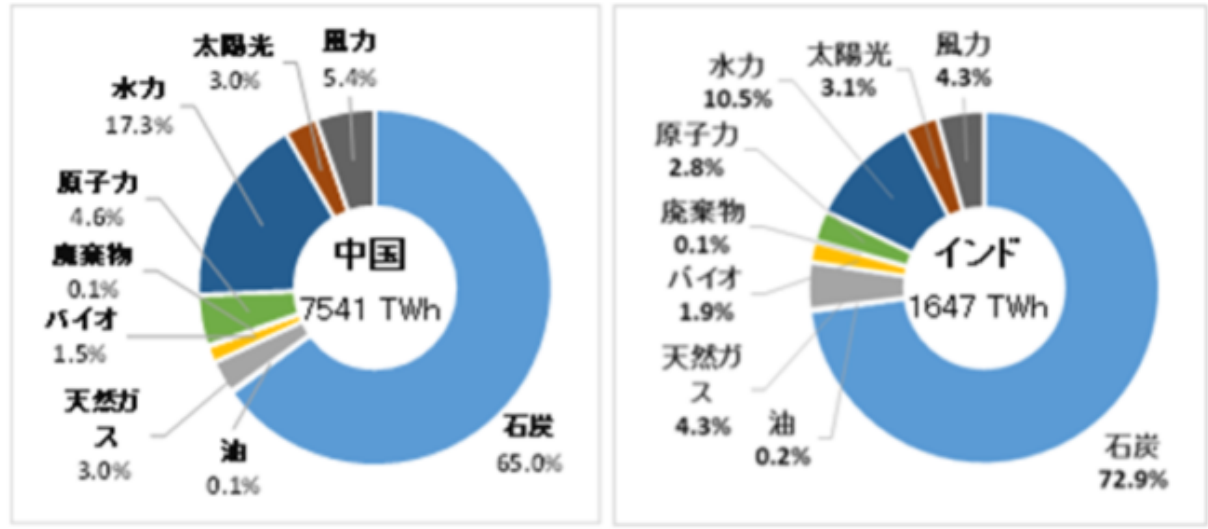
VREの導入は、エネルギーコストの削減にも寄与している。VREの発電コストは近年大きく低下し、VREの導入が経済的にも有利となっている。

GHG排出量の削減に貢献するVREの導入は、気候変動対策の観点から重要である。GHG排出量の削減は、気候変動のリスクを軽減する。

2026年には再生可能エネルギーの発電電力量が約2/3に達する見込みである。

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

?????????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

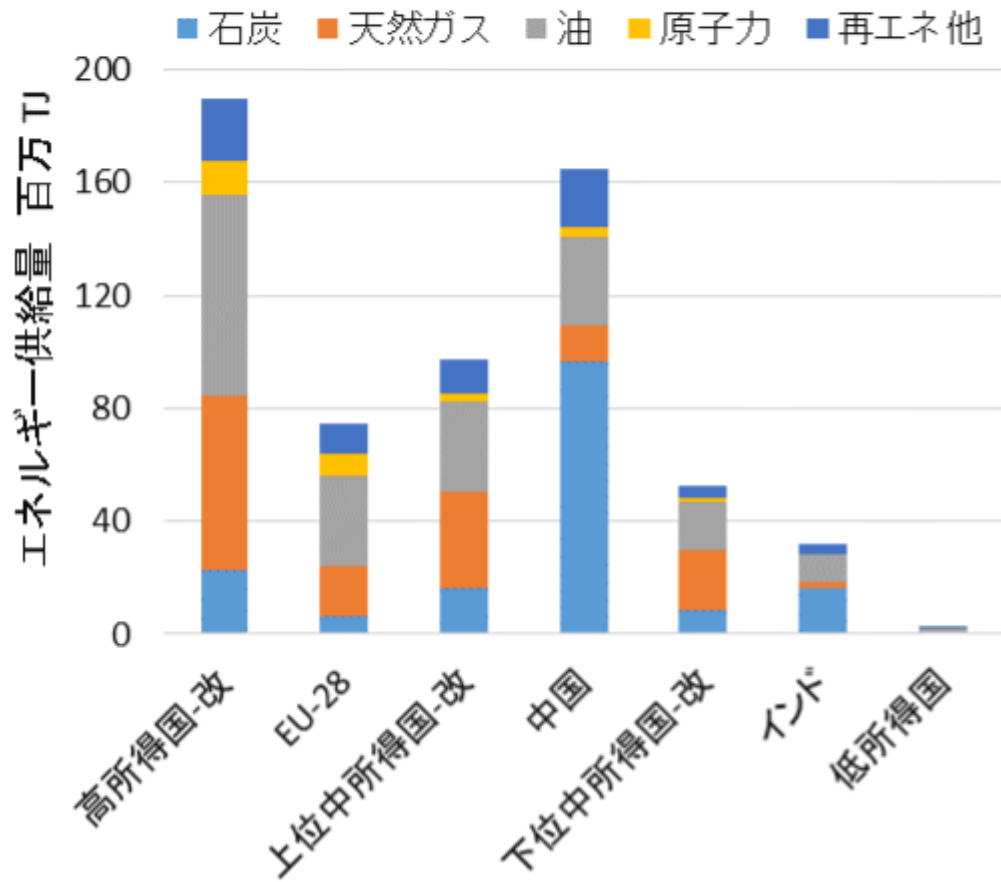
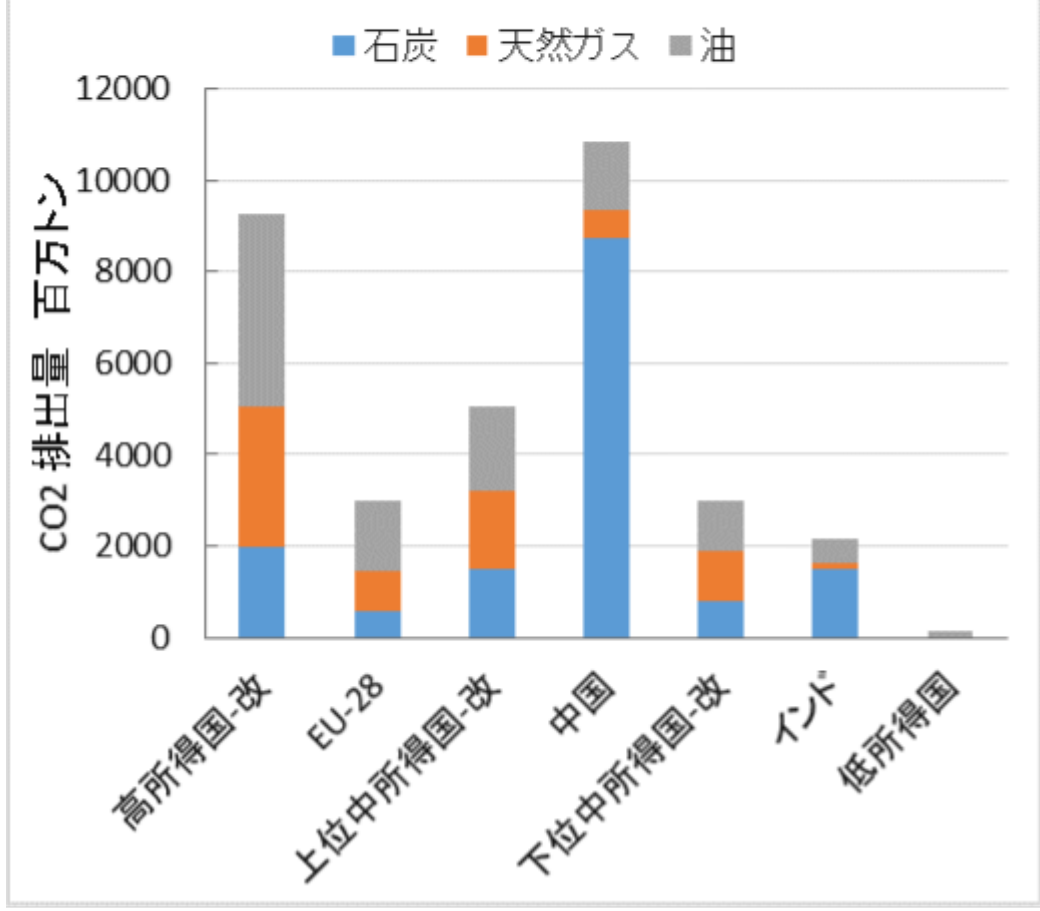


図-29 グループ別燃料燃焼CO2排出量 (2020年) 出所: 米国eia, Internationalデータ



2020年、世界のCO2排出量は52%増加し、16%減少した。2020年のCO2排出量は、

2019年と比較して、CO2排出量は0.56%減少した。

LCA（ライフサイクルアセスメント）は、LNG（液化天然ガス）のCO2排出量は0.6%、0.65%と推定され、35%、40%のCO2削減が期待される。

18%の削減が期待され、IEA（国際エネルギー機関）は2020年のGHG（温室効果ガス）削減が1%と推定されている。

70%の削減が期待され、2020年のGHG削減が1%と推定されている。

2020年のGHG削減が1%と推定されている。

30%の削減が期待され、1970年のGHG削減が1%と推定されている。

2020年のGHG削減が1%と推定されている。

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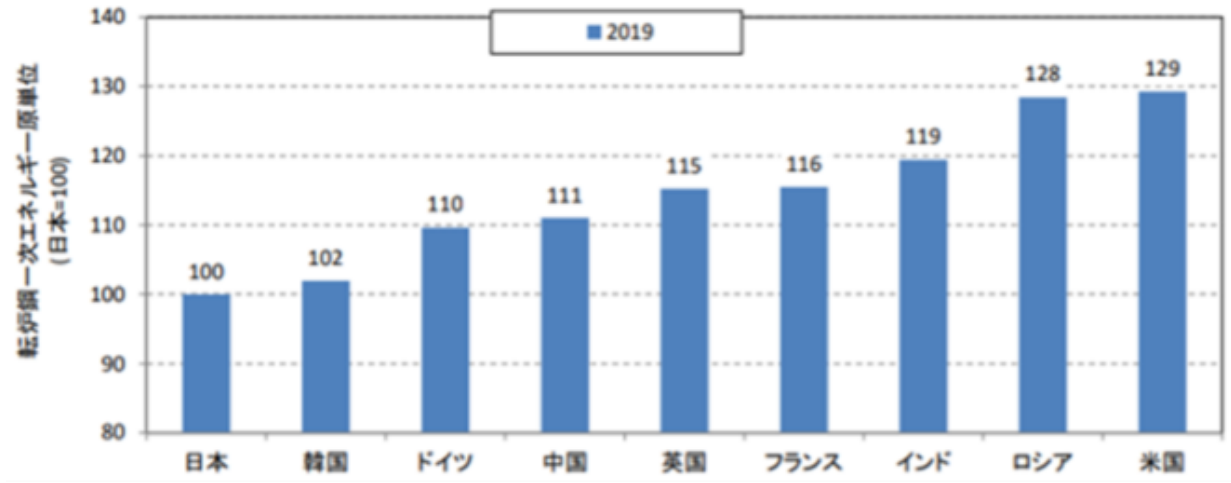
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図-30 高炉-転炉鋼の一次エネルギー原単位 (2019年)
出所：2019年時点のエネルギー原単位の推計(鉄鋼部門-
転炉鋼)、RITEほか



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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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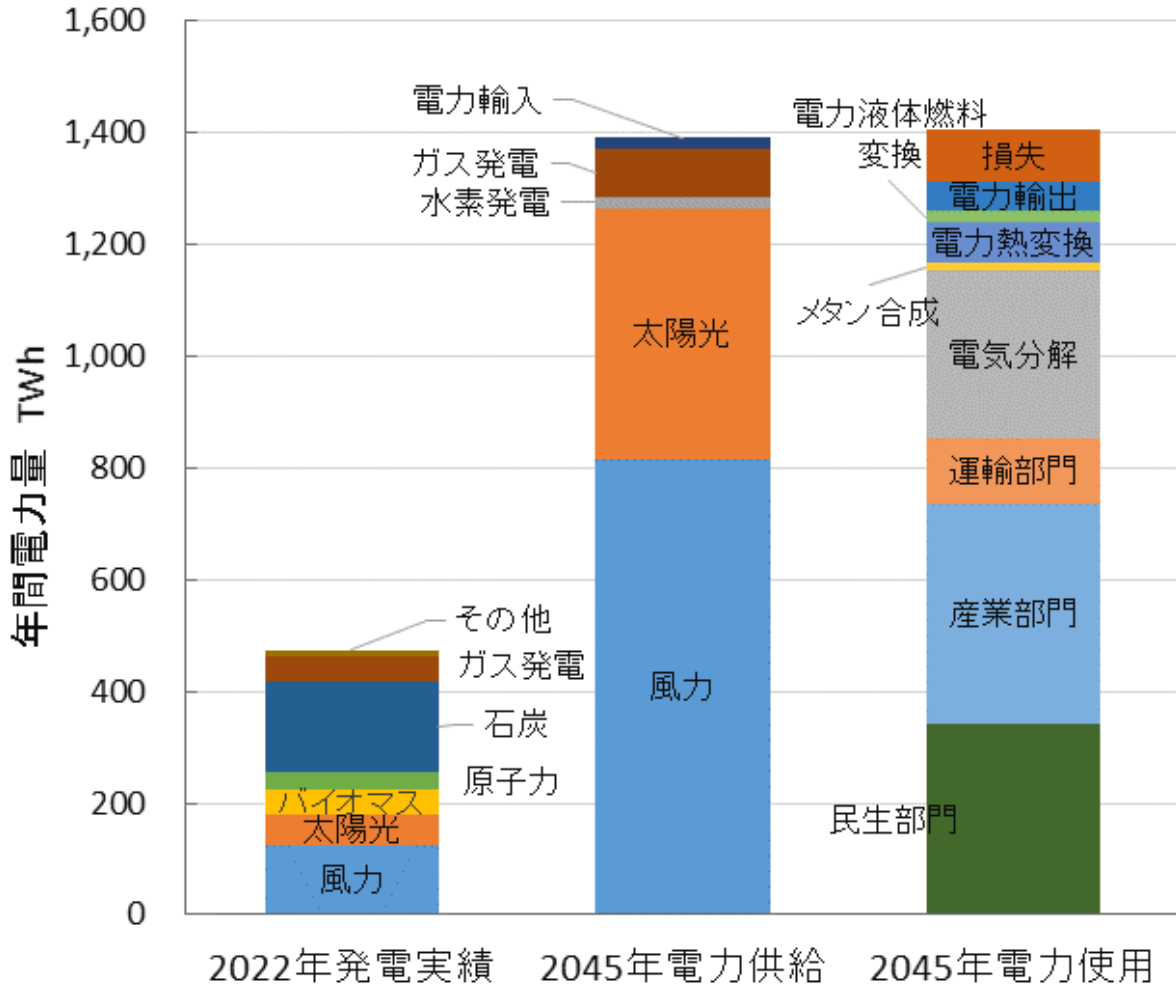
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図-22 ドイツ2022年実績と2045年「参照」シナリオ

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-
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??2050????????????????????????????????

?? ?? · Sunday, December 10th, 2023

????COP28??



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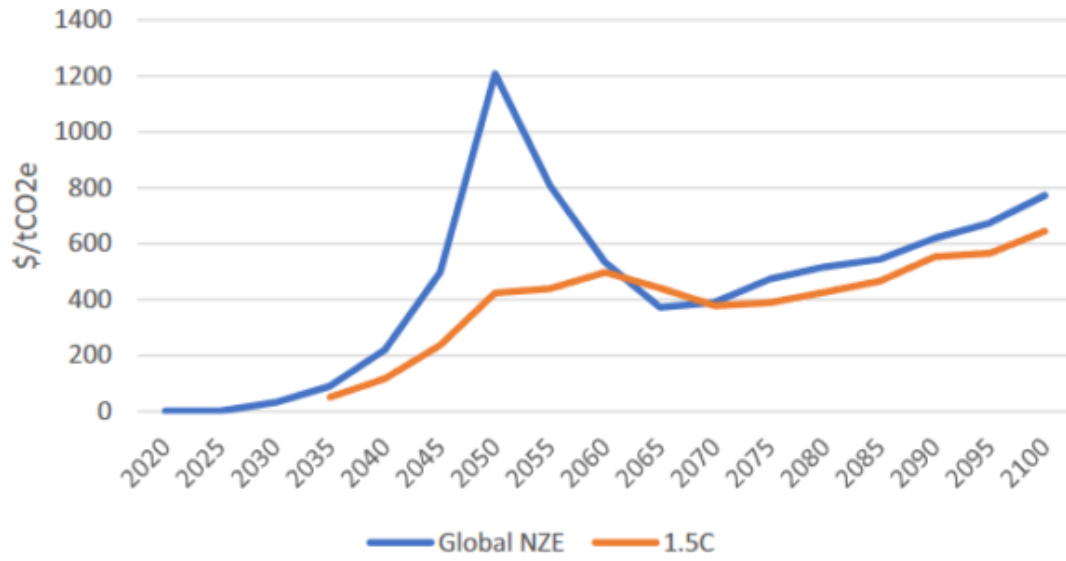
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??Richard
S.Tol????????????????????61????????39????????????????????????????????????

????????1????2050????1.5????????????GDP????4.5????????????????0.5????2100????5.5???
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Global Emissions Price



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?? ?? · Sunday, December 10th, 2023



wildpixel/iStock

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IPCC????????????????????????CO2????????????????????2100????????????????????????????????????
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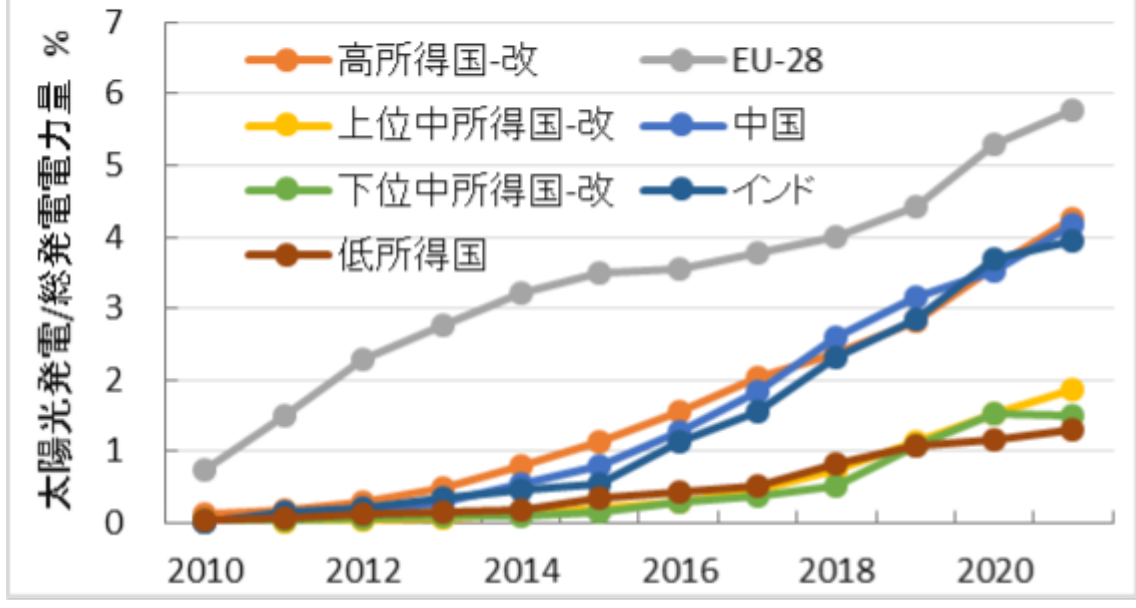
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図-15 総発電量に対する太陽光発電比率の推移
出所: eiaデータで作成



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

VRE kW VRE kW VRE VRE

VRE EU-28 VRE VRE

VRE VRE VRE

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VRE Energy-Charts

Energy-Charts?

Energy-Charts ISE

30

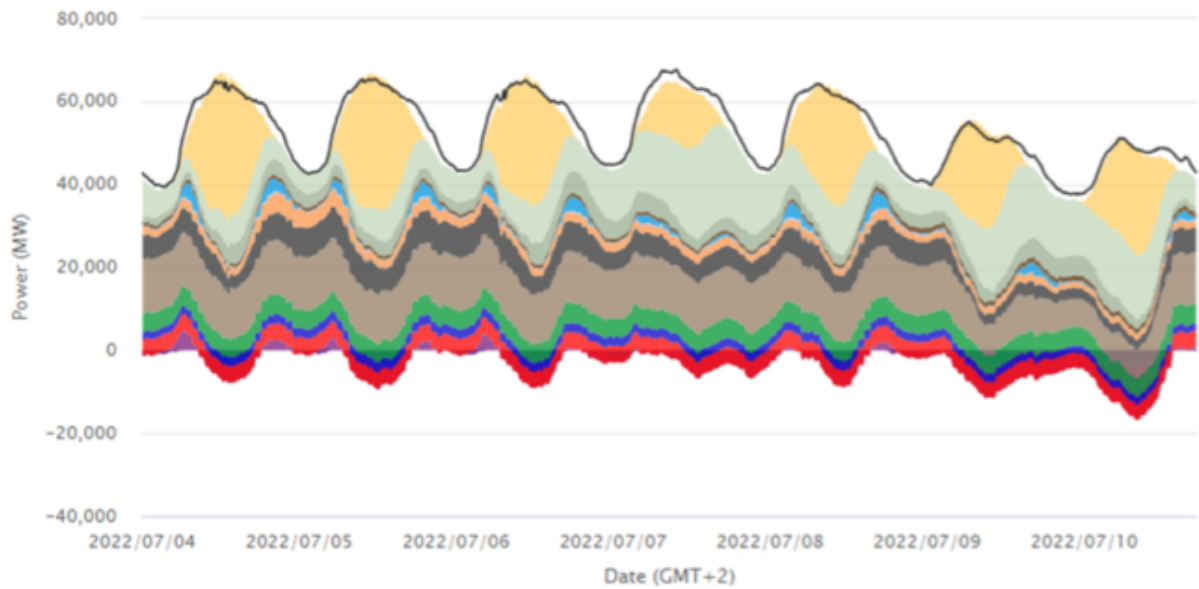
CO2

Energy-

Charts????????????2022??27??74??10??
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Public net electricity generation in Germany in week 27 2022

Energetically corrected values



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		

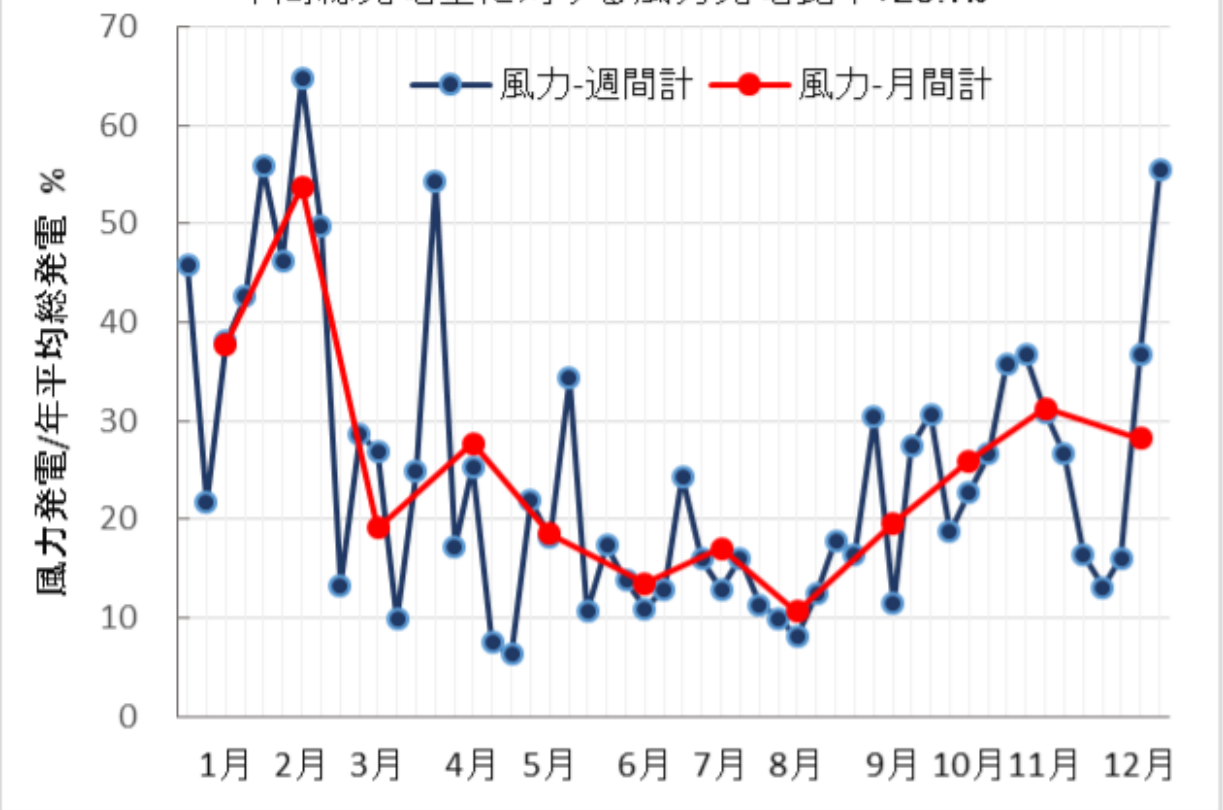
(注記)
 1) 公共正味発電電力量は、自家発を含まない、電力ユーザーのコンセントから出て消費される値。
 2) 太陽光、風力の発電容量は年間平均値、その他は2022年末の値。
 3) 電力負荷量は電力系統に投入された値。

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%



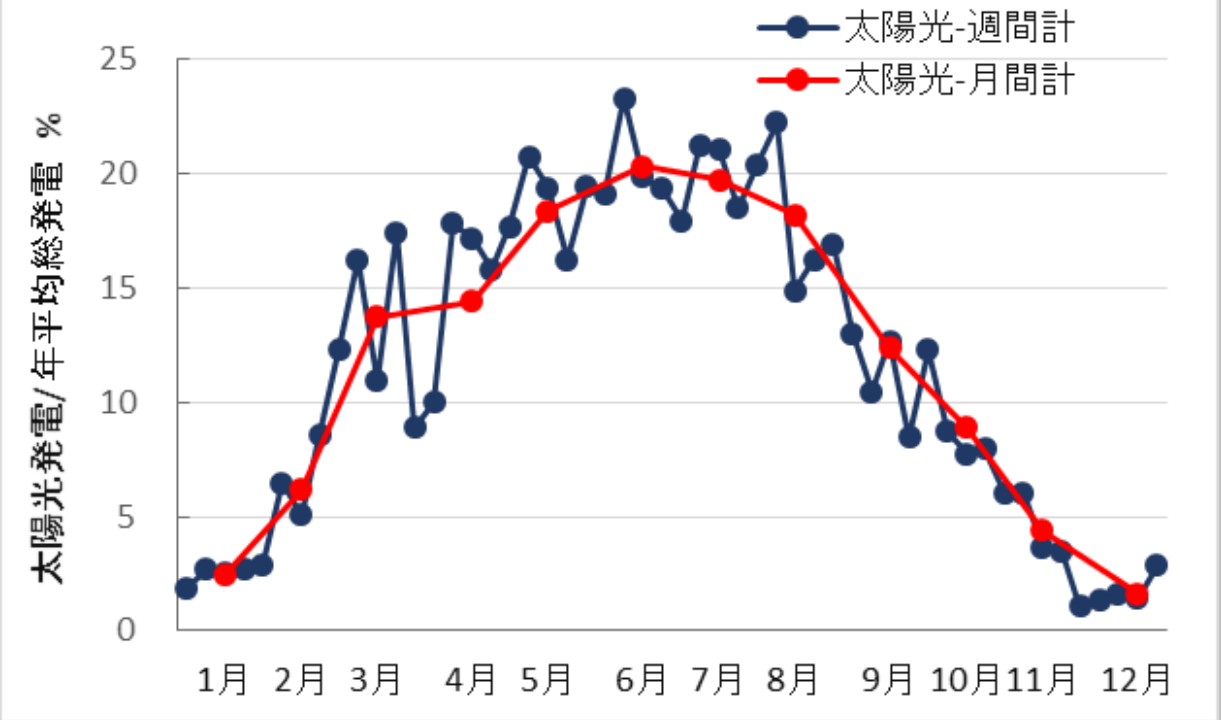
17% 12% 23% 0.12 0.0

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

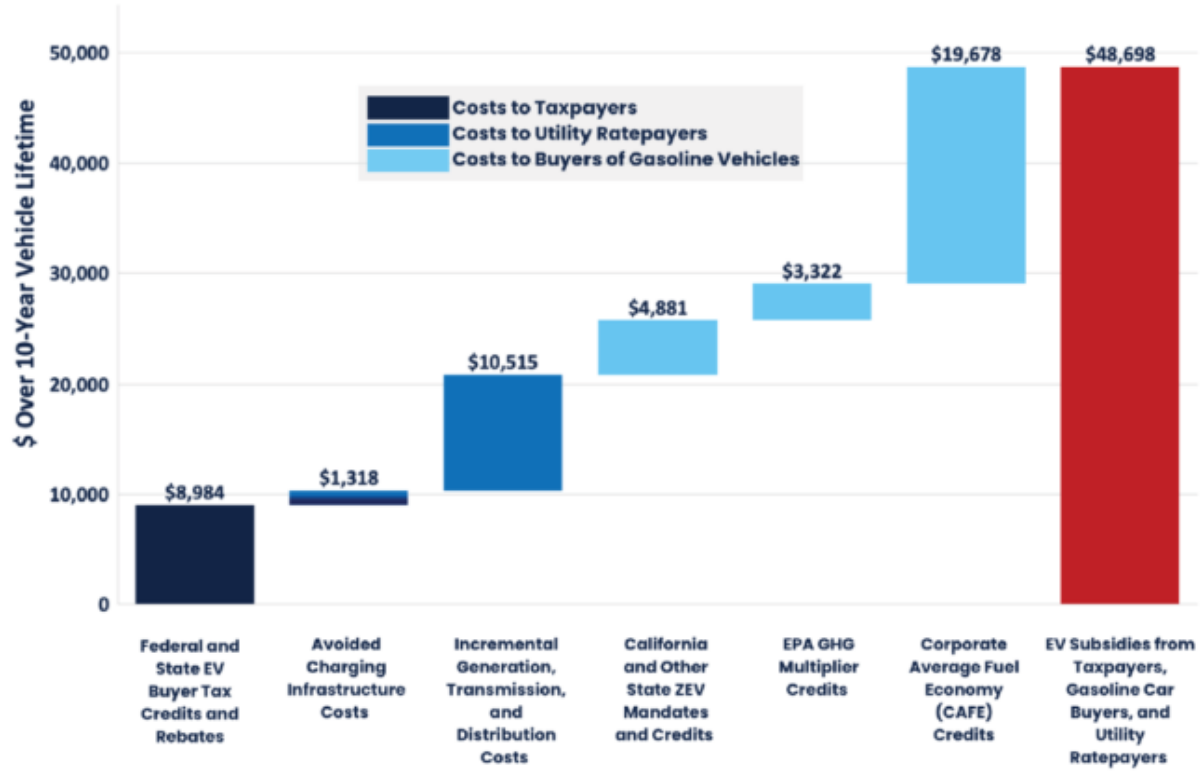
年間総発電量に対する太陽光発電比率: **11.7%**



18%
10% 4%

- ?????????????????????????????????8984????1318????????????
- ?????????????????????????????????10515????1318????????????
- ???4881+3322+19678= 27881????????

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



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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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GX??CO2????????????
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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????????
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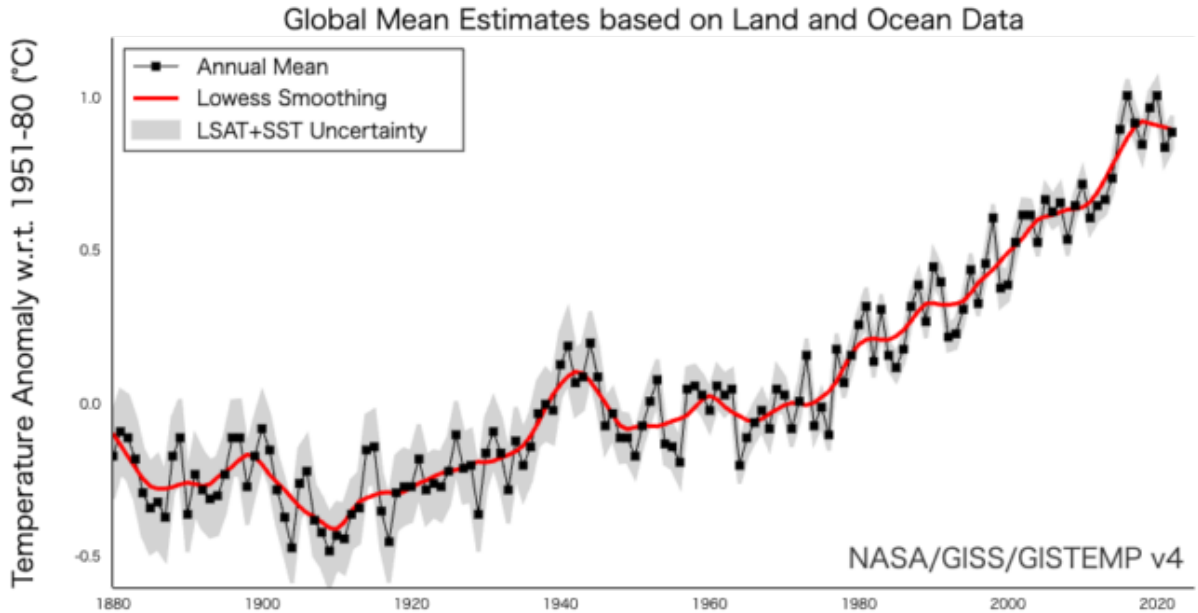
????????????????????????????????Green New Deal??Clean Power
Plan????2015????????????EV????????????2050?Net
Zero????????????2020?10????????2050?Carbon Neutral????????

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/>

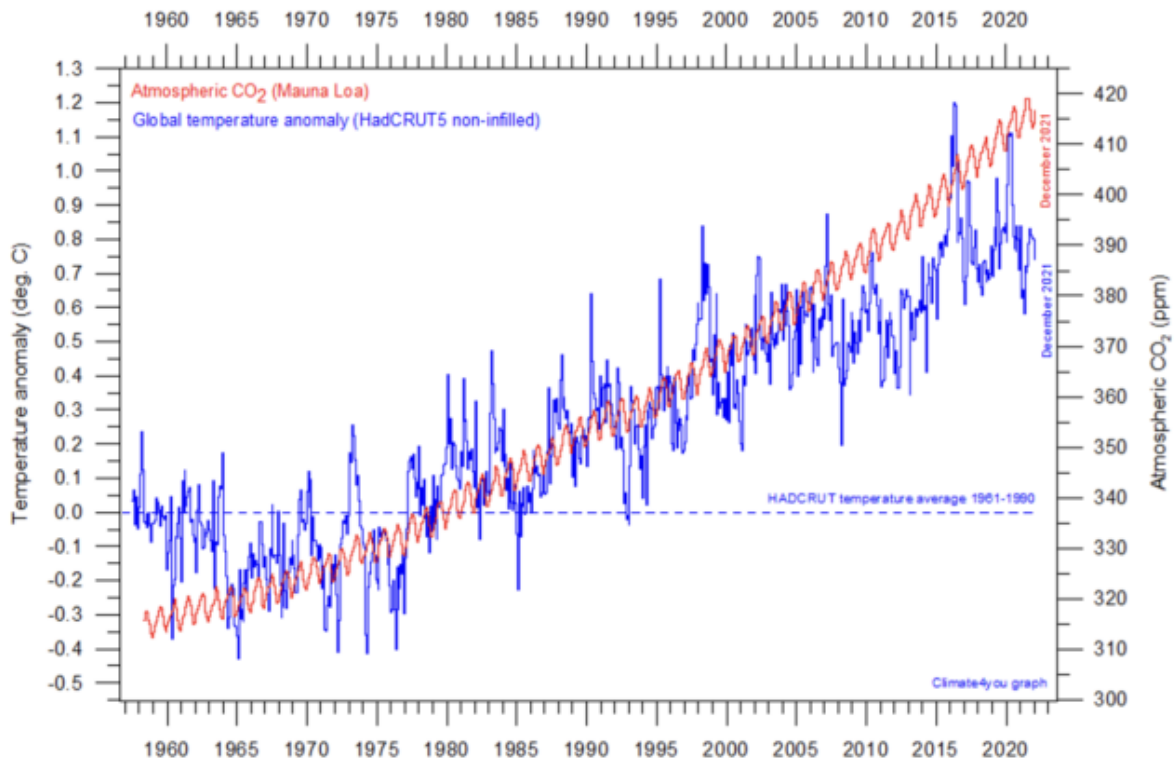


Data.GISS: GISS Surface Temperature Analysis (GISTEMP v4) (nasa.gov)

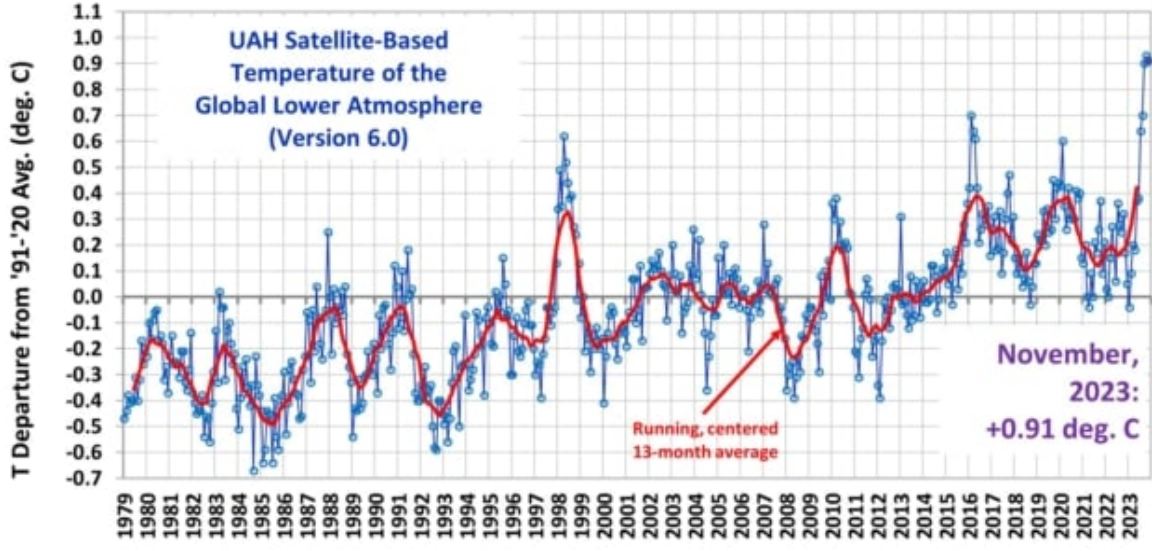
?? ? N A S A

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

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



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



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

?. ?????????????????????????????????

????????????????????CO2????????????????????CO2????????????????????600????????????????????CO
 2??
 ?????????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

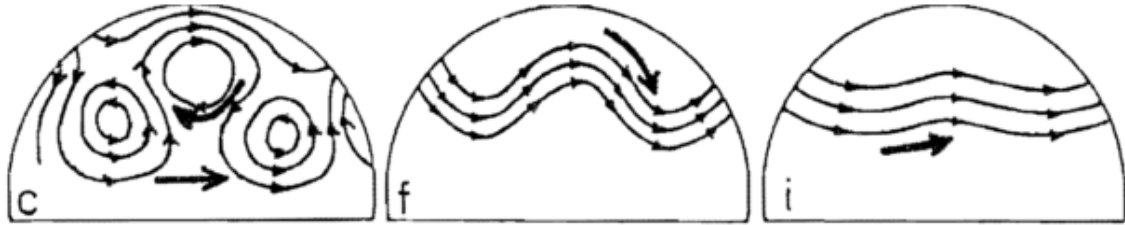
協力 江守正多 / 木本昌秀 / 塩塚秀夫 / 坪木和久 / 森 正人 / 渡部雅浩
 執筆 宮内 諭 (編集部)

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??



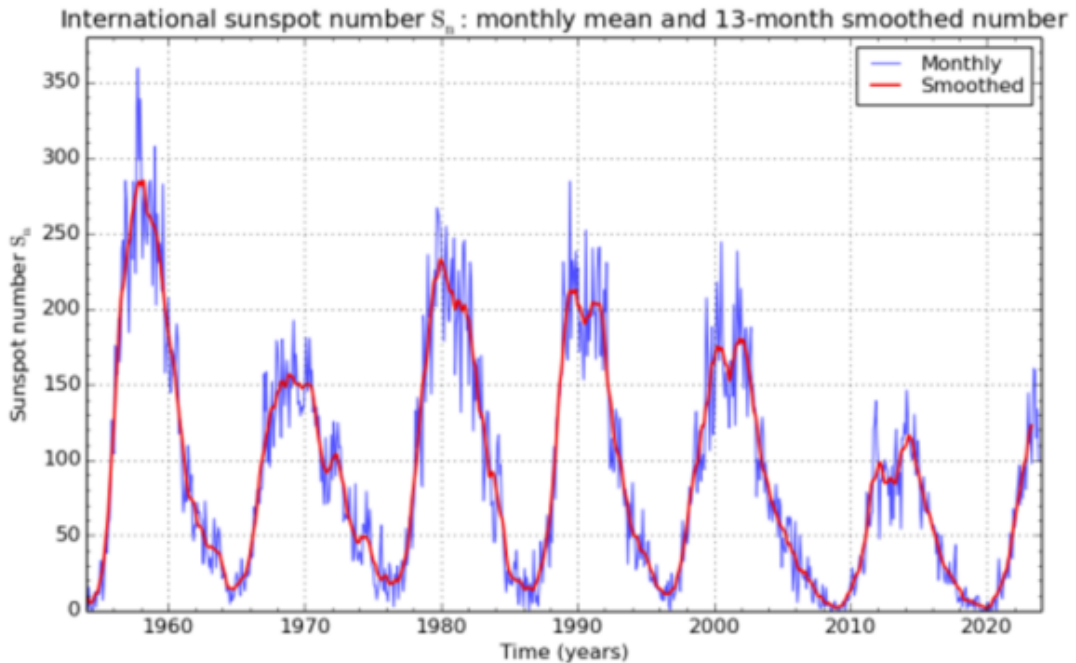
太陽活動低い
偏西風蛇行大
異常気象多い

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

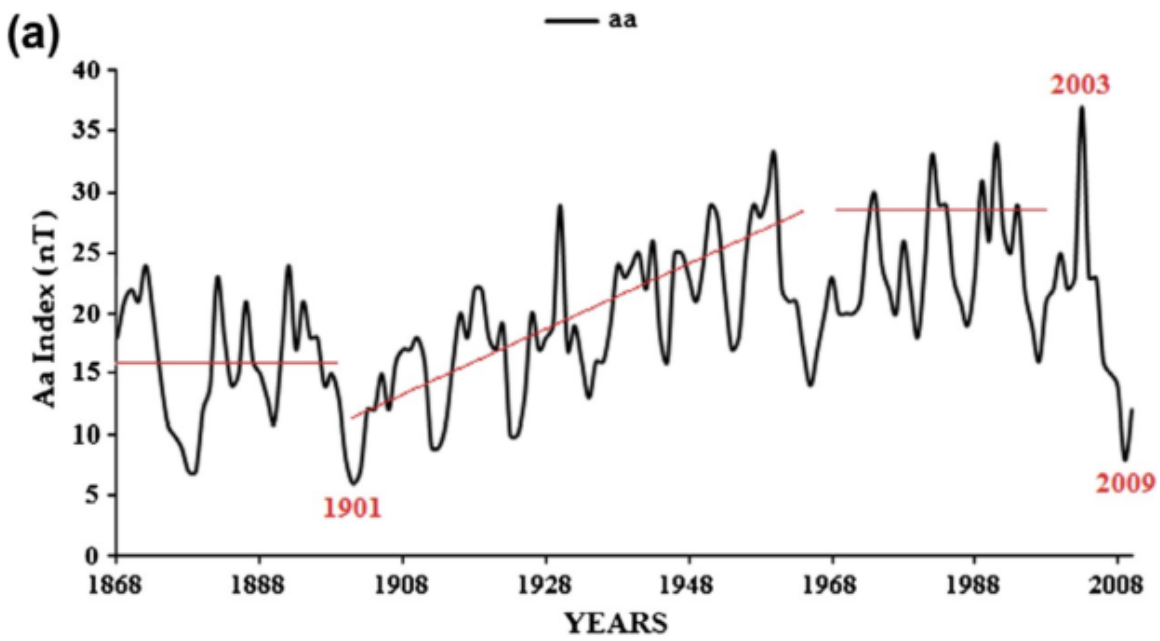
????????????????fake

science??44???????

????????????????????????????11??22??44???????????????

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

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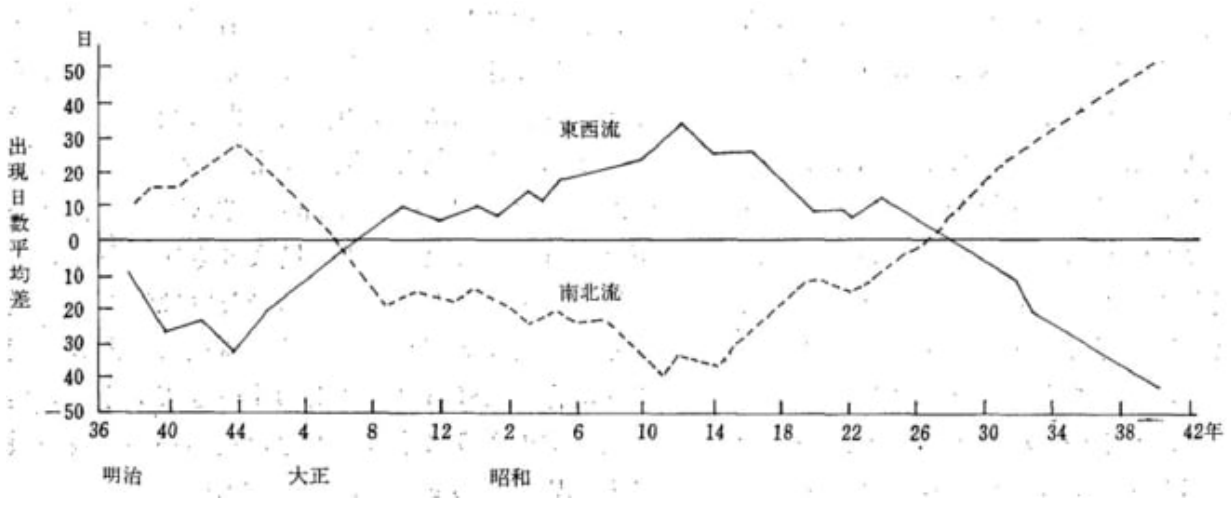


?????Zebro, J-L et al., Journal of Adavanced Research (2013),4, 265-274

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

IPCC?????1988????1977-2005?????????????????????????????????????2000???Independent???CO2?
 ?????????????????????????????

?????????????????2006??2005/12-2006/2?????????18????????????????????????????????????
 ?????????????????????????????????????2009????????????????????????

2006??	?????18????????????
2010??	????????
2010??	????????????????????????????????
2012??	????????????????
2013??	?????
2014??	????????????
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?
????????????????????????????

COP28????????CO2??
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?????? 1 ? ? ? ? ? J -
POWER?????????????????BBC??
????????????????????????

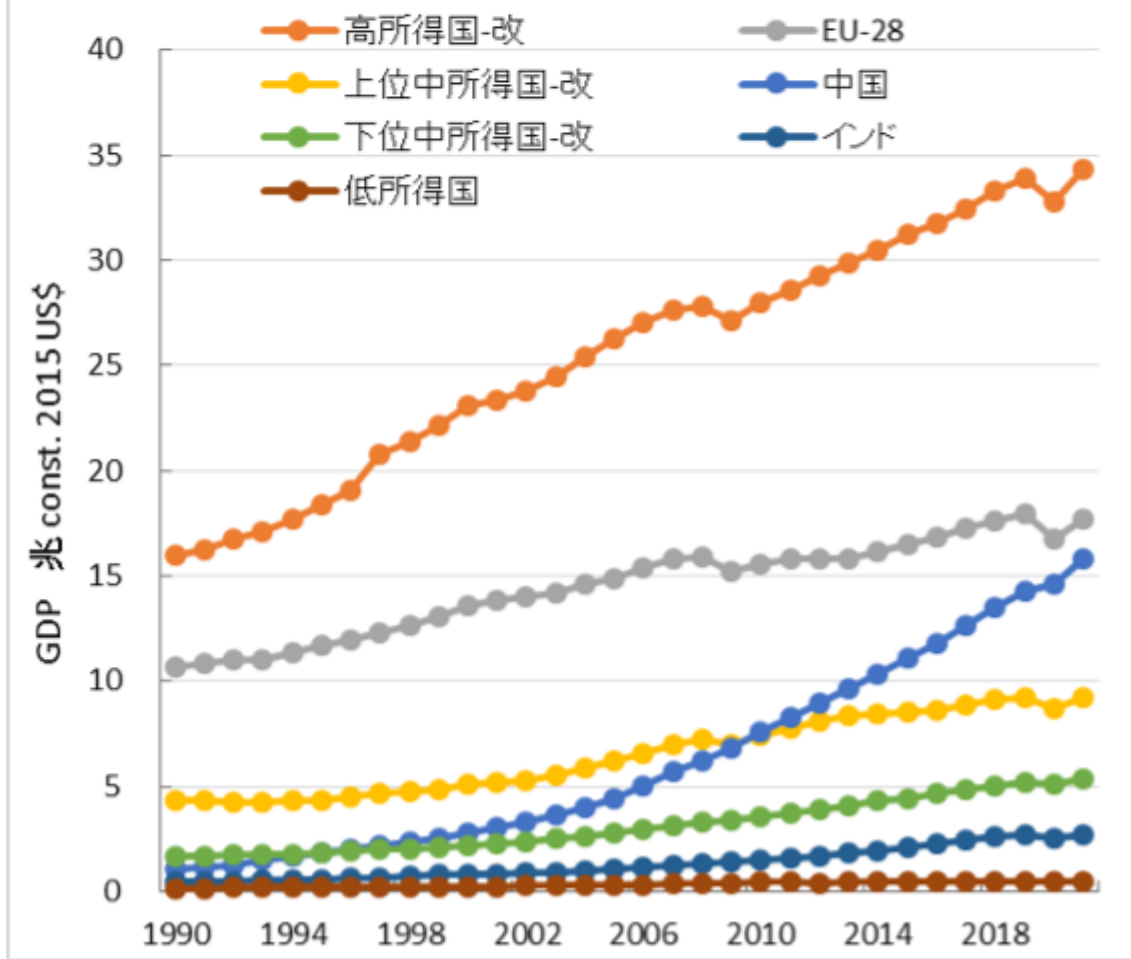
?

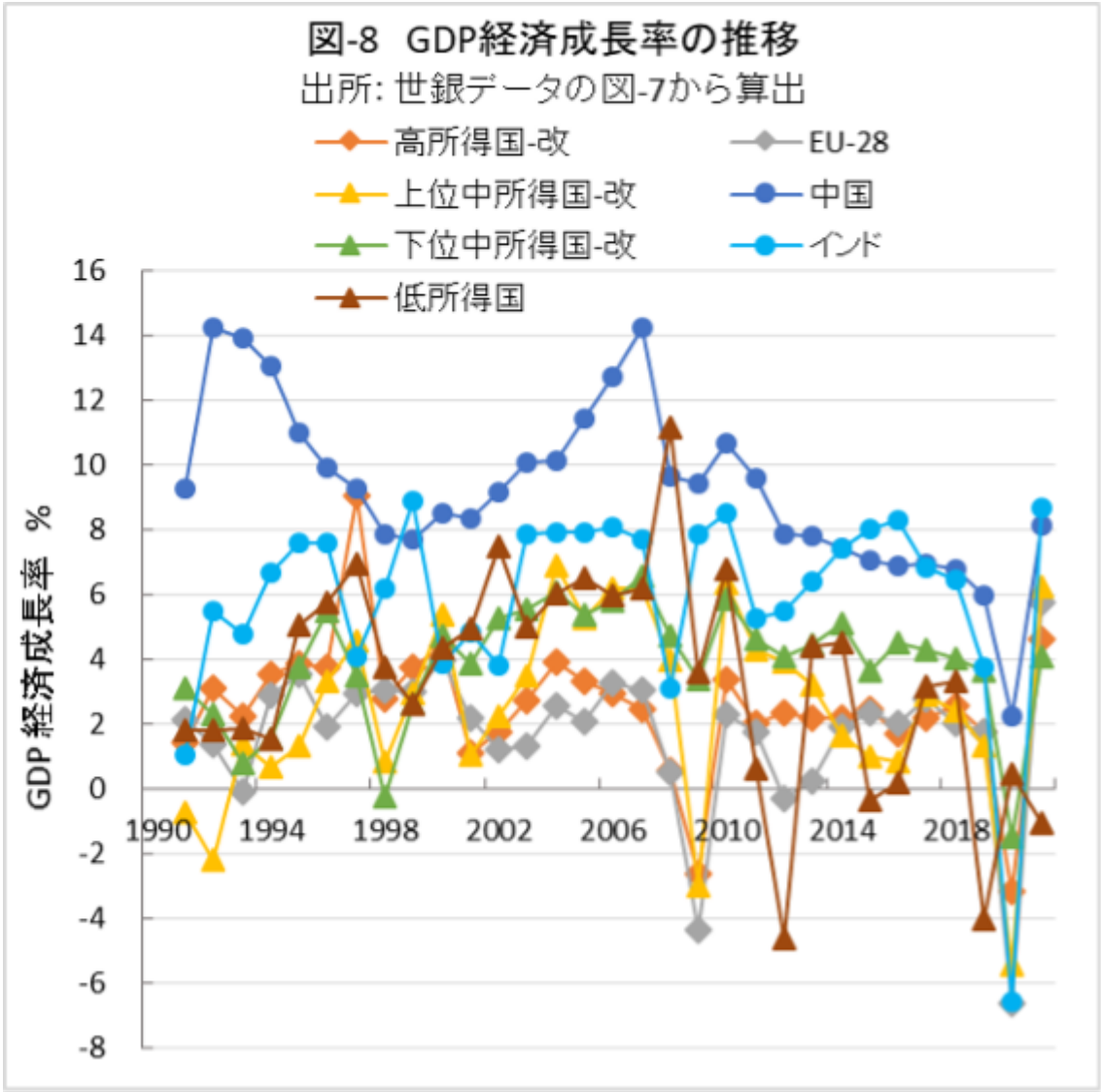
?1?

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.

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

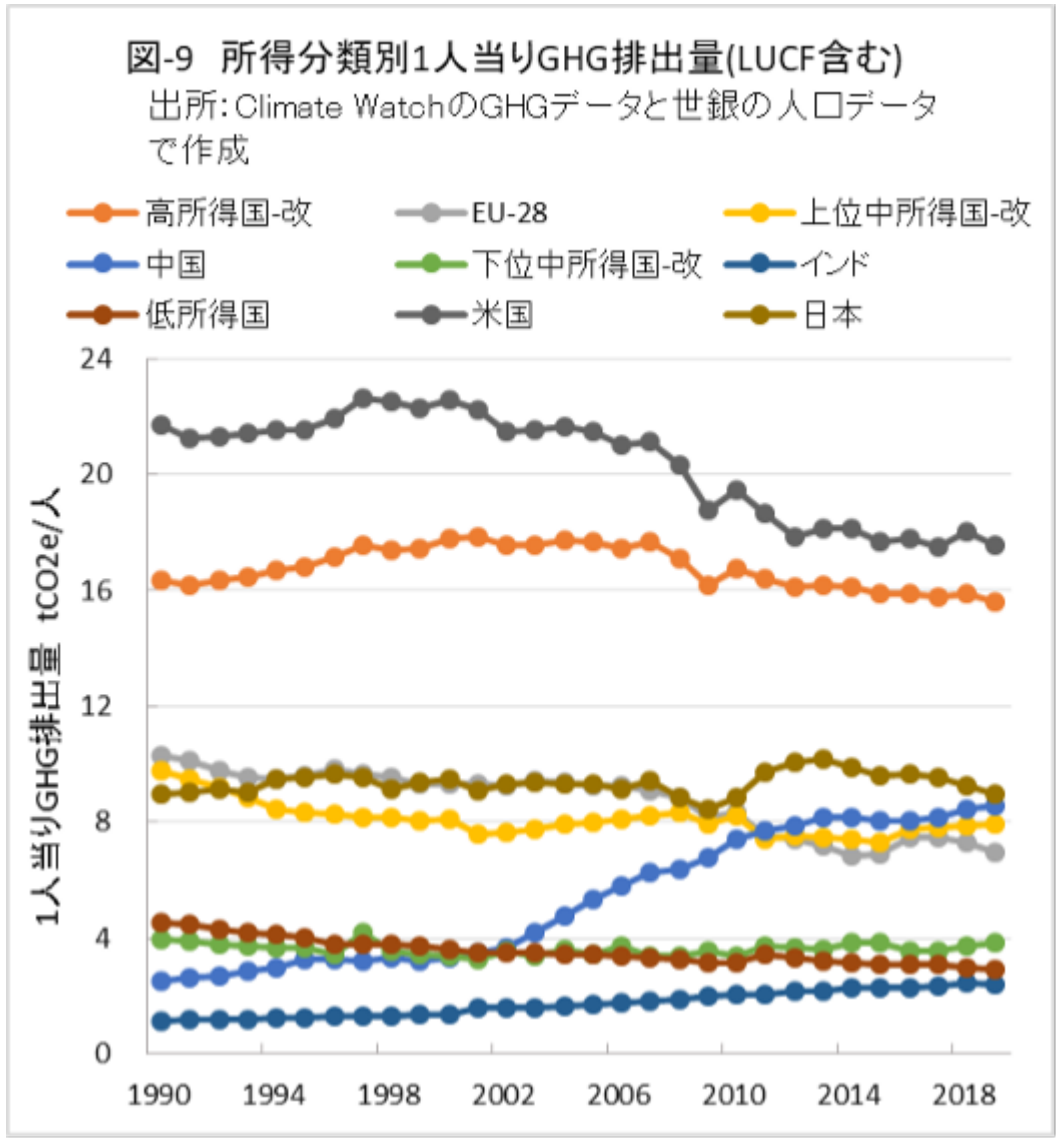
??????-??????????-
 ?????????????????2005????????6%????????????????2.5%?4%?3.4%???GHG????2000????????????????
 ?????????????????-????????????

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

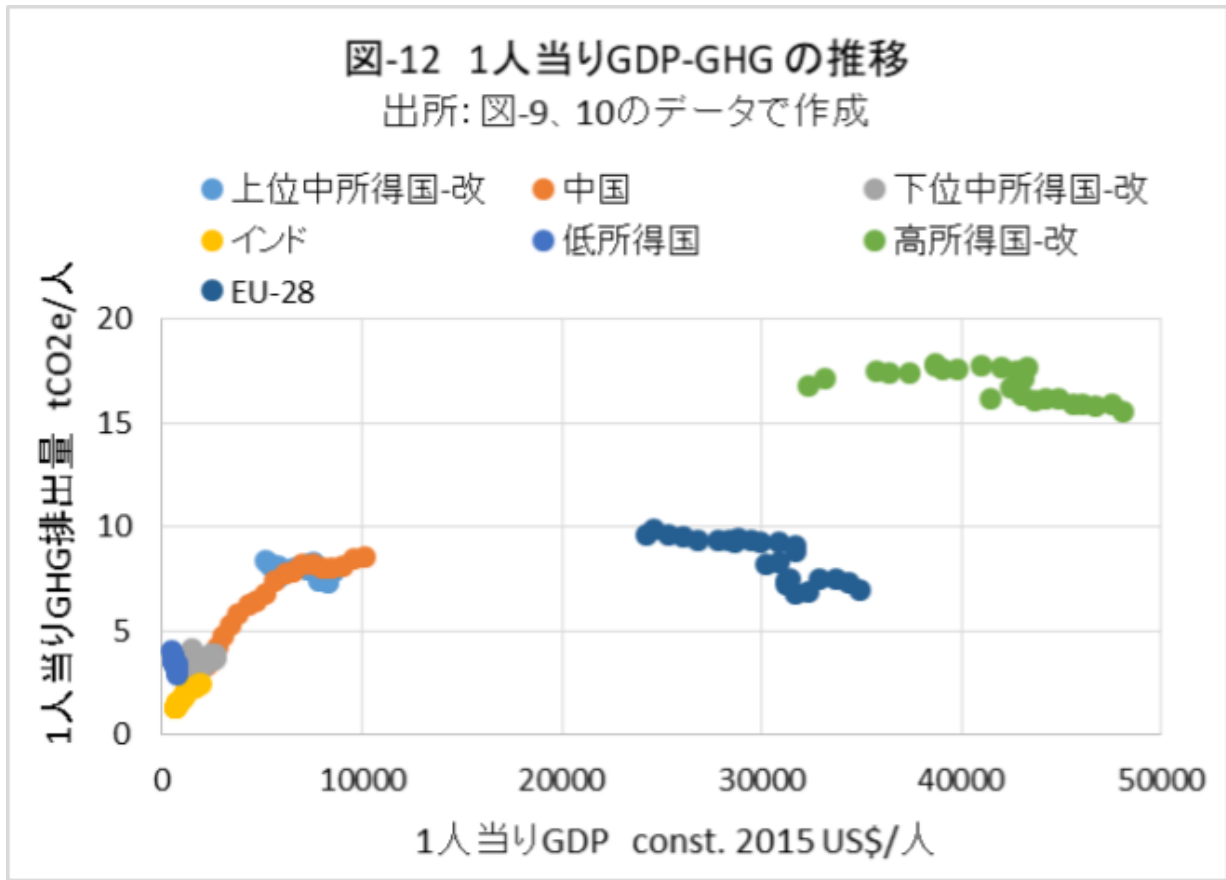
1???GDP?GHG

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

????????1????GHG????????????????1????GHG????????????????????????????????????2?????
??GHG????????????????????????????
?9????????1???GHG????????????????????????????????????10??1???GDP????????????



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



13 GHG

Request to Reconsider Proposed Regulations on Battery Electric Vehicles

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

???

????????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%

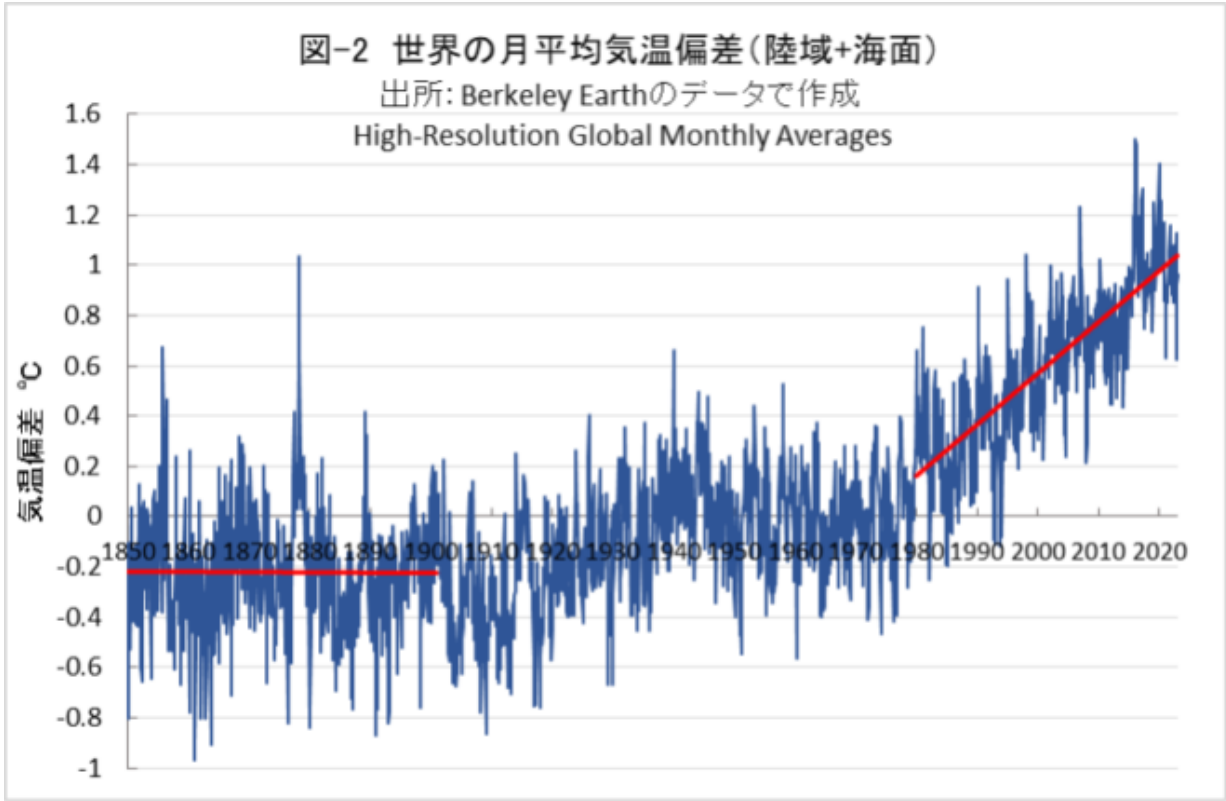
What Primary Energy Sources are Consumed in Germany? (2019/2022)

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

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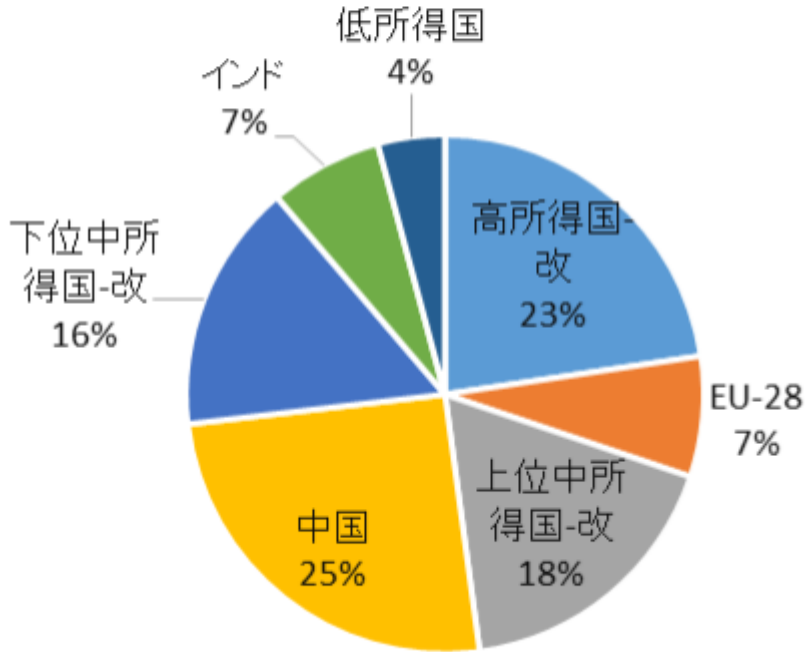


1850??????2022??????1.2????????????????????????????????2030????1.5????????????????????????1.5??
 ???

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

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

?? ?? · Saturday, December 2nd, 2023



mrdoomits/iStock

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

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??1942????????1????????????????????????????
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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????????????????????????????
????????????????????????????????600????????????????

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??EV????????????????????????????
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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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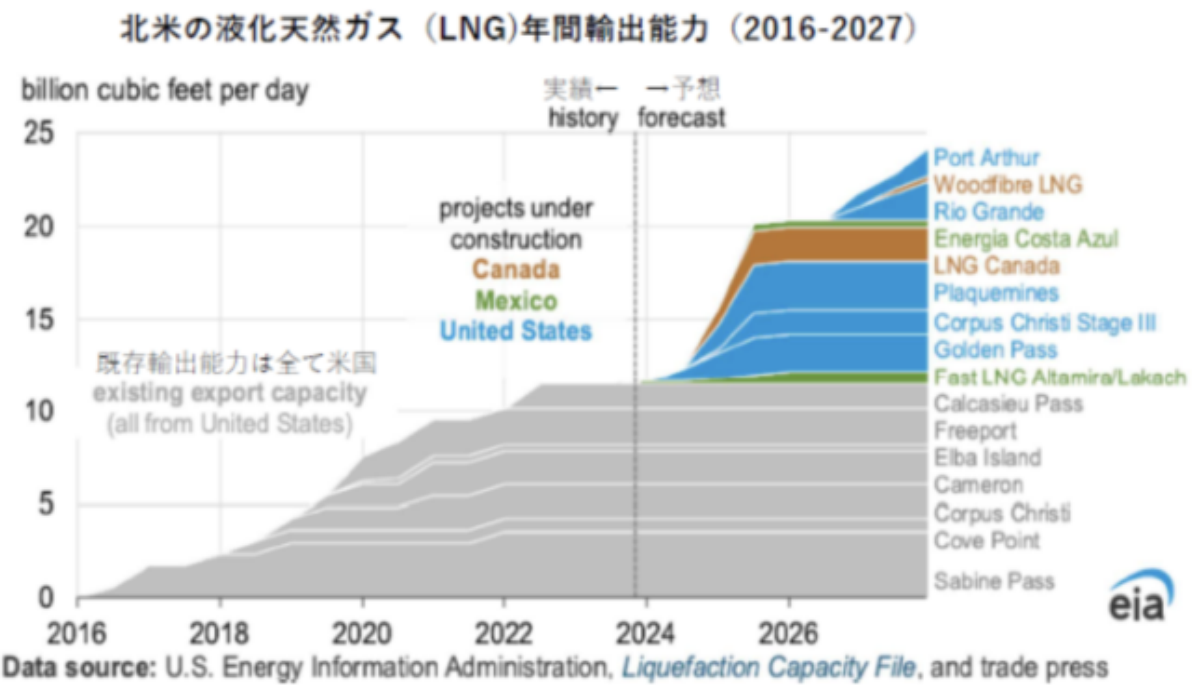
????????11??EIA????????????????????

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



????????????????????129?Bcf/????????????11?Bcf/????21?Bcf/????97?Bcf/????
????????????

????2010??2018????????
????????????????LNG????????2027????????????2030????????
????????????????????

Third World Network

Third World Network



IPCC 2025 2030 43 2030 60

GST BASIC LMDC Like Minded Developing Countries: 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

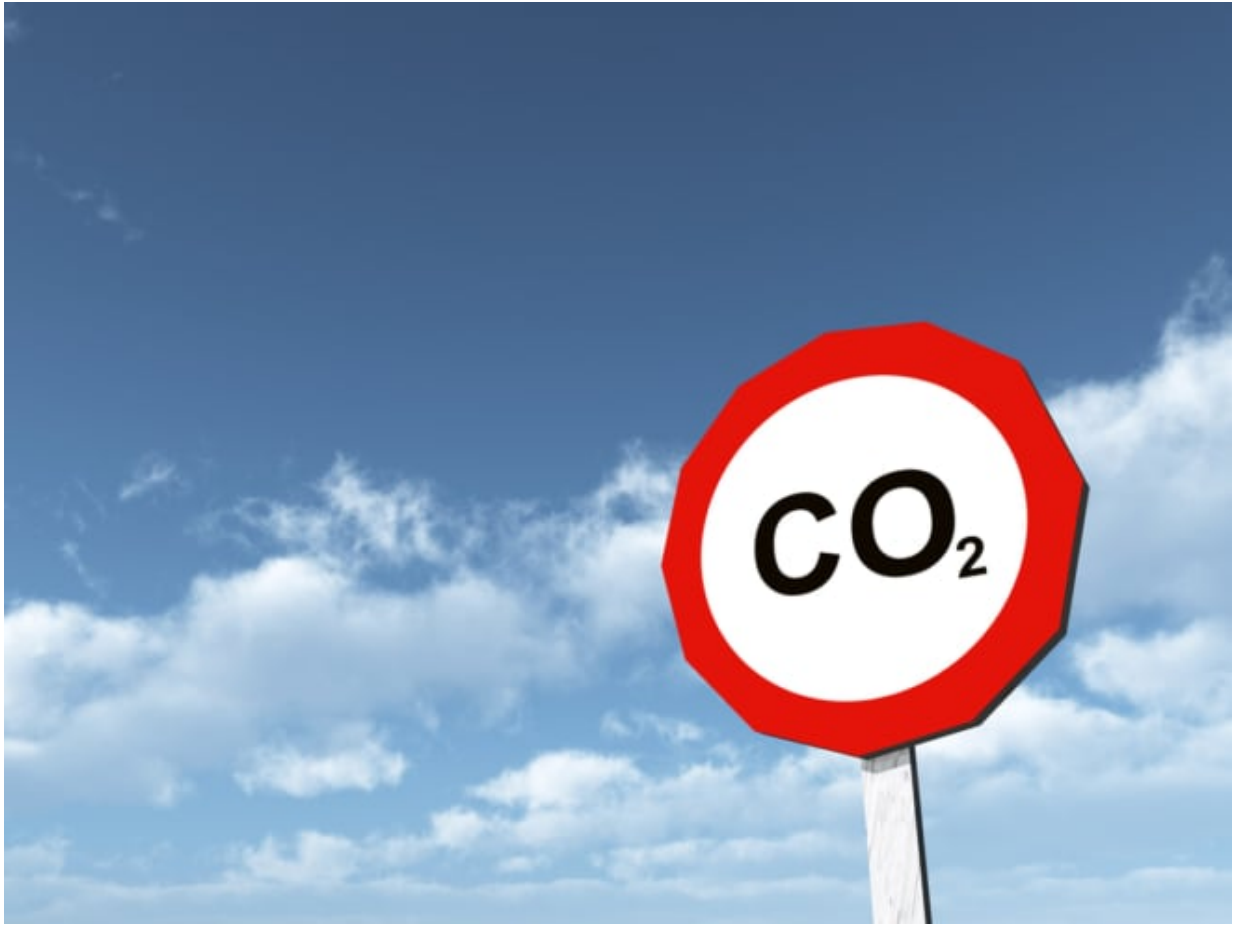
LDC

liability compensation 1000 2025

1

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

?? ?? · Saturday, November 18th, 2023

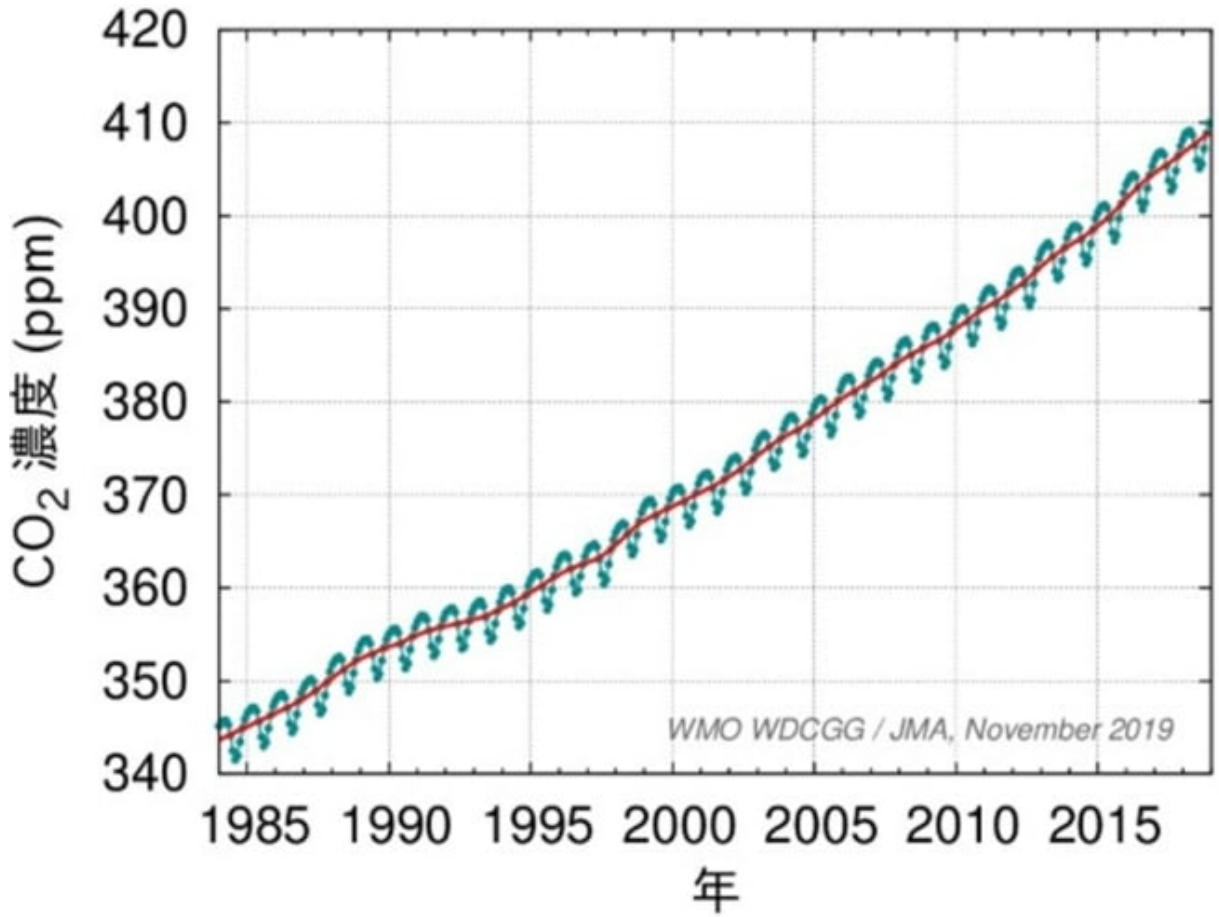


MR1805/iStock

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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???HP??

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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

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



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

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????????CEO?23??

??2022?9????????????
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????????????8,800????????????????????????8,800????????????3????????
??3????
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??IT????????
????????????????3????????????????????????????

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

????????????????300????????????????

?? ?? · Thursday, November 2nd, 2023



PhonlamaiPhoto/iStock

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- ???
?????MOX??MOX????????????????????
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- ???MOX????????????????????????????????????
X??

300???????????????

????????????????????50????????????????????300????????????????????390????????????260????????????
???300??

??1000????????????????????????????
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??4000??
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????????????40????????????????????????????????????40????????????????????

????????5?????

1. ?????????????????????
2. ?????????????
3. ?????????????????
4. ?????????????????????????????????
5. ?????????????

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

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

?? ? · Wednesday, November 1st, 2023



Kirillm/iStock

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

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??????????

?1??
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?2??1973??????
??????????????

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

?4?????????????????????????????????5 IEA????????????12????????????????????
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