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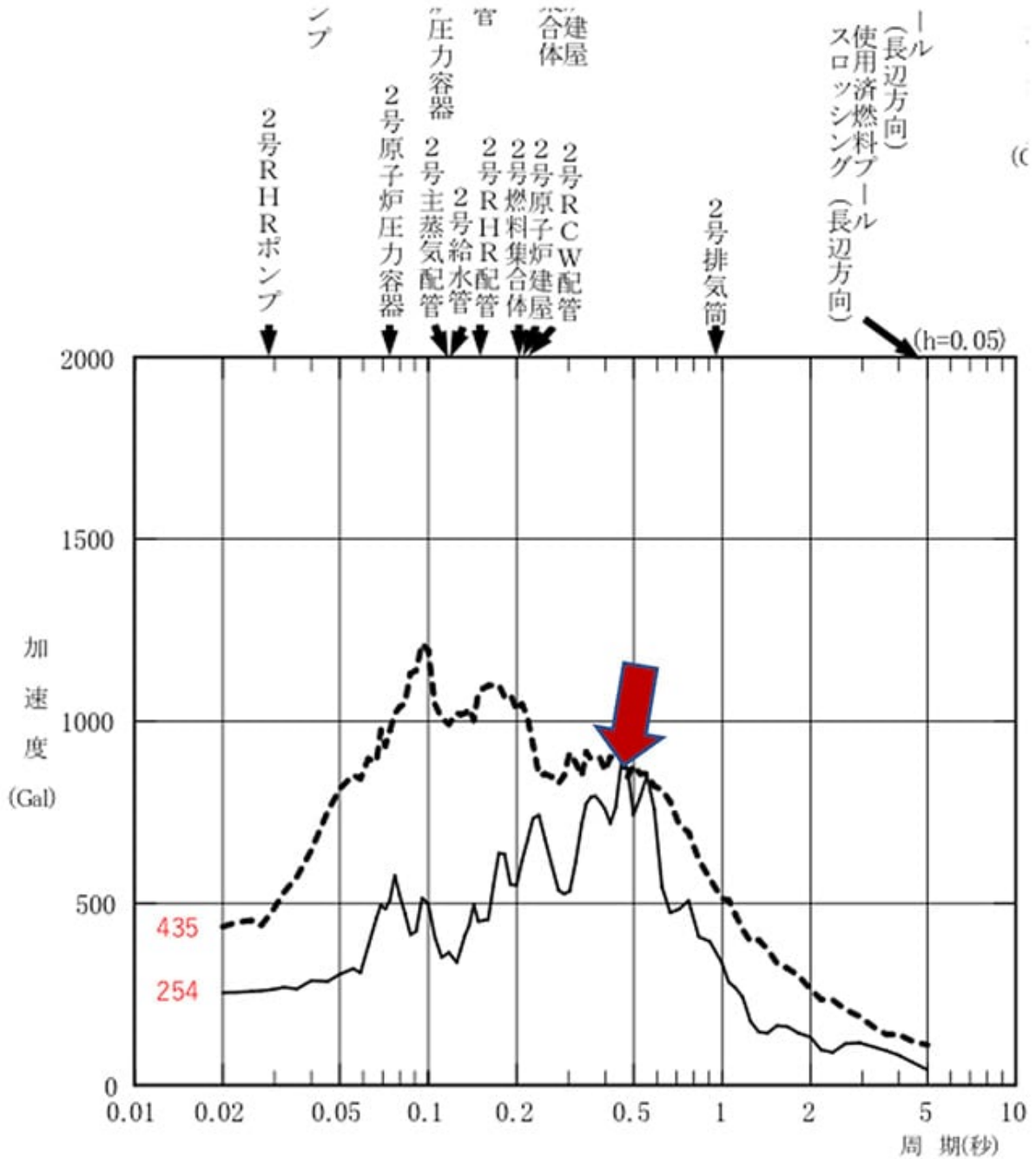
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- 2?????????????????????1000? ???????????
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?????600??0.47????????????????????
 ??????871????600??“?”????????????????????846????????????????????

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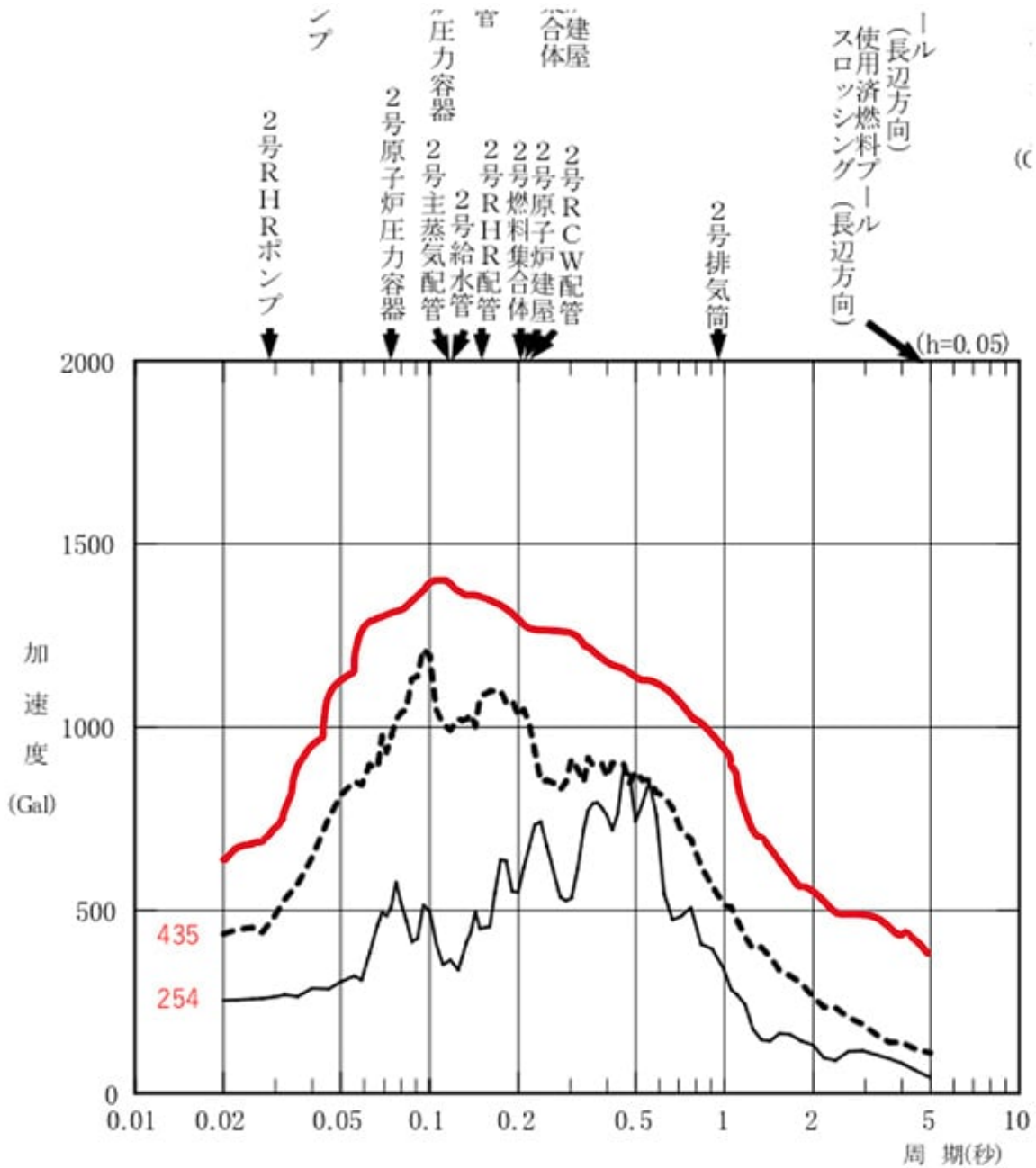
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特設サイト
 能登半島地震による各原子力発電所への影響について

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

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?? ? · Wednesday, January 24th, 2024



Cinefootage Visuals/iStock

2023?12?????????COP28????????????????????????????????

COP28??2050????????????????????????????10??
??transition away from fossil
fuels??

??COP28??2??28????
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 ???OPEC??2022??28??????????10.6????????????????
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Posted in ???, ????? | No Comments »

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

?? ?? · Saturday, January 20th, 2024



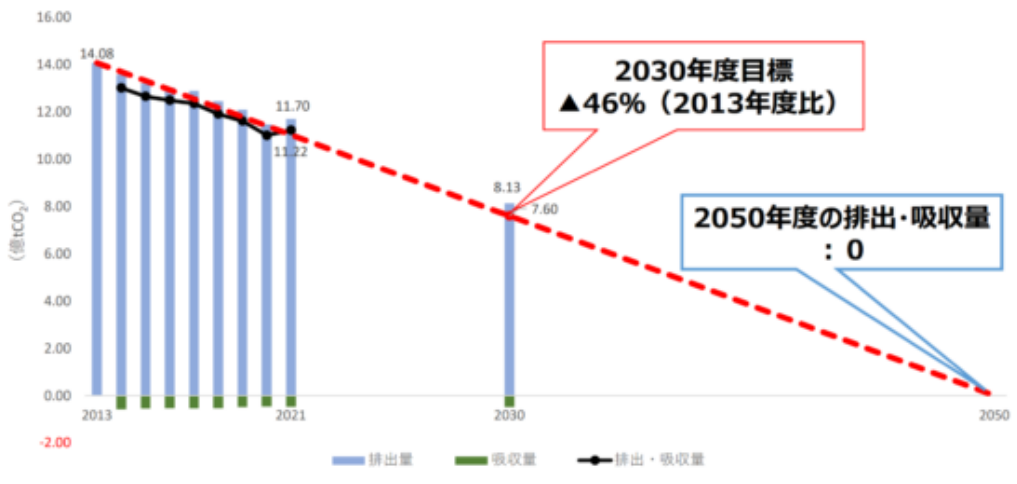
Slavica/iStock

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2030年度目標及び2050年カーボンニュートラルに対する進捗



- 2020年度からの増加については、コロナ禍からの経済回復により、エネルギー消費量が増加したこと等が要因と考えられる。
- しかし、2019年度からは3.4%減少しており、2030年度目標の達成及び2050年カーボンニュートラル実現に向けた取組については一定の進捗が見られる。



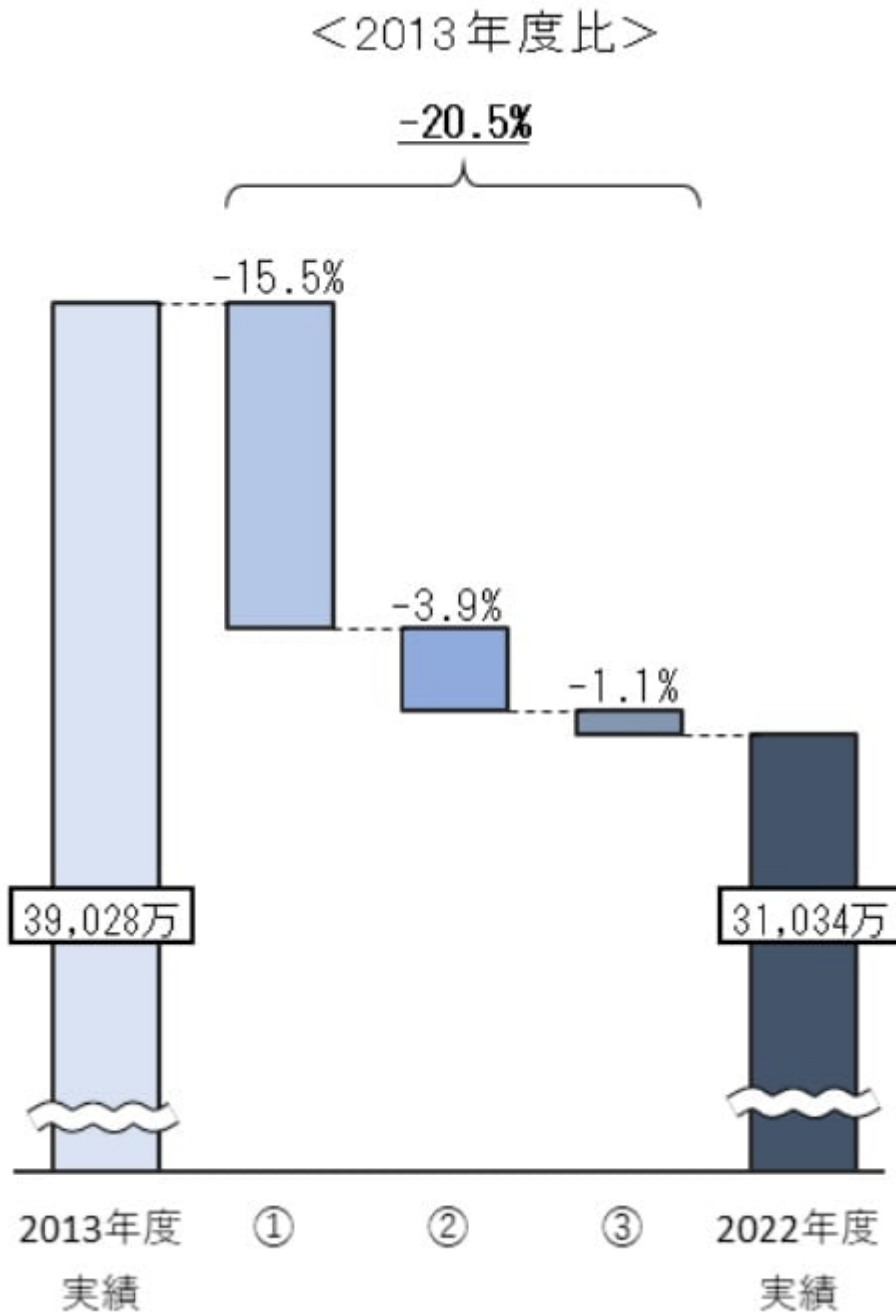
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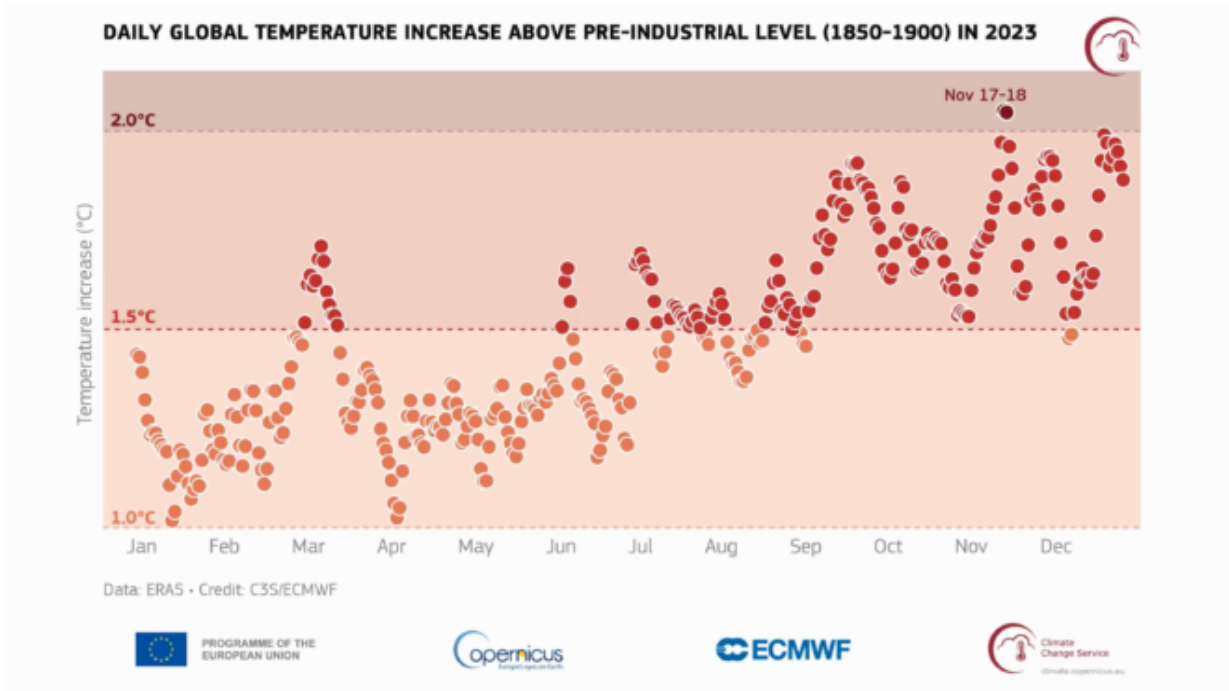
Posted in ??????????, ??, ????? | No Comments »

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

?? ?? · Wednesday, January 10th, 2024

EU????????????2023????????????1.48????????

????????1.5????????????0.02????????1.5????????
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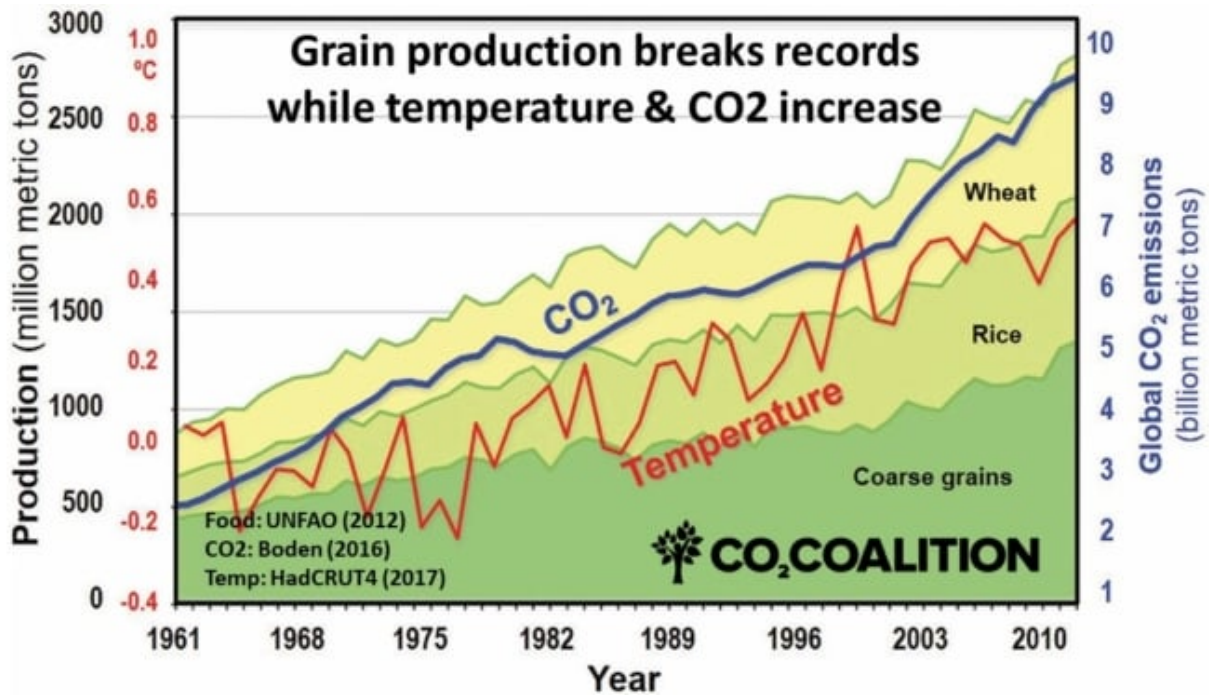
????1.5????(ABC News)

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

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Foresight??

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Posted in ???, ????? | No Comments »

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?? ??? ?? · Tuesday, January 9th, 2024

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??145??18??????????????41??????

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

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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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B.
2021?3?16???HD????2021?4?14?HD????
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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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2030 3 2 CCS 29

COP CCS

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COP28 OPEC

12 UAE

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2030 5.8 5.9 67 2050 2030 4 3,000 2050 75 68 69

1.5 1000

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2021 1.5 2030 2010 45 2021 2022 2023 3

1.5 COP

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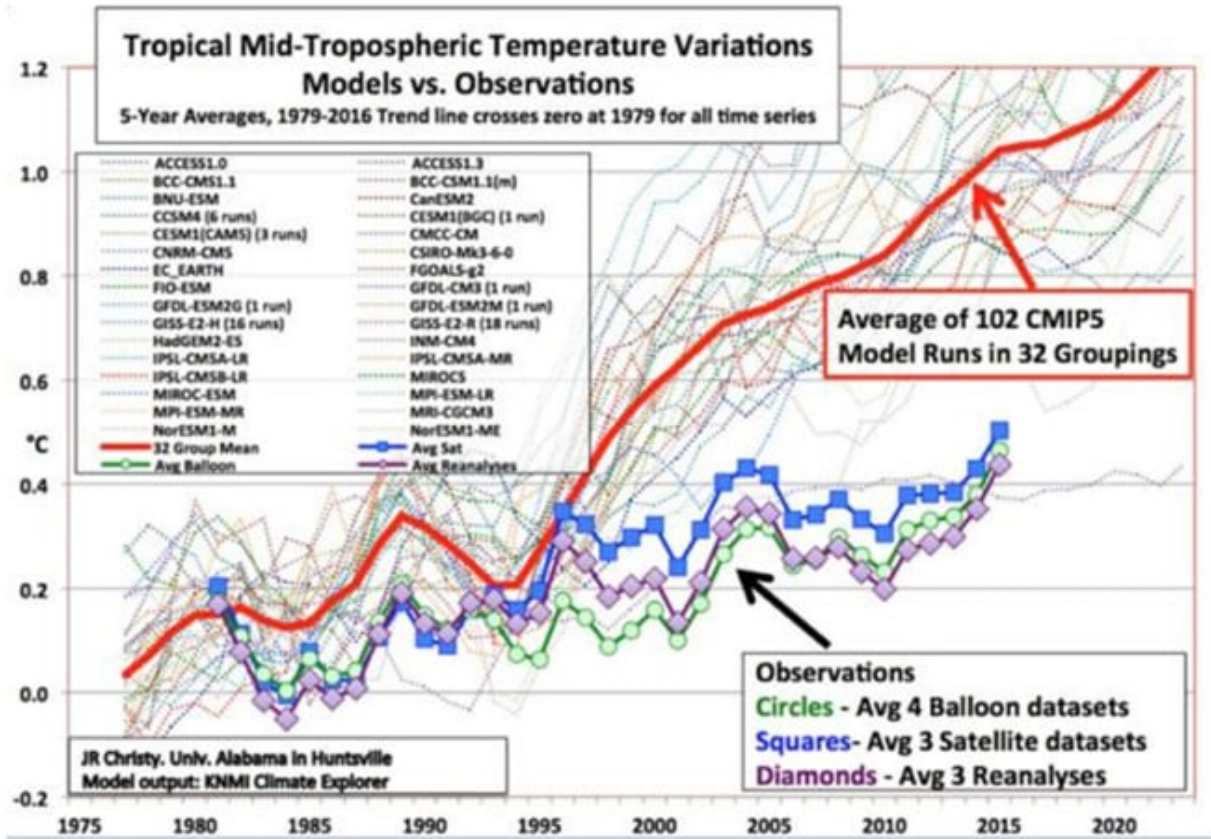
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COP28 ??????????????????

COP28????????????NHK???????????? “?????”???????????? ?????? ?????????
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3. 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????????1997?COP3????????

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????2015????NDC????2????1.5????2016????

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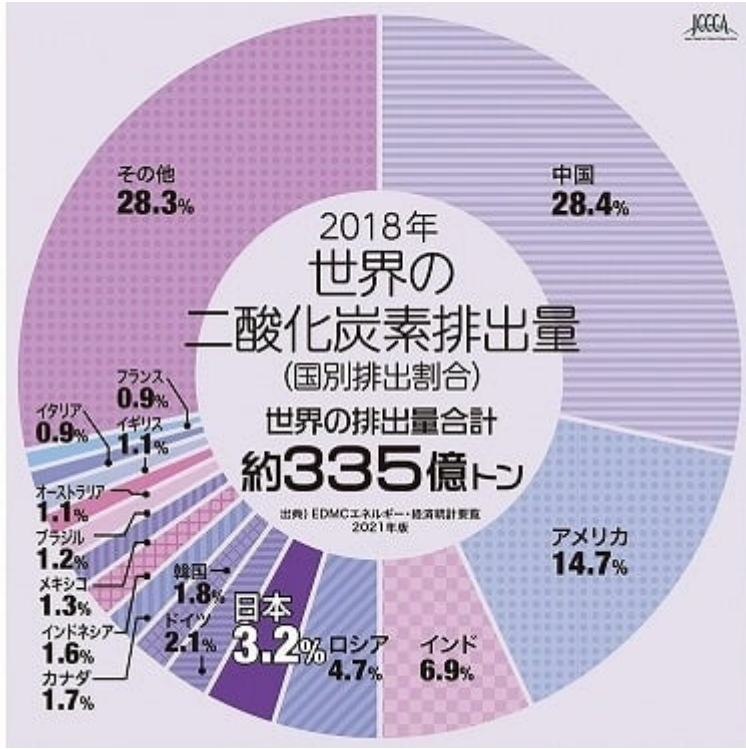
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Posted in ??????????, ???, ????? | No Comments »

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.

The conferees went into “overtime,” however, and were able to hammer out a “historic” deal to “**transition away**” from fossil fuels in a “just, orderly, and equitable manner” to “achieve net zero by 2050.”

There was still some grumbling about a much weaker agreement than the climate faithful wanted. The coming months will surely be filled with debate about what “**transition away**” means, compared to the originally desired language of “phase out,” and just how many exceptions will be granted under the rubric of “just, orderly, and equitable.”??????

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



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

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

DeepL?NHK??????transition away????????????

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- ?????????????????COP28?12?13??????
- ?????????????10????COP28?12?13??????
- 10????????????COP28?????12?13??????
- ?????????????COP28????????12?13??????
- ???COP28????????????12?17??????
- COP28????????????1?????12?13????????
- COP28????????????12?13??????
- COP28????????????????????????12?14??BBC????????

COP28????12?18??

(7) 公正な移行

COP27 で決定された「公正な移行に関する作業計画 (JTWP)」について、雇用、エネルギー、社会経済等の要素を含むこと、作業を 2026 年まで継続し、その時点で効果や効率性について評価を行い、継続を検討すること等が決定された。

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

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?? ?? ? - Thursday, December 21st, 2023



Ignatiev/iStock

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

12?17??7?????????EV????????????????????5?????

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?3.5??

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??16?17??no farmer, no food, no future??

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Posted in ???, ?? | No Comments »

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

?? ?? · Tuesday, December 19th, 2023



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

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

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



deepblue4you/iStock

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

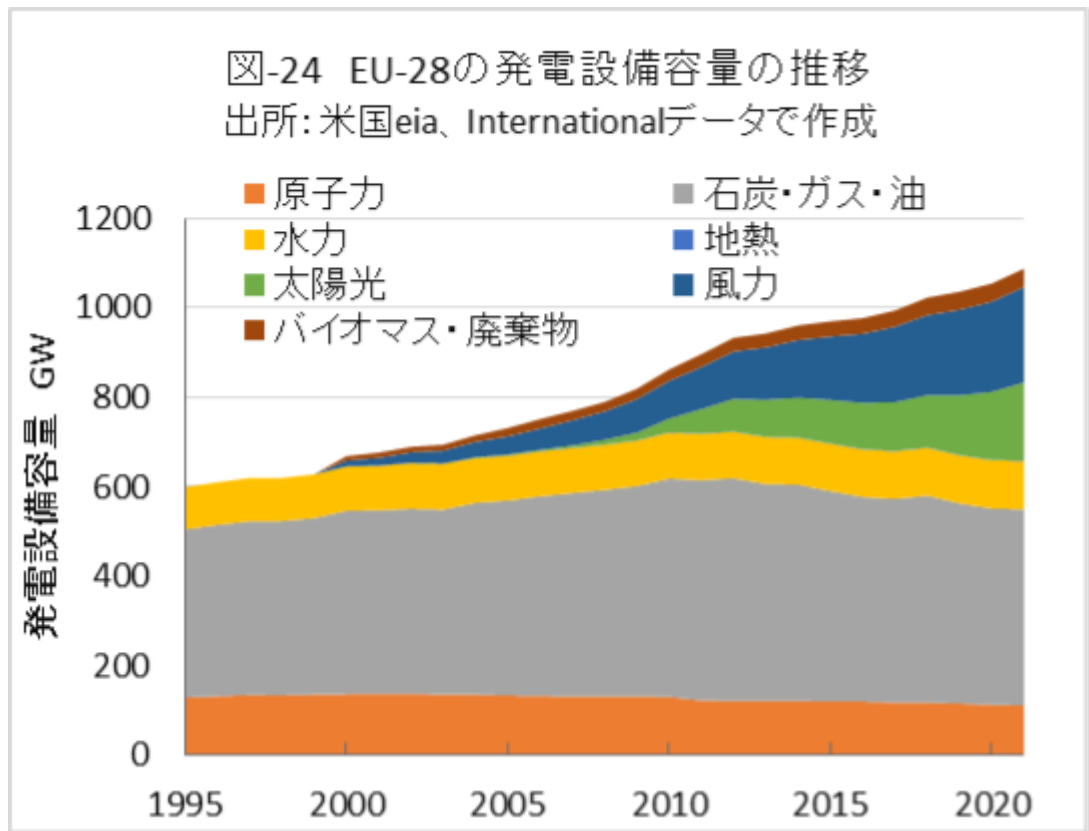
?23??-

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GHG????????????????????EV??VR
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EU??VRE???

24??EU-28??2000????????VRE?????????2010?????????????????
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VRE????????????????GHG????????????????????????????VRE????????????????????????????CO2?????????
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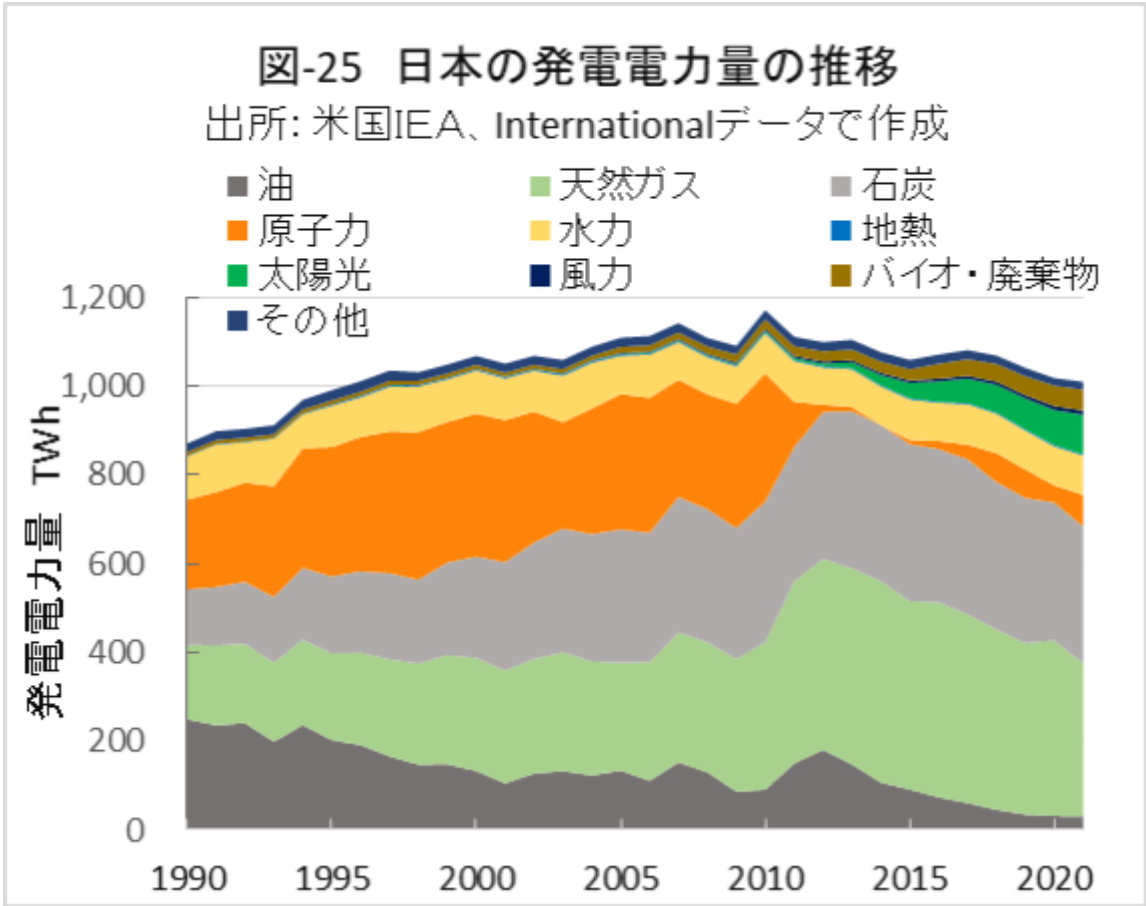
VRE??

????????50% ?????????????????????????10% ???
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??25????????????????????????????????1990????????1?kWh????????
??2009????????????????????????????????



2011年3月11日の東日本大震災以降、発電電力量は約25%減少し、LNGの導入が顕著な特徴となってきた。

2012年7月のFIT制度の導入により、再生可能エネルギーの発電電力量は急増し、2017年には約25%に達した。FIT制度の導入により、再生可能エネルギーの発電電力量は急増し、2017年には約25%に達した。

再生可能エネルギー(VRE)

VREは、GHG削減に有効なVREである。

VREは、GHG削減に有効なVREである。

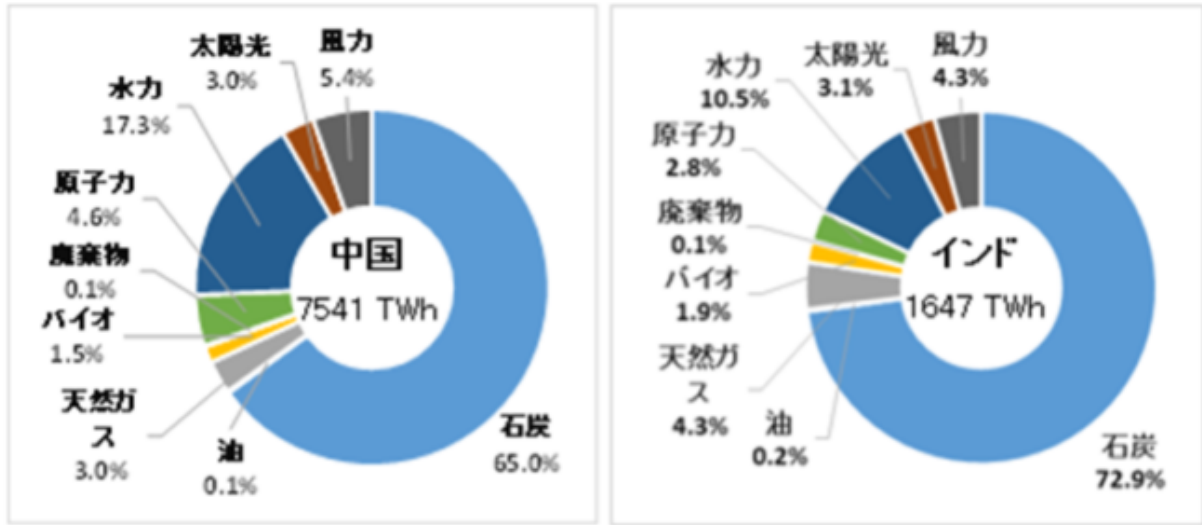
VREは、GHG削減に有効なVREである。

VREは、GHG削減に有効なVREである。

VREは、GHG削減に有効なVRE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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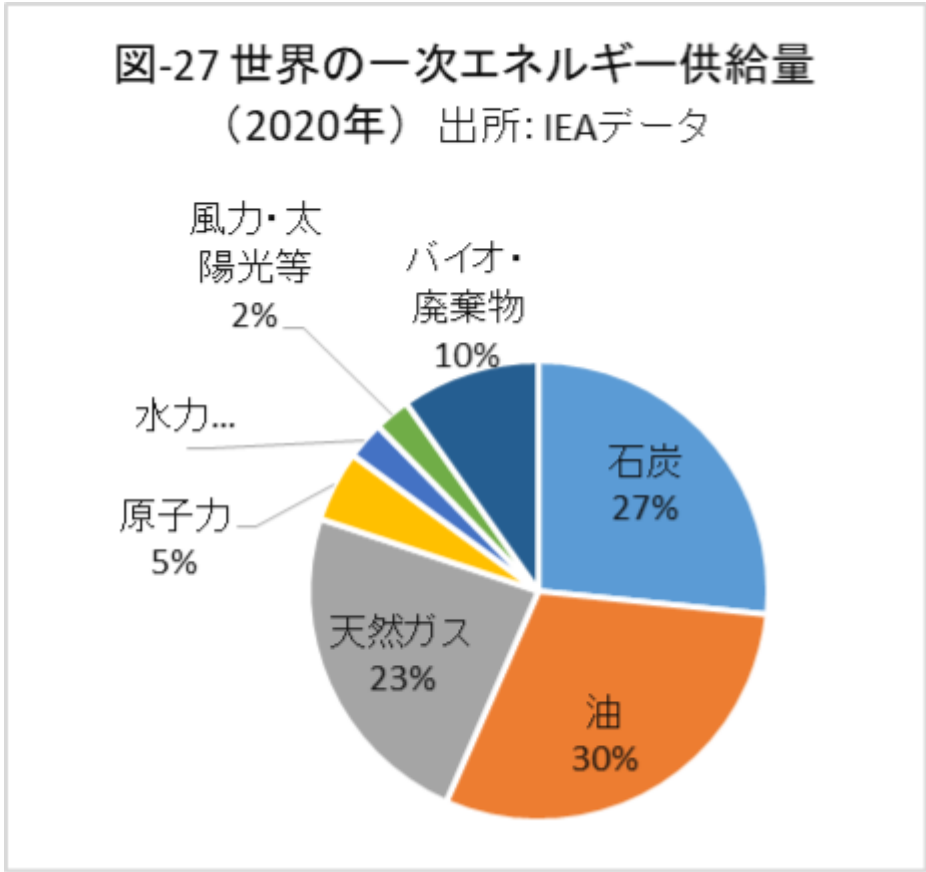
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2050?GHG??GHG????????????????

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

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

図-27 世界の一次エネルギー供給量
(2020年) 出所: IEAデータ



?28??29??7????????????????CO2???????????

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

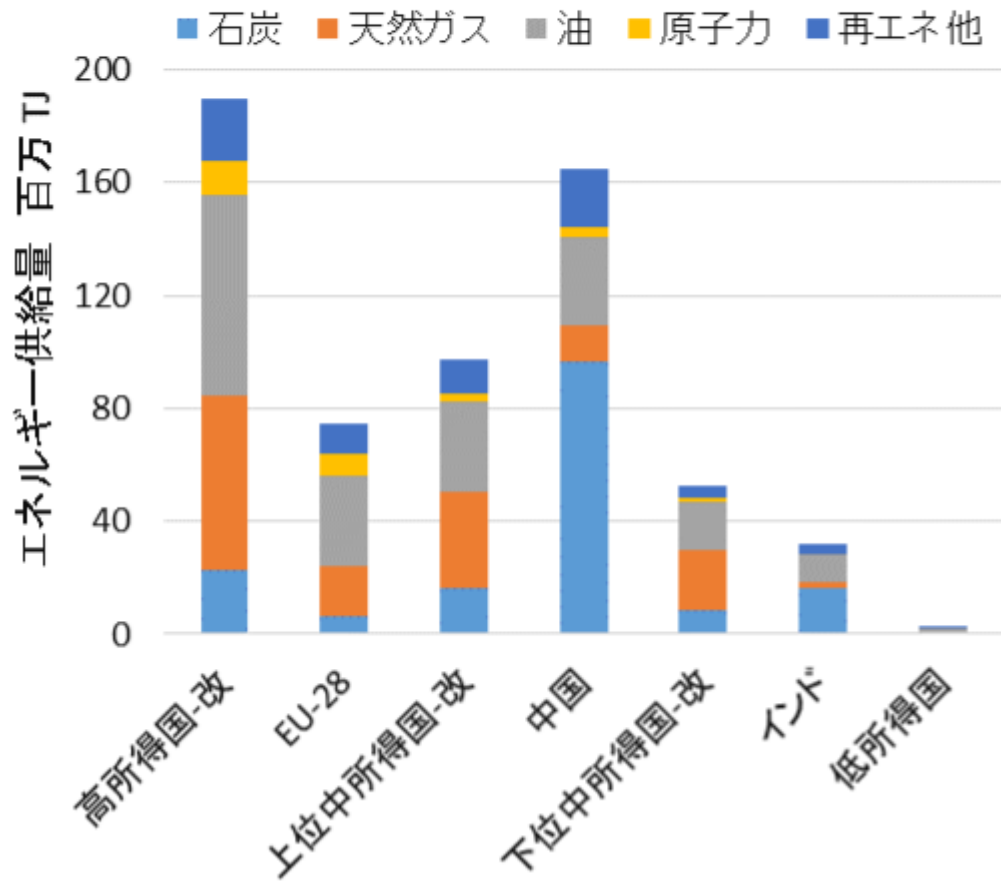
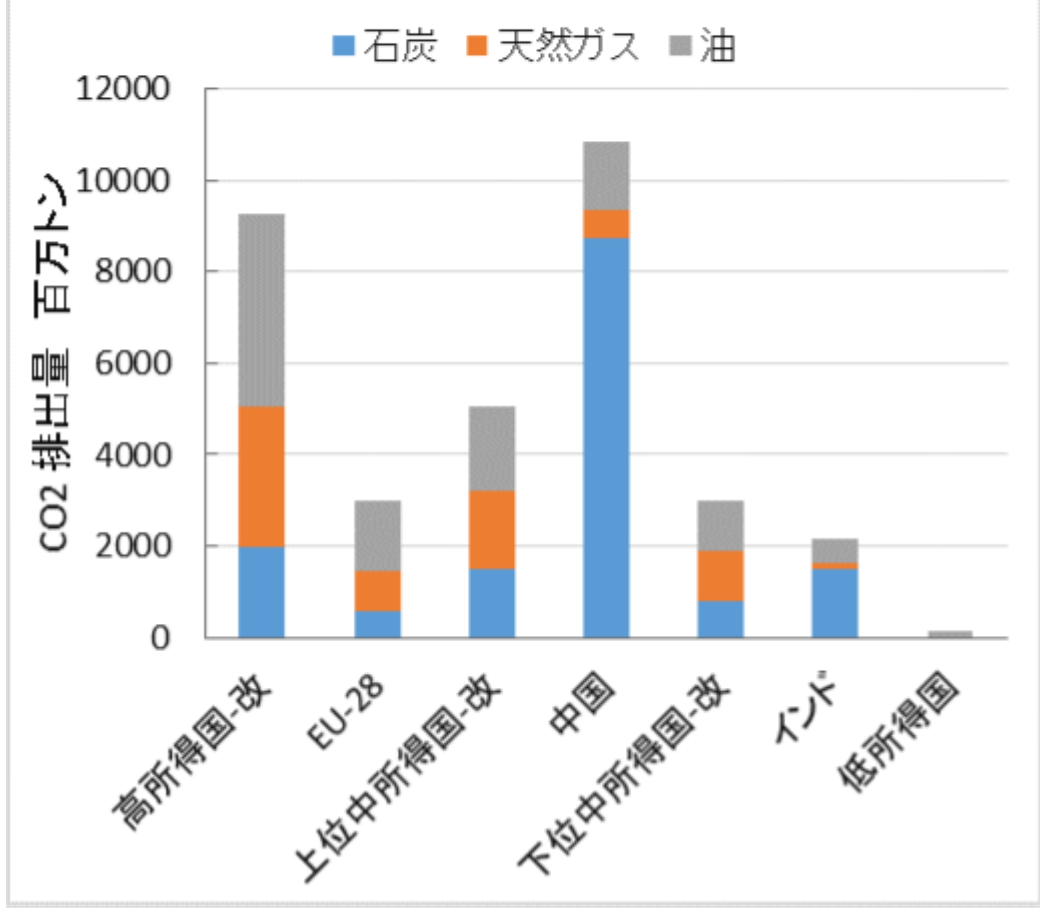


図-29 グループ別燃料燃焼CO2排出量 (2020年) 出所: 米国eia, Internationalデータ



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1.57トンを削減した。

70%削減し、GHG排出量を1.1トンを削減した。

30%削減し、1970年からの削減率を向上させた。

1970年からの削減率を向上させた。

2020年、世界のCO2排出量は52%増加し、16%減少した。

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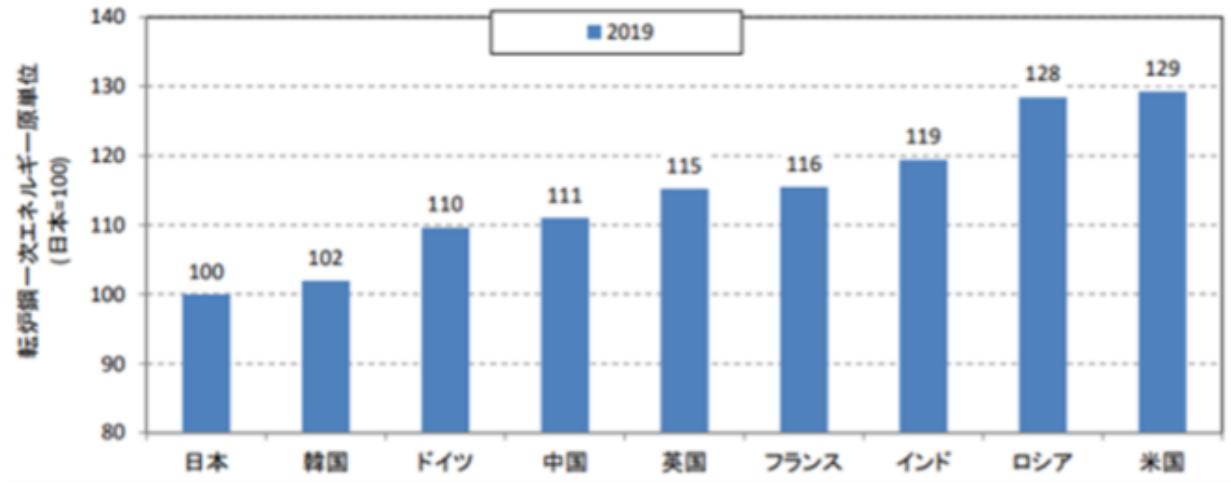
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図-30 高炉-転炉鋼の一次エネルギー原単位 (2019年)
出所：2019年時点のエネルギー原単位の推計(鉄鋼部門-転炉鋼)、RITEほか



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

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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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Charts??
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??2022??
??6%????????????????????

VRE??40%??

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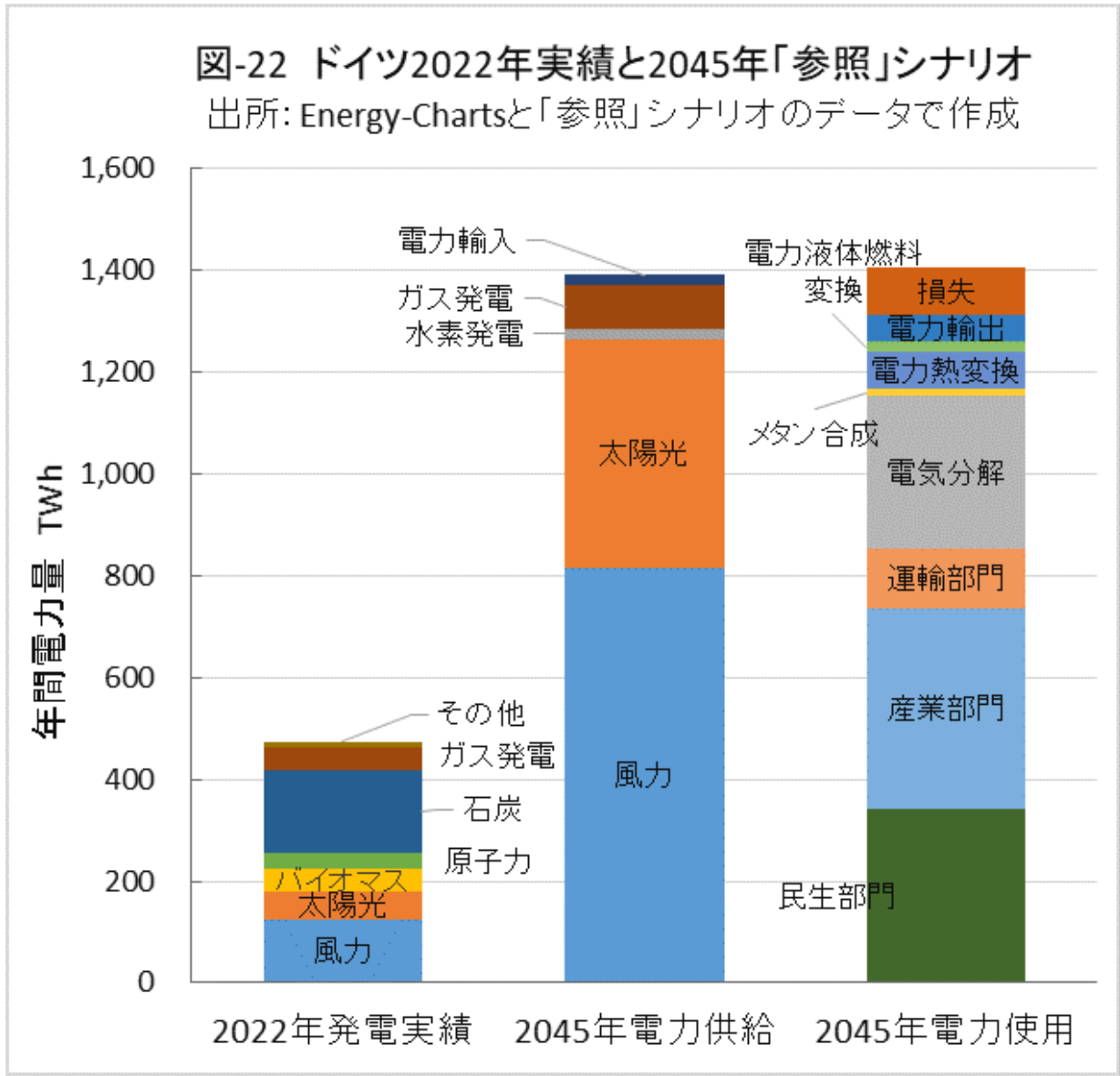
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??Power-to-
X??CO2????????????????????????3????????????

表-3 ドイツ2045年GHGネットゼロの風力・太陽光発電の変動対策

分類	技術名	電力不足時の対策	電力余剰時の対策
季節変動と発電ピークの抑制	風力と太陽光比率の適正化	風力発電と太陽光発電の季節変動を相殺	
	太陽光発電の抑制	ピーク発電量が大きい太陽光発電比率を抑制	
電力貯蔵	定置バッテリー	高応答性の電力供給	余剰電力で充電
	移動(車載)バッテリー	同上	電力余剰時に充填負荷をシフト
	揚水発電	同上	余剰電力で揚水
余剰電力の燃料変換	電気分解H2製造		高応答性の電力利用、H2貯留可
	H2ベースのメタン合成		発電・加熱用燃料
	H2ベースの液体燃料合成		移動体燃料、貯留可
その他	メタン・水素複合サイクル発電	ディスパッチ可能電源	
	ヒートポンプ熱電併給複合地域暖房	熱電併給で暖房	ヒートポンプで暖房と蓄熱
	電気発熱体	常時使用だが、CO2フリーのボイラ等代替	
輸出入	電力輸出入	再エネ発電の地域差を利用し欧州電力網を強化して輸出入	
	合成燃料・バイオ燃料輸入	国内燃料変換生産の不足を補完	
考慮されていない技術	CCS	CCSが石炭火力の延命になるという環境団体の反対による	
	原子力	原発分だけ再エネを減らせるが、福島第一事故で脱原発を決定	

出所: フラウンホーファーISE, 「気候中立的なエネルギーシステムへの道」, 2021年11月改訂の情報で作成

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

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?? ?? · Sunday, December 10th, 2023

????COP28??



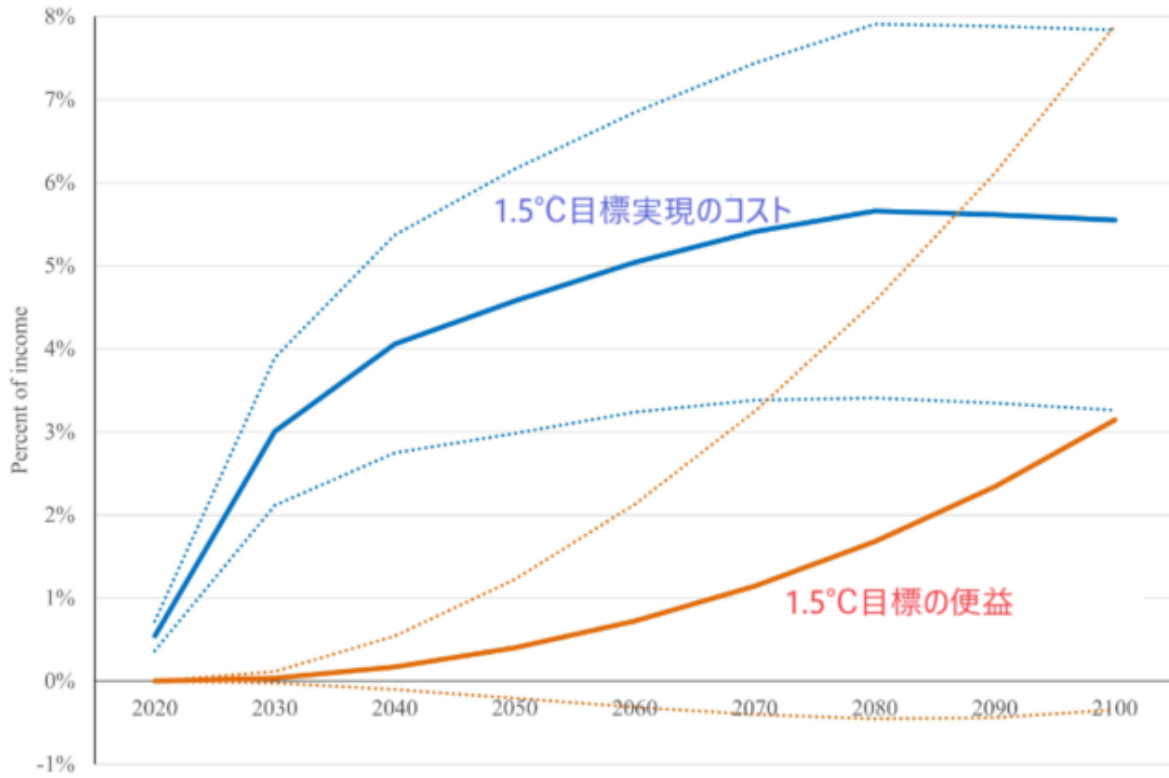
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??Richard
S.Tol????????????????????61????????39????????????????????????????????????

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1.5°C (Tol)

IPCC SSP5-8.5 2100

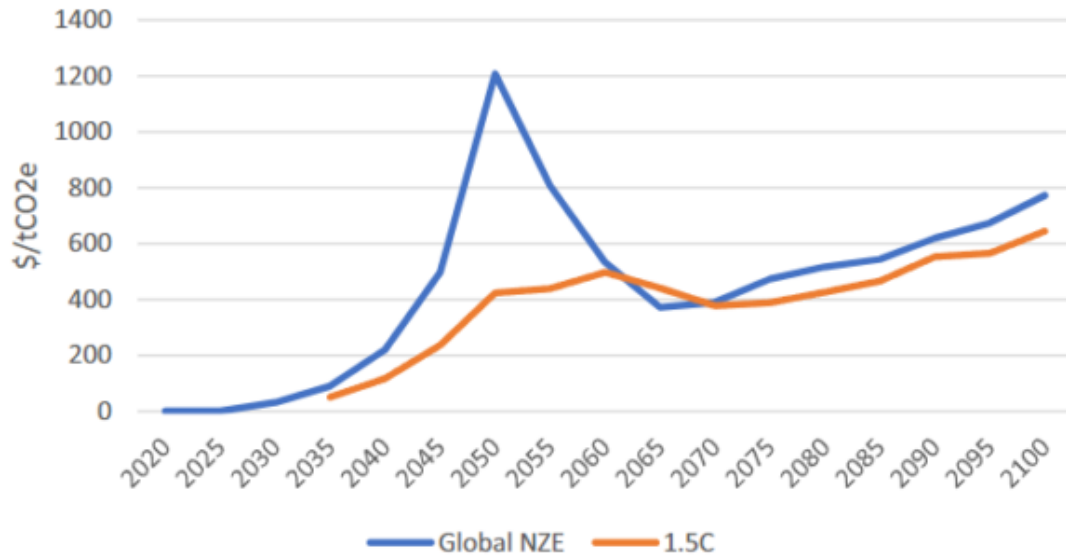
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1200

Jennifer Morris et al. 2050 CO2 1200

Global Emissions Price



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wildpixel/iStock

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



deepblue4you/iStock

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2020????????????????????6%????????3%????????5????????????????????????????????
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14??15??7??
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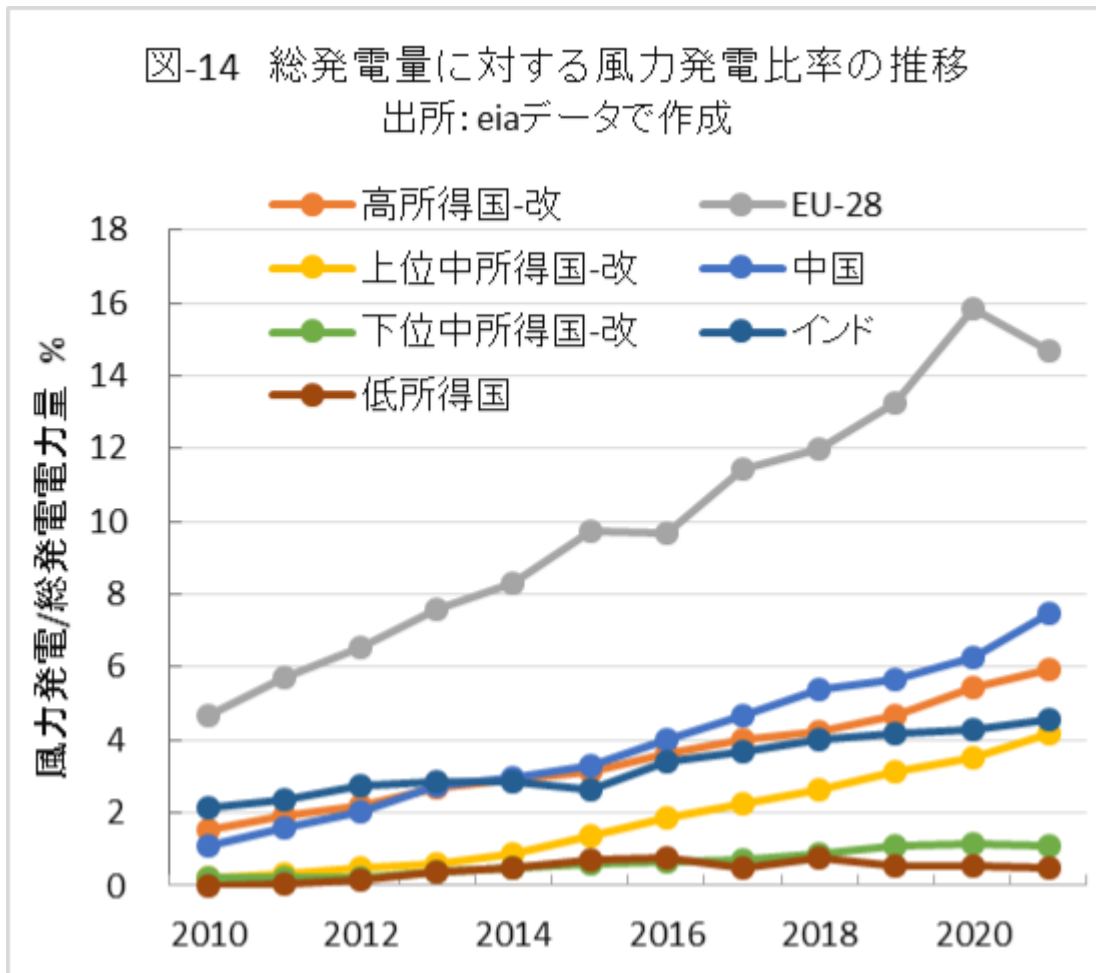
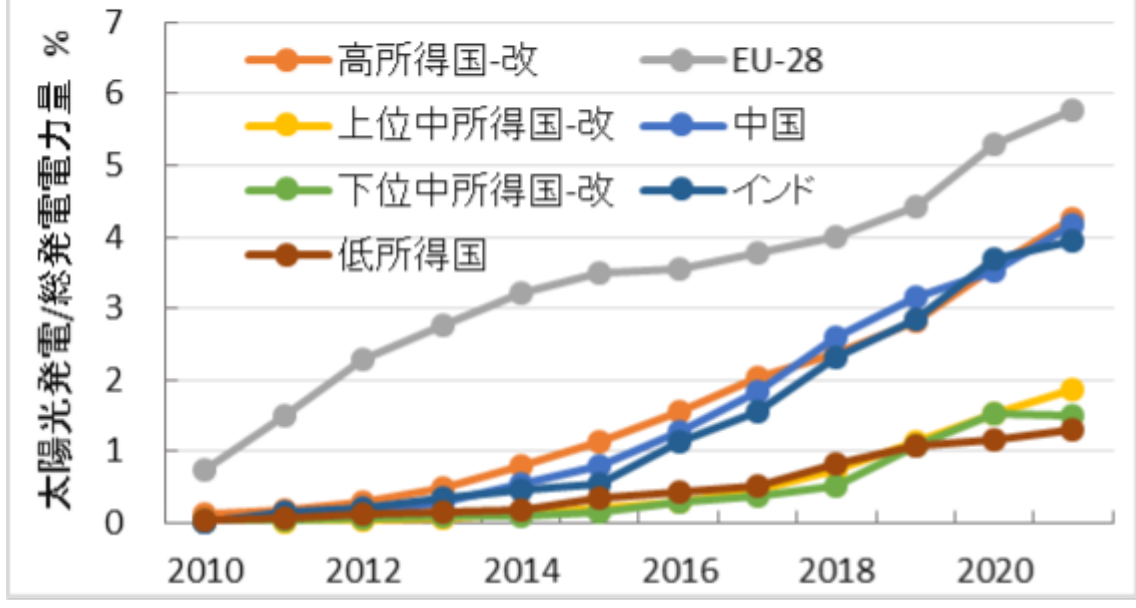


図-15 総発電量に対する太陽光発電比率の推移
出所: eiaデータで作成



Variable Renewable Energy, GHG VRE GHG EU-28 GHG

VRE kW VRE kW VRE VRE

VRE EU-28 VRE VRE

VRE VRE VRE

Energy-Charts

Energy-Charts Energy-Charts

Energy-Charts

Energy-Charts ISE

30

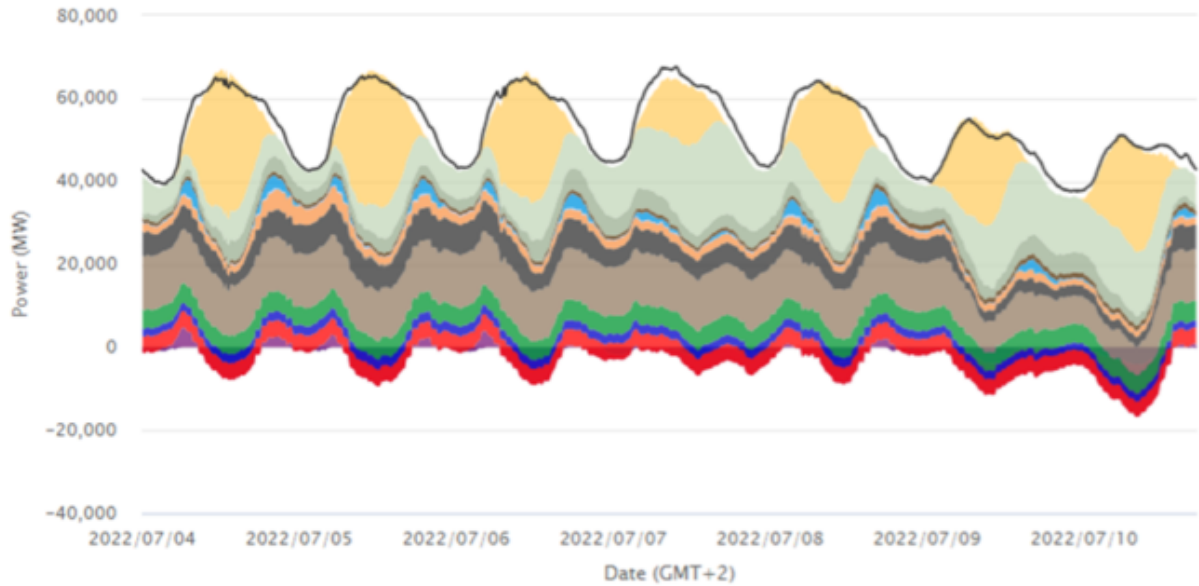
CO2

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		

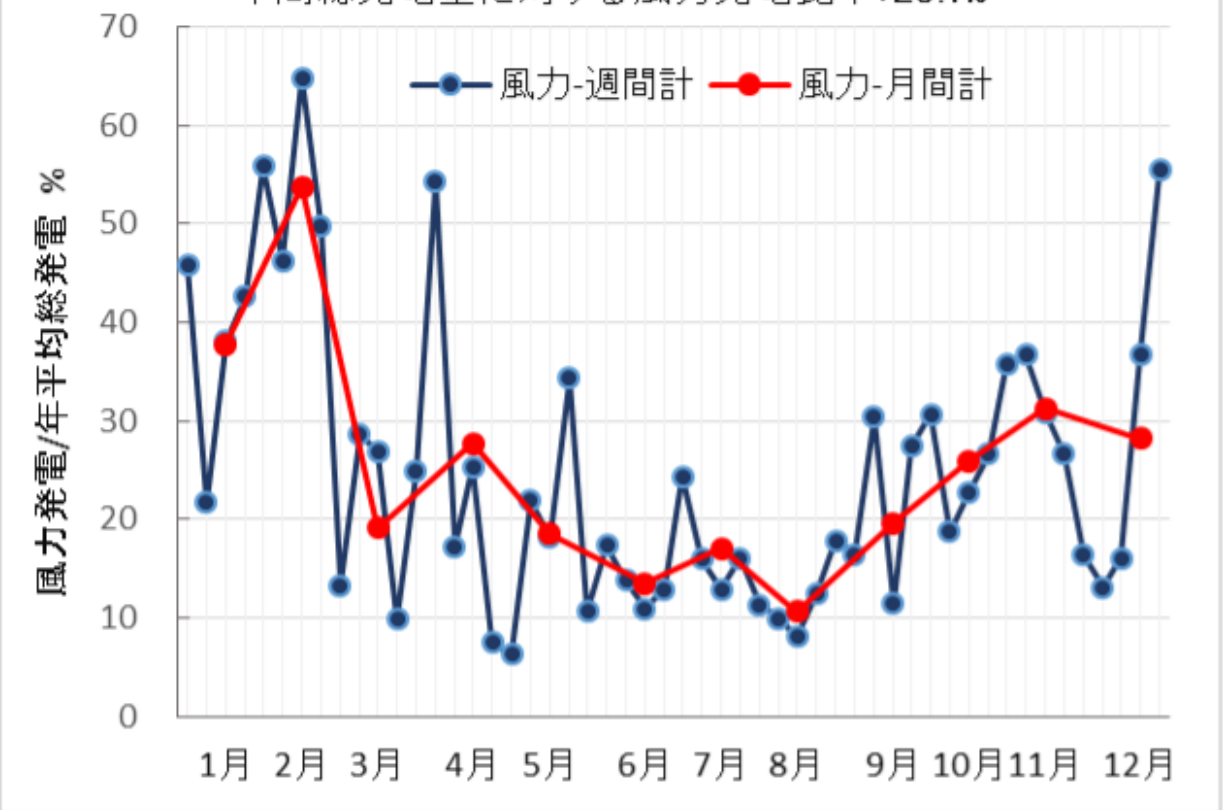
(注記)
 1) 公共正味発電電力量は、自家発を含まない、電力ユーザーのコンセントから出て消費される値。
 2) 太陽光、風力の発電容量は年間平均値、その他は2022年末の値。
 3) 電力負荷量は電力系統に投入された値。

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



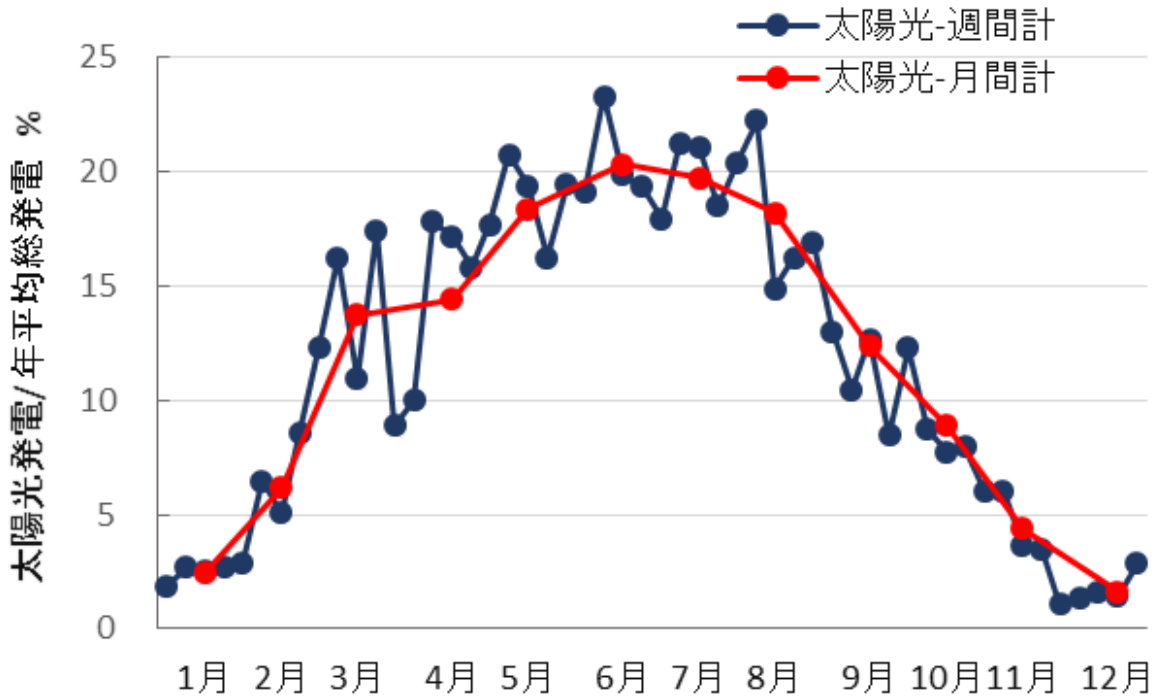
17% 12% 23% 0.12 0.0

0.14 1.7

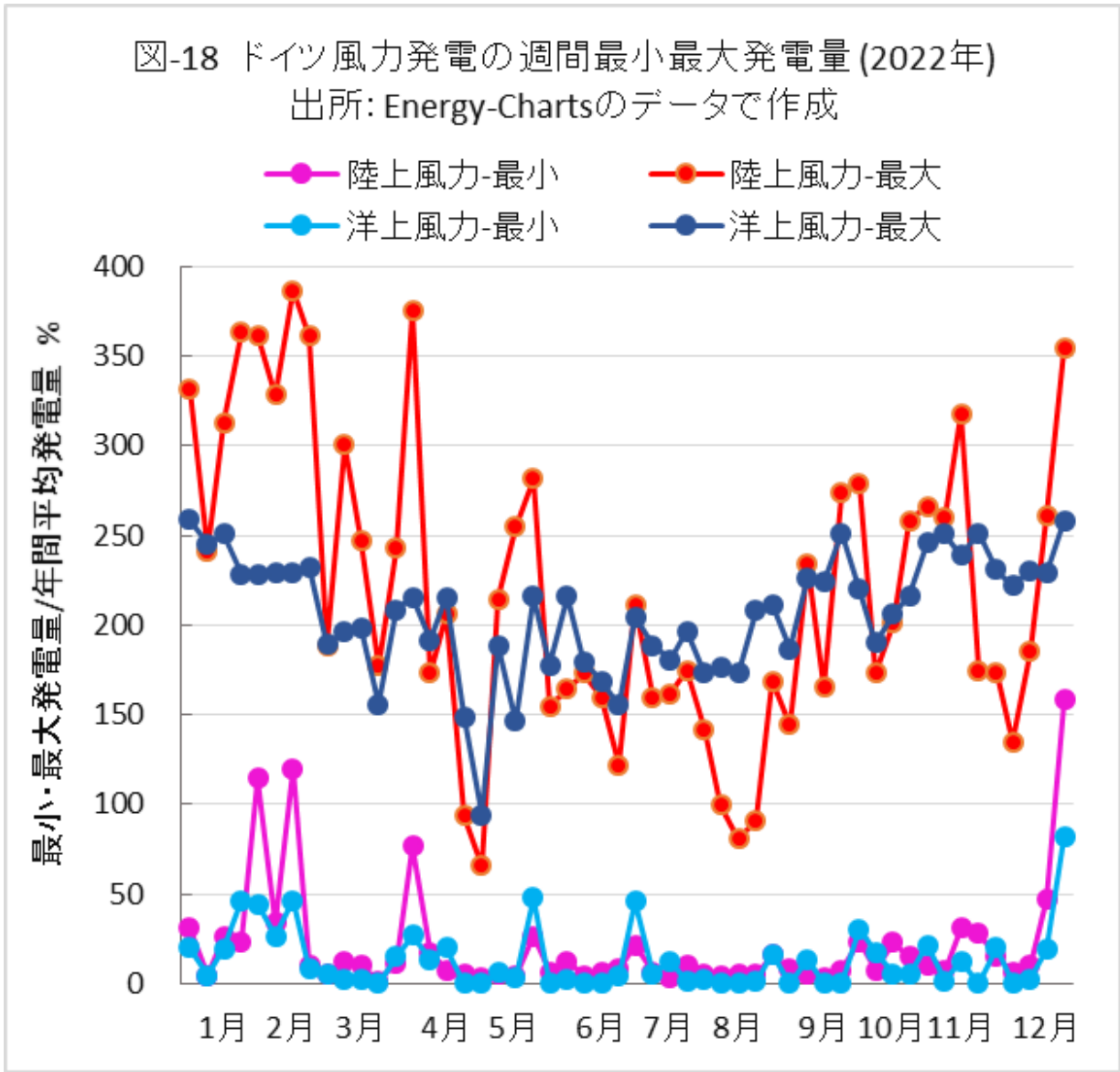
図-17 ドイツの太陽光発電電力量の変動(2022年)

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%**

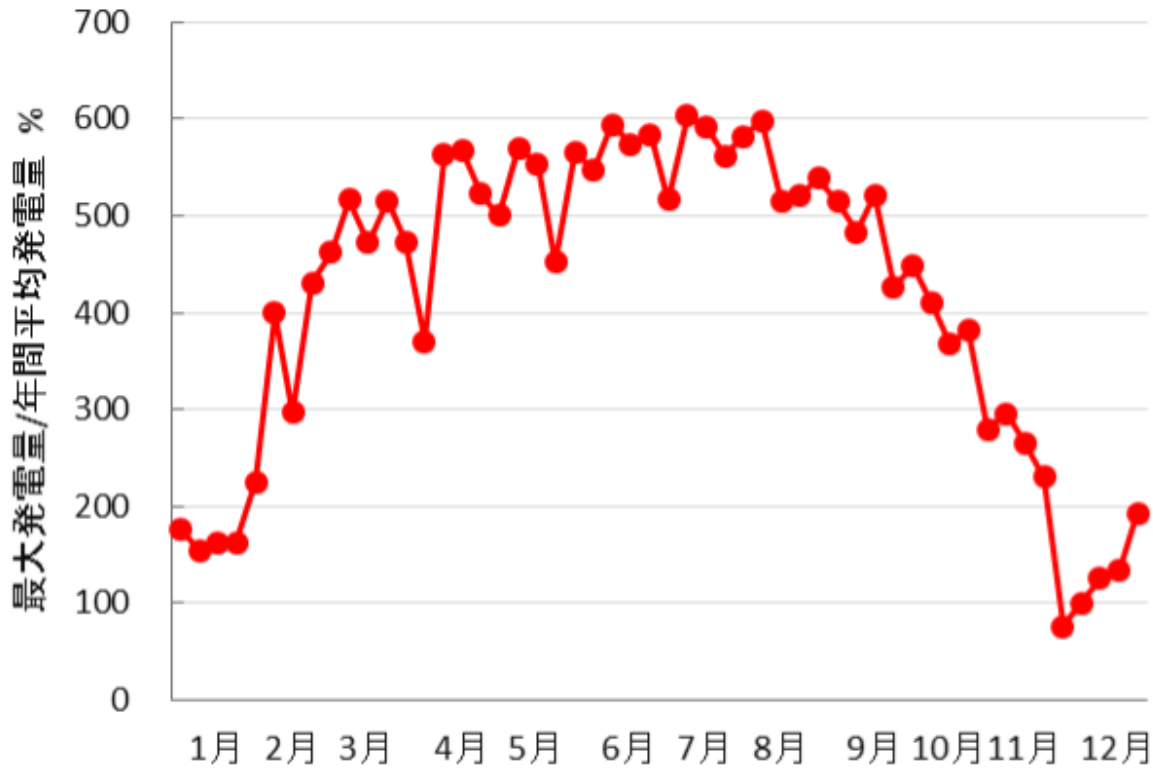


18%
10% 4%



?19??1????6?????????????
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図-19 ドイツ太陽光発電の週間最大発電量 (2022年)
出所: Energy-Chartsのデータで作成



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??Q&A????

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図-20 日本の風力発電の月間発電量 (2022年)

出所: 資源エネルギー庁電力調査統計
電気事業者の発電実績と電気事業者以外
の事業者からの受電電力量の合計

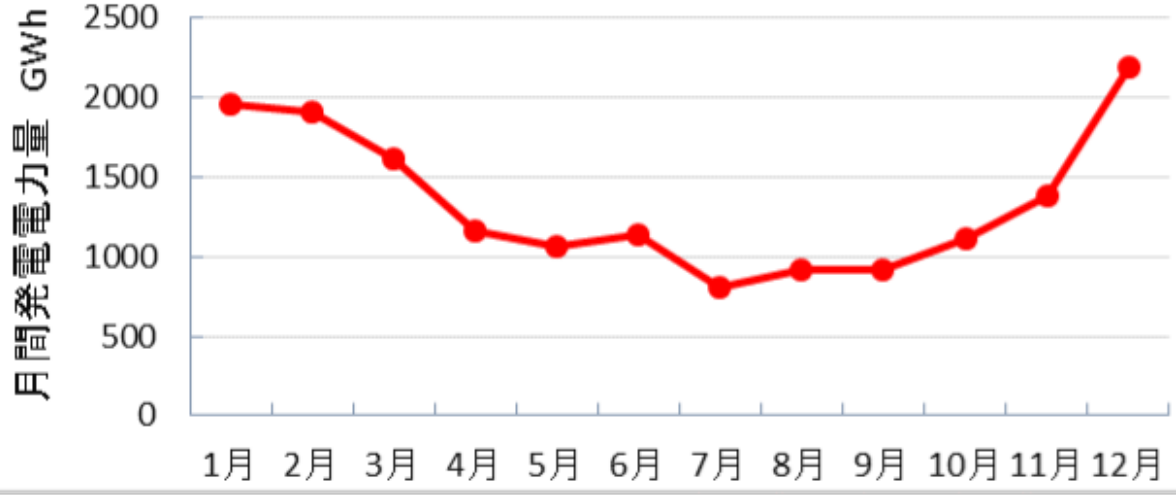
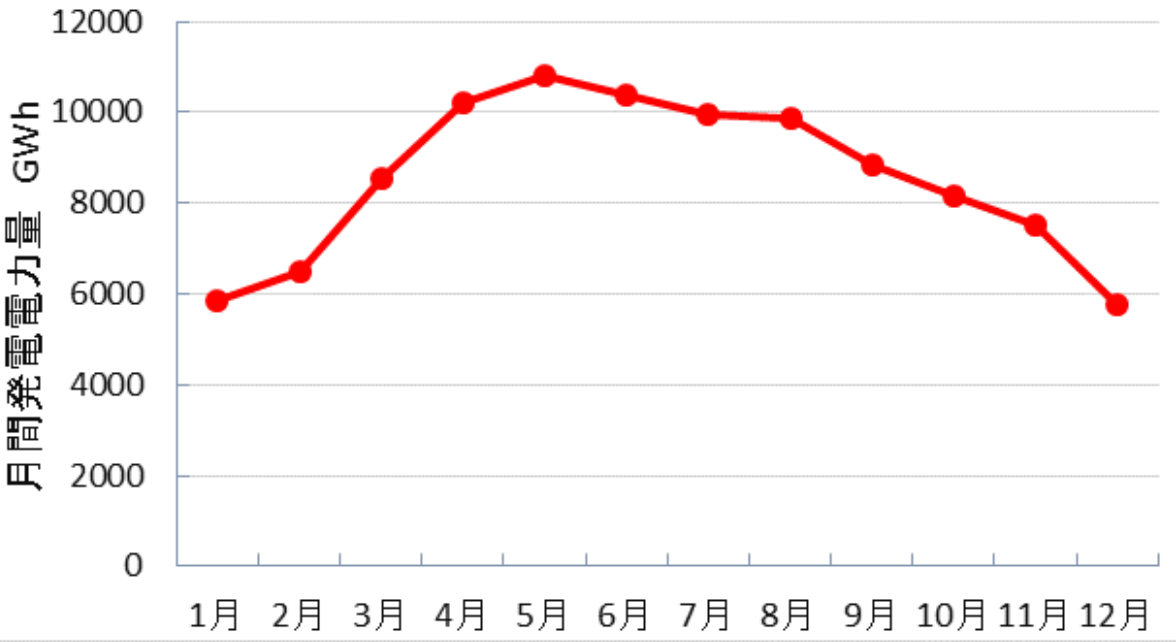


図-21 日本の太陽光発電の月間発電量 (2022年)

出所: 資源エネルギー庁電力調査統計
電気事業者の発電実績と電気事業者以外
の事業者からの受電電力量の合計



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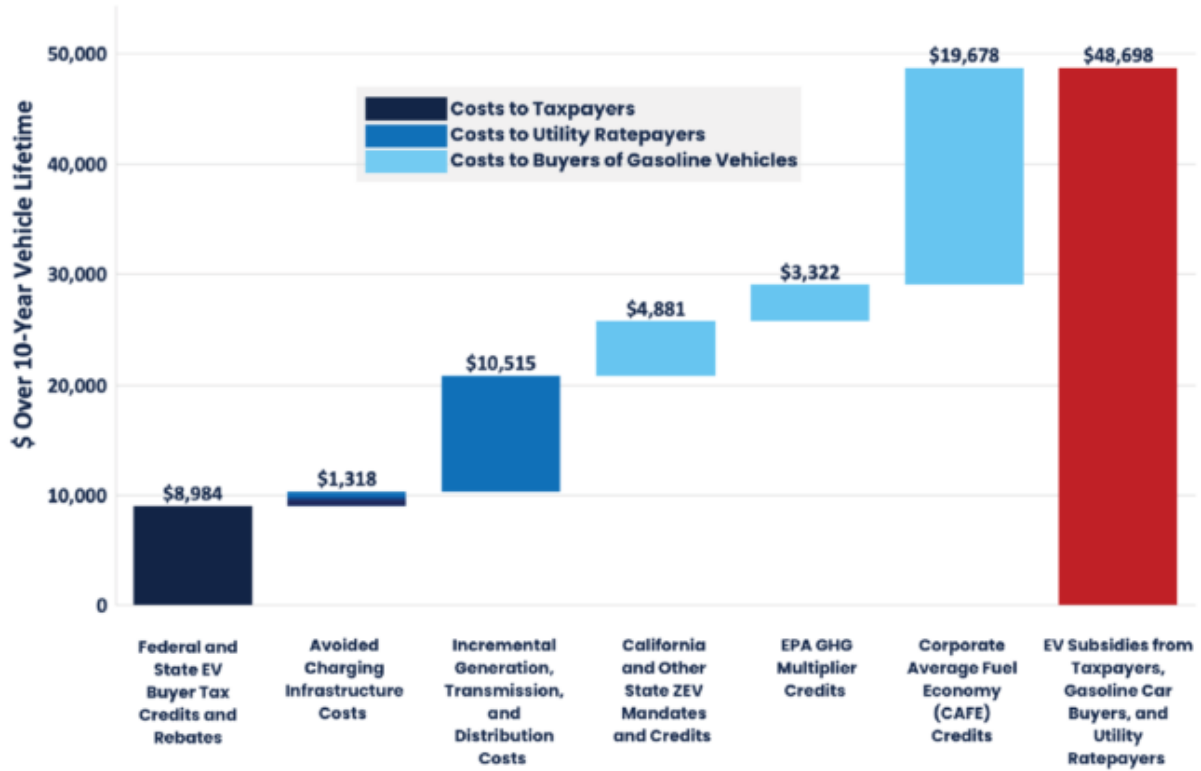
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Figure 1(a)
Subsidies and Regulatory Credits Accrued by a MY2021 Electric Vehicle Over 10 Years



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

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?? ?? · Thursday, December 7th, 2023



alashi/iStock

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2020?6????????????CO2??2020?6?17????????????????????????????????CO2????
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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????????????????????
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??1990??Hadley????????????????????CO2????????????????????????????CO2????????????????
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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????????????
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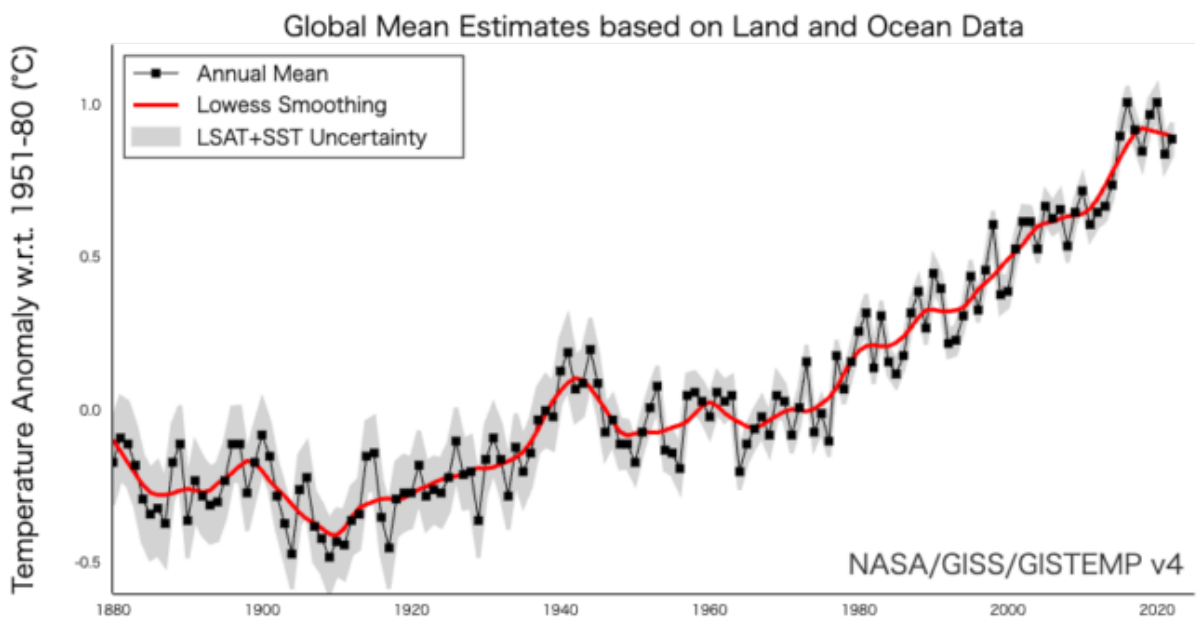
????????????????????????????????????Green New Deal???Clean Power
Plan??????2015????????????????????????EV????????????????????2050?Net
Zero????????????????????2020?10????????2050?Carbon Neutral????????

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

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

J.
Hansen?1988????????????????????????????????99?CO2????????????????????
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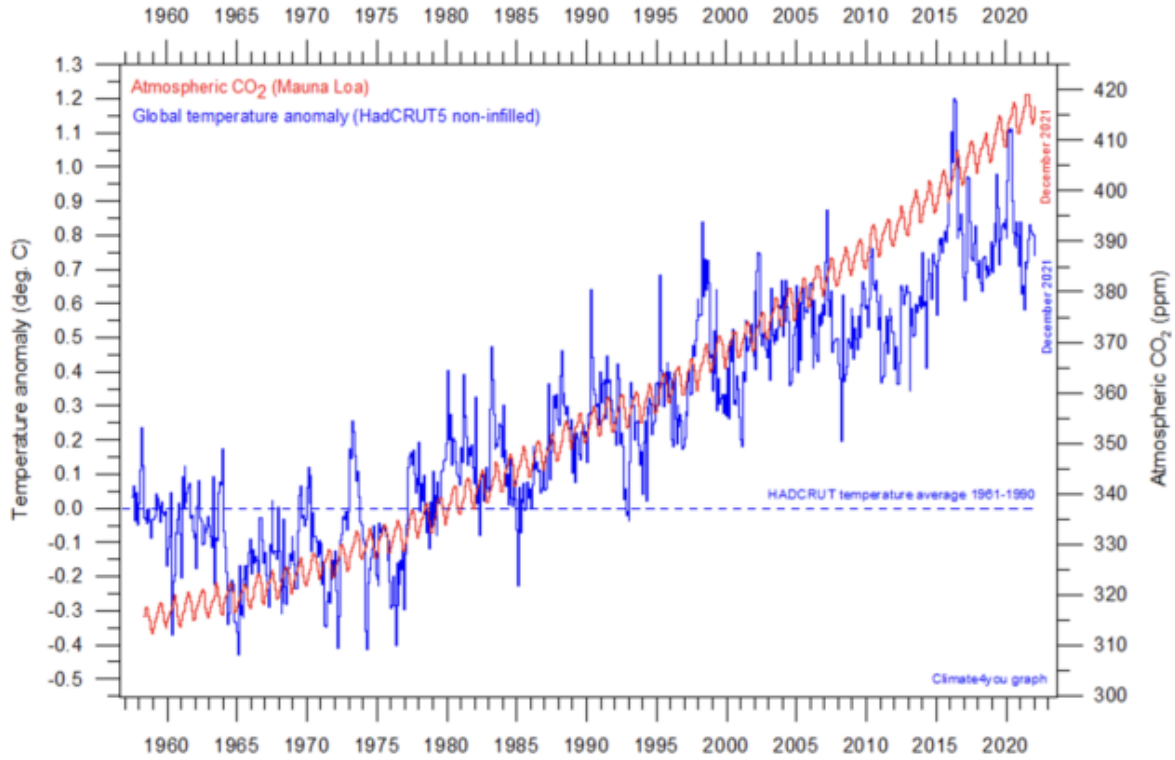
<https://realclimatescience.com/overwhelming-evidence-of-collusion/>



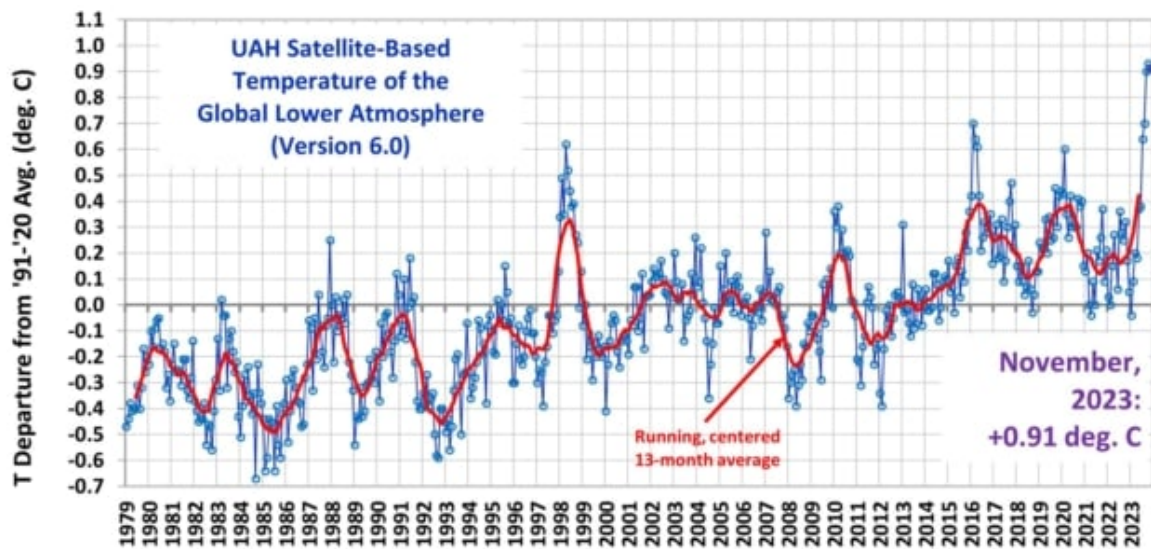
Data.GISS: GISS Surface Temperature Analysis (GISTEMP v4) (nasa.gov)

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



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

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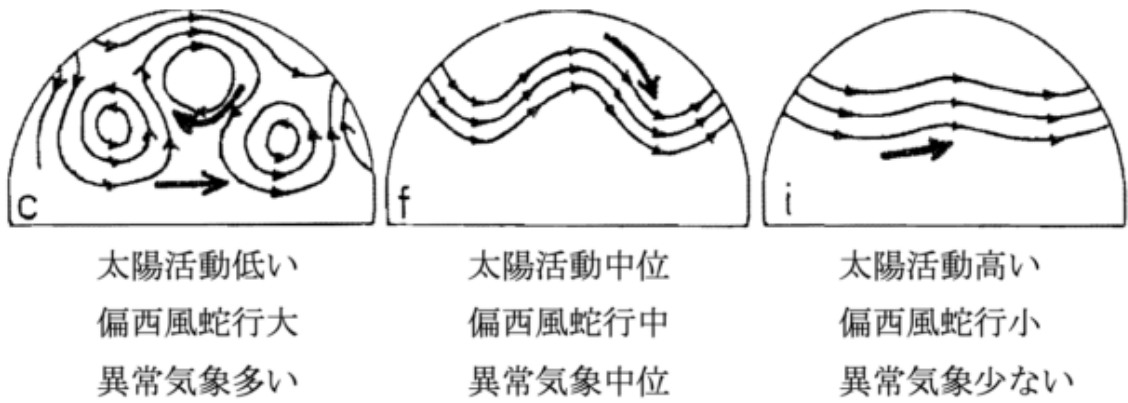
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????????????2016?9??24-53??



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/塩竈秀夫/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

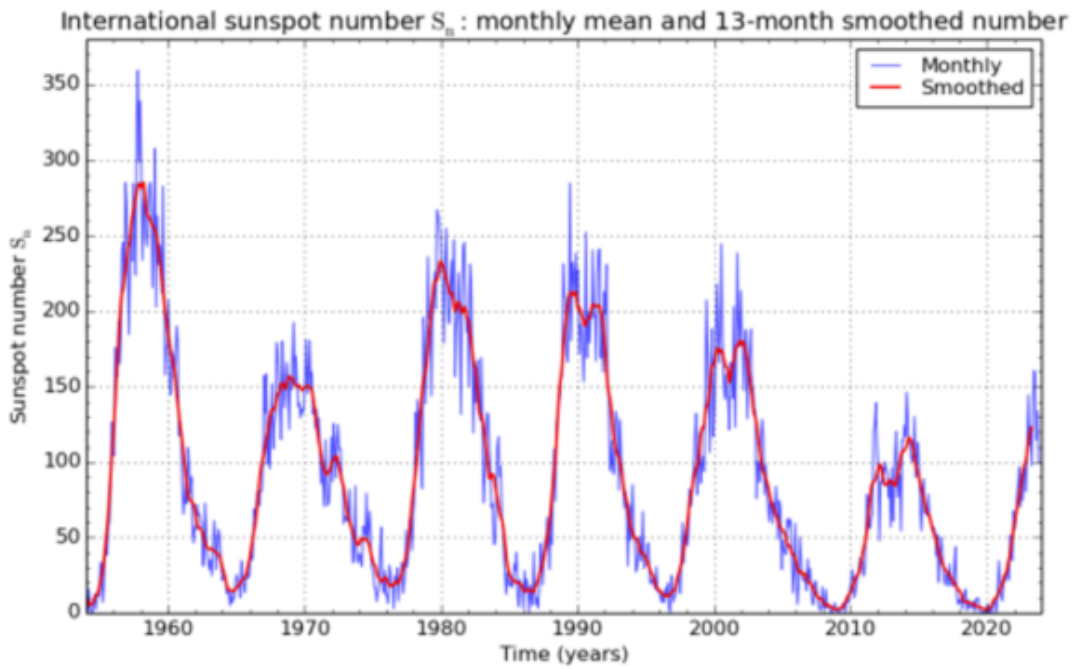
Newton ????????

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



???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

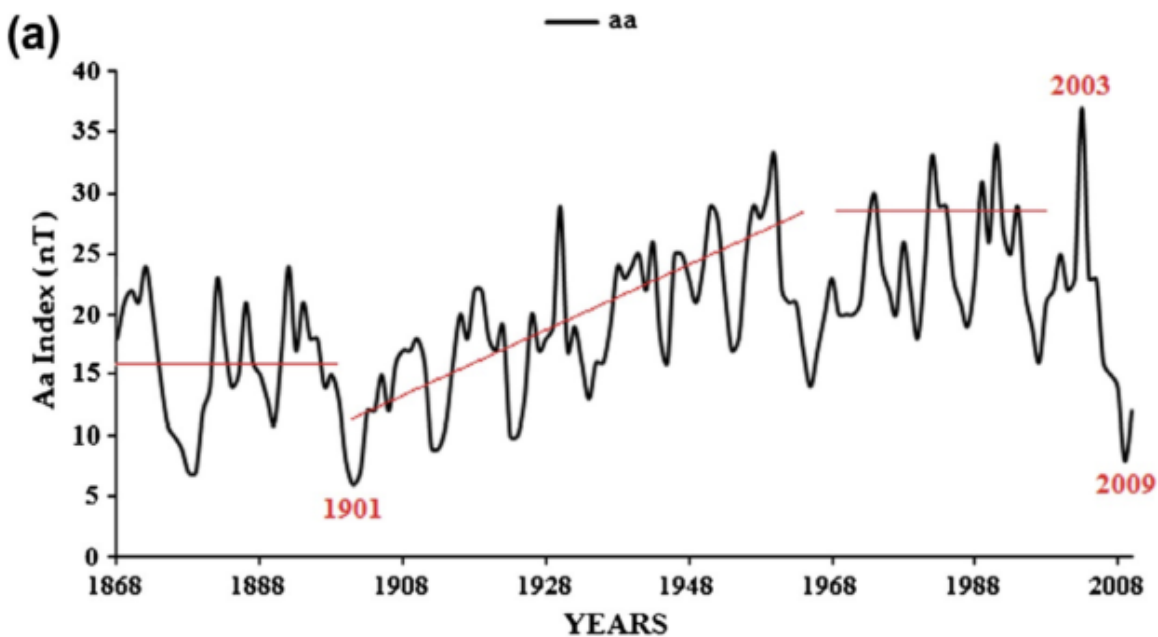
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science??44???????

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

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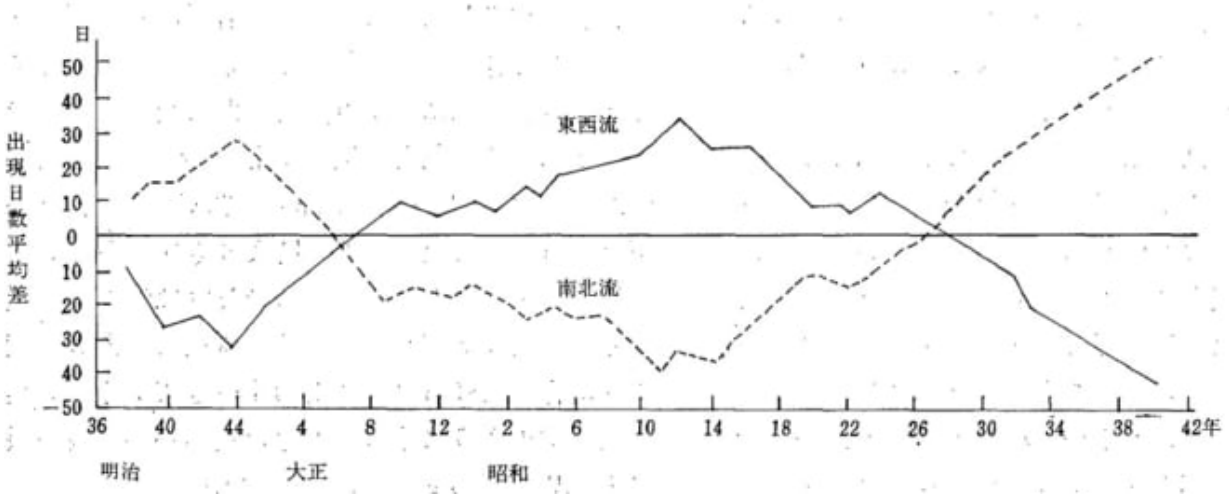


??????Zebro, J-L et al., Journal of Adavanced Research (2013),4, 265-274

1300?1918?	???	???????????
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1963?1976?	??????	???????????
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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.

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Posted in ??, ???? | No Comments »

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GEPR?? · Tuesday, December 5th, 2023

EU-28??

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%?????????

図-4 所得分類別世界の人口比率、2019年
出所：世銀データで作成

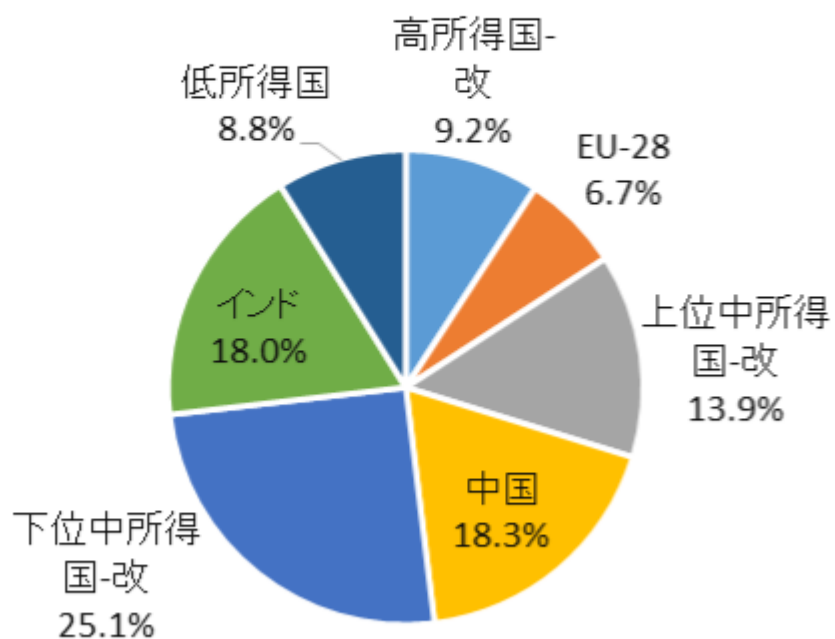
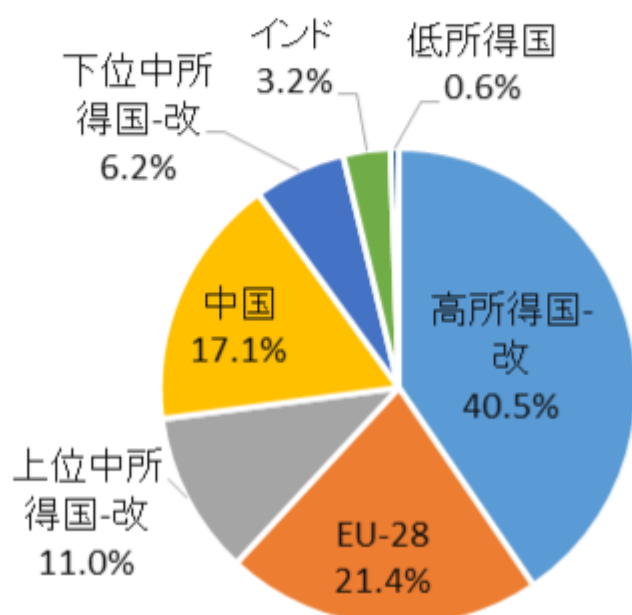


図-5 所得分類別世界のGDP比率、2019年
出所：世銀データで作成



????GHG???

????????????????????????GHG????????????10??1%?????
????????2050?GHG??

????????????????GHG??GHG????????????????????
??GHG????????????????

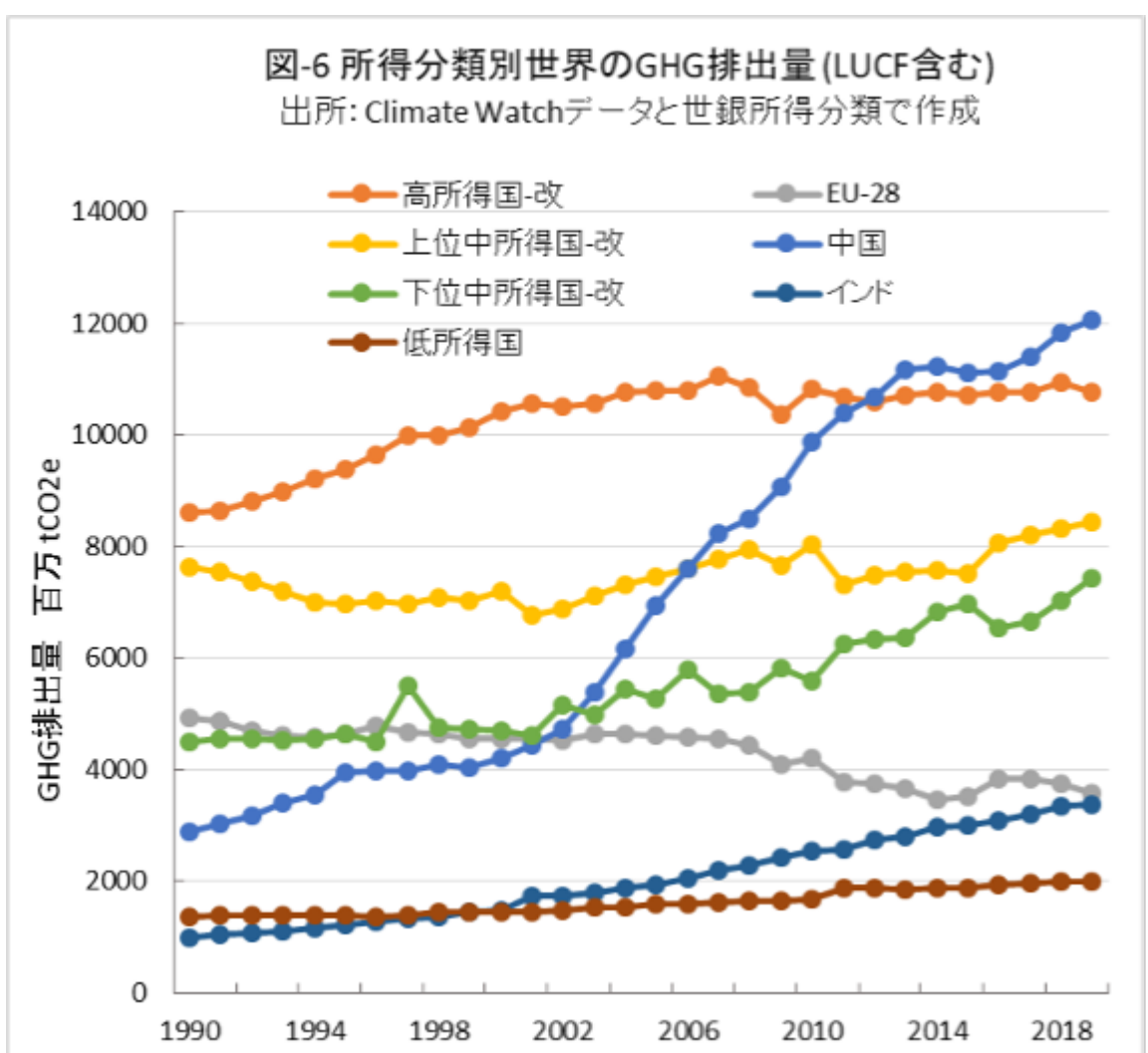
GHG??GHG????????????????????

????GHG?????

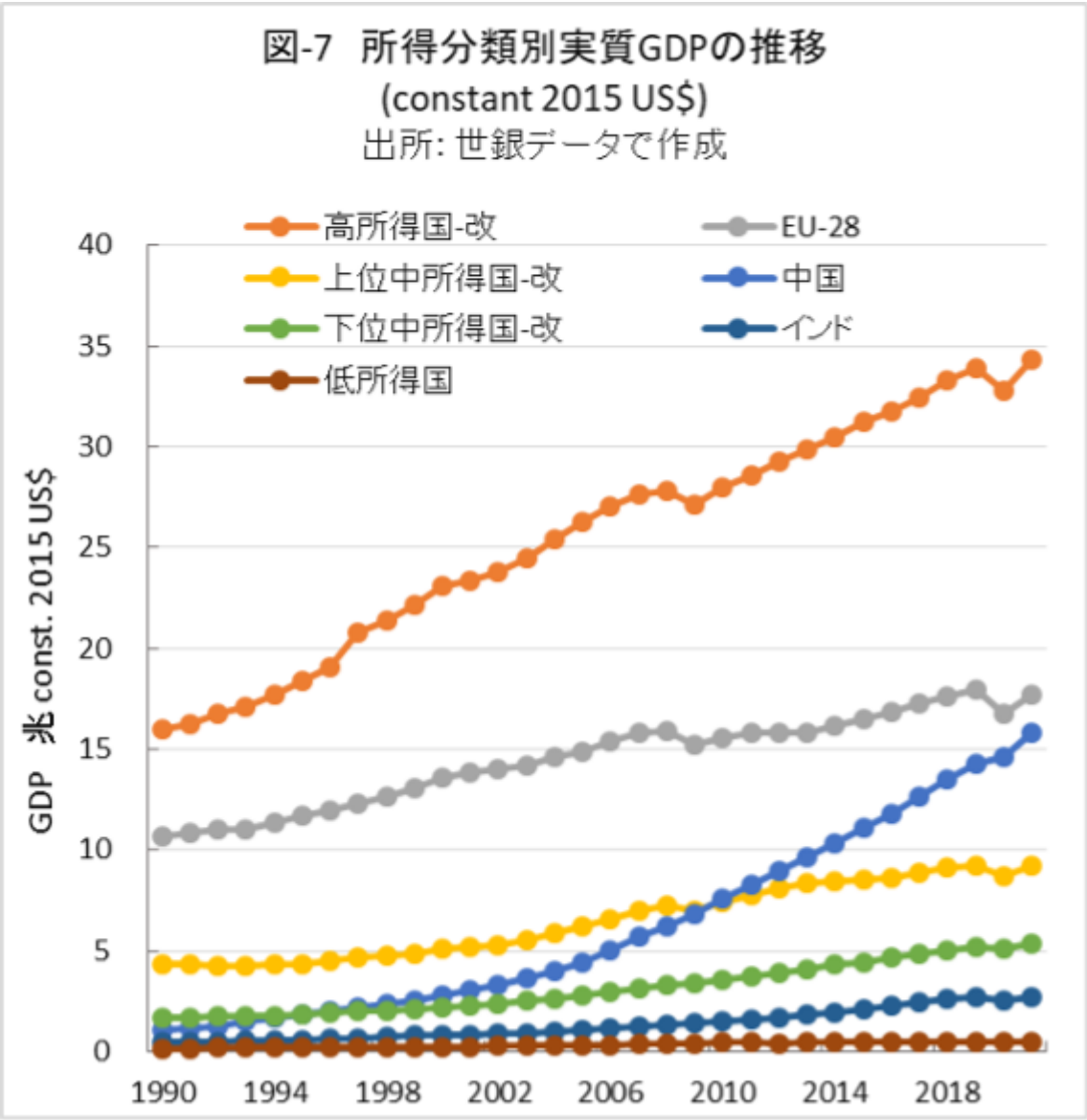
?6????????????GHG????????????????????????GHG?????Climate
Watch????????????????????????????????GHG??Climate
Watch????????????????????????????????????1????????????????IPCC?6????????????????????????????

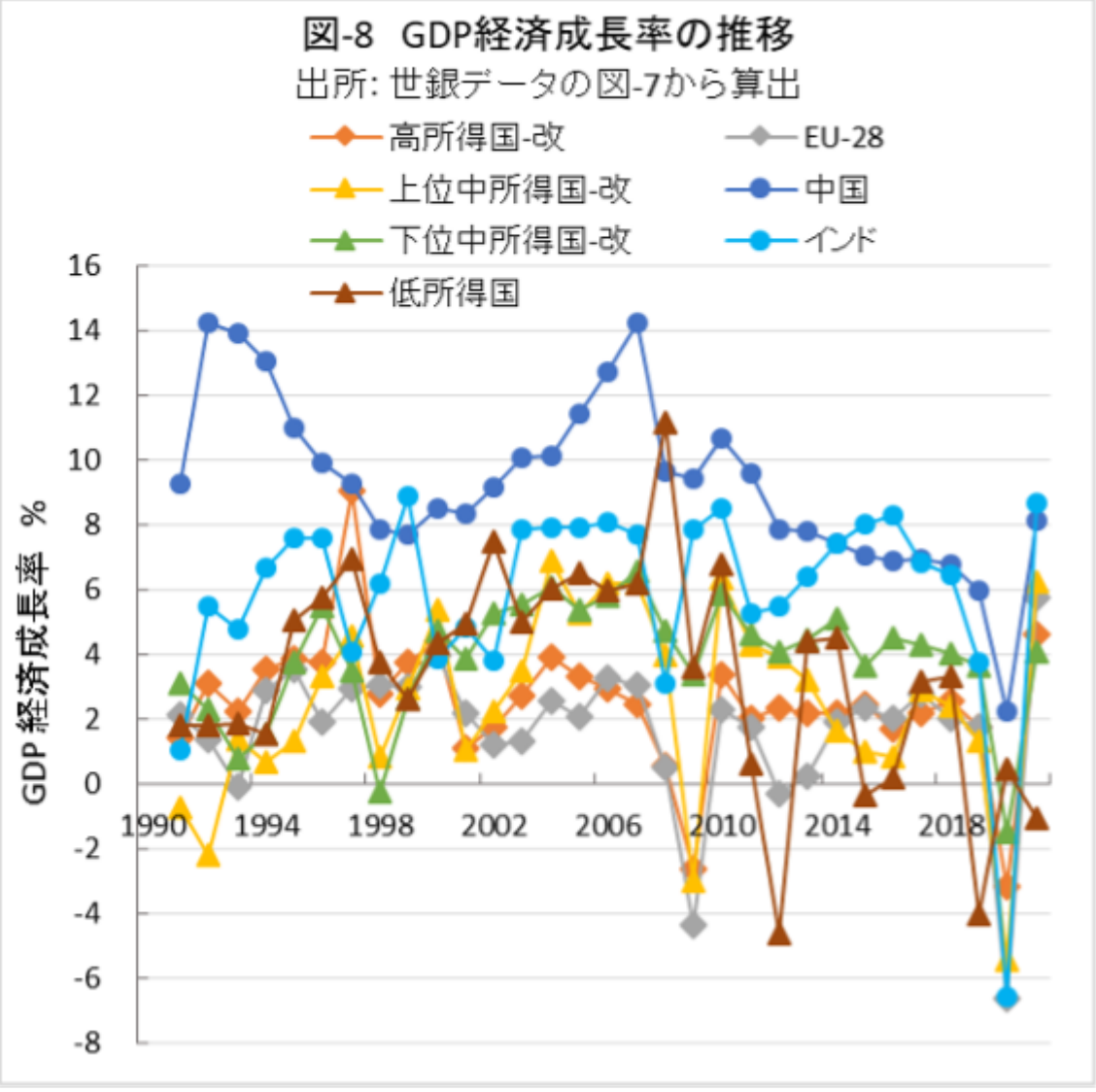
6?????WG3????????????????????CO2????????????8%????????????????????????CH4????F-
????30%?N2O??60%????????????????
CO2????70%????????????????????????????????????GHG????????????10%????????????????

????GHG??6????????????GH
G????????????GDP????????????????????



????????GDP?????8??GDP????????GDP??
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 ??EU-28????????2008????????????????3?4%????????????????2%????????????????-
 ??GHG??EU-28?GHG????????????????????
 ???????????????

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

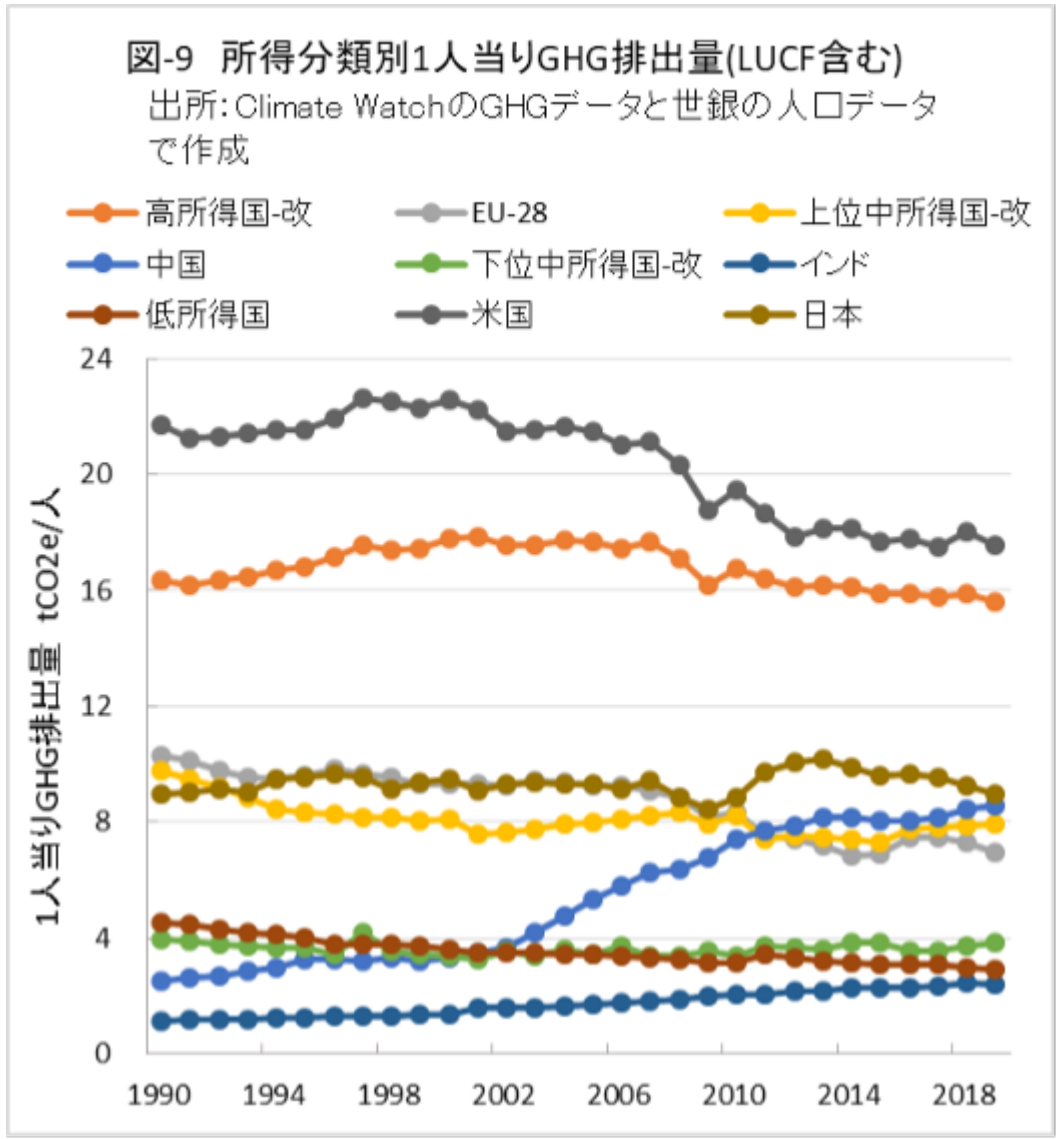
??????-??????????-
 ?????????????????2005????????6%????????????????2.5%?4%?3.4%???GHG????2000????????????
 ?????????????????-????????????????

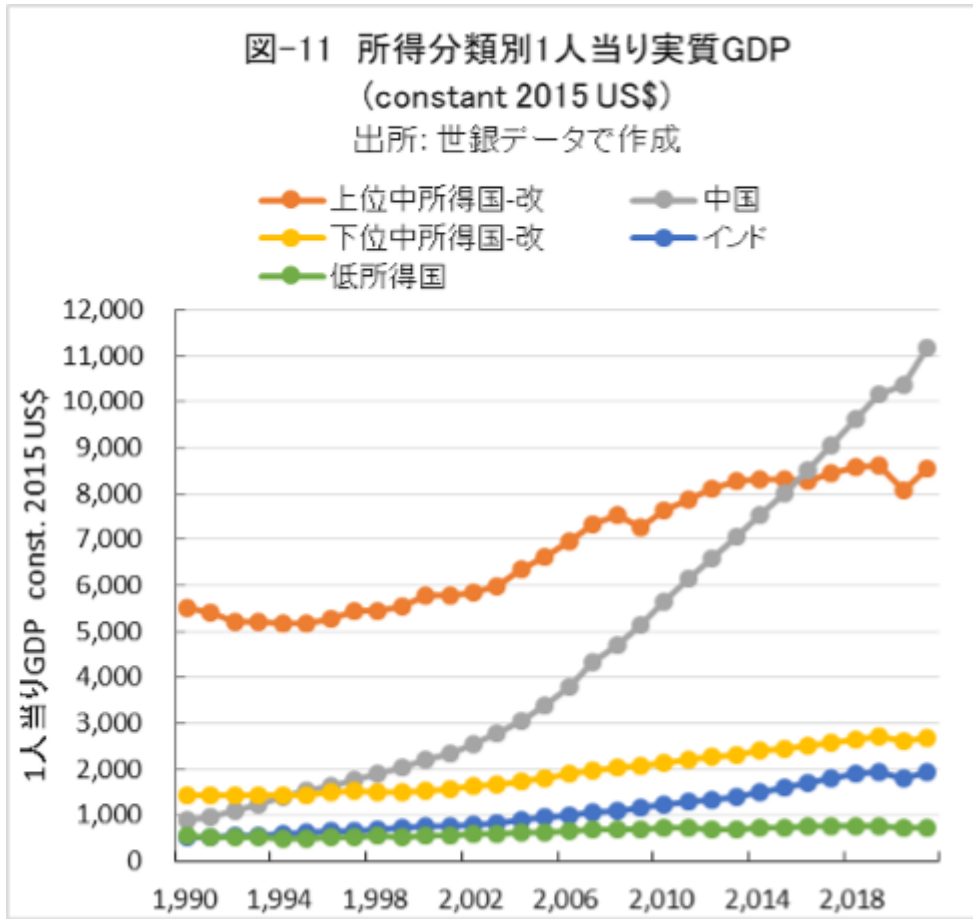
????2%????????????????GHG????GHG????????????EU-28????????GHG????????????????
 ???4?5%????????????????????????????GHG????GHG????????????????????GHG??
 ?????????????????

1???GDP?GHG

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

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





1??GHG??16t CO2e/?????????EU-28?????????-
??GHG???????

GHG???????

????2020??1?????????3?????????1000????6??????????????????
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????????????GHG?????????-????????????????????GHG????????????????????????????

????2023????????????????????????????10?1??GDP????????????????????1990????????????????????
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??GHG?
??????????????????

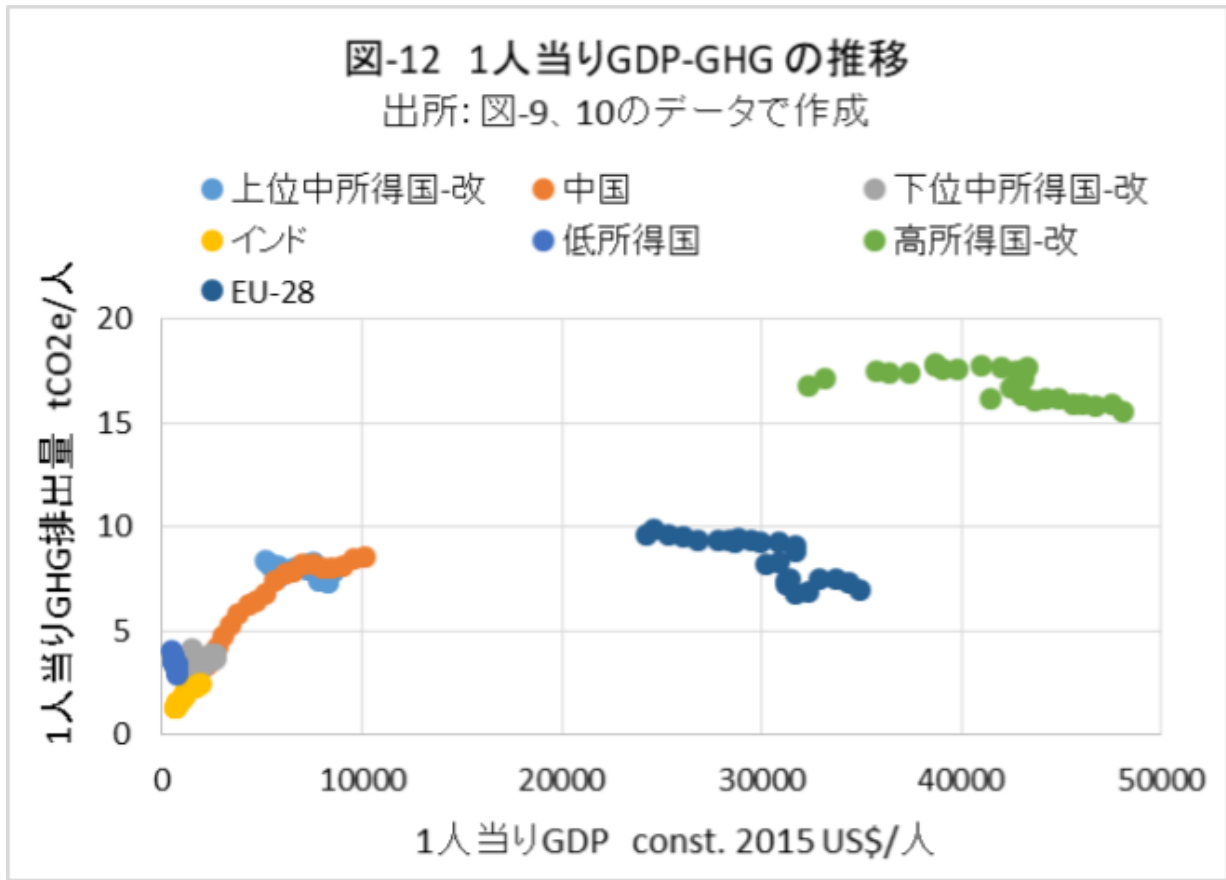
?9?????????2000??GHG??
??

????1990????GHG??FIT????????????????????GHG?
????????????????GHG????????????????????

??GHG???

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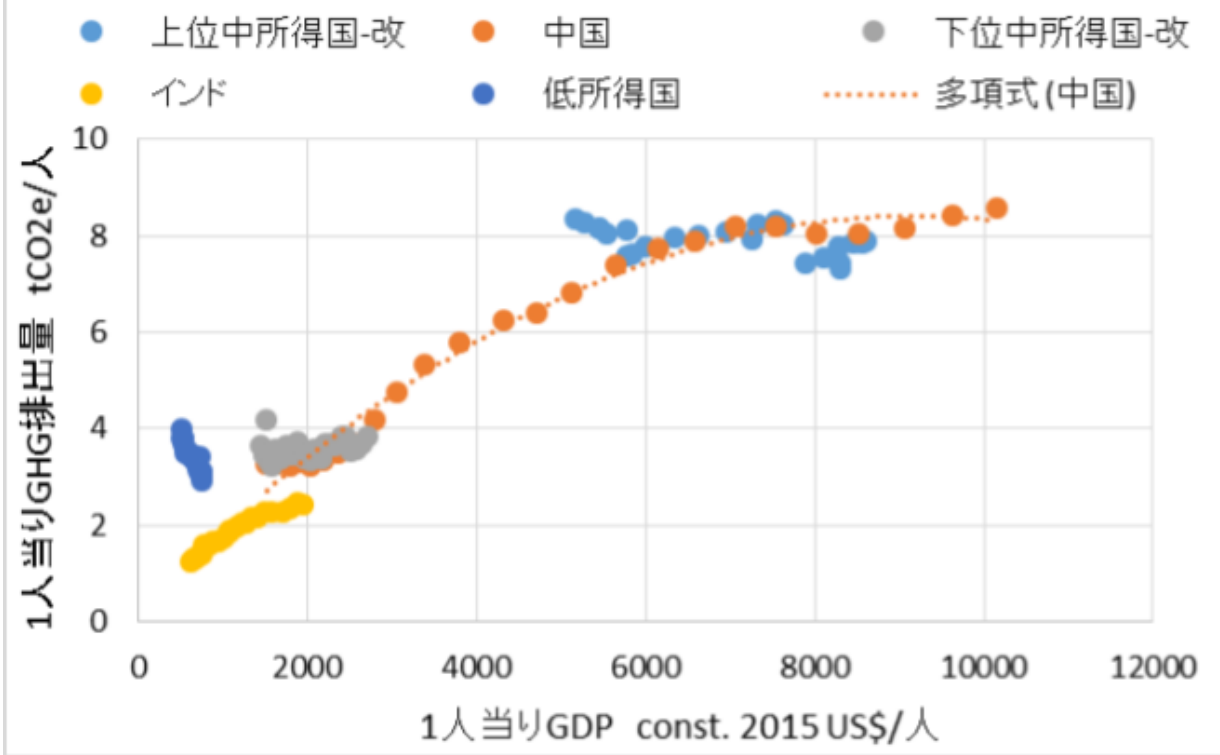
12 GDP GHG 1995 10 1995
 GDP GHG EU-28 GHG
 ???



13 GHG
 ??????????

図-13 発展途上国 1人当りGDP-GHG (1995-2019年)

出所: 図-9,10のデータで作成



?????GHG??

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????????????????1970??kindle????????????????????
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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????????????????????
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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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3. ???

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??COP28??

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

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GEPR?? · Monday, December 4th, 2023



deepblue4you/iStock

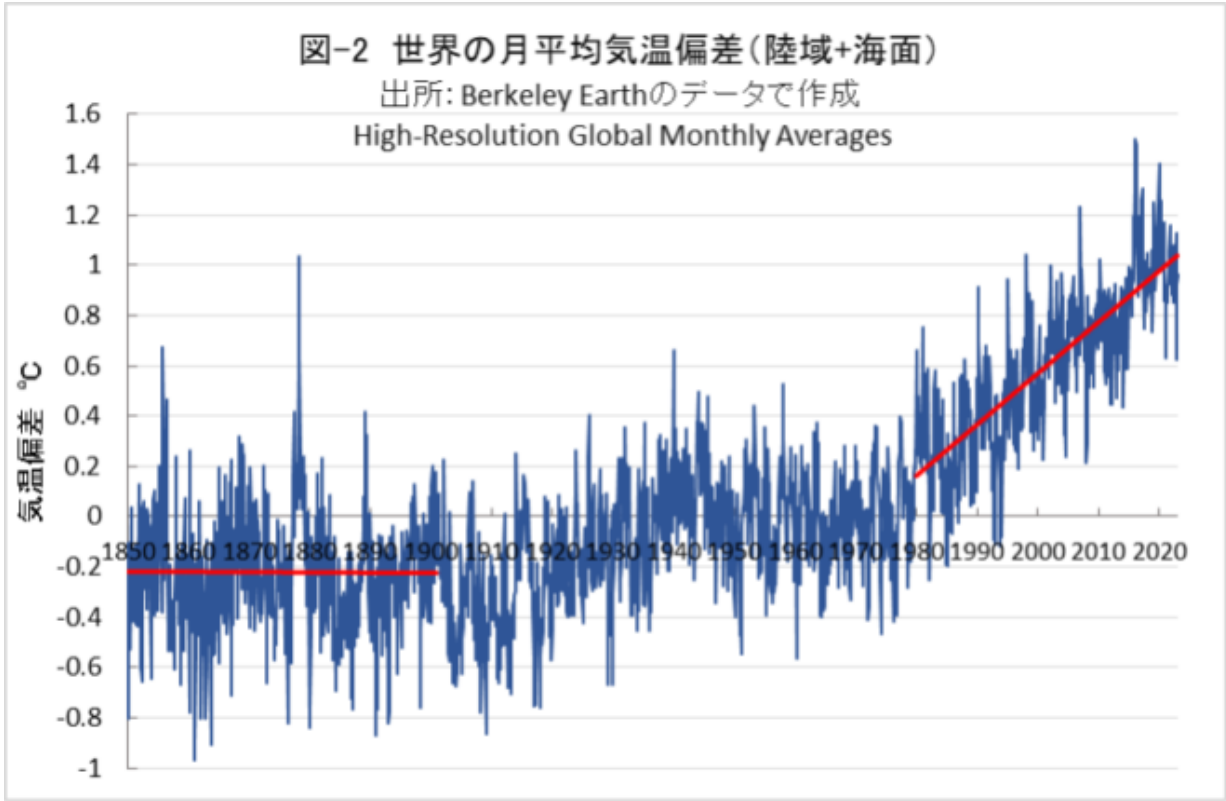
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?????????GHG????????????????????????????

??????GHG?????????1/3?????2050????GHG????????????????????GHG????????????????????
??EV????????????????????????????????

?????????????????GHG??
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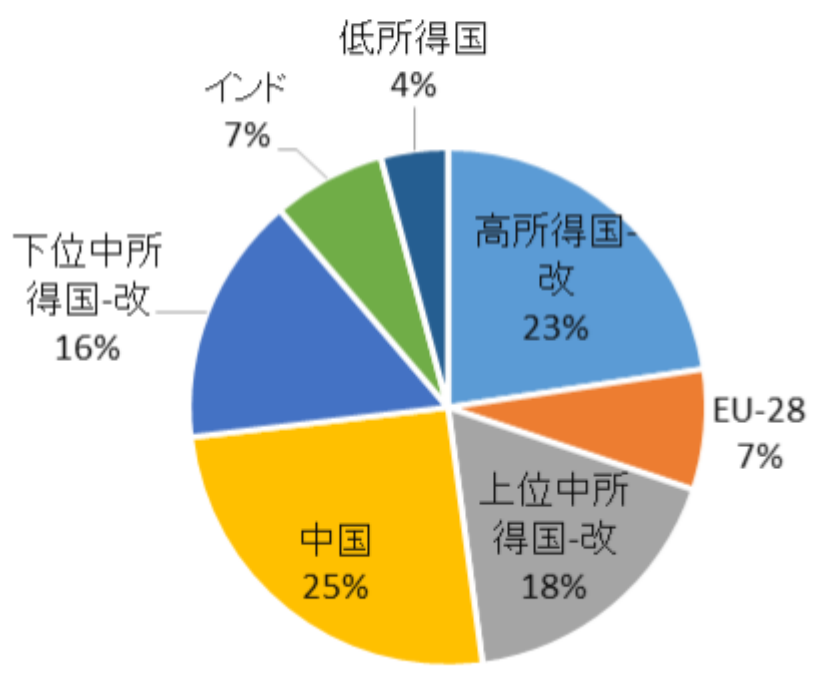


1850??????2022??????1.2????????????????????????????????2030?????1.5????????????????????????1.5??
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??GHG????????????????????????????????2050????????????????????GH
G????????????????????2060??????2070????????????????

?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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??Wikipedia

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??2010????????????????2011??
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????SMR????????????????????NuScale????????????????????????????????????11????????????
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■ ?????????SMR????????????

??SMR ??????

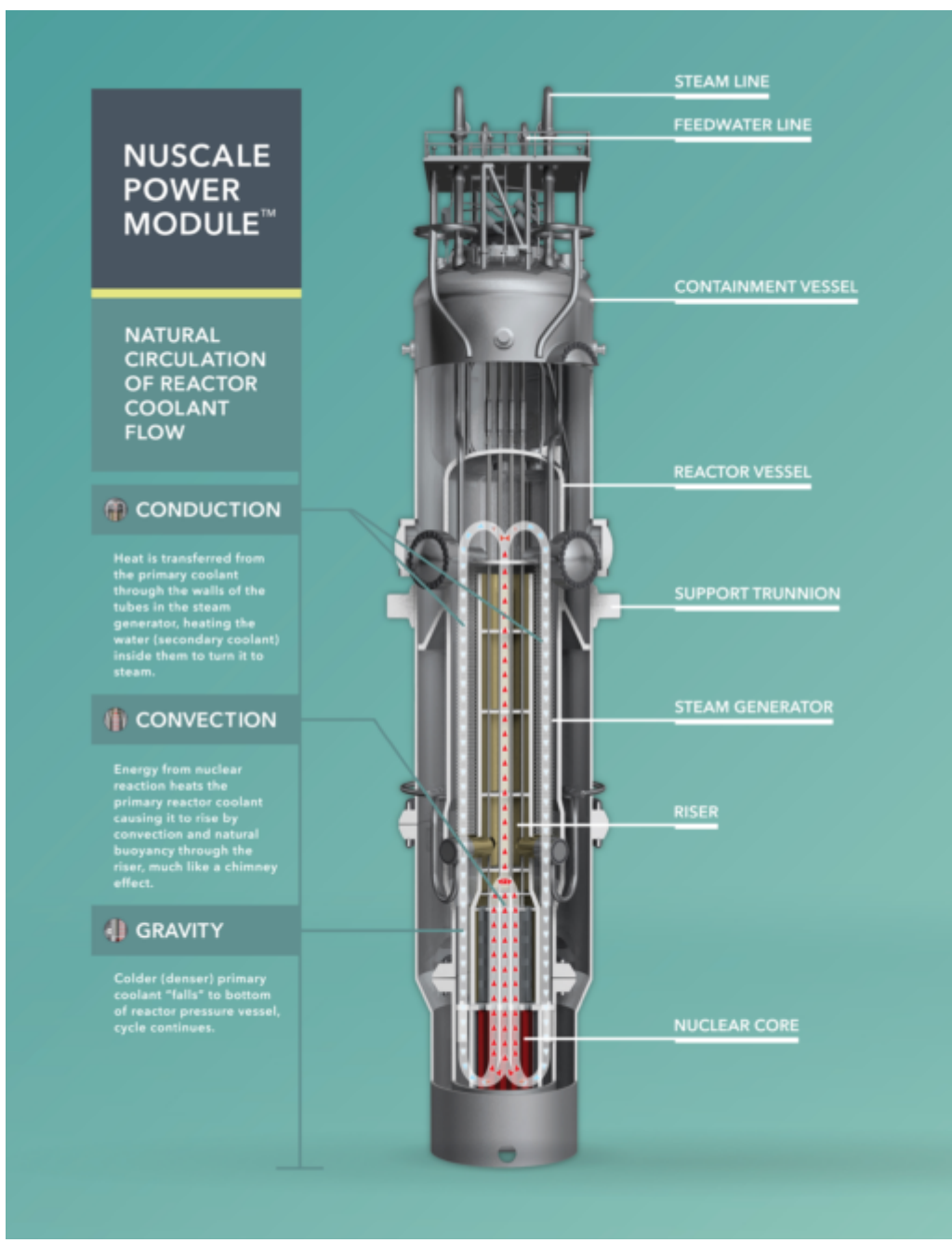
????????SMR????????????SMR??
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GX????????????????

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

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SMR????

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NuScale??SMR??

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SMR???

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NuScale?SMR???

SMR???

4S???

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NuScale?SMR???

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NuScale?SMR???



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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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??EV????????????????????????????????
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016????????GDP?0.35????????????????????????????????????

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????21?12????????????????22????????21????????????????????????“????????????”????
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??100????1.5????????????????1????????
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??CDU????????????
??CDU????????????????????CDU????????
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??CO2????????
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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????????????????????
????????????????????

????????????????????1.5????????²¹????????????2030????????????CO2????????????
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????5????????G7????????????

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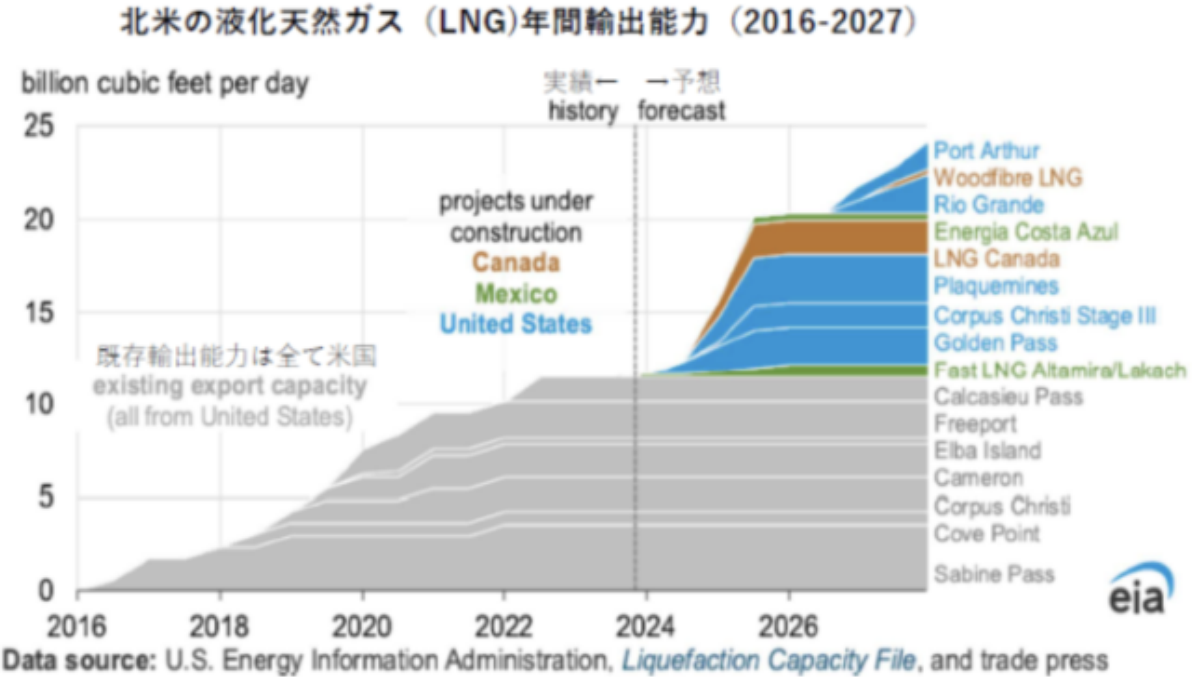
?????????11??EIA????????????????????????????????

11?2????????????²²¹??
????????????2022?8?????1???23?7???1??????22?????3310????²³⁷????????????
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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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????2010??2018????????????????????
????????????????????????LNG????????????????2027????????????????????????????????2030????????????????????
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??COP28?
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?1??1.5????????????????
??21(a)????????????????????????????????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 ?????????????

11????????Third World Network ?????????????



IPCC?6????????????????????2025????????2030??43??2030??60????????????
????????????????????

GST???BASIC????????????LMDC?Like Minded Developing Countries:
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1.5????????????

?1.5????????????????????1.5????????????????????1.5??2050????
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????GST?IPCC?6??1.5????????2025????
??2030??43??2034??60????????????IPCC?6????????????????????

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

GST??
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??GST????????????

????????????1.5????2050??
????????????????????????

G20????????????????NDCs????????????????2030????????5.8?5.9????????
????2020????????1000????????7?8????1000????????????1.5????????

????COP28??

?1??
????????ADB?AFDB????????????????????????????????????

?2????????????????LDC????????????????????

?3????????????????????????????????liability????compensation????????
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1000????????????2025????????????????????

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

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UAE????????????

??UAE?COP28?2030????????????2????????????????????



UAE????????????????????
 COP28???????

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???GST??

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

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

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

?? ?? · Saturday, November 18th, 2023

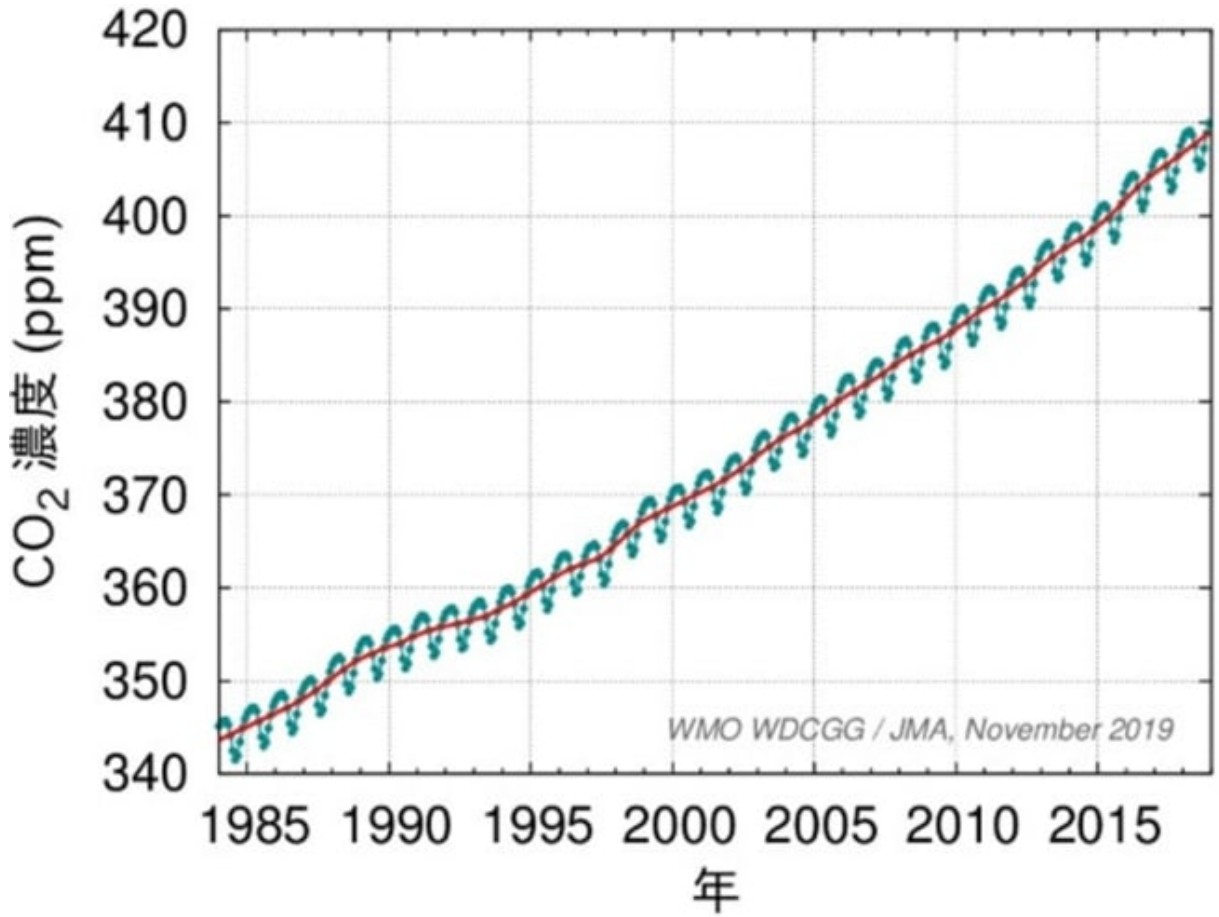


MR1805/iStock

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

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

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



CO2 concentration is rising at a rate of about 2 ppm per year.

1.5 degrees Celsius temperature rise.

280 ppm concentration.

1850 concentration.

1850 concentration is 185 ppm.

CO2 concentration is rising at a rate of about 2 ppm per year.

CO2 concentration is rising at a rate of about 2 ppm per year.

1850 concentration is 185 ppm.

CO2 concentration is rising at a rate of about 2 ppm per year.

RCP8.5 scenario CO2 concentration.

RCP6.0 scenario CO2 concentration.

CO2 concentration is rising at a rate of about 2 ppm per year.

0ppm????560ppm????????????????????CO2??
???

????????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 »

