



?1????????????????????????12?6??14??

Energy-Charts

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????????????????????12?11??13??200EUR /MWh????????????????1,000EUR/MWh????????????????????

????????????????LNG??

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



12?6?14??

Energy-Charts

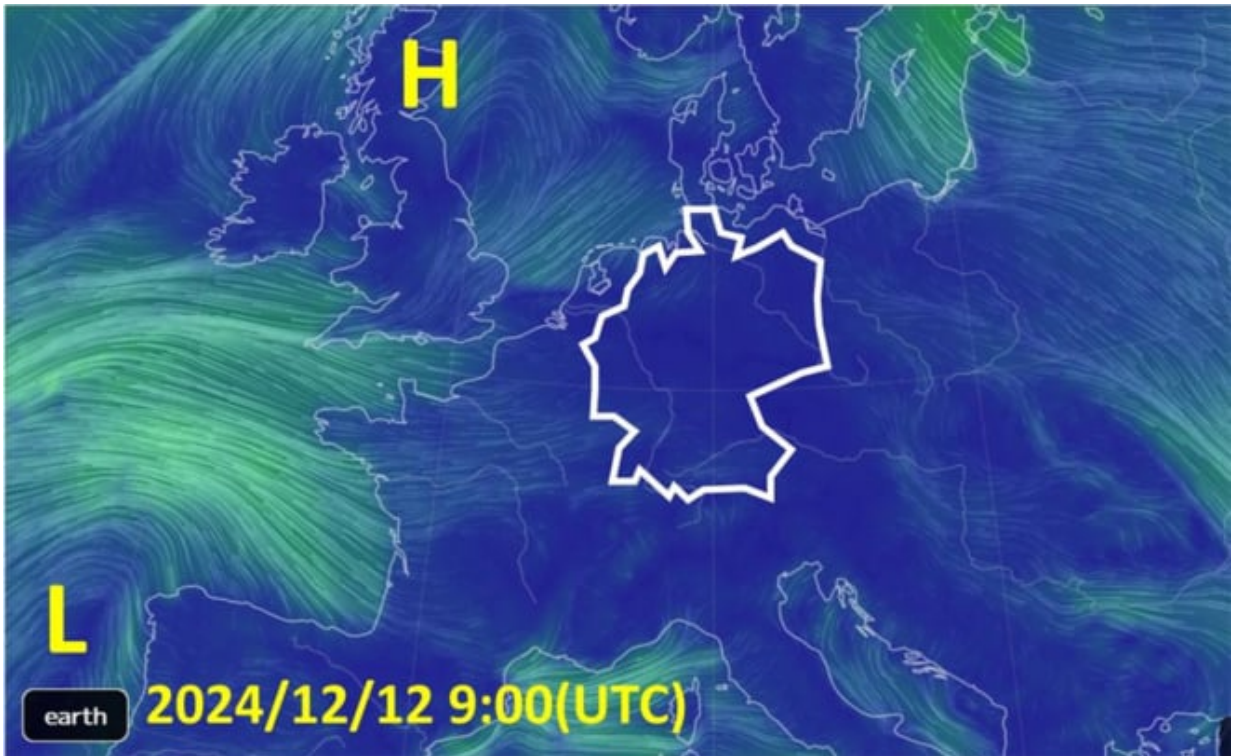
90?12?11?13????
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1966????1990??

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

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?? ?? · Thursday, December 26th, 2024



rudall30/iStock

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

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参议院 キッズページ 国会のひみつをさくろう! 国会のしくみと法律ができるまで! 国会で遊んじゃおう!

あなたが議員だったら?

○ 議員はどんなことをしているのかな?
 国会議員は選挙で選ばれます。そして、国民全体の代表として、おもにつぎのような仕事をしています。

- ① 法律案を国会に提出する。
- ② 会議で発言したり、文書で質問したりして、内閣の政治の進めかたを監督する。
- ③ 法律の制定、予算の議決、条約の承認、内閣総理大臣の指名など、国会の決定に参加する。
- ④ 国民の意見を聞いて政治に反映させる。
- ⑤ 外国の政治経済の情勢を調べて政治に反映させる。

議員の一日



登院表示盤



本会議



議員食堂



災害の調査



議員会館事務室



委員会質疑

国会ってなにをするところ?

衆参の議員が一か所に集まることってあるのかな?

建物が左右同じ形なのは どうしてかな?

あなたが議長席にすわったら?

本会議場には どんなひみつがあるのかな?

あなたが議員だったら?

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??????12?11????????????????????????????????5:18:03?5:33:28??

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東京都議会



Q

どんなことをしているのかな？

A

とぎかい とうきょうと しごと すす ひつよう かね つか
 都議会は、東京都の仕事を進めるのに必要なお金の使い
 かた さまざま 事 さだ かね つか
 方や、様々な決まりごとを定めたりします。そのお金の使
 い方を予算といい、決まりごとを東京都の法律である条例
 といいます。



とみん ようぼう いけん 事 じゅうぶん はな あ と
 また、都民の要望や意見を聞き、十分に話し合っ都の
 せいさく はんさい じゅうよう やくわり
 政策に反映していくという重要な役割をになっています。

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

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?? ?? · Wednesday, December 25th, 2024

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v-graphix/iStock

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※数値は全て暫定値であり、今後変動し得る。

【参考】2040年度におけるエネルギー需給の見通し

● 2040年度エネルギー需給の見通しは、諸外国における分析手法も参考としながら、**様々な不確実性が存在することを念頭に、複数のシナリオを用いた一定の幅として提示。**

* 新たなエネルギー需給見通しでは、NDCを実現できた場合に加え、実現できなかったリスクシナリオも参考値として提示。

		2023年度 (速報値)	2040年度 (見通し)
エネルギー自給率		15.2%	3～4割程度
発電電力量		9854億kWh	1.1～1.2兆 kWh程度
電源構成	再エネ	22.9%	4～5割程度
	太陽光	9.8%	22～29%程度
	風力	1.1%	4～8%程度
	水力	7.6%	8～10%程度
	地熱	0.3%	1～2%程度
	バイオマス	4.1%	5～6%程度
	原子力	8.5%	2割程度
火力		68.6%	3～4割程度
最終エネルギー消費量		3.0億kL	2.6～2.8億kL程度
温室効果ガス削減割合 (2013年度比)		22.9% <small>※2022年度実績</small>	73% (注)

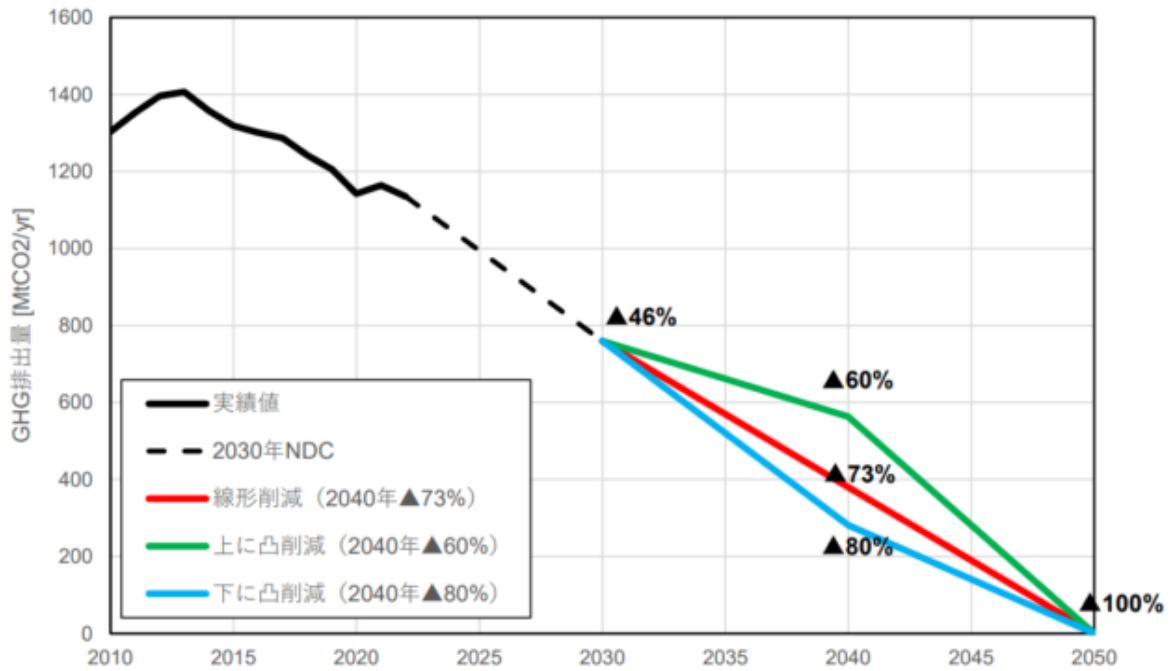
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 ??????????2040??4?5????????????????????

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??2050?????????(GHG)?????????
 ?????????????????????????????????????2040??73????????????????????????????2??

GHG排出量削減経路の想定



世界全体では、1.5°Cシナリオ+2030年各国NDCs+主要先進国は2050年CN (線形排出削減)を想定

??2(RITE)

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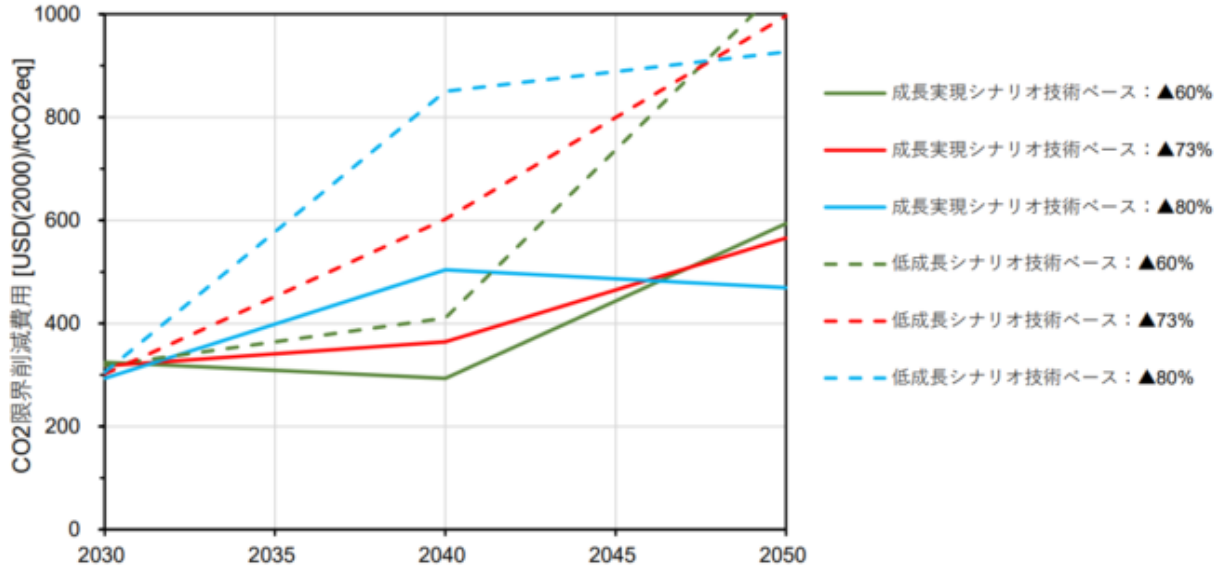
??12??8.5??????2040??2??????????30??
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??LNG?3?4?????????2?3????????????????????????????
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??2040??73????????????????????????2040????2??2050?????3????????????RITE???????



CO₂限界削減費用：時系列



??5?RITE?

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

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?? ?? · Wednesday, December 25th, 2024

??12?19????????????????????

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Halyna Romaniv/iStock

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GCC?A-USC?IGFC????????????????????????

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

IEA????????????????????

?? ?? · Monday, December 23rd, 2024



Sergei Chuyko/iStock

????????IEA??



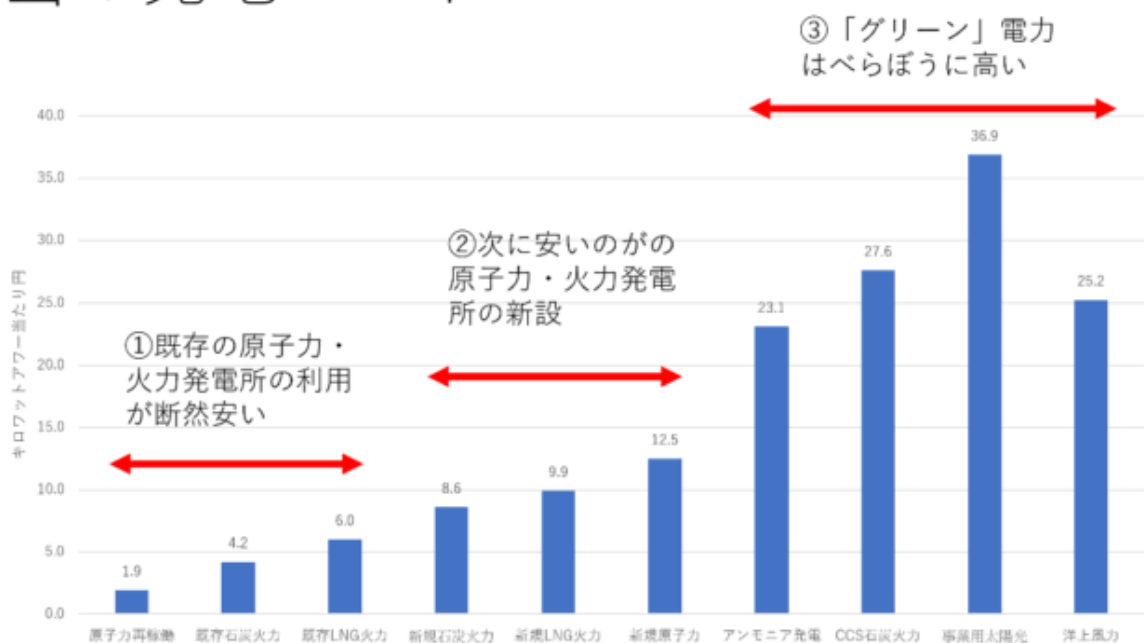
shotbydave/iStock

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2040????????????????????????????????????1??

本当の発電コスト



?1?2040????????????????????????????

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

????????????????????????????NZBA?????

?? ?? · Wednesday, December 18th, 2024

12?6???Net-Zero Banking Alliance?NZBA??

???NZIA???ClimateAction100+???NZBA??

???2025?1???NZBA???NZBA??



Vitalii Petrushenko/iStock

NZBA????

NZBA????2050??
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ESG????????

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

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?? ?? · Monday, December 16th, 2024



Douglas Rissing/iStock

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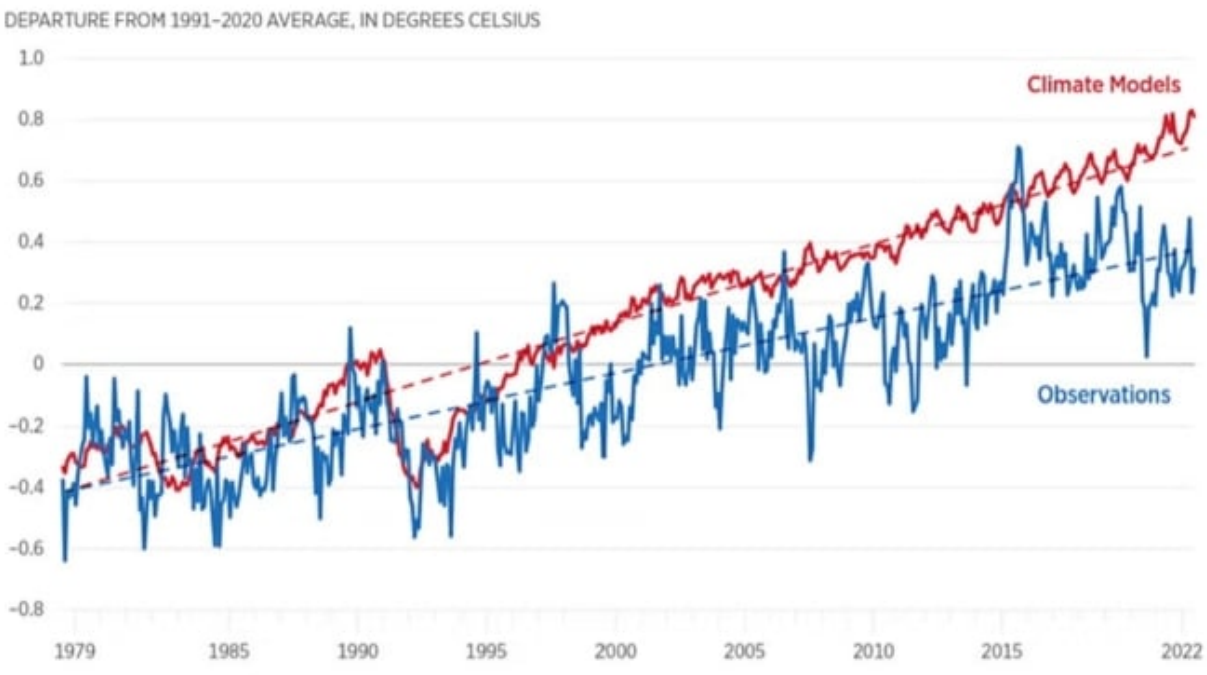
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Global Warming: Observations vs. Climate Models

Global Average Surface-Air Temperature Variations, 1979–2022



NOTE: Figures have been adjusted to align trends starting in 1979.
SOURCES: Author's calculations based on data from five different observation-based datasets and 36 climate models taking part in the sixth IPCC Climate Model Intercomparison Project, and KNMI Climate Explorer, "Starting Point," <https://climexp.knmi.nl/start.cgi> (accessed January 10, 2024).

BG3809 heritage.org

????????????1979-2022??
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IPCC??
 ???
 CO2??
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The Unreliability of Current Global Temperature and Solar Activity Estimates and Its Implications for the Attribution of Global Warming

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

????????????CCS????????CCS???

?? ?? · Friday, December 13th, 2024



pcess609/iStock

????????????????????????????????????CCS?Carbon dioxide Capture & Storage????????????????????????????????????CO2??

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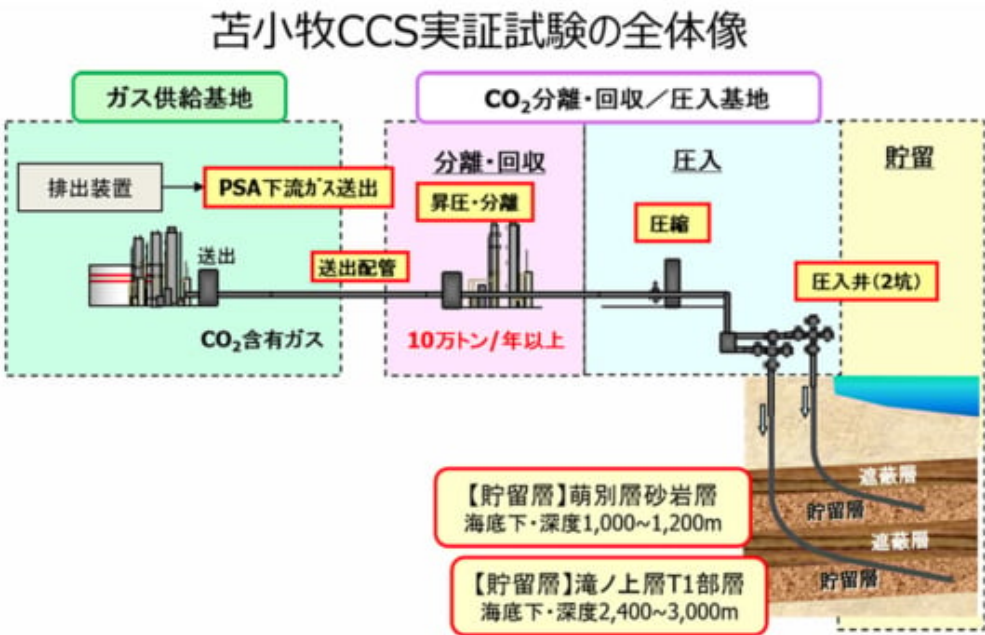
????CCS????

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CCS?CO2???
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?????2050????????????????2030????CCS????????????????????????????????
????????????CO2????????????CCS????????????????????????????????????
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??2012??2020????????????30????CO2????????????????????????



PSA (Pressure Swing Adsorption, 圧カスイング吸着) :
水素製造装置の生成ガスから高純度水素ガスを得る装置。PSA装置からの下流ガスには高濃度CO2が含まれる。

????????CCS????????????

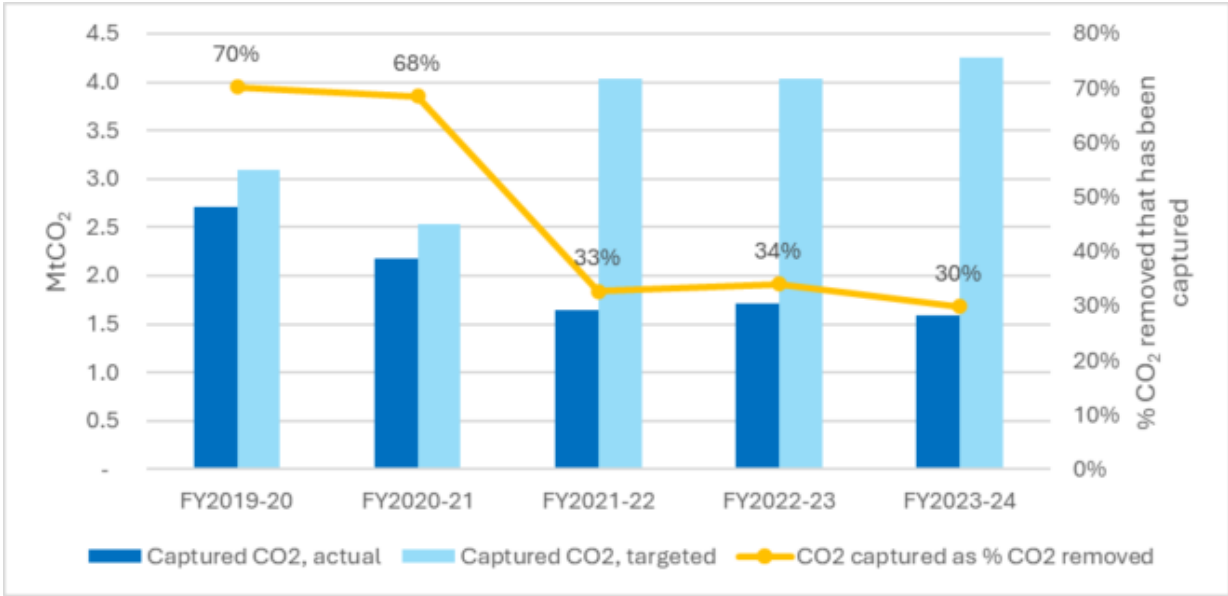
CCS????????????????????

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2000m????????????????????????????????????CCS????????????CO2?80??
????400????????????

Expensive failure: Flagship Gorgon CCS collects less CO2 in worst year | RenewEconomy

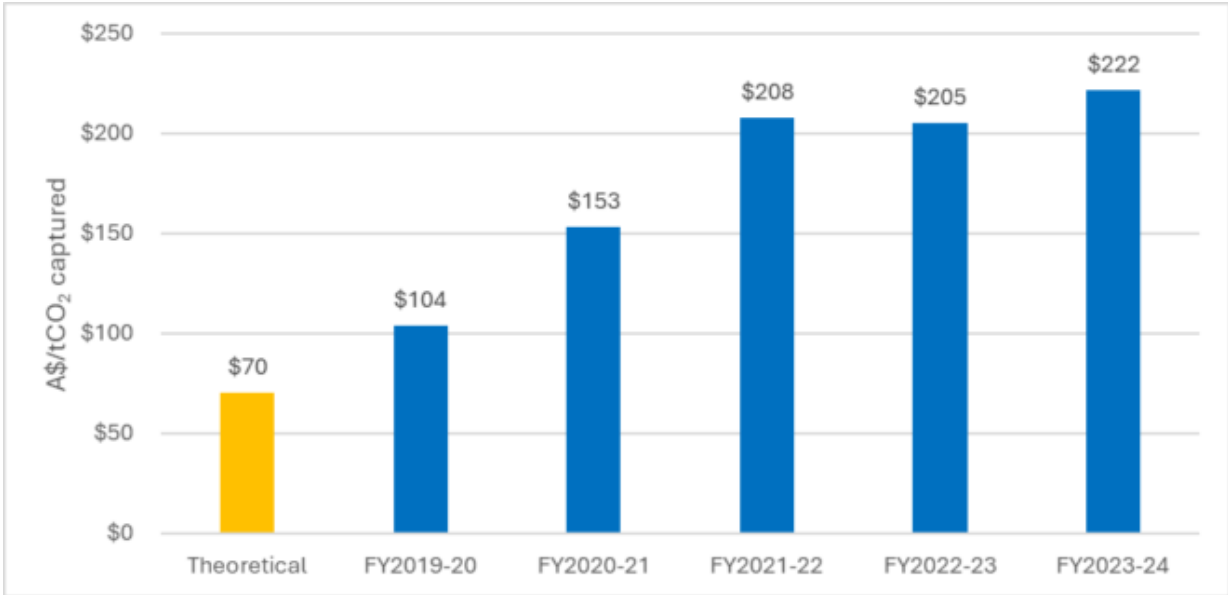
????????2024????????160????????2019????????????



reneweconomy

2023 2019-20 10
2024 9 144 CCS

CO2 2019-20 25 2023
32 CO2 70 200
1 40



reneweconomy

CO2 (i) (ii)
CO2
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3

QUESTION

QUESTION: How much CO2 emissions are expected to be captured by 2050?

ANSWER

ANSWER: According to the IEA Net Zero Emissions (NZE) scenario, CO2 emissions are expected to be captured by 2050 at a rate of 23,000 million tonnes per year.

QUESTION

QUESTION: What are the main drivers of CO2 emissions reduction in the NZE scenario?

ANSWER

ANSWER: The main drivers of CO2 emissions reduction in the NZE scenario are the rapid deployment of CCS and the expansion of LNG.

QUESTION

QUESTION: How much CCS capacity is expected to be deployed by 2050?

ANSWER

ANSWER: According to the IEA NZE scenario, CCS capacity is expected to reach 400 GW by 2050.

QUESTION

QUESTION: How much CCS capacity is expected to be deployed by 2040?

ANSWER

ANSWER: According to the IEA NZE scenario, CCS capacity is expected to reach 100 GW by 2040.

QUESTION: How much CO2 emissions are expected to be captured by 2050 in the NZE scenario?

ANSWER: According to the IEA NZE scenario, CO2 emissions are expected to be captured by 2050 at a rate of 23,000 million tonnes per year.

QUESTION: How much CO2 emissions are expected to be captured by 2050 in the NZE scenario?

ANSWER: According to the IEA NZE scenario, CO2 emissions are expected to be captured by 2050 at a rate of 23,000 million tonnes per year.

QUESTION: How much CO2 emissions are expected to be captured by 2050 in the NZE scenario?

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

COP29???????

?? ? · Thursday, December 12th, 2024



COP29?????????

????COP29???????

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????2035?????????1.3?????????7?????????3000?????????8????2????????????

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NCQG????????????????????



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deal??????

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1.5?2050?1.5?2050??

2023?1.5?2050??

3000?1.3?2035?3000??

1000?13?3000??

drill, baby, drill)??

4?4?EU?3000??

1.5?2050??

1.5?IPCC?6?1.5?CO2?2030?48?2035?65?2019?2030?9?2030?35?7.6??

2020?2019?75.8?10??

17?SDGs??15??9??

NDC??2??

1.5??

2024?2025?2035?NDC?NDC?UNEP?1.5??

COP30?NDC?NDC??

EU??

2024?10??BRICS?EU?CBAM??

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Posted in [Global Energy Policy Research](#), [GEPR](#) | No Comments »

??2010????????????????????14?????21?????????????
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Posted in ??????????, ??? | No Comments »

COP29?????????

?? ? · Wednesday, December 11th, 2024



COP29??????????

11?16??24????????????????????COP29????????????COP29????????????????????

COP29??COP

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NCQG???????

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????COP????????????????????2024??COP29????????CO
 P21????????COP????????

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1000? 100 billion USD? 10? trillion USD? Not billion, but trillion?

NCQG

NCQG

2000

2000 NCQG 2000

1 shall provide 2 encouraged to provide or continue to provide 3 mobilize

NCQG

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COP COP

COP28 UAE

UAE

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COP29 2024

NCQG

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2035 13,000

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9/CP.21 53 (a) (b) (c)

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?1.3????????????COP29????????????COP30????????????????????????????????????

?COP29????????????

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

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

?? ?? · Tuesday, December 10th, 2024



NicoElNino/iStock

?????????11?25????????????????????????CO2?????2035??60??2040??73????????????2013????

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????2050?CO2??

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

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?? ?? ? - Friday, December 6th, 2024



butenkow/iStock

1984 50

Trusted Flaggers

1

2 100 3 10

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11 12 6 15 64



Nius??“????”????????
 Nius

Weil er Habeck „Schwachkopf“ nannte: Hausdurchsuchung im Morgengrauen wegen Volksverhetzung

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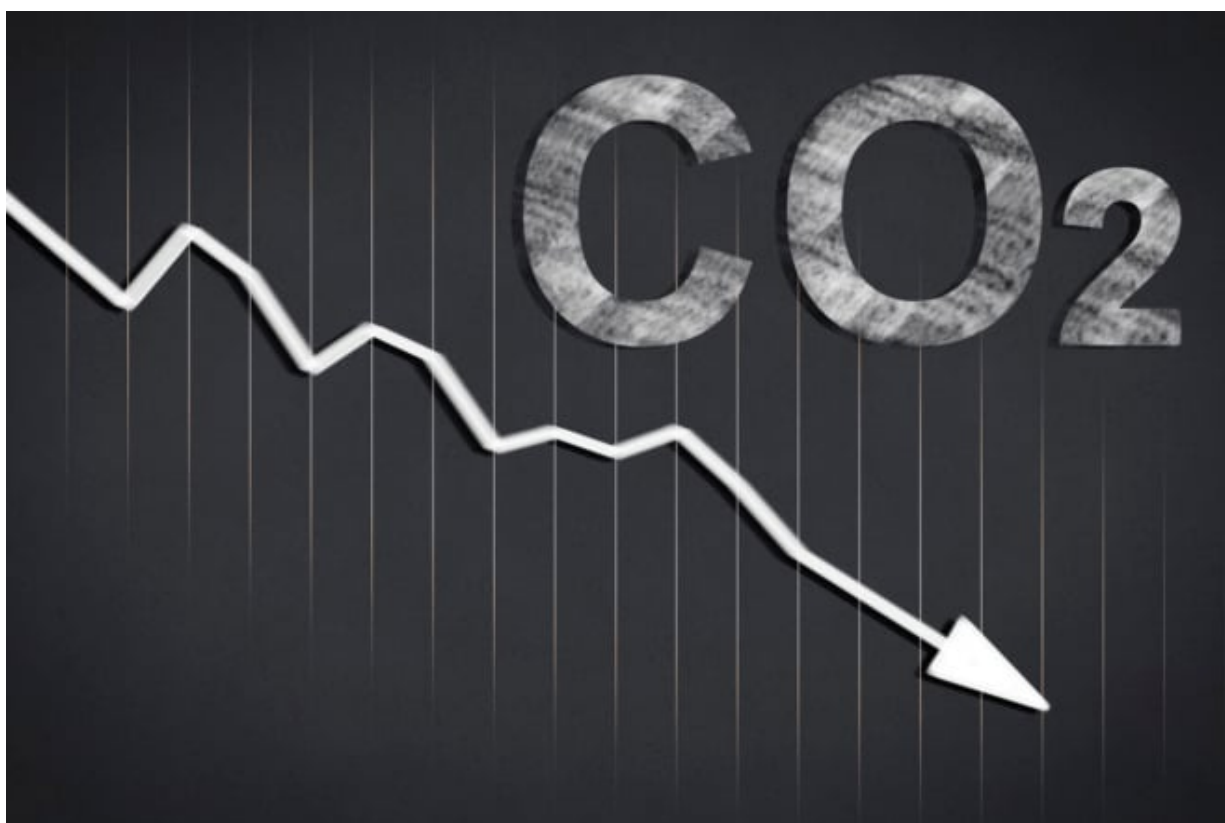
AfD??

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

2035??CO2?????60%???????????????

?? ?? · Thursday, December 5th, 2024



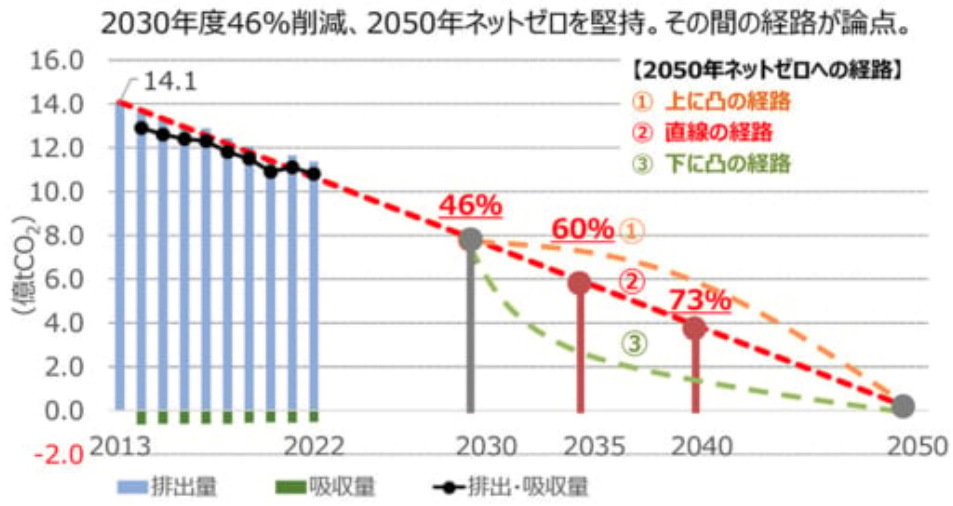
????????10?31????????2035??CO2?60????????????????????????????????????

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?????WG ??????6??

2050??

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日本の排出削減の現状と次期NDC（Nationally Determined Contribution）水準



NDCについての代表的な見解

① 上に凸の経路	<ul style="list-style-type: none"> 技術の革新が生まれ、排出削減が将来加速することを踏まえると、上に凸といった考えもある。
② 直線の経路	<ul style="list-style-type: none"> 2050年ネットゼロと整合的な道筋を示し続けることが、企業・社会にとって予見可能性を高める。
③ 下に凸の経路	<ul style="list-style-type: none"> 世界平均以上の目標を掲げるという姿勢を示すことで、はじめて途上国が動く。

2030年度から先の削減目標、削減経路については、多様なご意見があったところ、**2050年ネットゼロ実現に向けた我が国の明確な経路**を示し、排出削減と経済成長の同時実現に向けた予見可能性を高める観点から、**直線的な経路を軸に検討を進めることとどうか。**

2035??60??

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

これまでの合同会合でいただいた次期目標に関する主なご意見

- 経済合理的に考えると上に凸の形になり、過去を見ても同様の経路であったことも理解しながら、今後の2035年度や2040年度の目標を考える必要がある。
- 農業分野でも、最初はスロースタートでだんだんと指数関数的に伸びていく形（削減経路）を取らざるをえない状況。雇用を維持しながら国内の自給率を高める意味では、他の産業でも、農業と共通する部分がある。
- このままエネルギー多消費産業の衰退が進めば、経済と環境の好循環は達成されず、雇用も失われる。1.5℃目標への整合は目指しつつ、ある程度柔軟性を持った排出削減目標を考える必要がある。
- イノベーションによる排出削減効果が現れるまでに時間がかかることを踏まえ、上に凸で将来急速に下がる合理的なパスが、2050年ネットゼロに向けて直線的な削減を目指すべきか、G7の一員としての日本の国際的な発信の在り方も考えながら検討を深めるべき。
- 将来的にネットゼロにするだけでなく、早期の排出削減の考え方の下、カーボンバジェットの考え方を忘れずに、海外への貢献も含めて検討する必要がある。
- グローバルストックテイクで合意された、2019年比2035年60%削減に沿って、次期NDCを考えていく必要。野心的な数値目標は、企業にとってイノベーションのきっかけにもつながる。
- 2050年ネットゼロ、1.5度目標と整合的な道筋を示し続けるということが、企業・社会にとって予見可能性を高めることにつながる。
- 国際的な1.5℃目標や日本の2050年ネットゼロ目標に整合した意欲的な目標を掲げるべきであり、それをダウングレードするようなシグナルを社会に発するべきではないが、現実的な政策に知恵を出すことが必要。
- 最終的に目指すべきゴールについて、専門性を持った各セクターが共通認識を持って取り組むことが重要。その最終ゴールからバックキャストして高い目標を掲げることが重要。

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

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?? ?? · Wednesday, December 4th, 2024



Lari Bat/iStock

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?? ?? · Tuesday, December 3rd, 2024



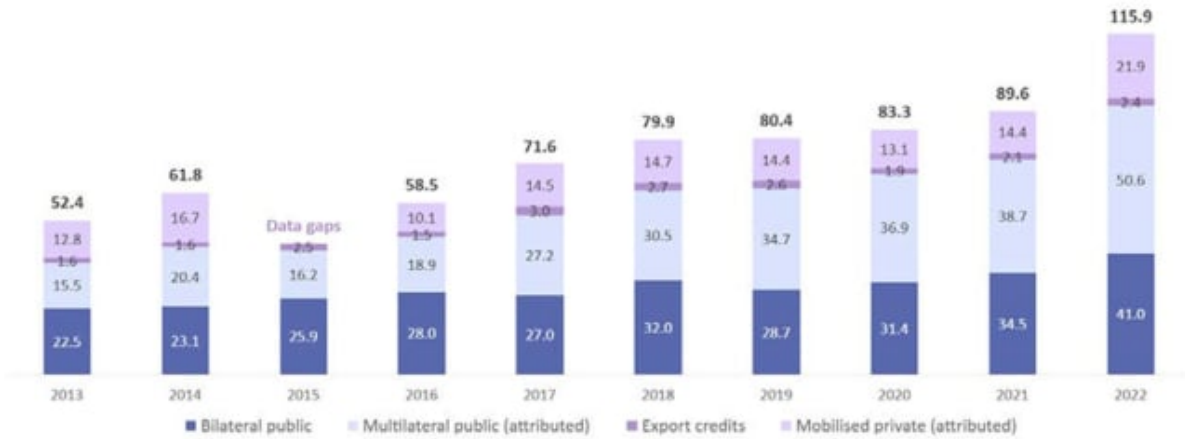
malerapaso/iStock

11?24??COP29?????2035??3000????????????????????????????????????48????

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Figure 1. Climate finance provided and mobilised in 2013-2022 (USD billion)



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Climate Finance Provided and Mobilised by Developed Countries in 2013-2022

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?? ?? · Sunday, December 1st, 2024

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COP29????????????????????????????????

?? ?? · Saturday, November 30th, 2024



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?? ?? · Tuesday, November 26th, 2024



InnaFelker/iStock

11??12??13????????????????????CLINTEL????????????????????”Climate change, facts and myths in the light of science”????????????????????

Two day Clintel conference in the Parliament of Prague – Clintel

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??CLINTEL??World Climate Declaration????????????????????1961??

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?? ?? · Thursday, November 21st, 2024

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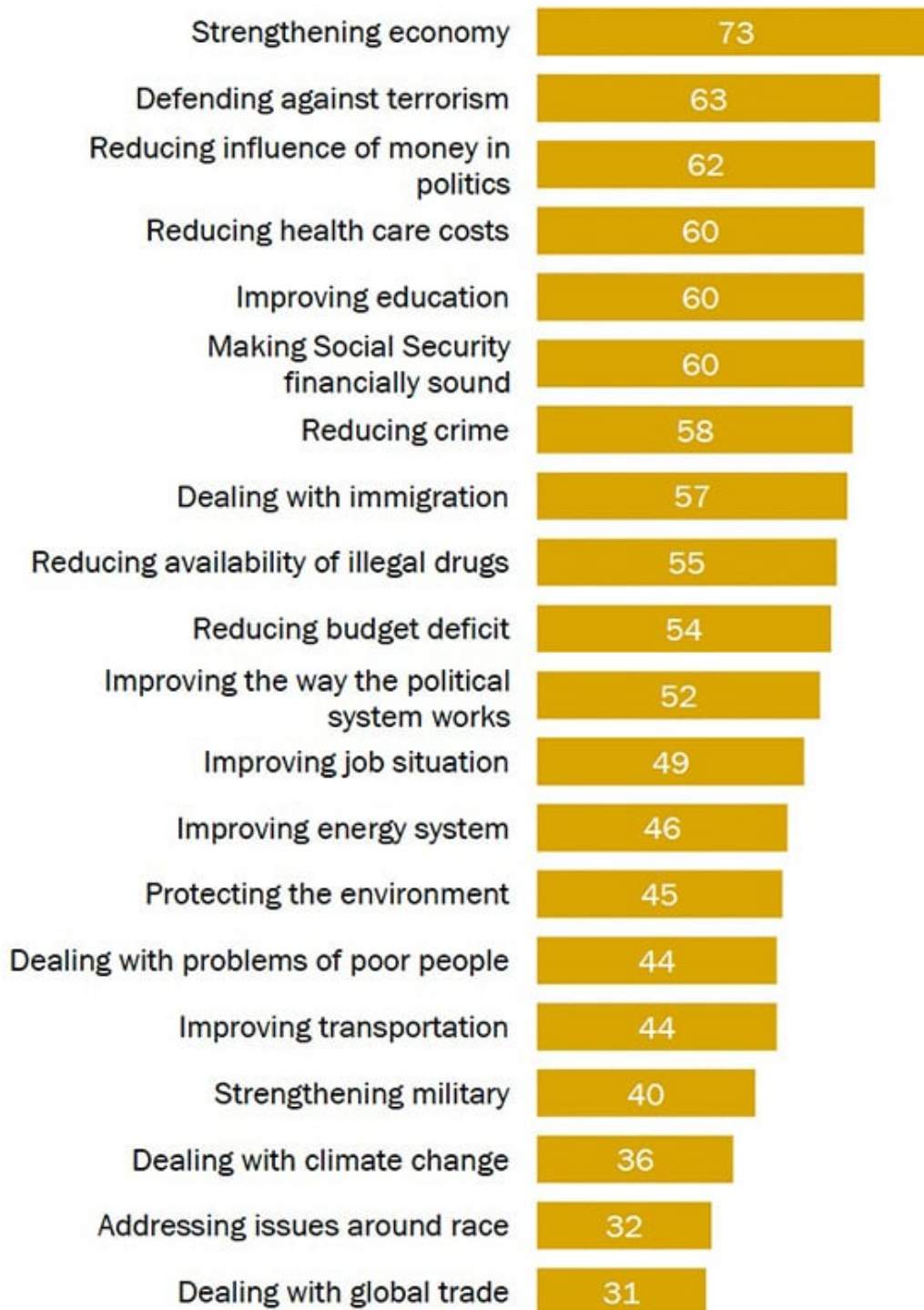
????????????????????COP29????????????2025????????????????????????????????????
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??20?????17???36%???????Pe
 w Research Center????????????????????

Americans' top policy priority this year? Strengthening the economy

% who say ___ should be a top priority for the president and Congress to address this year



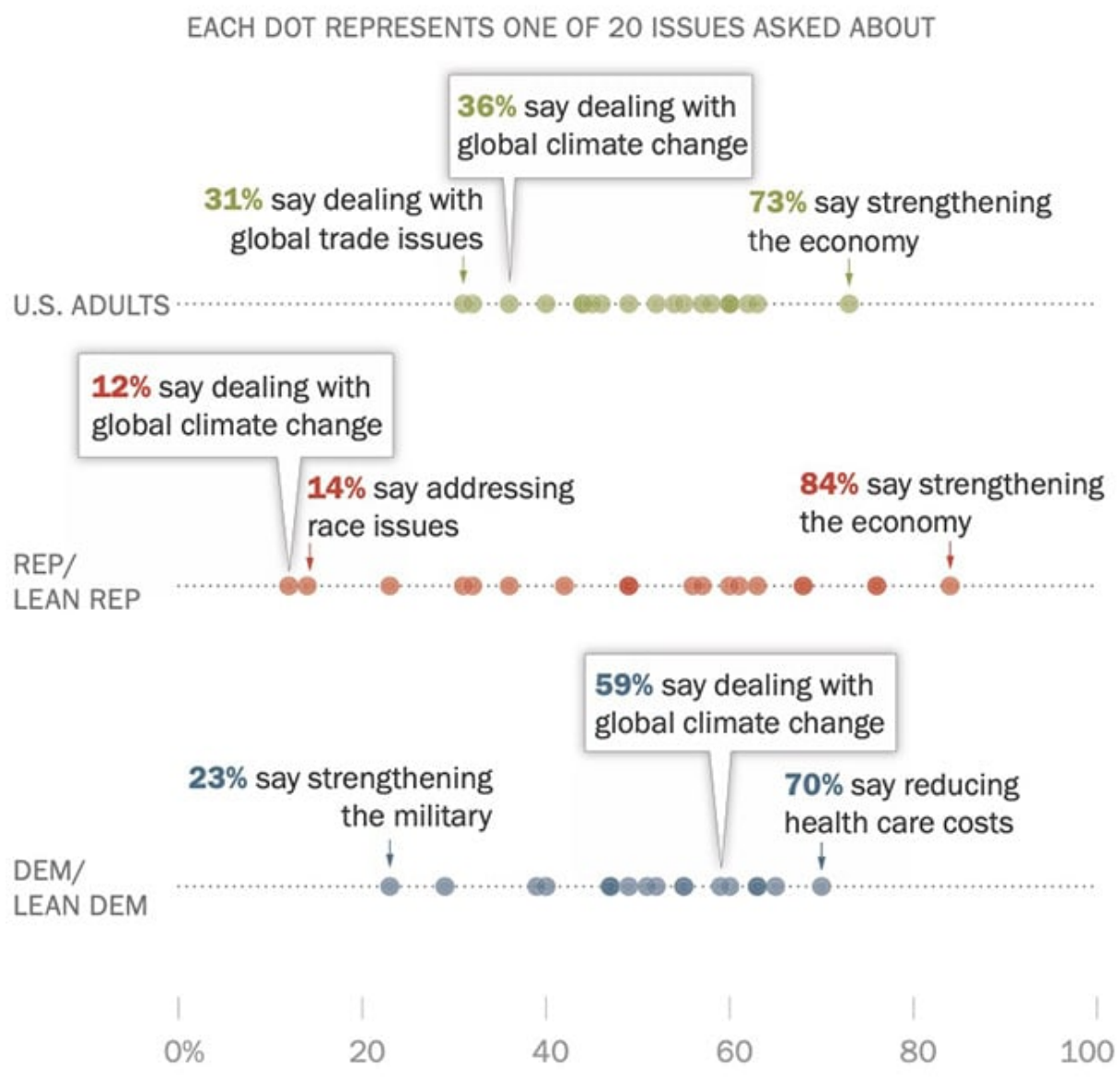
Source: Survey of U.S. adults conducted Jan. 16-21, 2024.

PEW RESEARCH CENTER

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Republicans rank climate change at the bottom of their priorities for the president and Congress in 2024

% of U.S. adults who describe each of the 20 issues asked about as a top priority for the president and Congress



Note: Respondents who gave other responses or did not give an answer are not shown.
Source: Survey of U.S. adults conducted Jan. 16-21, 2024.

PEW RESEARCH CENTER

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

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?? ?? · Thursday, November 21st, 2024

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I-1. J-クレジット制度の概要と目的

- J-クレジット制度とは、省エネ・再エネ設備の導入により排出削減されたり、森林管理により吸収されたりしたCO₂等の温室効果ガスの量を認証し、認証分の「クレジット」を発行する国の制度。
- クレジットは、排出削減実績を主張する権利を「証券化」したようなものであり、自らも排出削減に努めているが、もっと（実態以上に）排出削減した“ことにしたい”者へ、**移転・売却することが可能。**
- こうした売買が、クレジットの創出者と購入者との間の自由取引（量も価格も自由）で行われることにより、「市場メカニズム」の下、地球温暖化対策の資金を循環させ社会全体で最適に配置させることが目的（認証それ自体、あるいは認証を通じた排出削減・吸収の“称揚”が最終目的ではない）。



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

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?? ?? · Wednesday, November 20th, 2024

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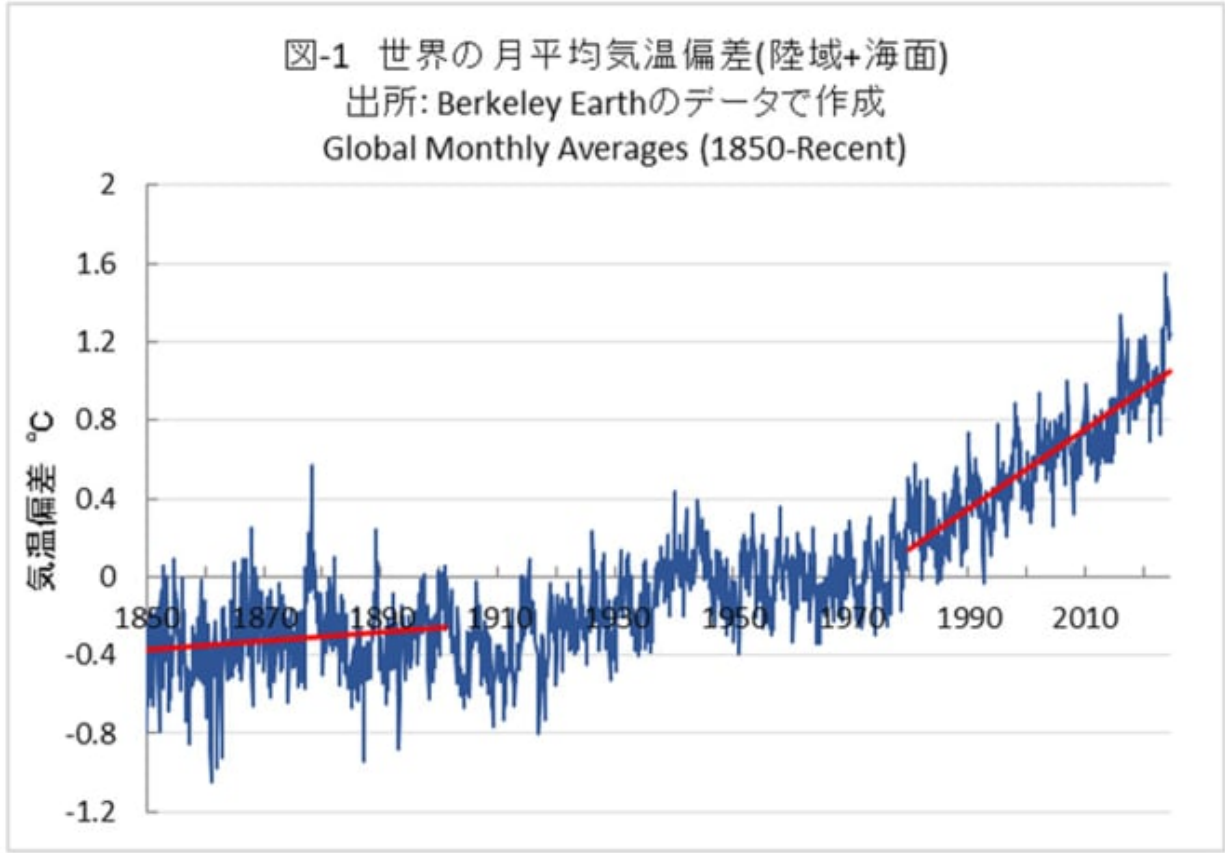
GEPR??? · Thursday, November 14th, 2024



ImagineGolf/iStock

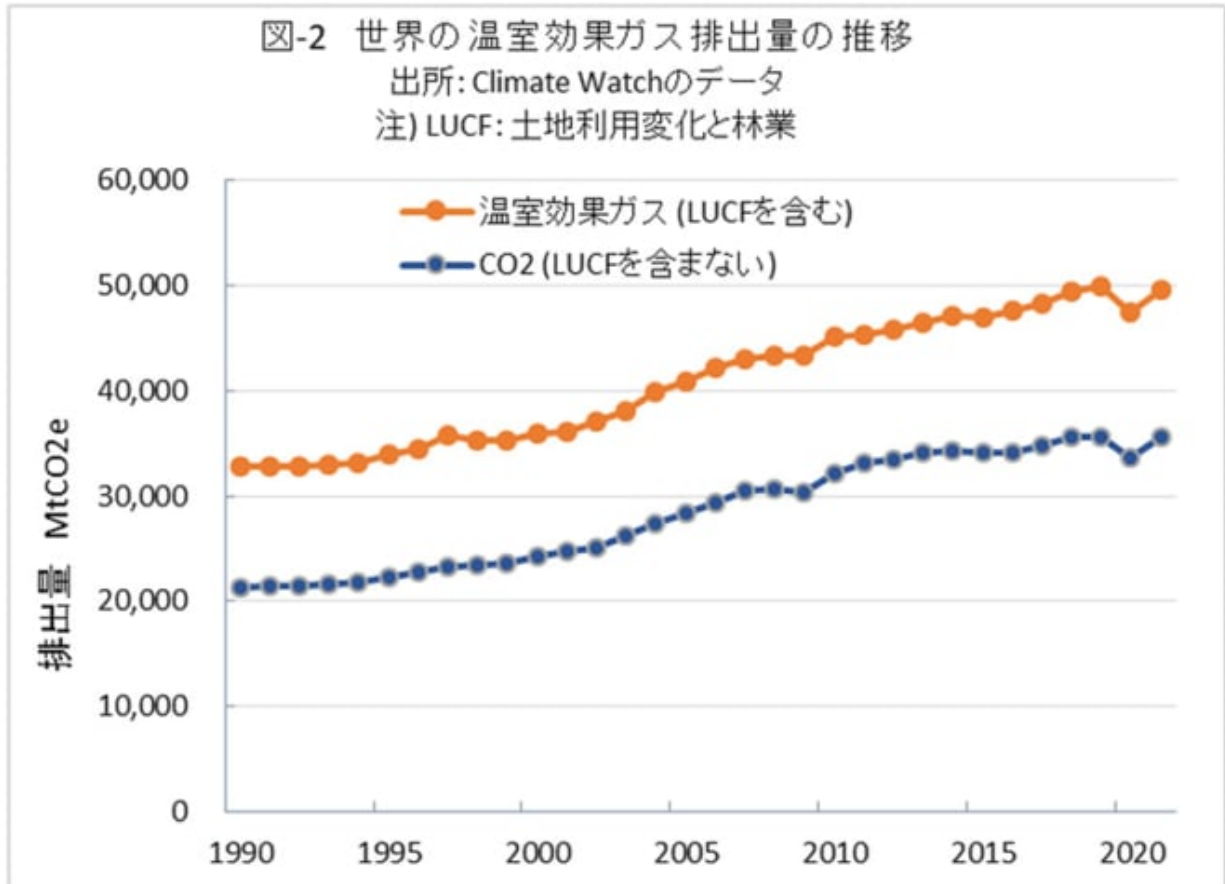
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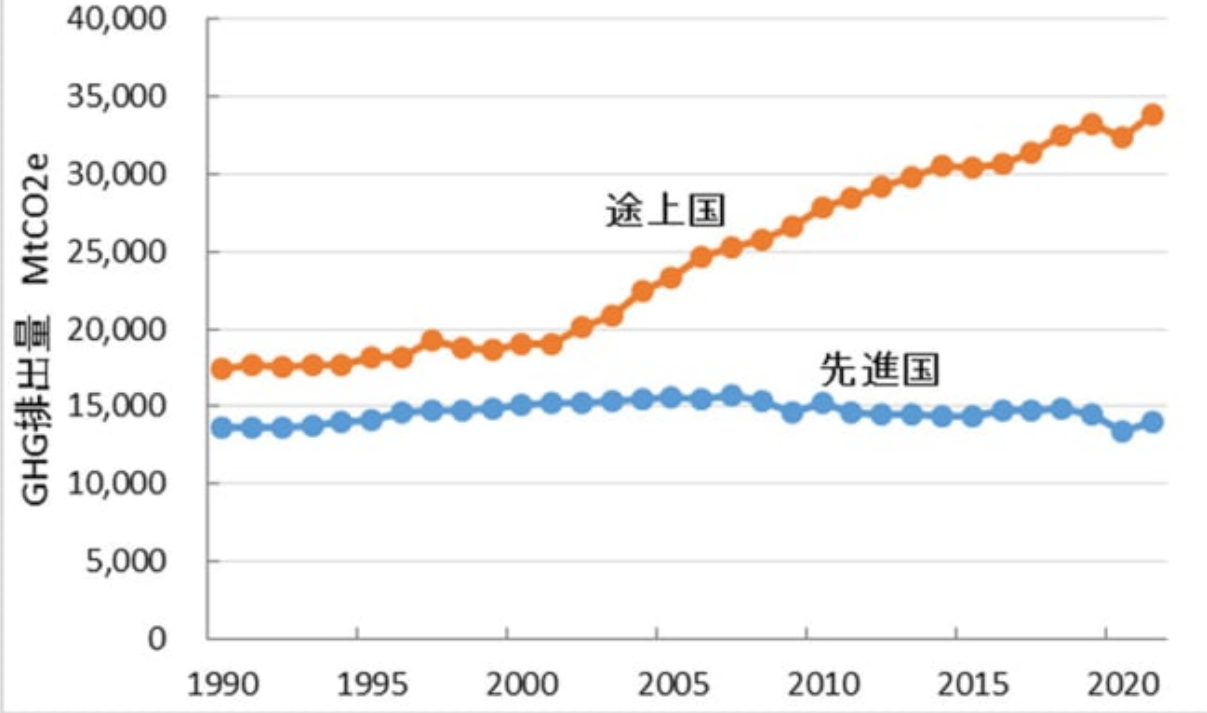
?2?Climate Watch?Data
 Explorer?????????????????????????????????9????????????????????????GHG?????????????????????



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図-3 先進国と途上国のGHG排出量の推移
出所: Climate Watchのデータで作成 (GHG LUCF含む)



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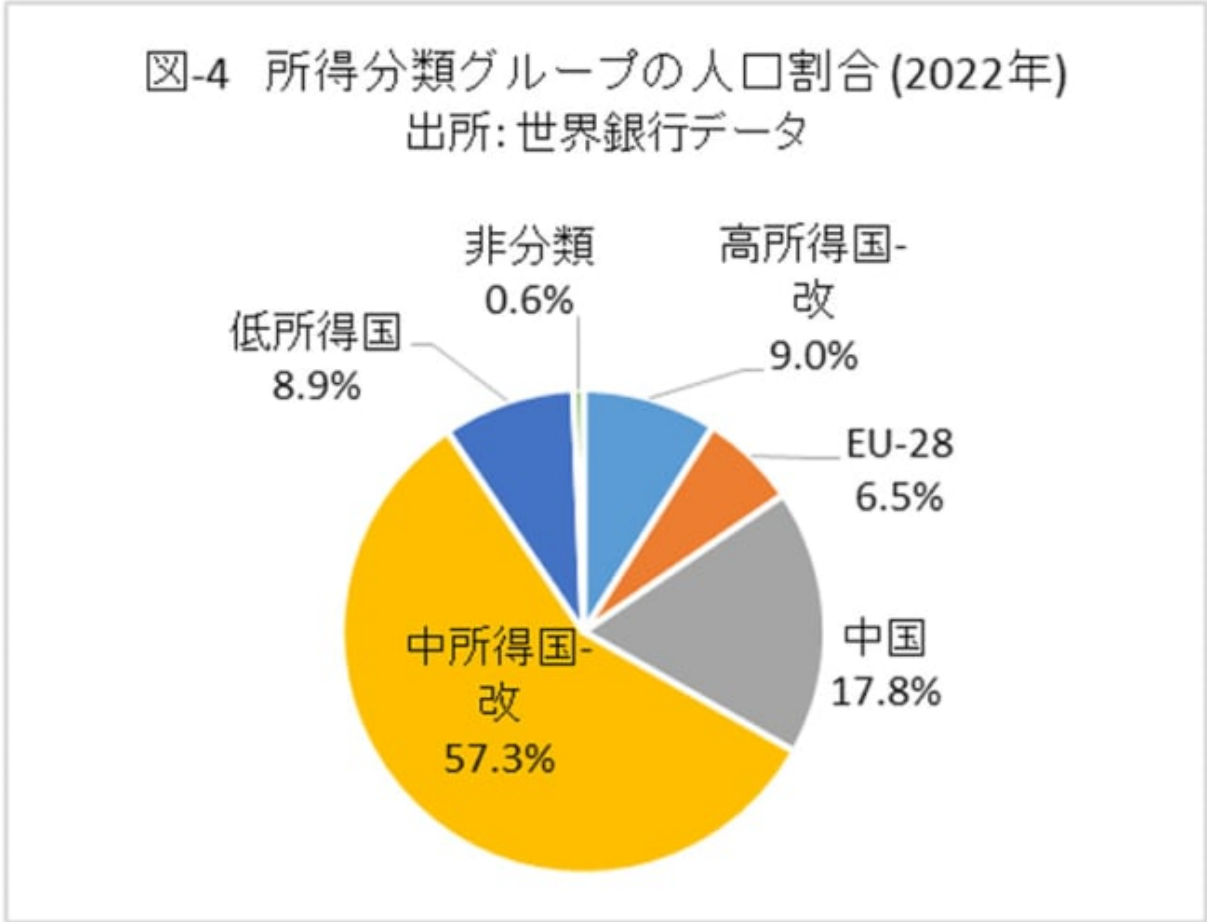
表-1 世界銀行の所得水準による国分類と本報告の国分類

本報告の分類	世界銀行、所得水準による国別分類 (FY22)		本報告での分類名称	備考
	分類名称	1人当たりGNI, USD		
先進国	High income countries	> 12,695	高所得国-改	EU除く
			EU-28	英国含む27カ国 ブルガリア含む
途上国	Upper-middle income countries	4,096 - 12,695	中国	
	Lower-middle income countries	1,046 - 4,095	中所得国-改	中国、ブルガリア除く
	Low income countries	< 1,045	低所得国	

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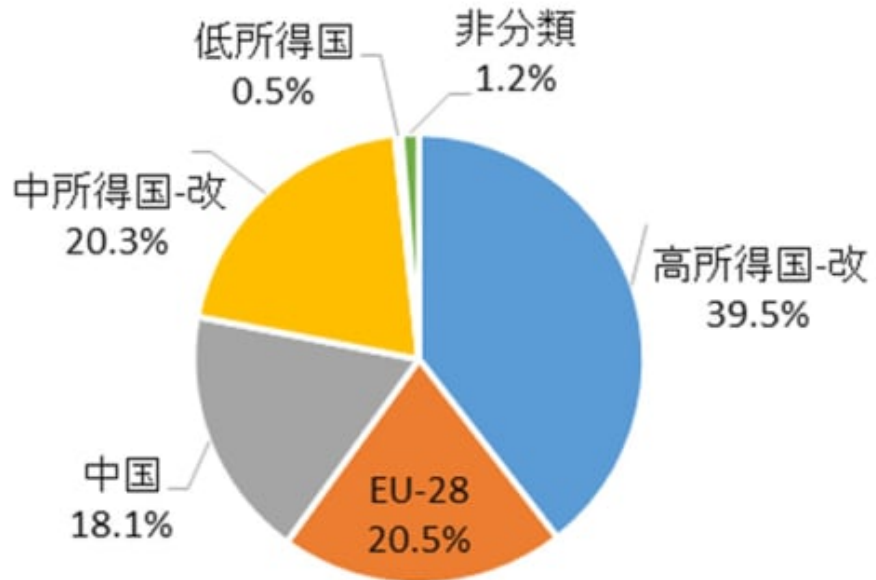
200 GHG GDP 5



4

GHG 2022 3/4 GDP 40%

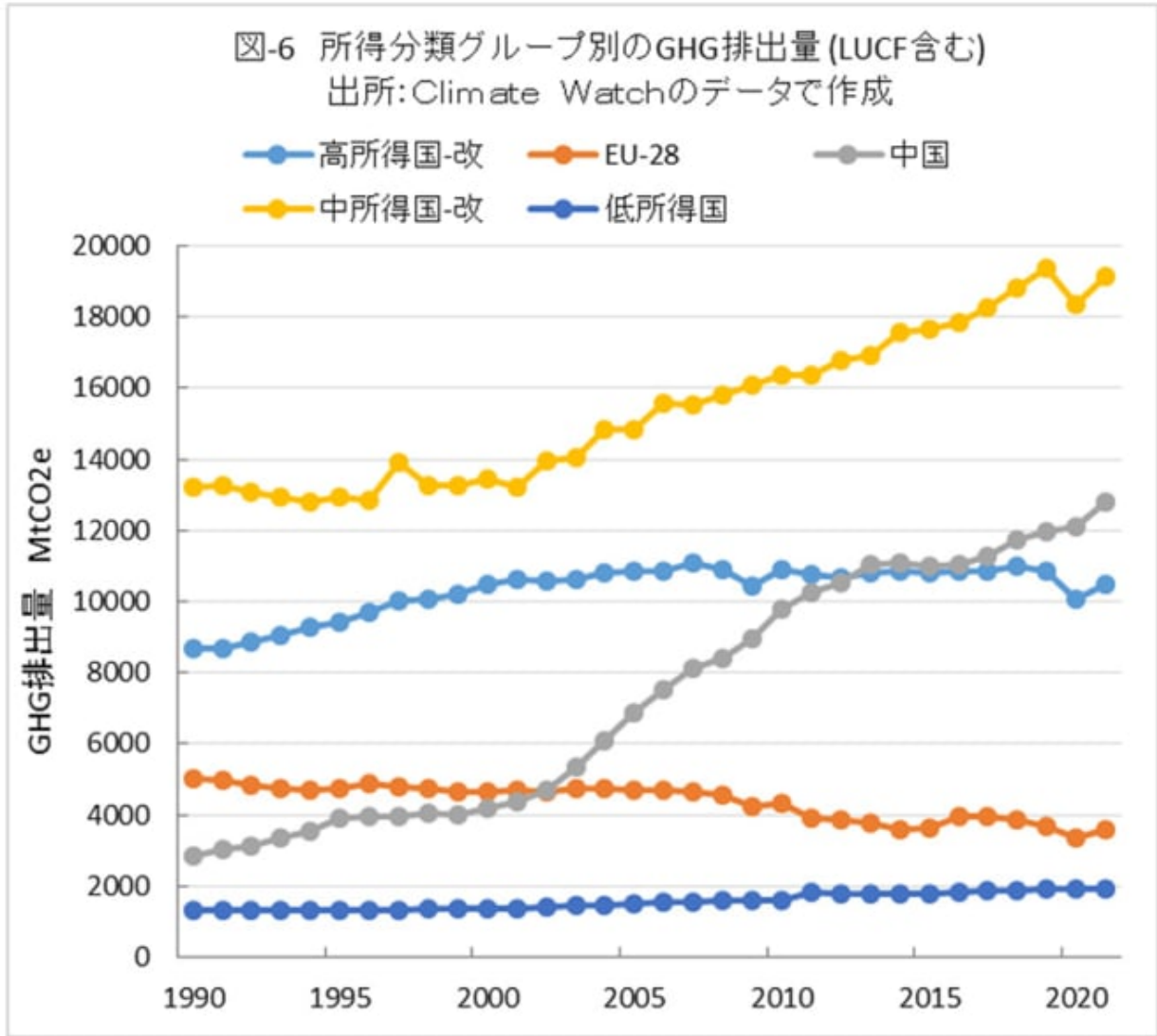
図-5 所得分類グループの実質GDP割合 (2022年)
出所: 世界銀行データ (constant 2015 USD)



25

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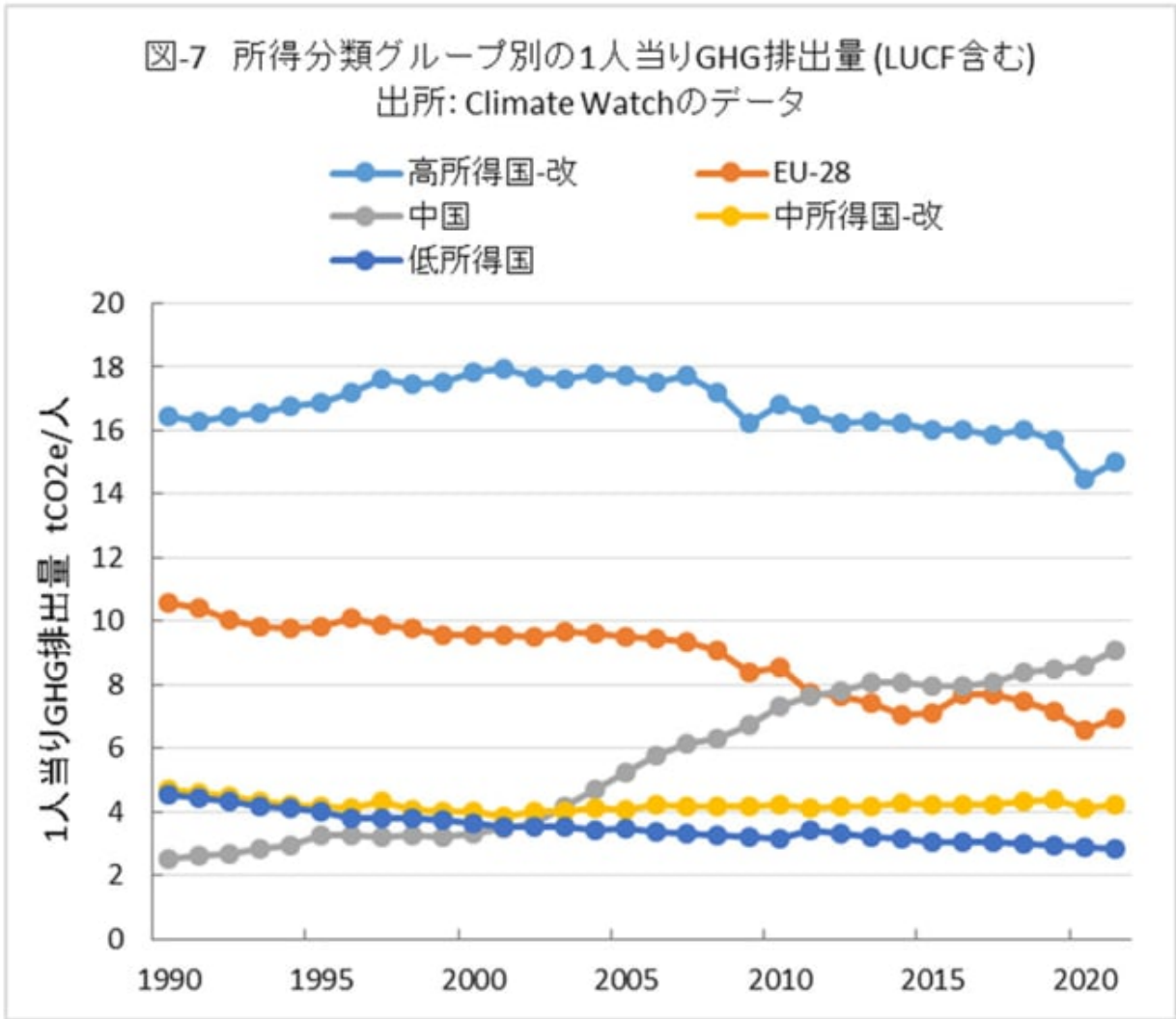
EU-28?GHG????????????????????-????????????????????-
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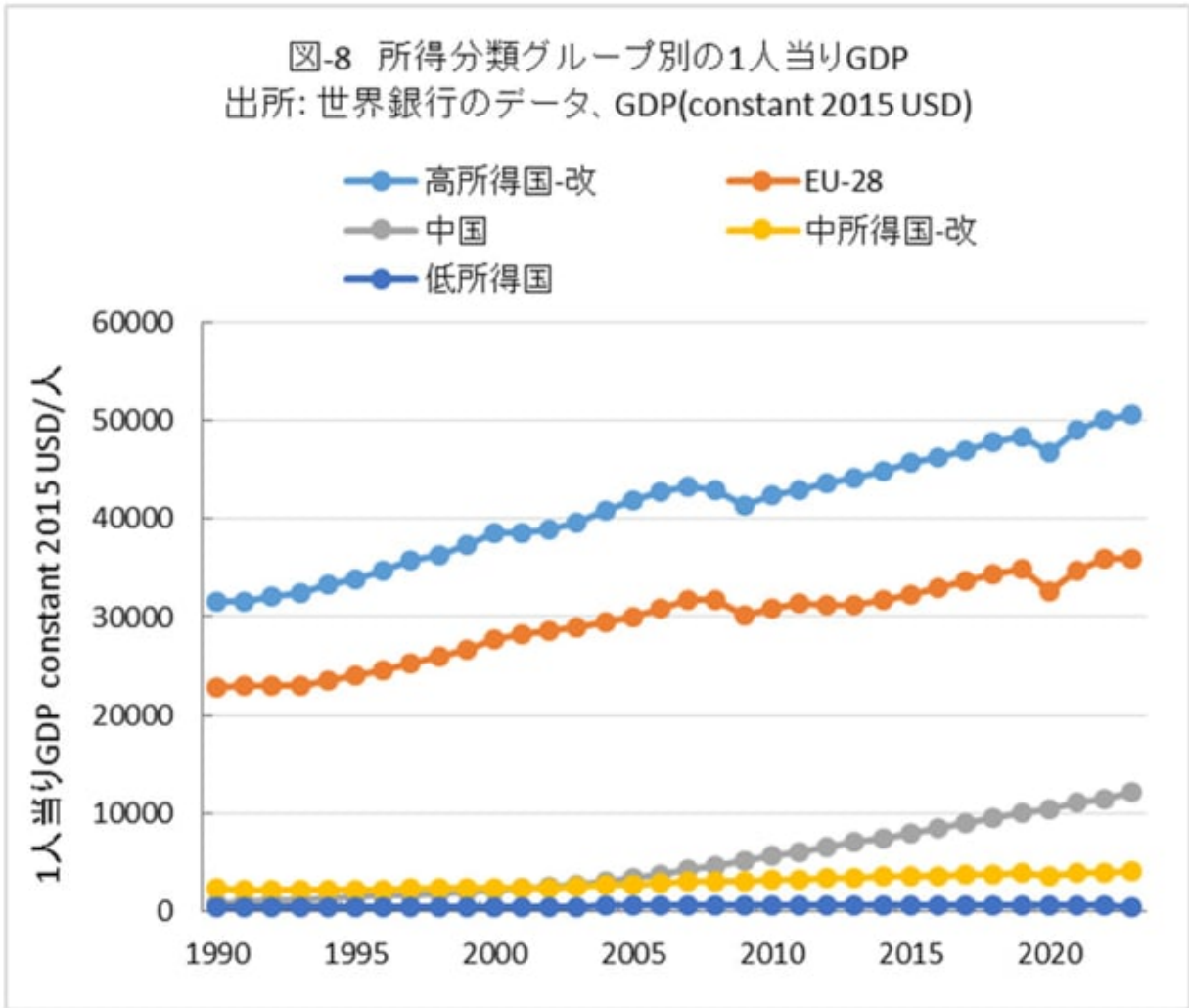
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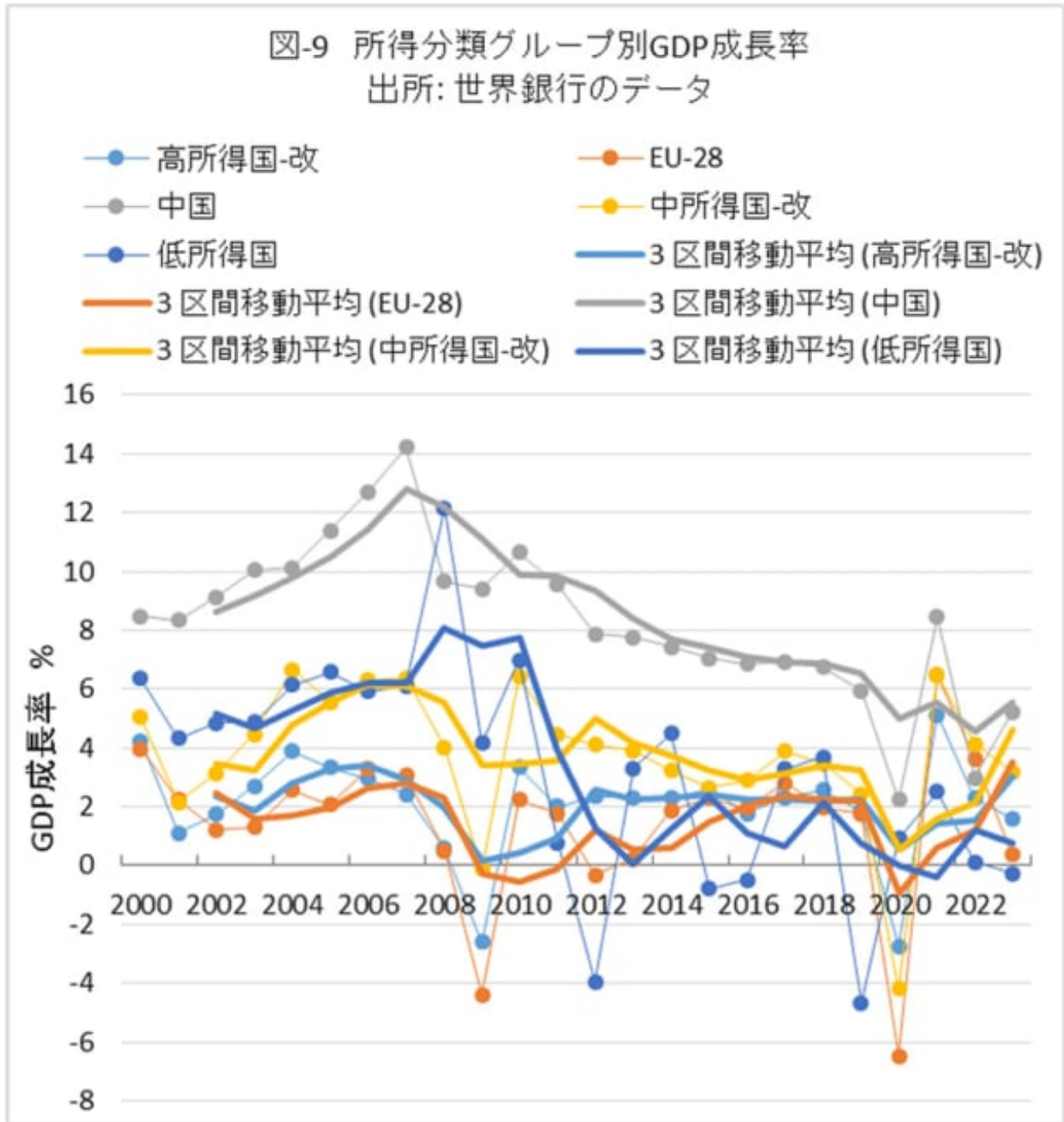
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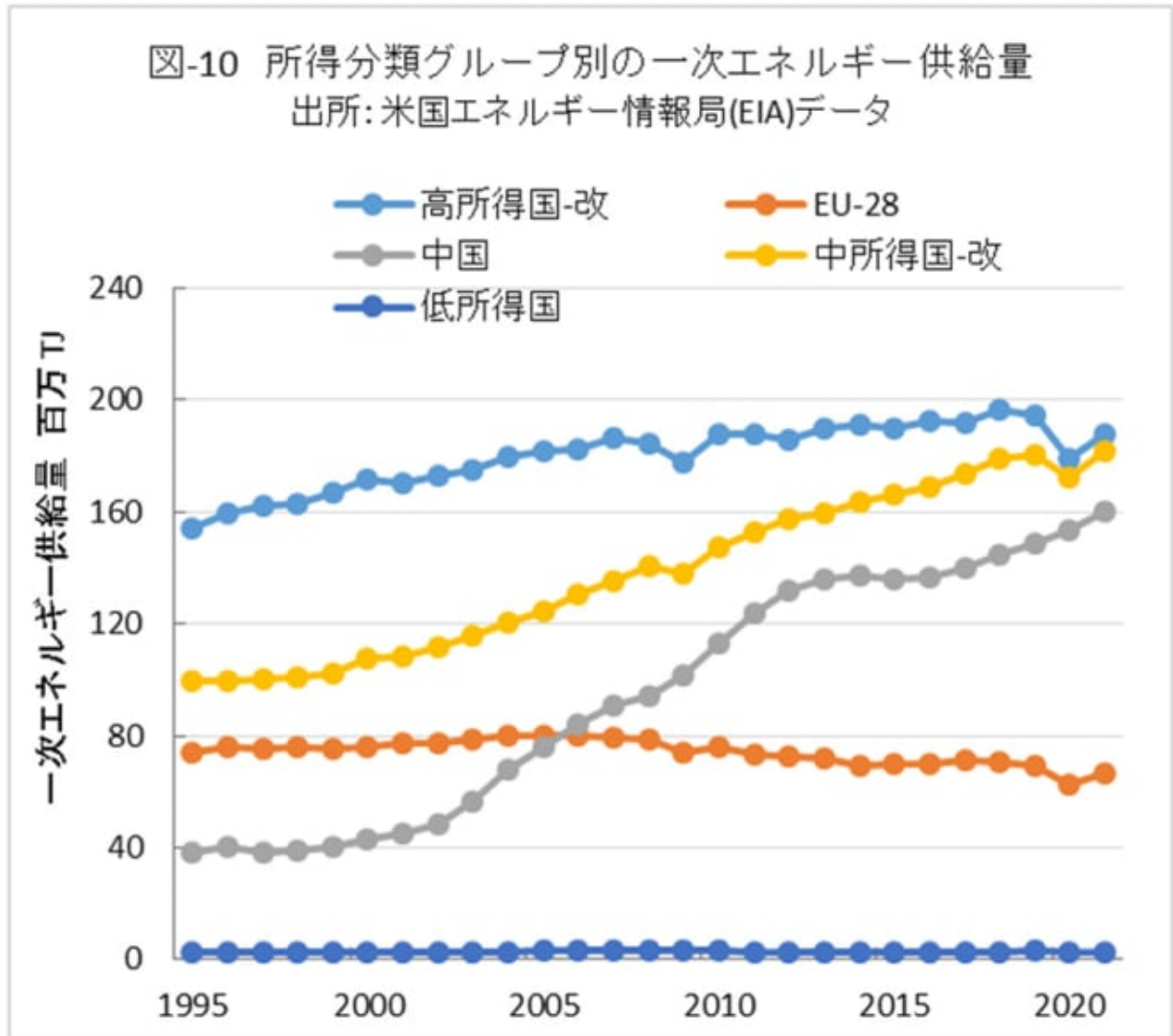


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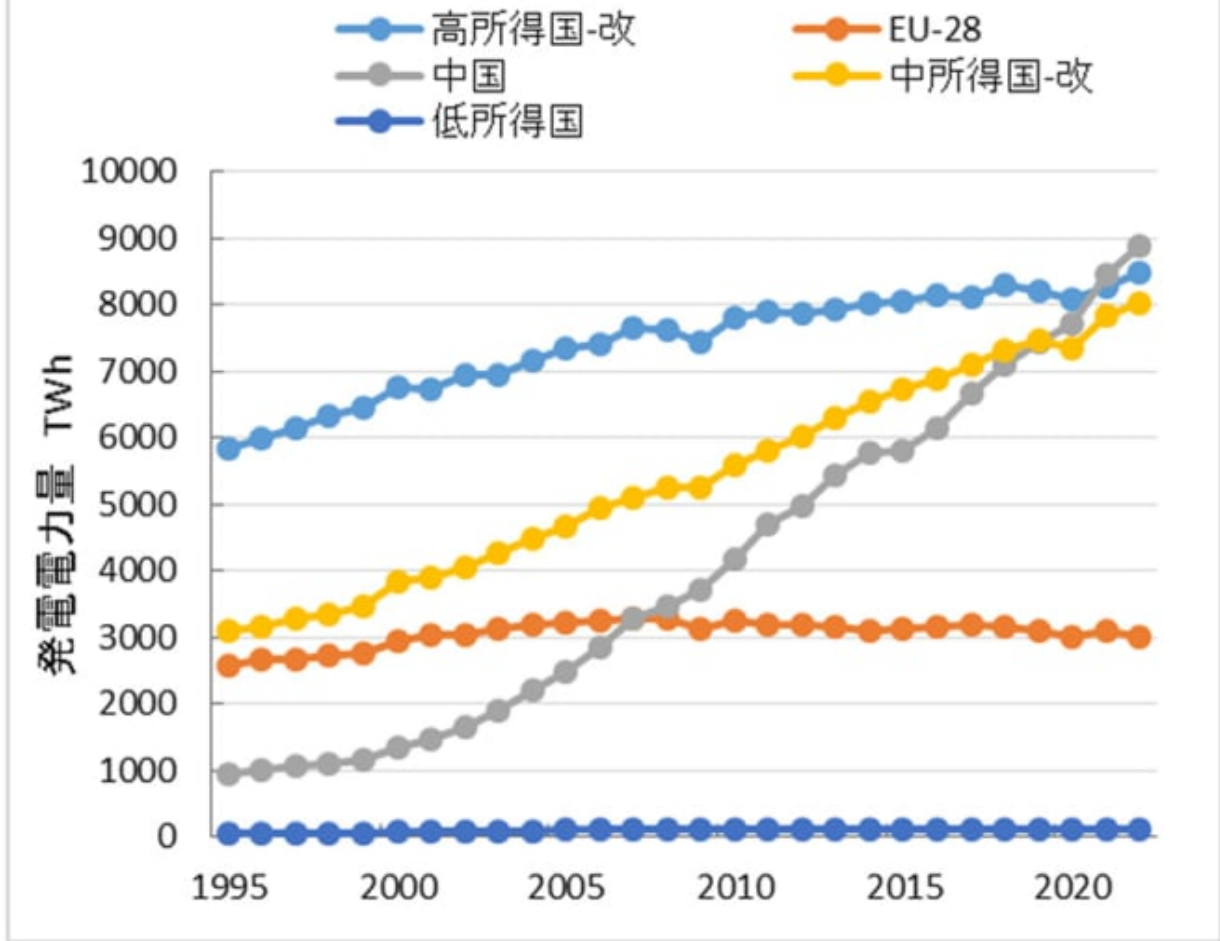


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図-11 所得分類グループ別の年間発電電力量
出所: 米国エネルギー情報局(EIA)のデータ



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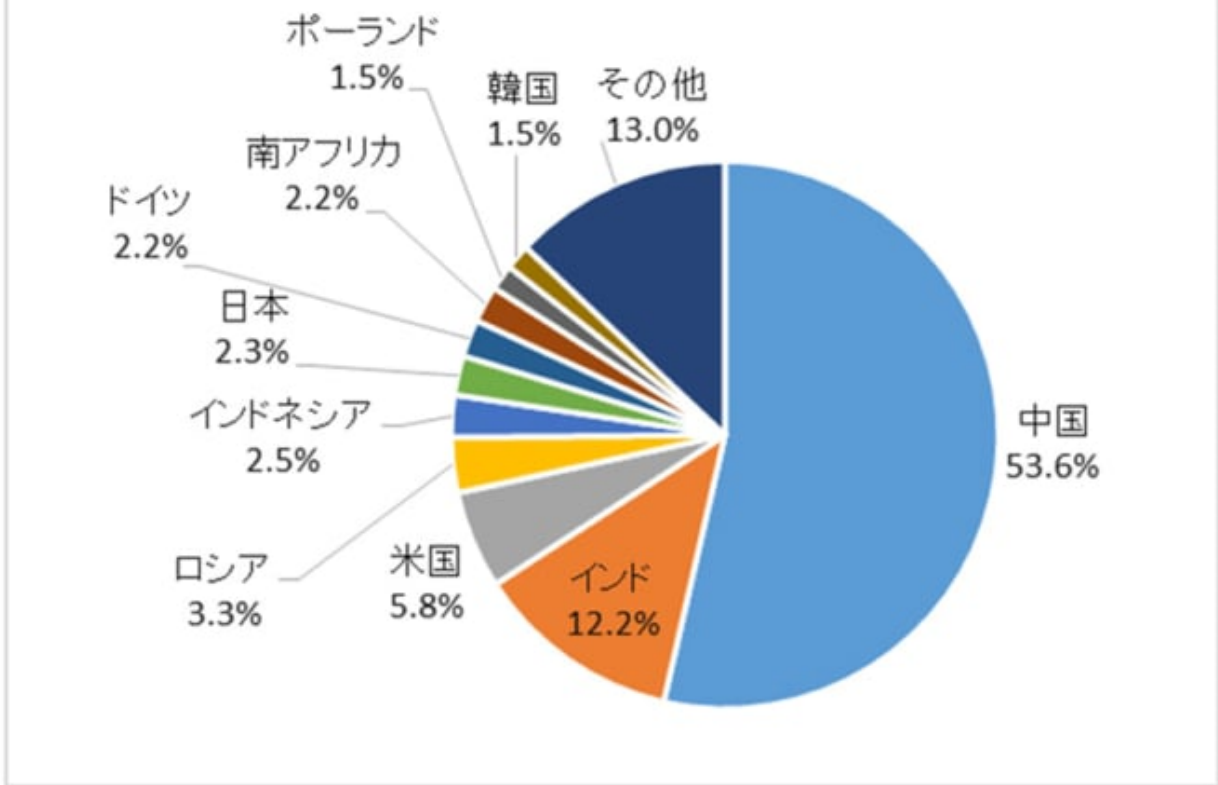
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図-13 世界の石炭消費量上位国(2022年)
消費重量比率、冶金原料炭を含む
出所: 米国エネルギー情報局、Internationalデータ



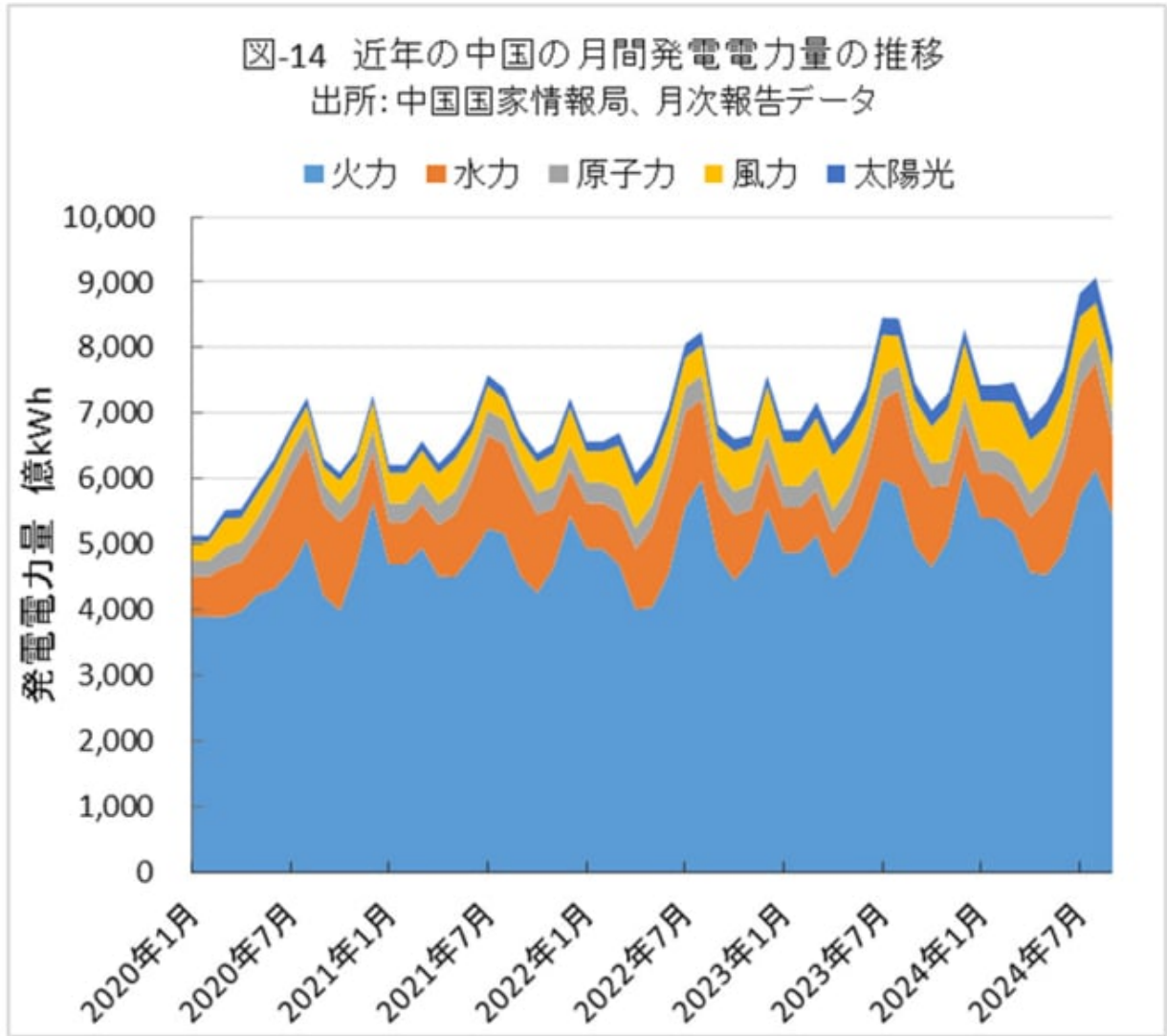
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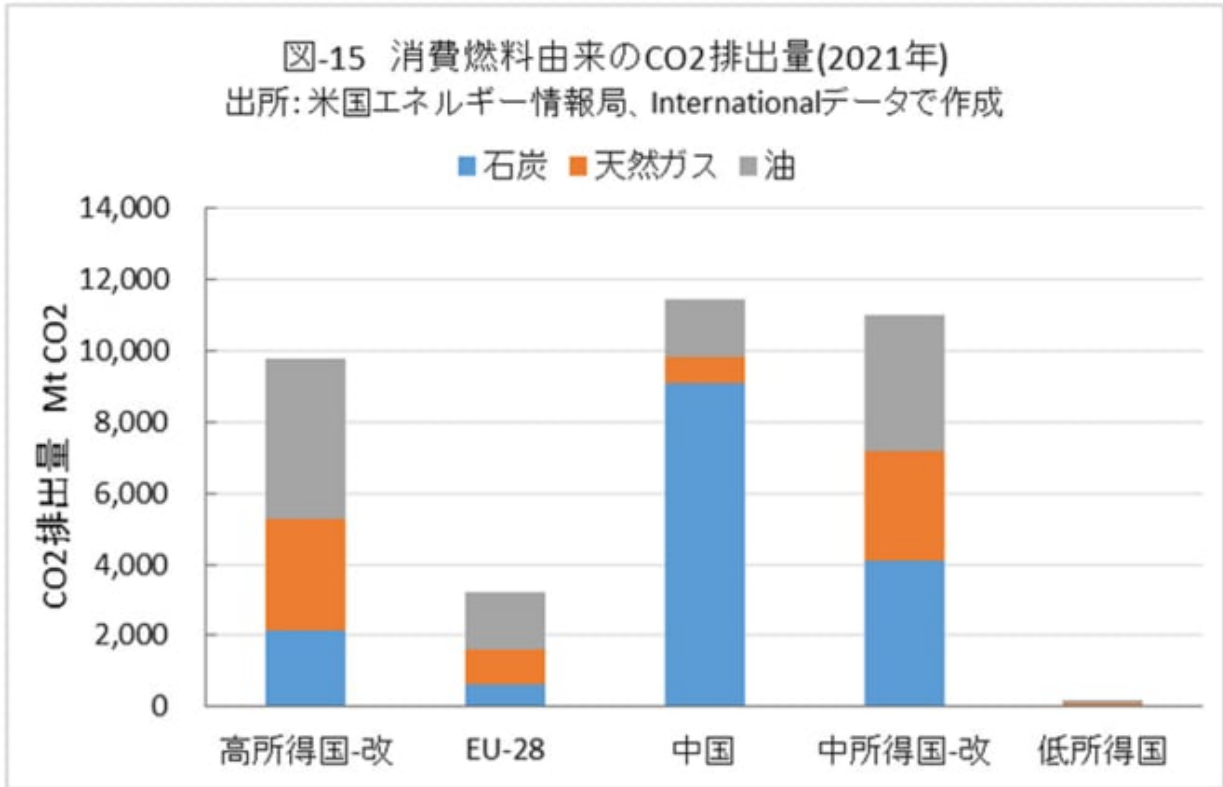


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Just_Super/iStock

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- 2023年，全球森林损失量达到创纪录的1.25亿公顷，比2013年增加了50%。
- 2023年，全球森林损失量达到创纪录的1.25亿公顷，比2013年增加了50%。
- 2023年，全球森林损失量达到创纪录的1.25亿公顷，比2013年增加了50%。
- 2023年，全球森林损失量达到创纪录的1.25亿公顷，比2013年增加了50%。
- 2023年，全球森林损失量达到创纪录的1.25亿公顷，比2013年增加了50%。

然而，森林损失的速度正在加快，这将对全球气候产生深远影响。据估计，森林损失每年释放约100亿吨二氧化碳当量。

2024年，全球森林损失量预计将达到1.35亿公顷，比2023年增加了8%。这将对全球气候产生深远影响。

How ‘carbon cowboys’ are cashing in on protected Amazon forest

据《卫报》报道，一些“碳牛仔”正在非法砍伐亚马逊雨林，以获取碳信用额。这些碳信用额被用于抵消企业的碳排放，从而帮助企业实现碳中和目标。

然而，

这些非法砍伐行为不仅破坏了森林生态系统，还释放了大量的二氧化碳，加剧了全球气候变化。

据《卫报》报道，一些“碳牛仔”正在非法砍伐亚马逊雨林，以获取碳信用额。

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Carbon Credit Scams: How ‘carbon cowboys’ are cashing in on protected Amazon forest

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然而，这些非法砍伐行为不仅破坏了森林生态系统，还释放了大量的二氧化碳，加剧了全球气候变化。

Betrug im Handel mit Kohlenstoff-Zertifikaten? – Forschung enthüllt massive Lücken im Waldschutz

据《卫报》报道，一些“碳牛仔”正在非法砍伐亚马逊雨林，以获取碳信用额。这些碳信用额被用于抵消企业的碳排放，从而帮助企业实现碳中和目标。

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Report: U.N. Using Climate ‘Credit’ Scheme to Hide Massive Carbon Emissions

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Trusted Flaggers????????????????????

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sonmez karakurt/iStock

Trusted Flaggers?????

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GEPR?? · Tuesday, November 12th, 2024



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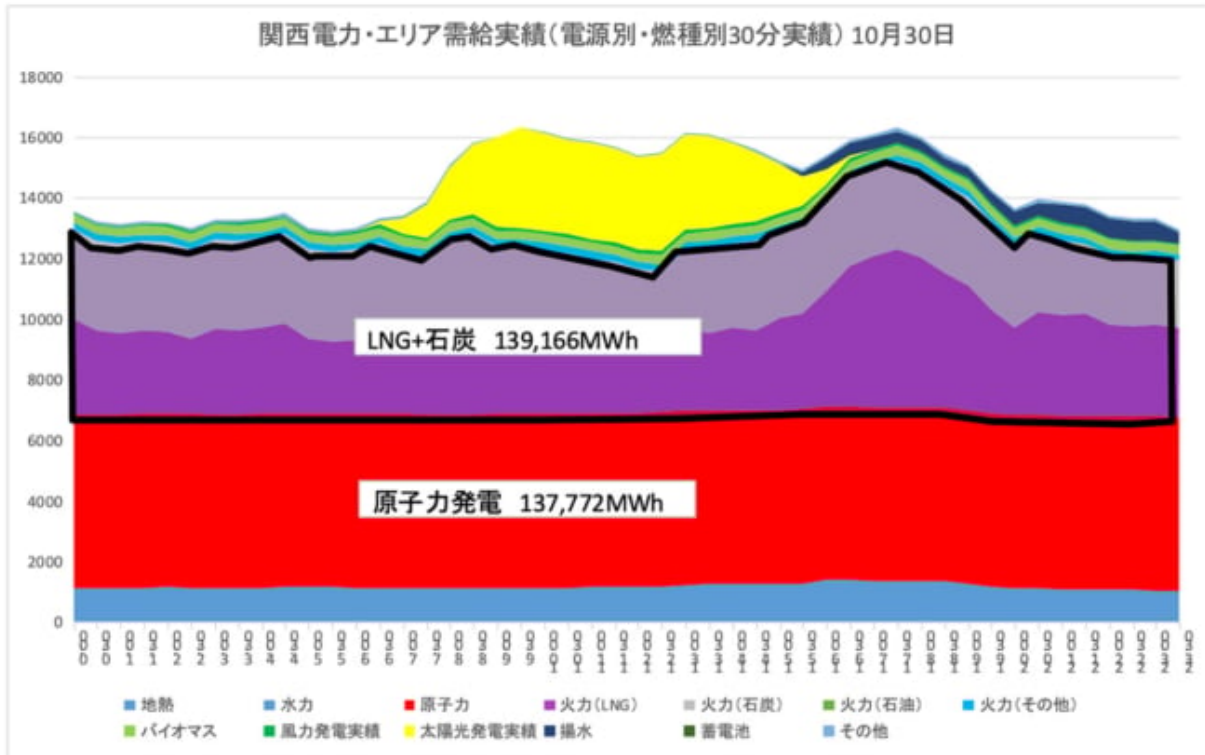
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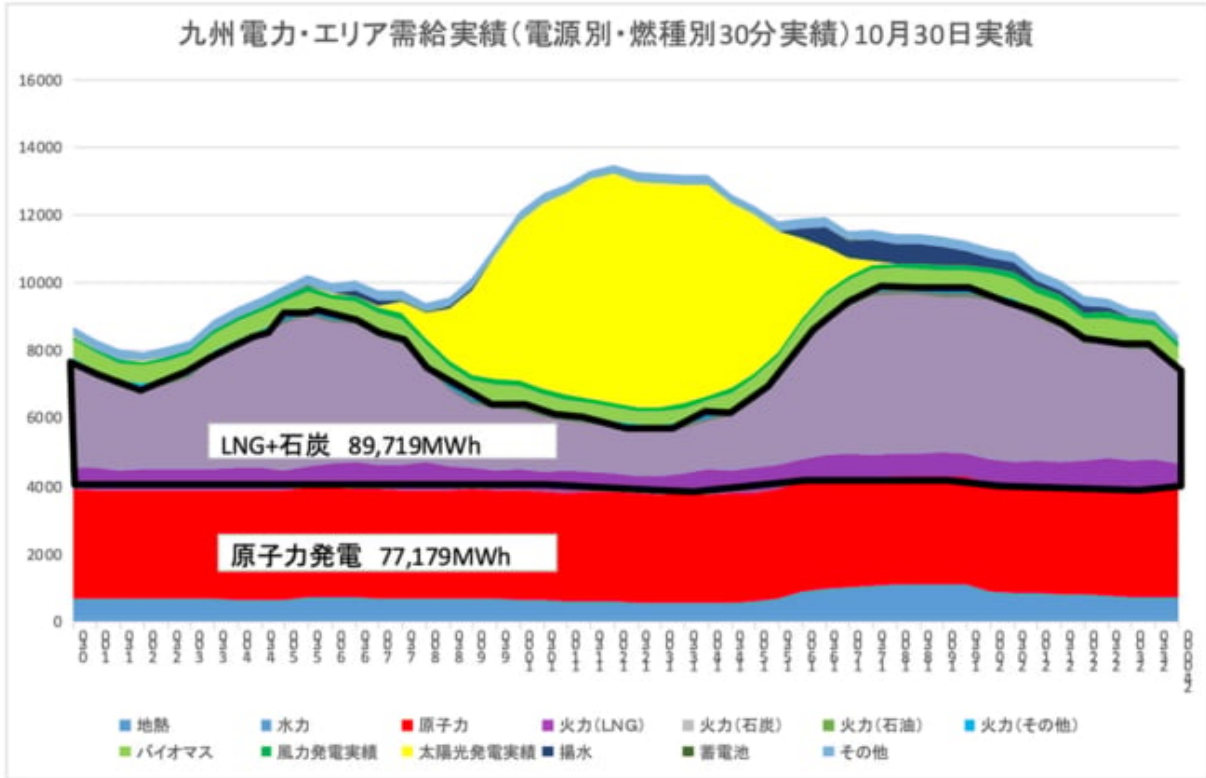
?1?2024?10?30??LNG??????????
 ???LNG????????????????????????????????

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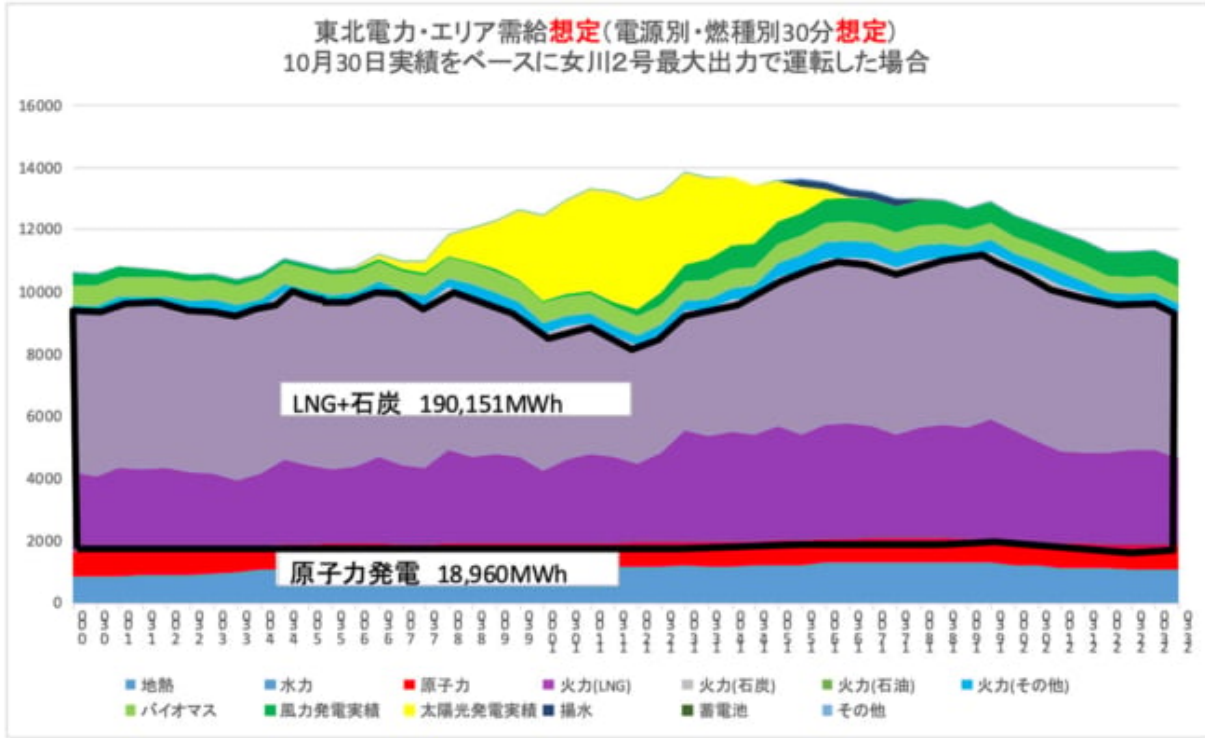
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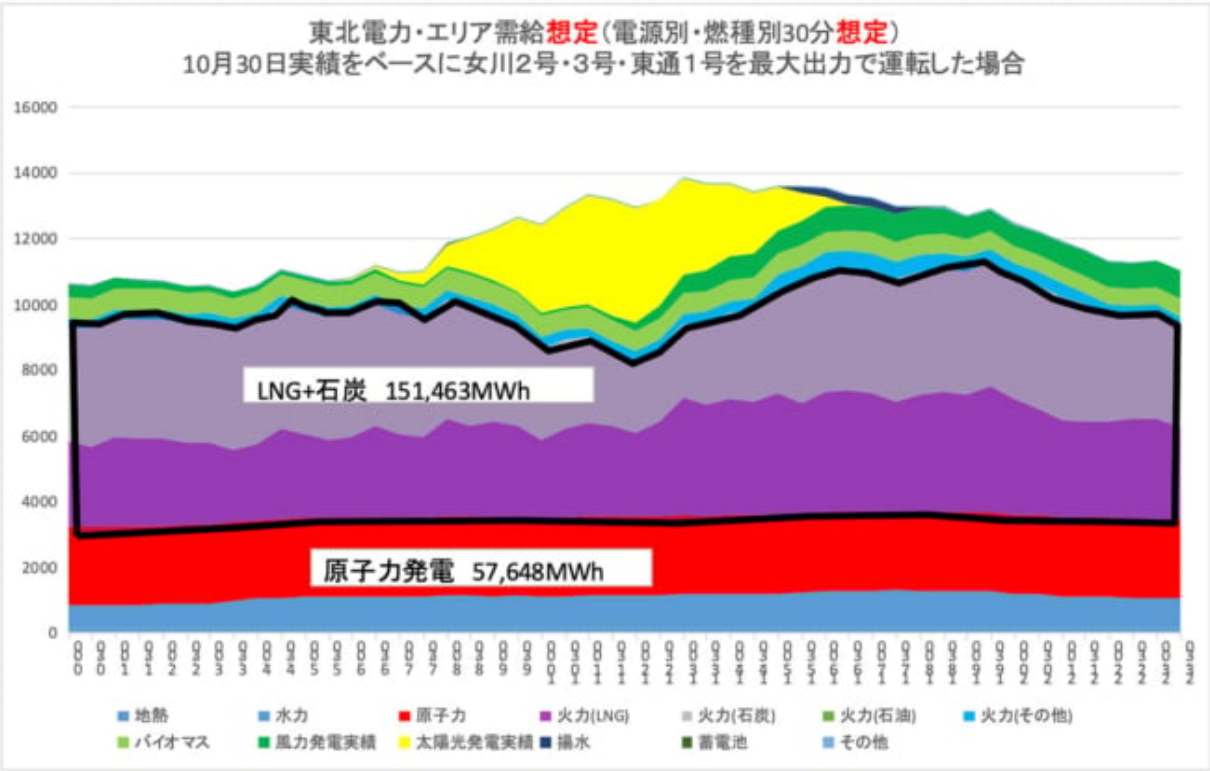
????????18,960MWh?LNG????????190,151MWh????????????9????????????????

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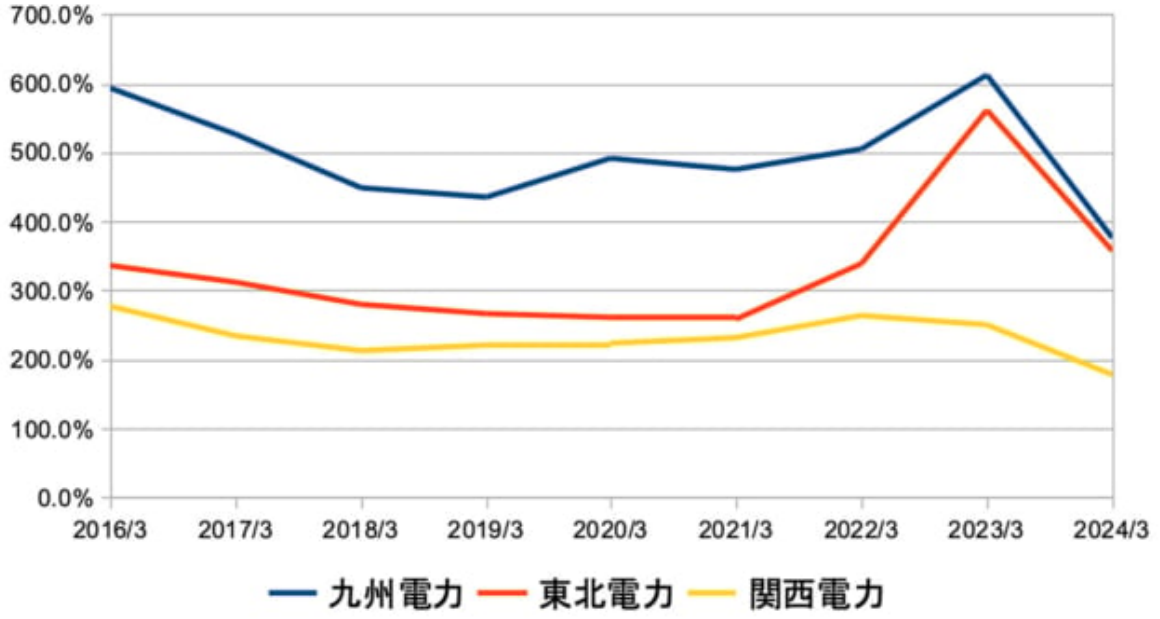
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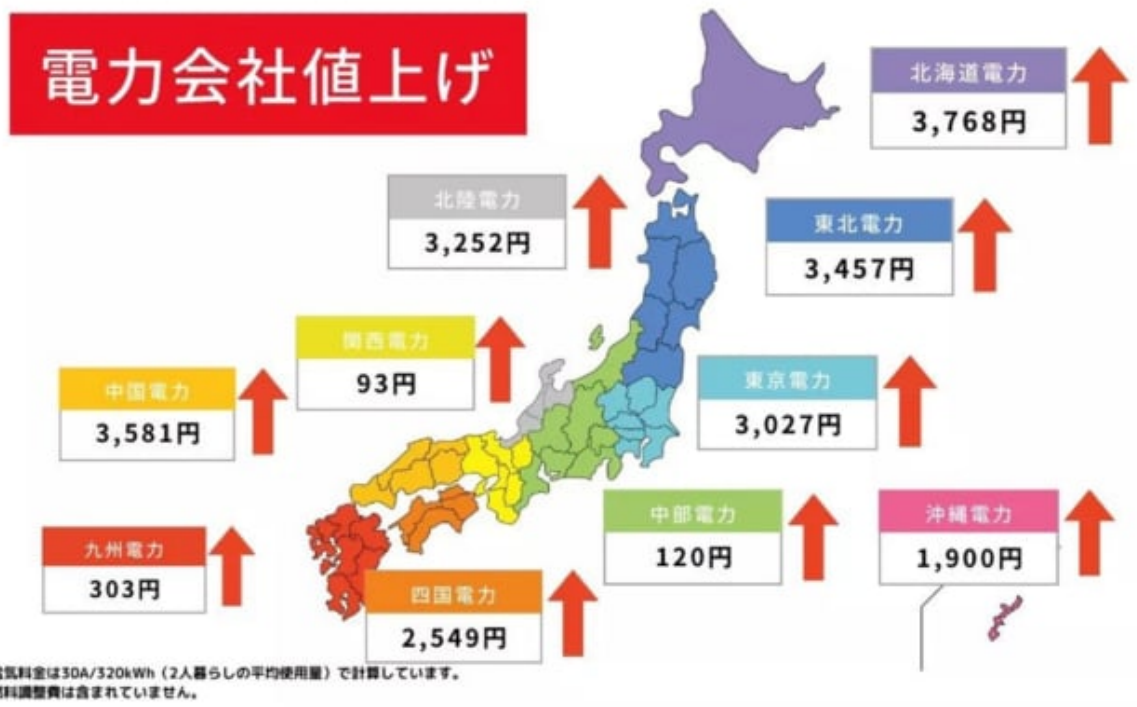
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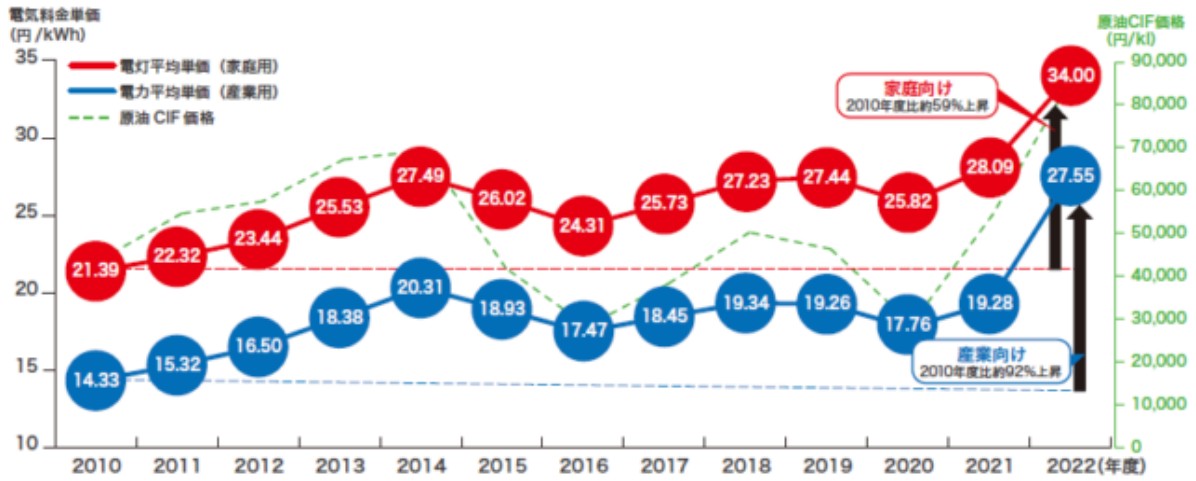
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 ?? ? · Thursday, November 7th, 2024



BRICS

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BRICS 2009 BRIC 2011 BRICS 2023 2024 UAE 2011

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BRICS

- GHGs
- UNFCCC COP27 2023 COP28 UAE COP29 2025 COP30 2028 COP33
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