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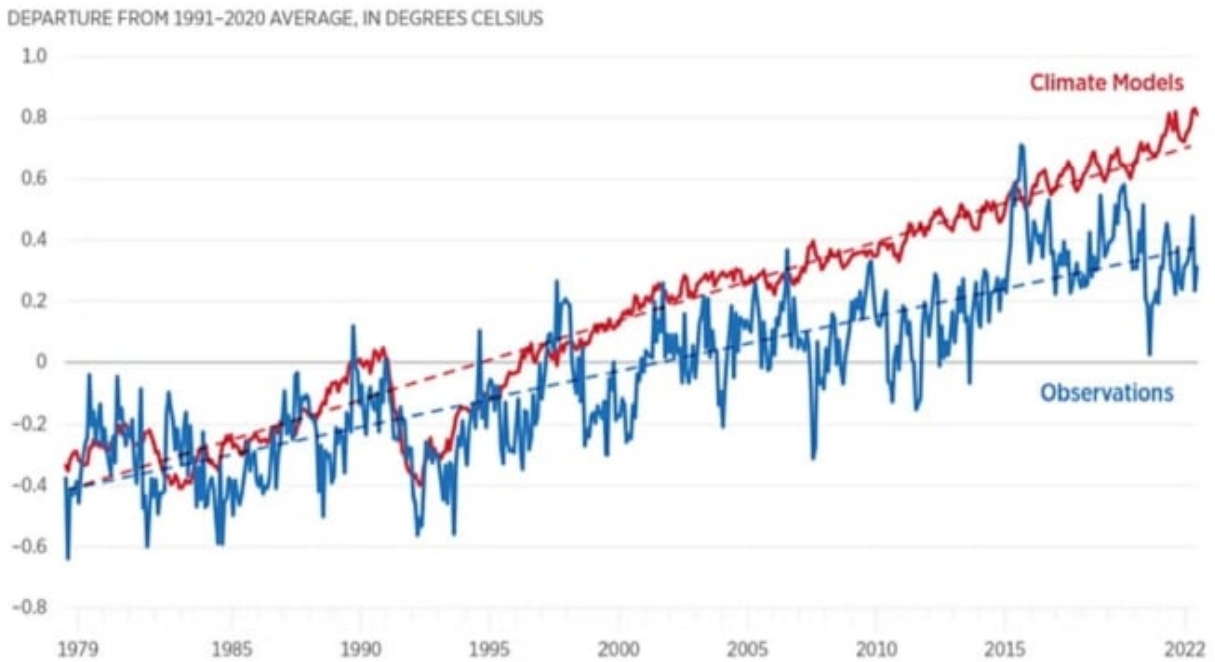
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Global Warming: Observations vs. Climate Models

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

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IPCC??
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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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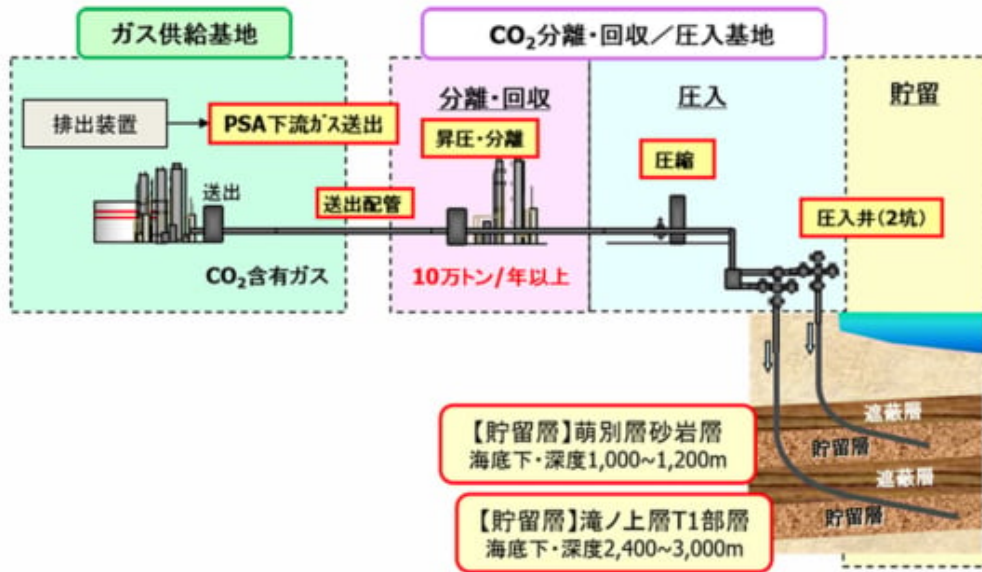


Posted in ???, ????? | No Comments »

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

?? ?? · Friday, December 13th, 2024

苫小牧CCS実証試験の全体像



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

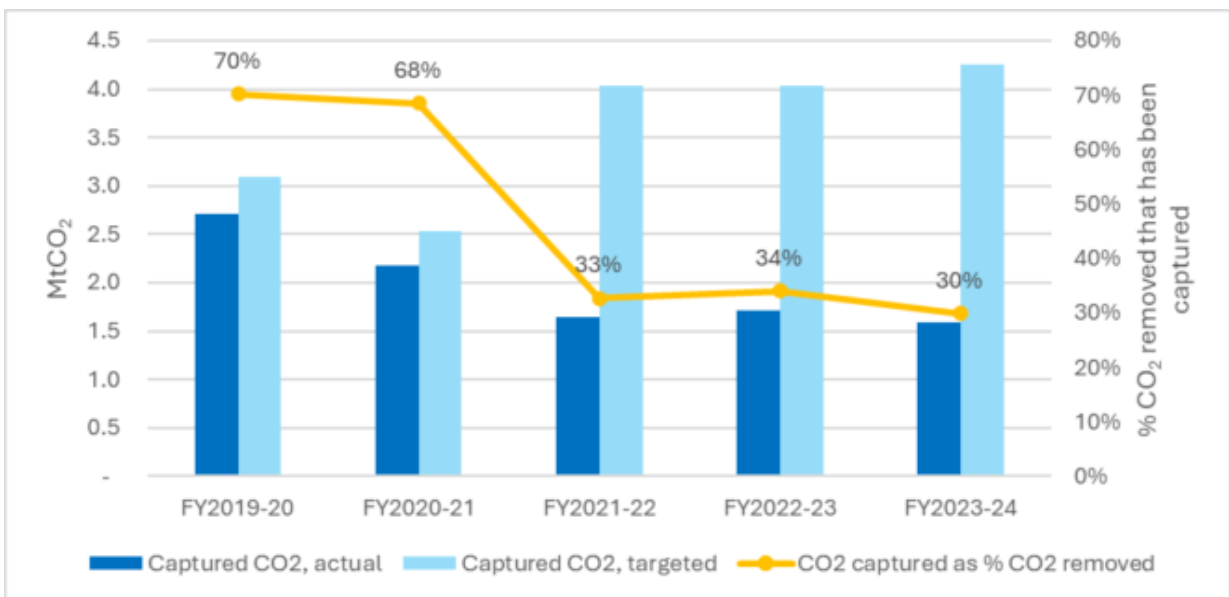
CCS??

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????????????????CCS??2019?8????????????????????CO₂????????????????????
 2000m??CCS????????????????CO₂?80??
 ?????400????????????????????????

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

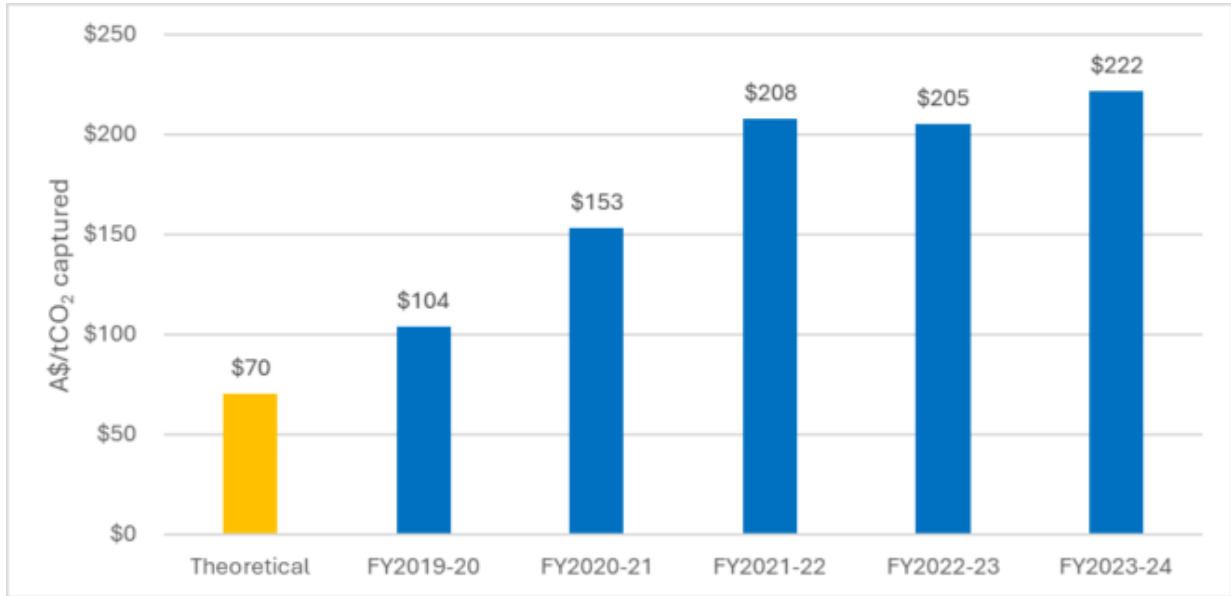
????????????2024????????????160????????????2019????????????????????????



reneweconomy

2023 2019 20 10
2024 9 144 CCS

CO2 2019 20 25 2023
32 CO2 70 200
1 40



reneweconomy

(i) (ii)
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540

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CO2 2021 23,000

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CO2 LNG

CCS

CCS



COP29??????????

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deal??????

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6?2????JCM??2????????????????????????????????????
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1.5????????????????????IPCC?6????????1.5????????????????CO2?2030????48?
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COP30????????????NDC????????????????????NDC????????

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

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

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?? ?? · Thursday, December 12th, 2024



privetik/iStock

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

COP29?????????

?? ? · Wednesday, December 11th, 2024



COP29??????????

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

COP29??COP

2023??COP28????????????COP????????COP29????COP????

COP28????????????1.5????????????2030????????????
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NCQG???????

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P21????????COP????????

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

NCQG

NCQG

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

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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

22 7

11 12 6 15 64

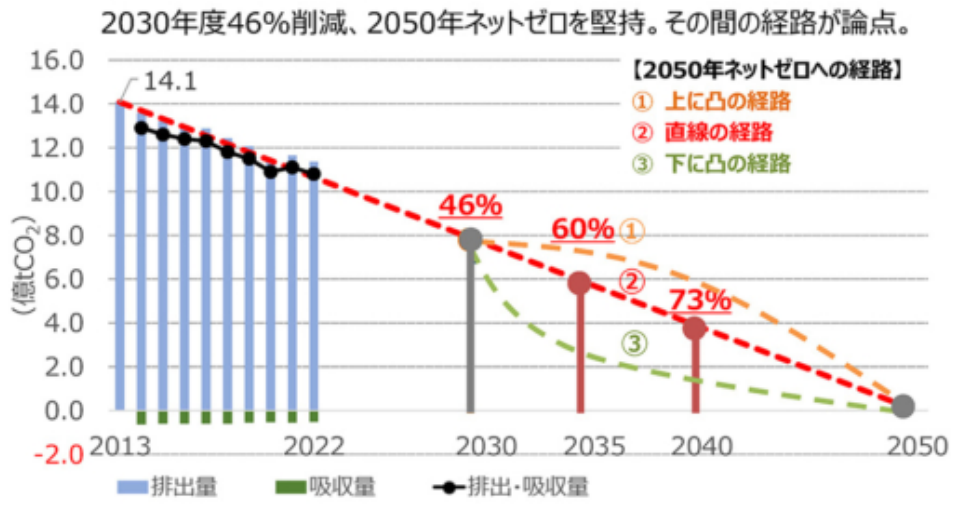
????????10?31????????2035??CO2?60????????????????????????????????????

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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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- **2050?CO2????????????????????????????????**
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- **????????CO2????????????????????0.006????????????**

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

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?? ?? · Wednesday, December 4th, 2024



Lari Bat/iStock

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

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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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??48??1??5??

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

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?? ?? · Sunday, December 1st, 2024

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GX AI

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<https://agora-web.jp/archives/240629162834.html>

BAR[]

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

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

?? ?? · Saturday, November 30th, 2024



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

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COP29??????
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??2026?1?20????

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

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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

??CO2??

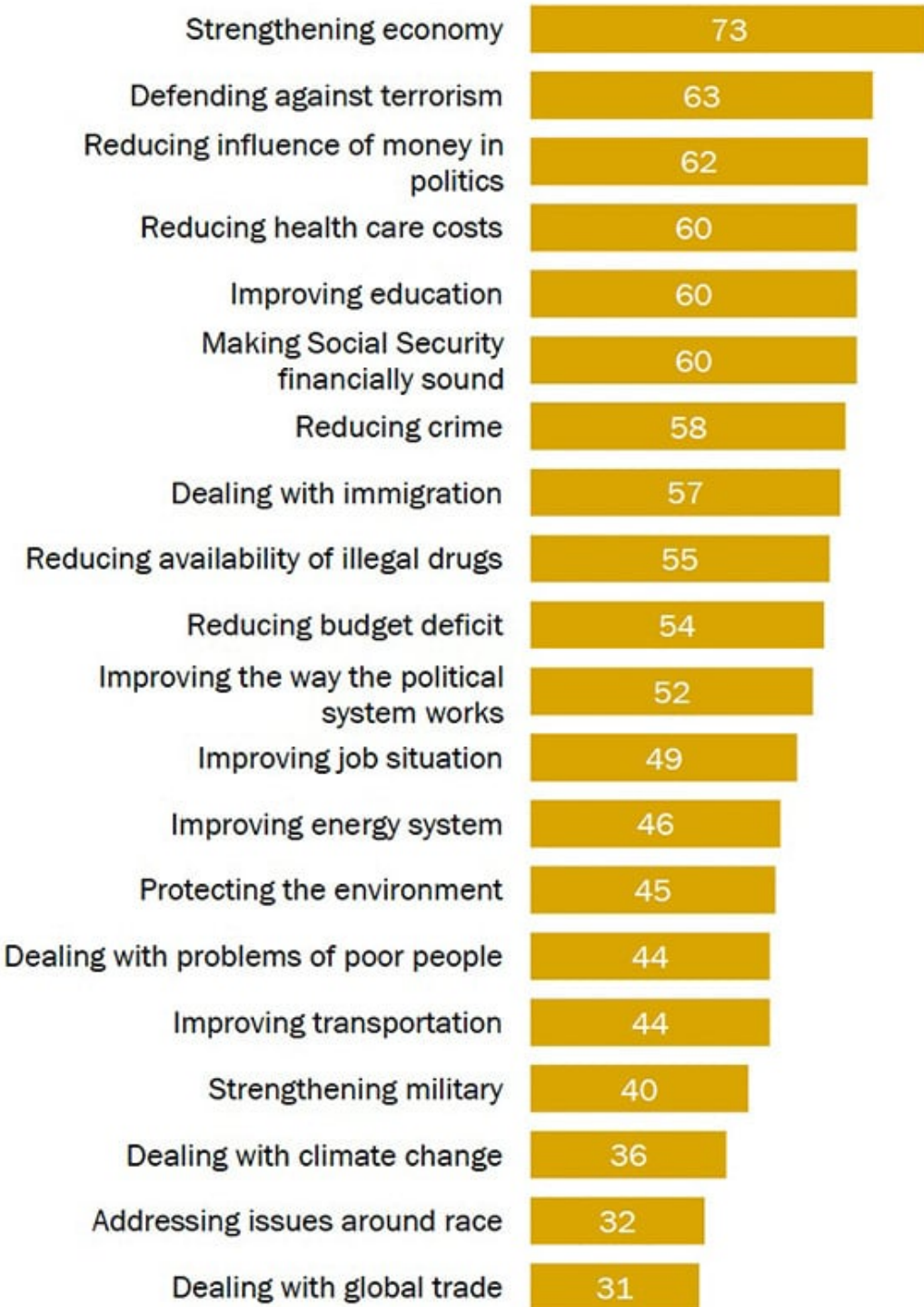
??CLINTEL??World Climate Declaration????????????????????1961??

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- 1. ???
- 2. ???
- 3. ???
- 4. ???

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



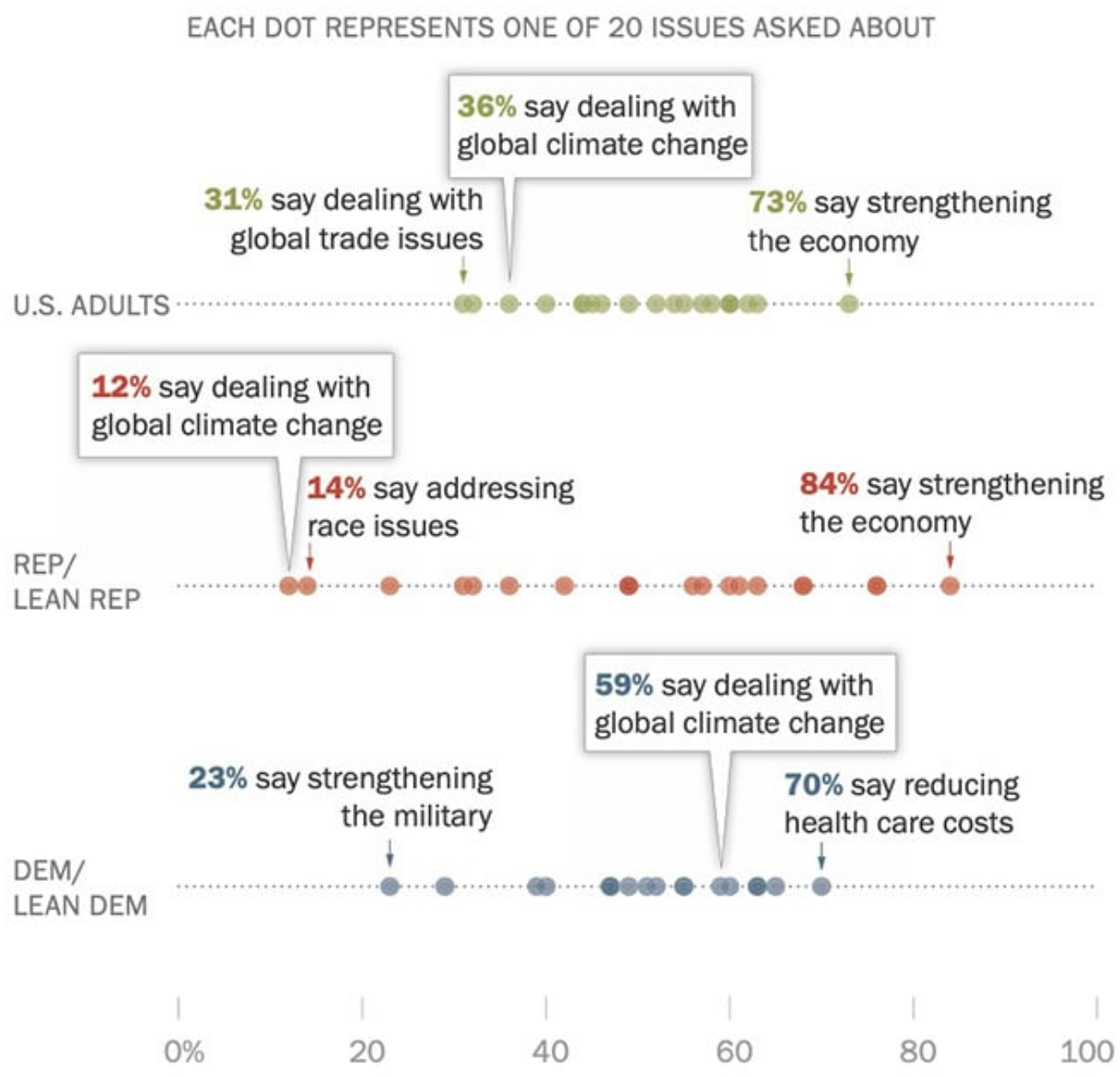
Source: Survey of U.S. adults conducted Jan. 16-21, 2024.

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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2J-????????

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2023?5????????????????????????????????Verra?CEO?15?????David
Antonioli????????????????Verra????????????????CO2????????????????????????????

CEO????????????????????????Verra????????????????????????????????????Verra????
????????????5????????????

??????2024?10????????????FBI??Ken Newcombe????????????????????????????

??????1996????????????????2005????????????????CDM????????????????????30?
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Posted in ??????????, ??? | No Comments »

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

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

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

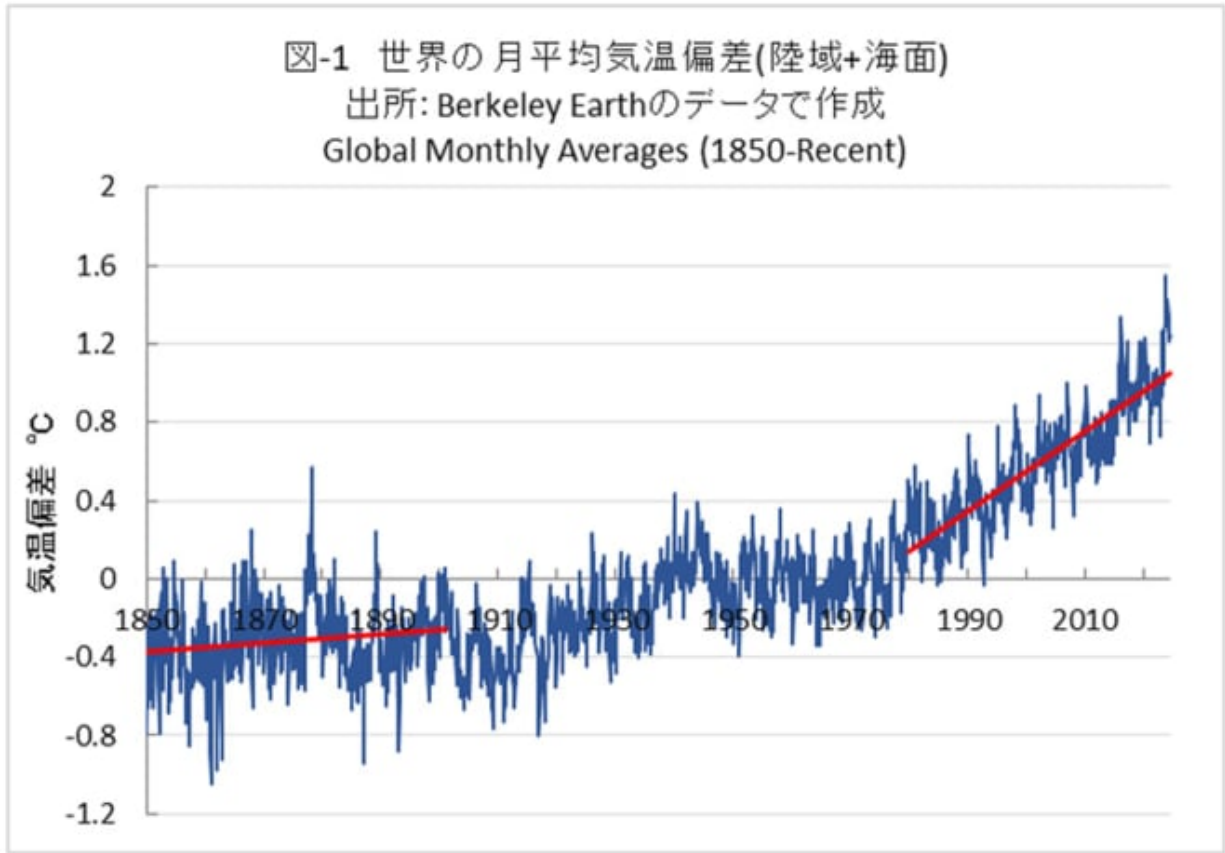


ImagineGolf/iStock

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Earth????????????????????????????????2??????1.5????????????2030????1.5????????????

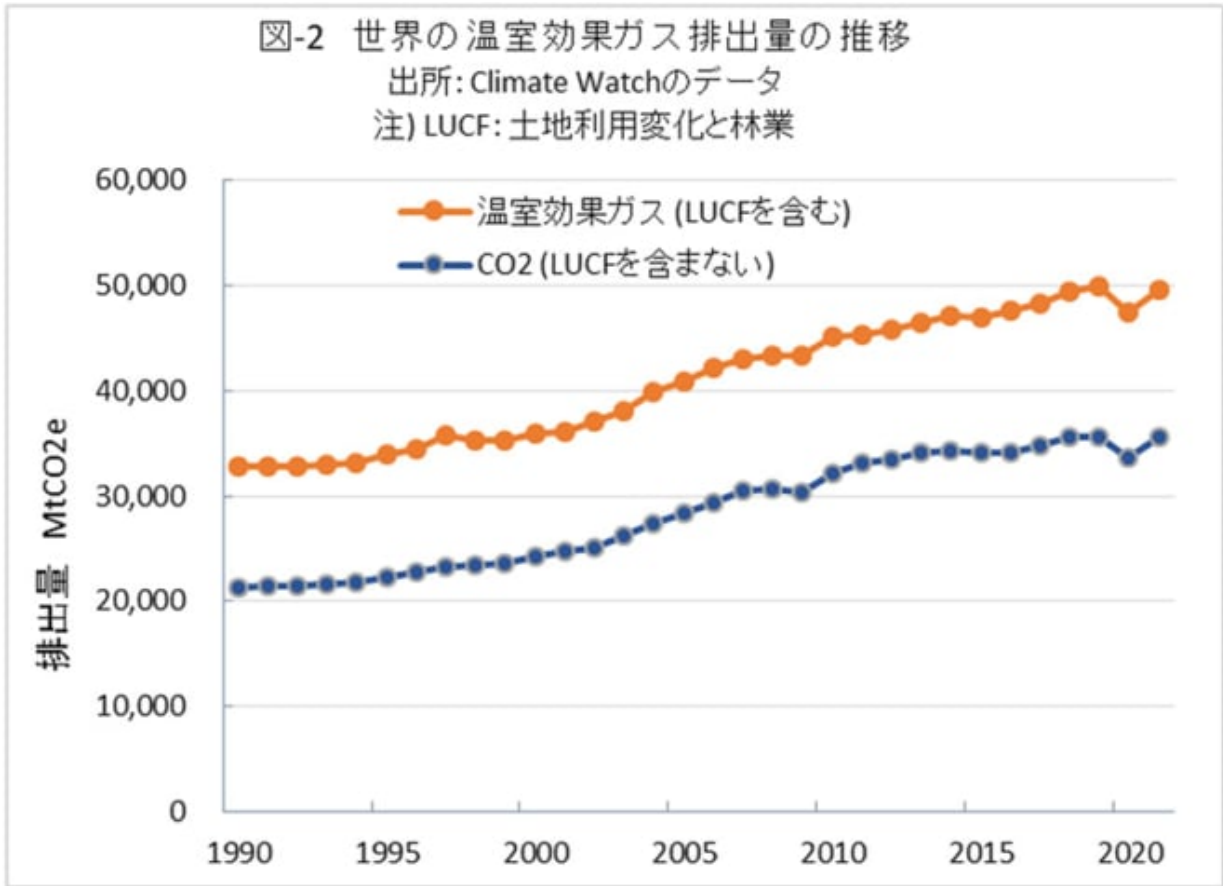


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?2?Climate

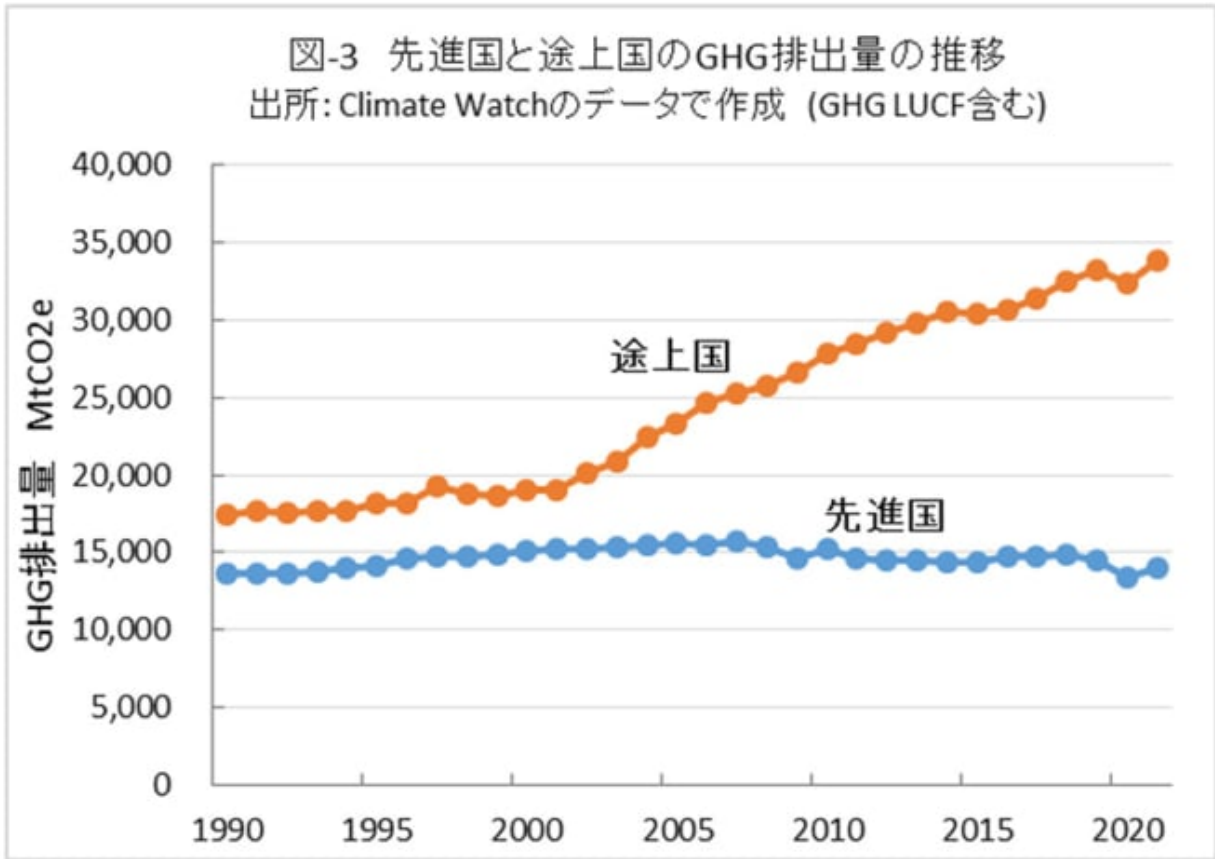
Watch?Data

Explorer????????????????????????????????9????????????????????GHG????????????



?2

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

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

?1??1????GNI????4?????????World Bank country classifications by income level??FY22??????2021-2022??????????????

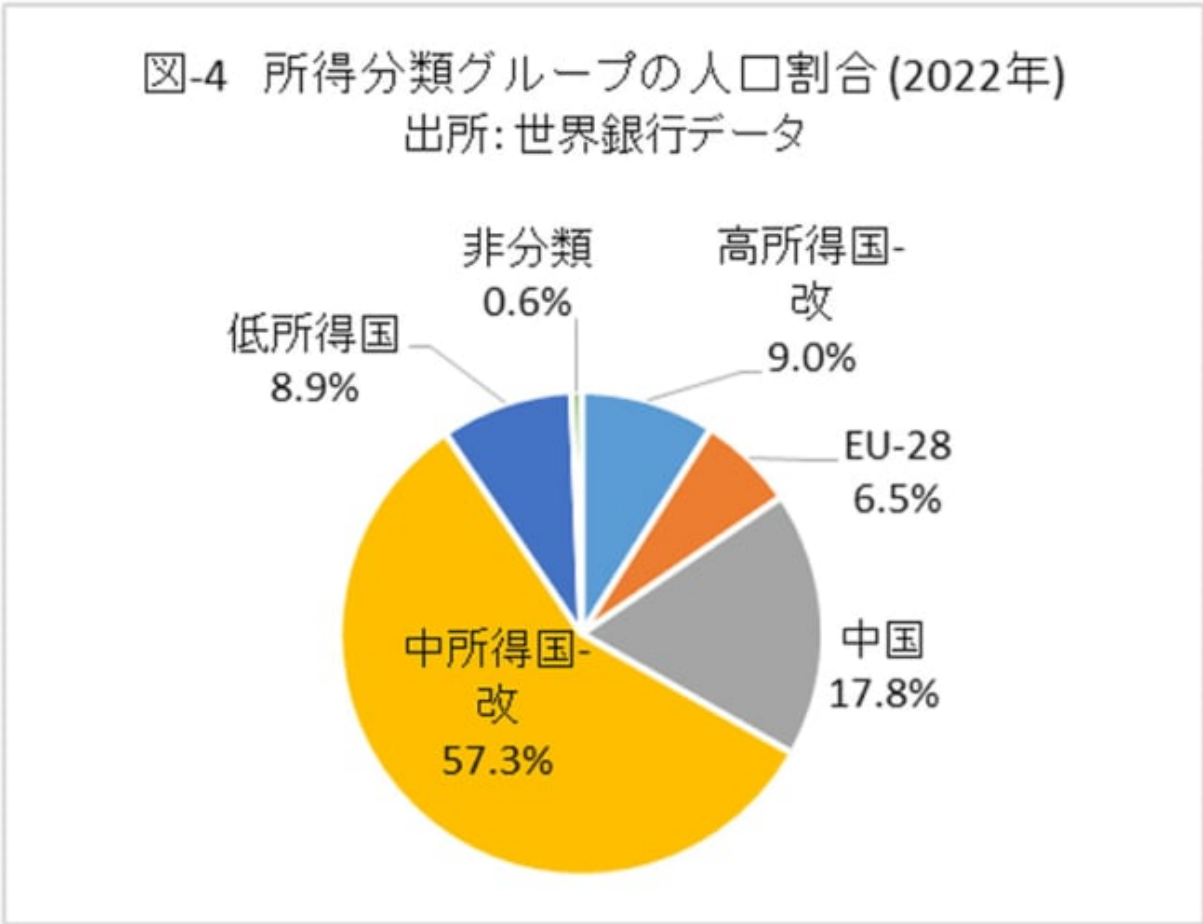
表-1 世界銀行の所得水準による国分類と本報告の国分類

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	
			中所得国-改	中国、ブルガリア除く
	Lower-middle income countries	1,046 - 4,095	低所得国	
	Low income countries	< 1,045		

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GHG??EU-28??EU-28????????????????
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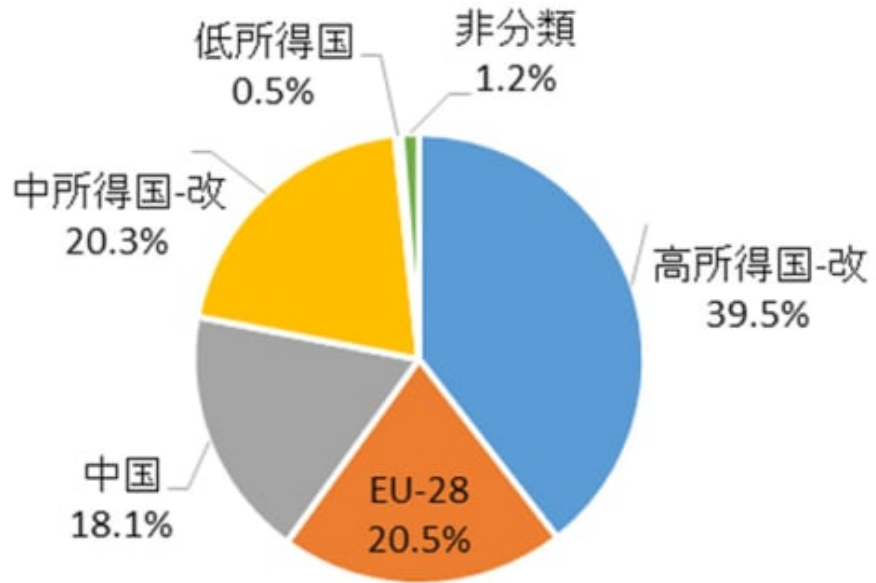
2007年GHG/GDPが5%であった



74

GHG/GDPが2022年3/4に40%に

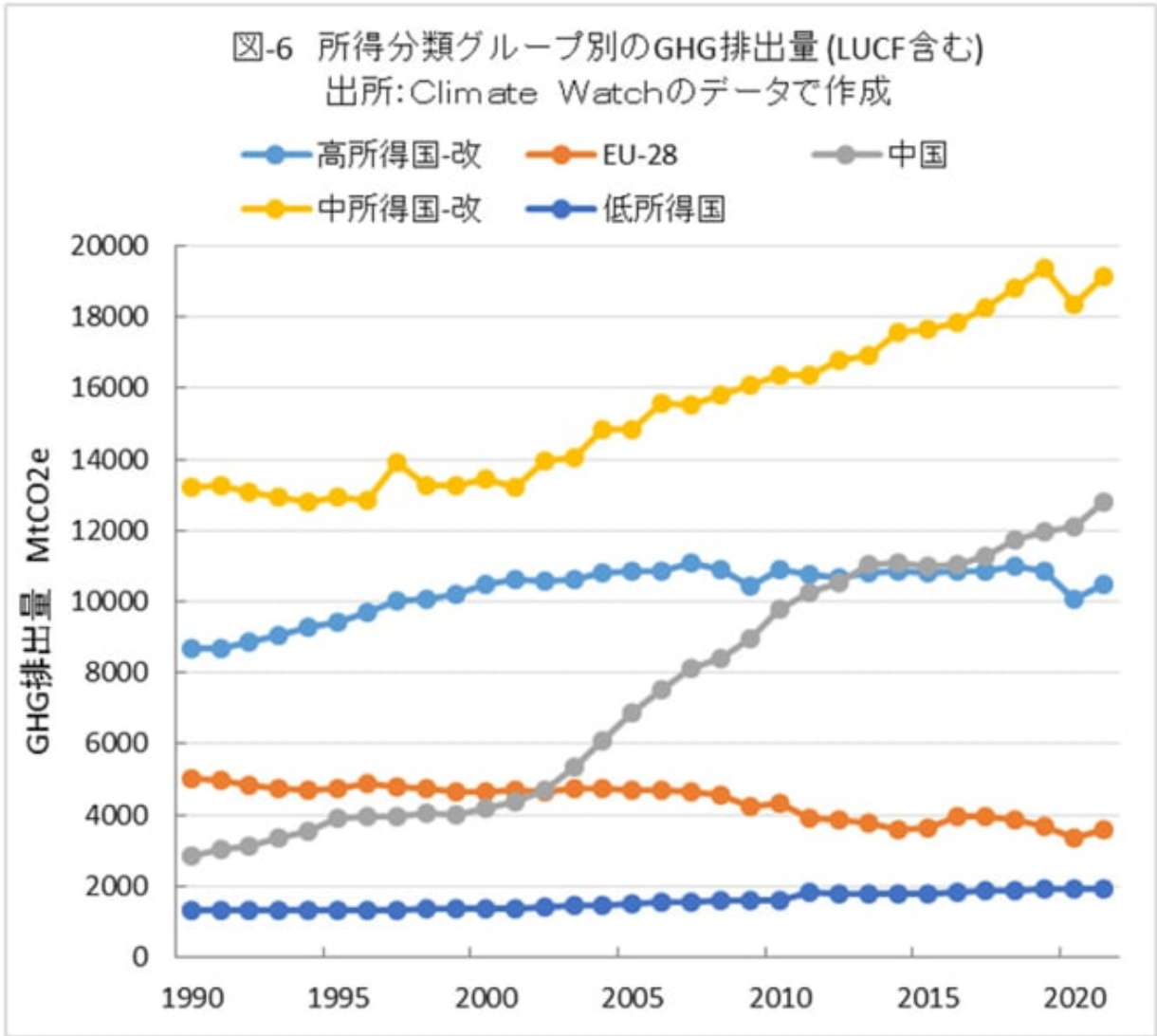
図-5 所得分類グループの実質GDP割合 (2022年)
出所: 世界銀行データ (constant 2015 USD)



25

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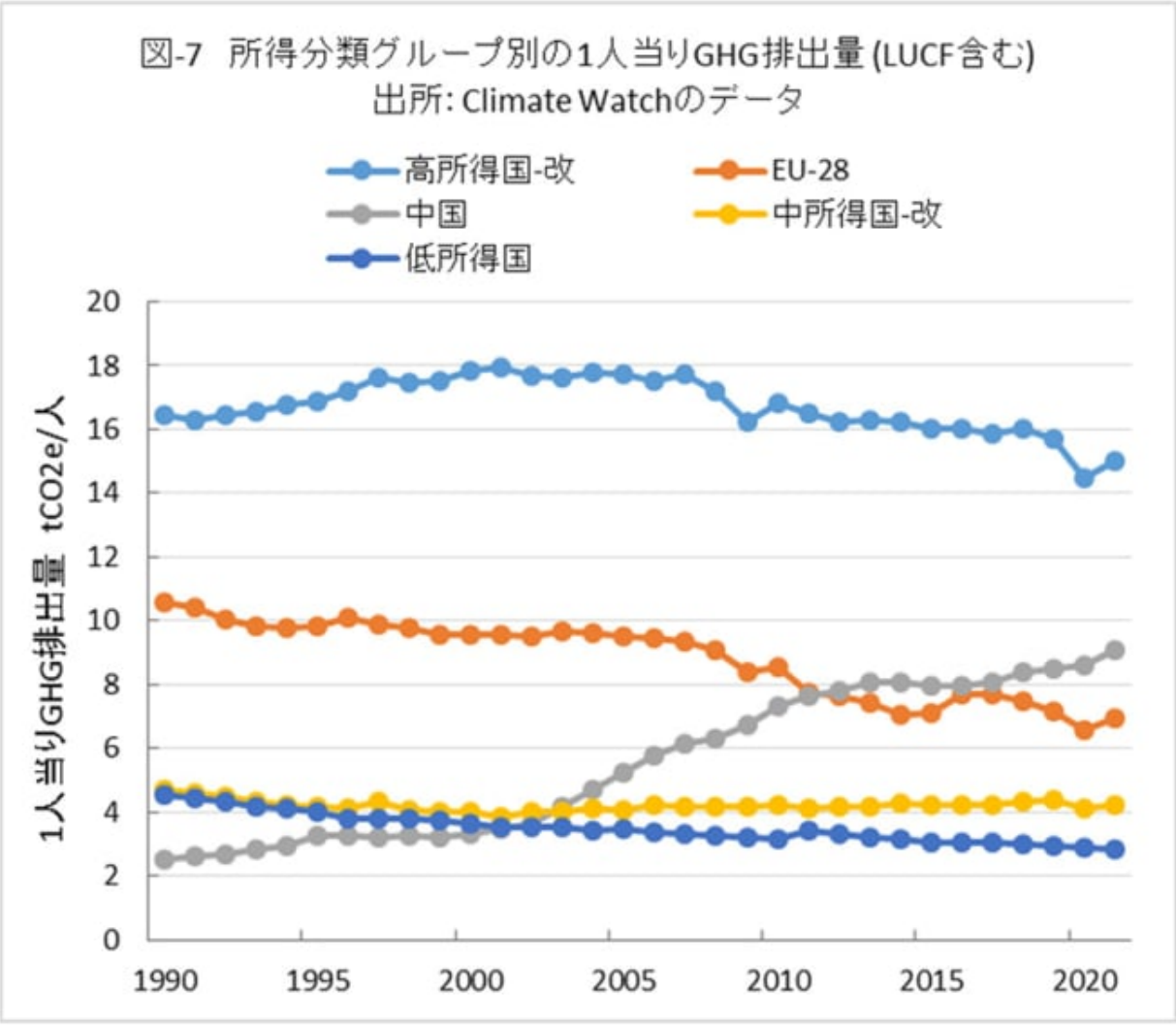
EU-28?GHG????????????????????-????????????????????-
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26

??????GHG????????????????GHG??GHG????????????????
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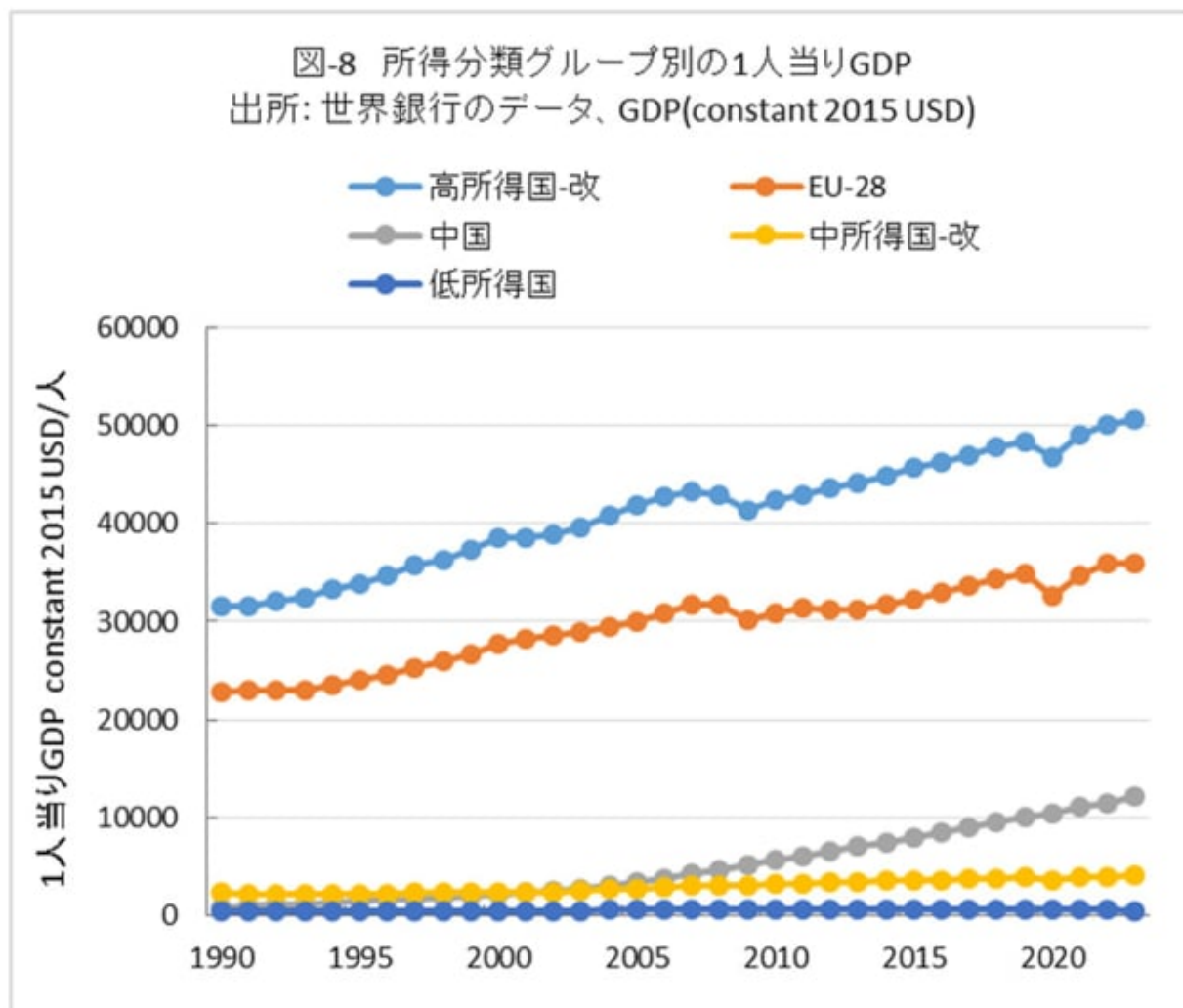
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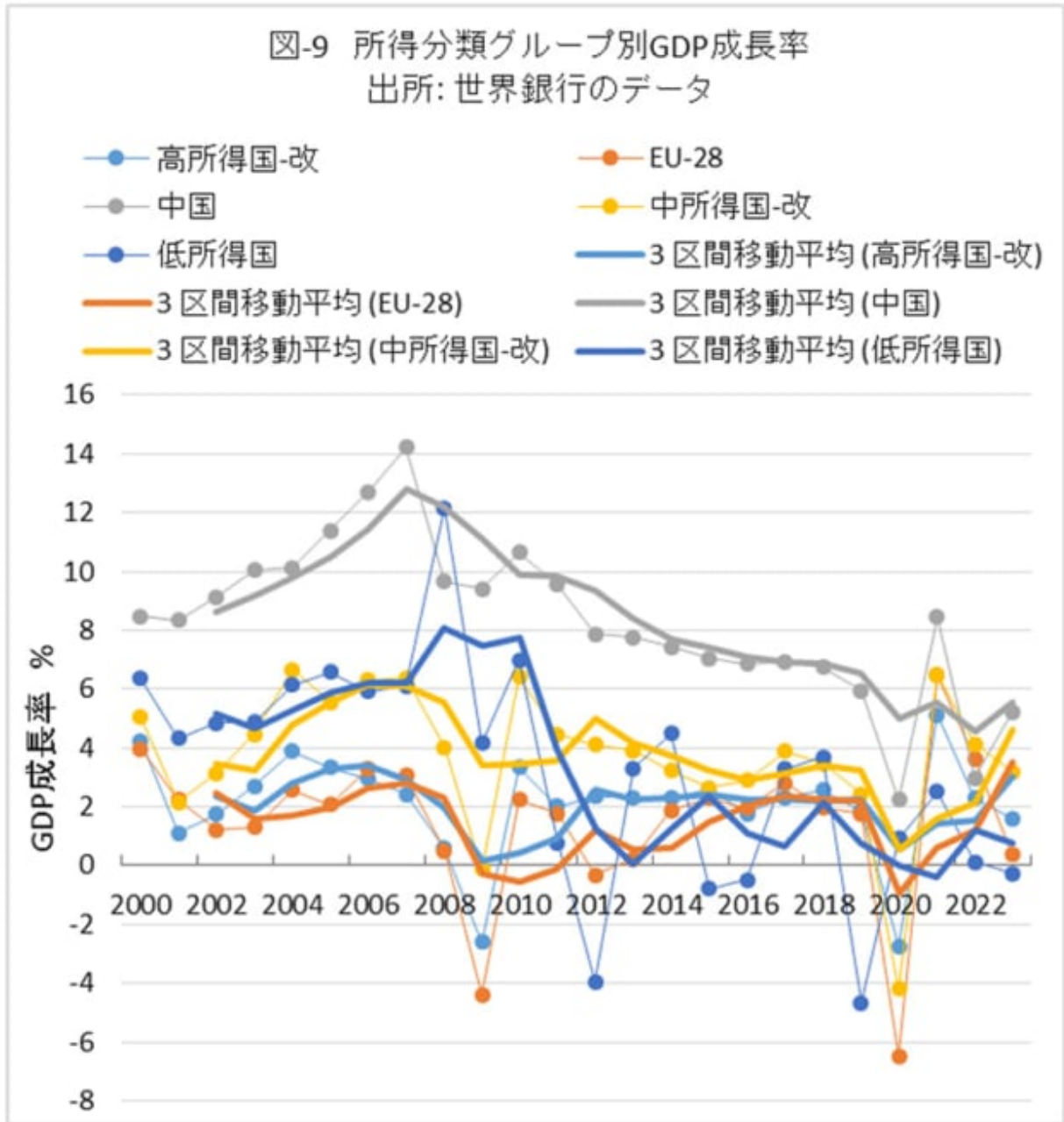
??????-??1???GHG?????????-??3??1?????GHG??????????EU-28????????60% ??????????-
 ??????????GHG????????????????????????????

?8?????1??????GDP????????????????????-??????????-
 ??10??1???EU-28?12% ???GHG??????
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?9???????GDP?????????????GDP?????????????????????????????????????3???????????????????



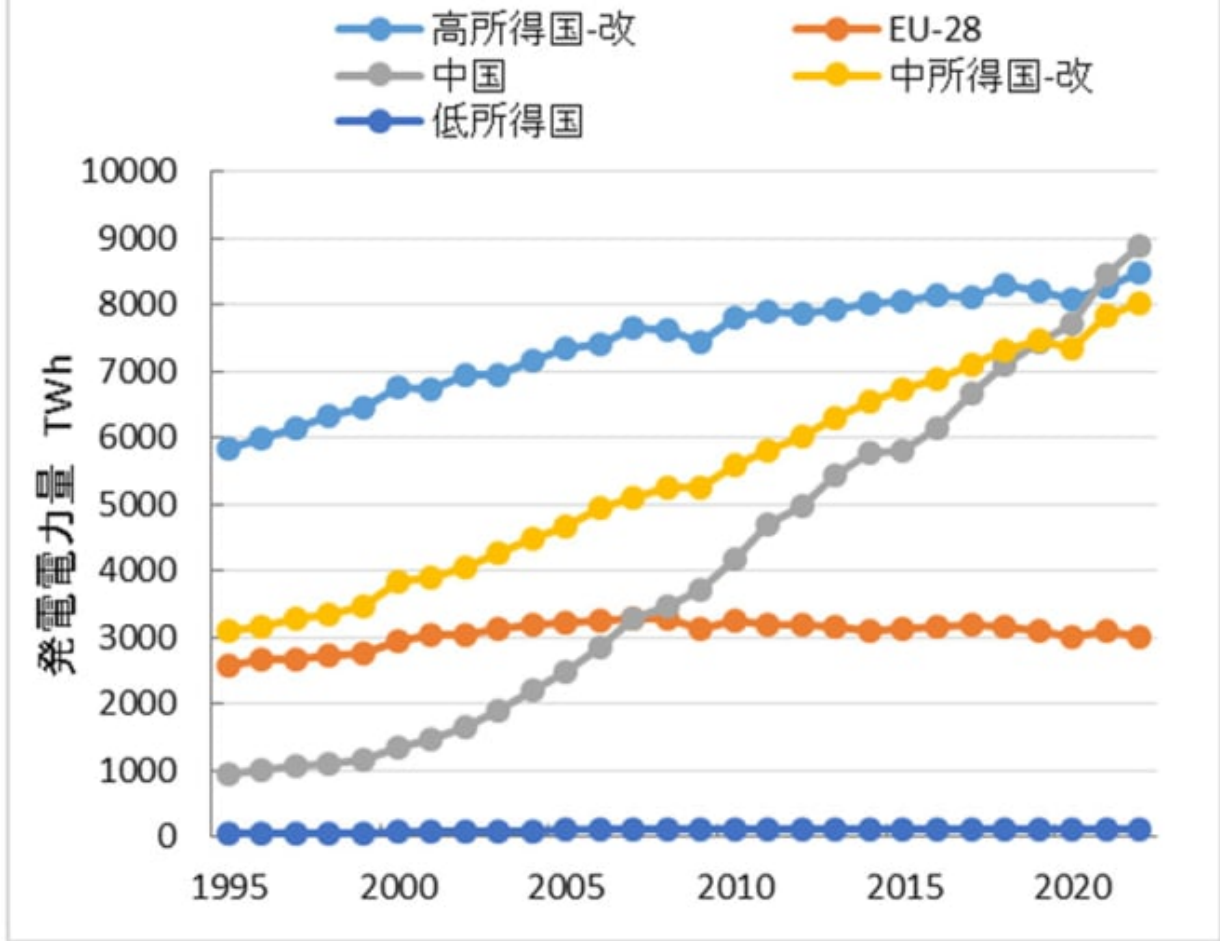
9

??-??EU-28?2% ?????????????????-??3% ??????????????????

2010??GHG??

?10????????????????U.S. Energy Information Administration??International??

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



?11

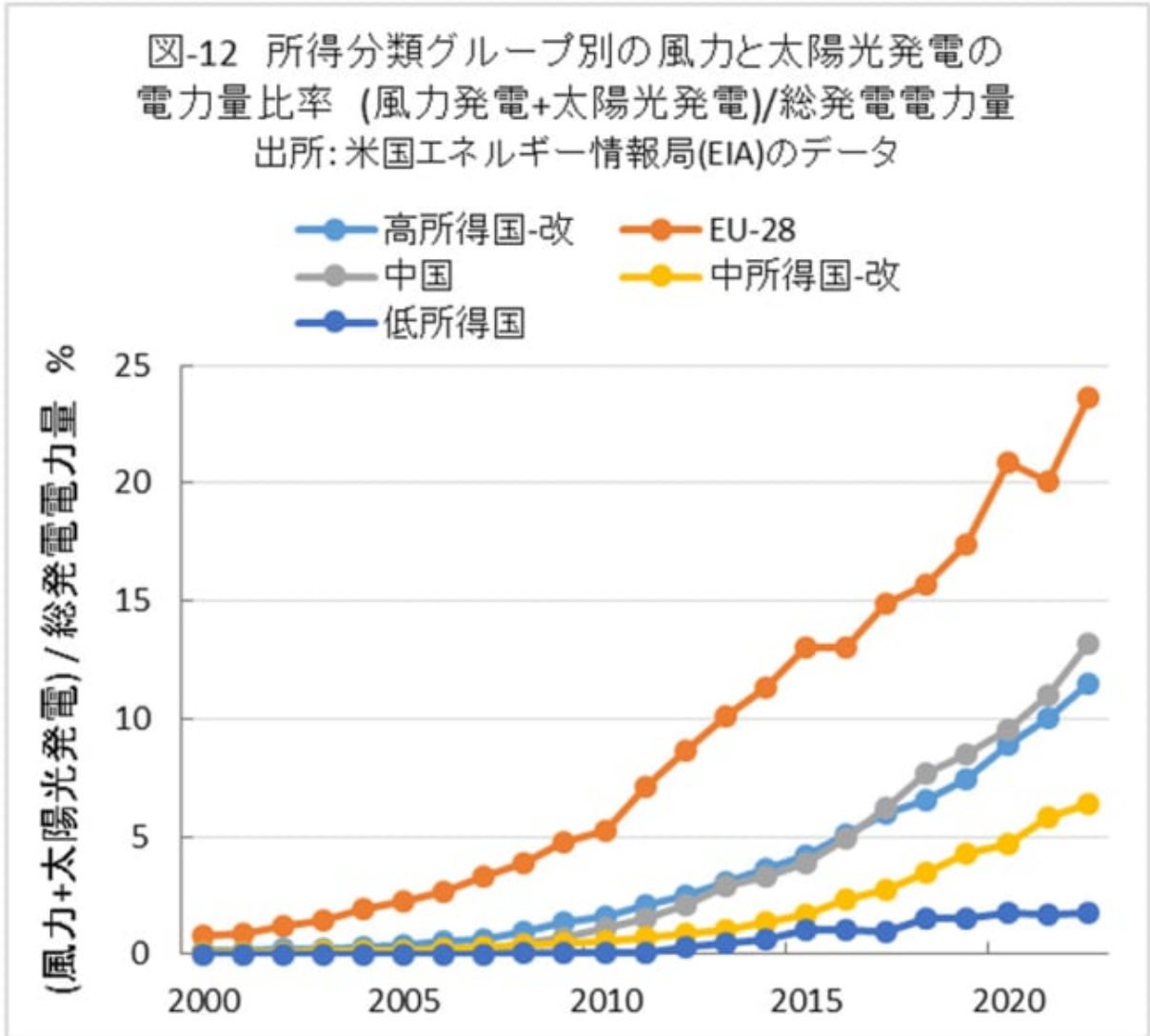
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?12??EU-28????????????????-????????-
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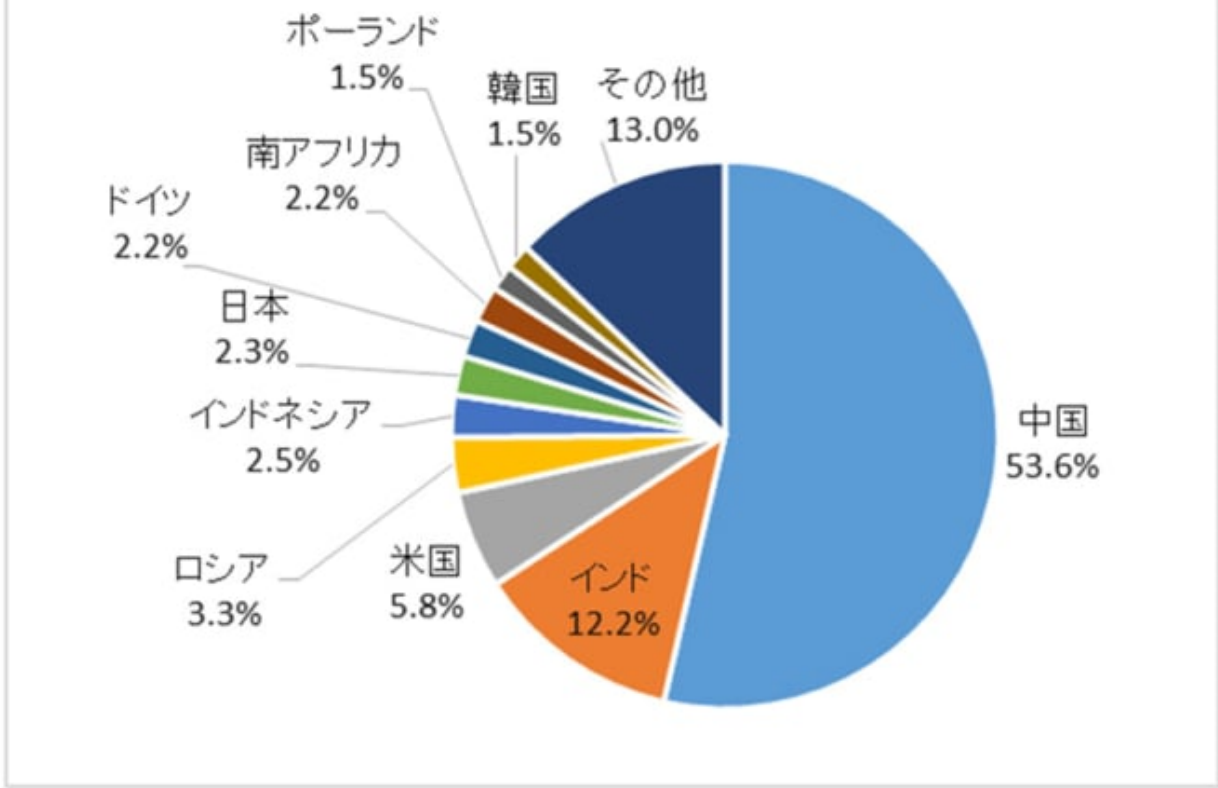


?12

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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



?13

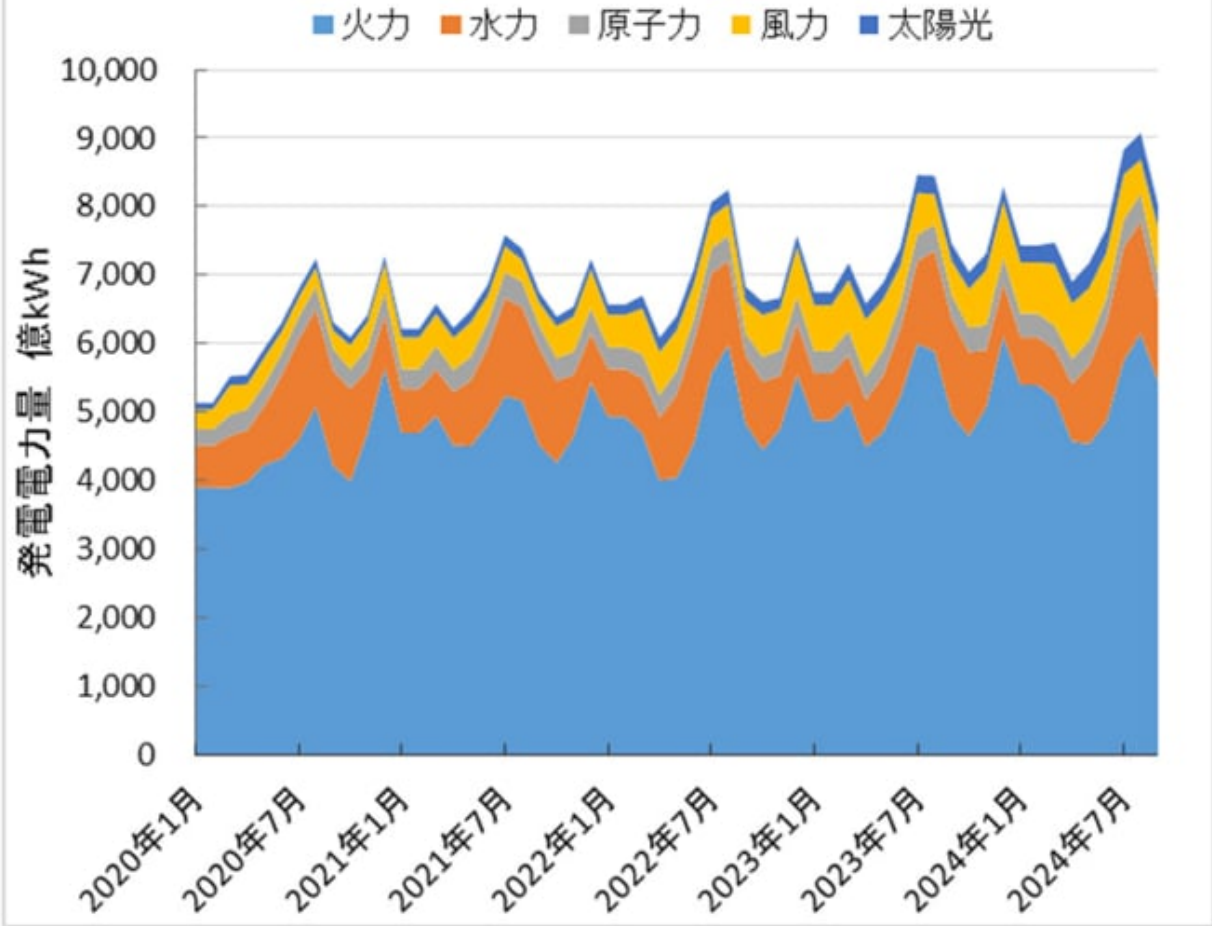
GHG????????2030????CO2????????2060????????????????????????????????2030????????
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China????????????????????????????????90%????????????????

2030????????????????????????????????????

図-14 近年の中国の月間発電電力量の推移
出所: 中国国家情報局、月次報告データ

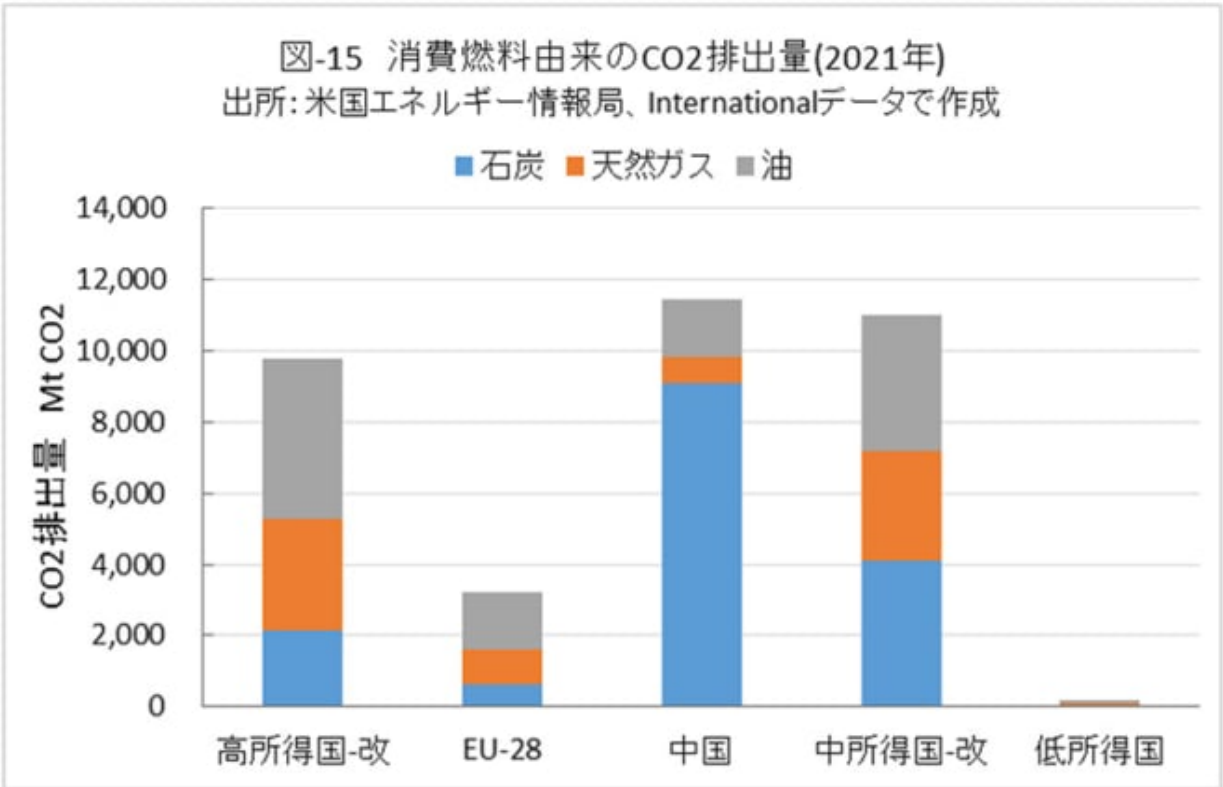


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215

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Posted in ???, ????? | No Comments »

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?? ?? · Wednesday, November 13th, 2024



Just_Super/iStock

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- [https://www.reuters.com/technology/amazon-forest-protection-2024-12-15/](#)
- [https://www.bbc.com/news/technology-67800067](#)
- [https://www.fox.com/news/technology/amazon-forest-protection-2024-12-15/](#)
- [https://www.fox.com/news/technology/amazon-forest-protection-2024-12-15/](#)
- [https://www.fox.com/news/technology/amazon-forest-protection-2024-12-15/](#)

[https://www.reuters.com/technology/amazon-forest-protection-2024-12-15/](#)...
[https://www.bbc.com/news/technology-67800067](#)

[https://www.fox.com/news/technology/amazon-forest-protection-2024-12-15/](#)
[https://www.fox.com/news/technology/amazon-forest-protection-2024-12-15/](#)
[https://www.fox.com/news/technology/amazon-forest-protection-2024-12-15/](#)

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

[https://www.reuters.com/technology/amazon-forest-protection-2024-12-15/](#)
[https://www.bbc.com/news/technology-67800067](#)
[https://www.fox.com/news/technology/amazon-forest-protection-2024-12-15/](#)
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[https://www.reuters.com/technology/amazon-forest-protection-2024-12-15/](#)
[https://www.bbc.com/news/technology-67800067](#)

[https://www.reuters.com/technology/amazon-forest-protection-2024-12-15/](#)

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[https://www.reuters.com/technology/amazon-forest-protection-2024-12-15/](#)
[https://www.bbc.com/news/technology-67800067](#)

[https://www.reuters.com/technology/amazon-forest-protection-2024-12-15/](#) REDD+ [https://www.bbc.com/news/technology-67800067](#)

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

[https://www.reuters.com/technology/amazon-forest-protection-2024-12-15/](#)
[https://www.bbc.com/news/technology-67800067](#)

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

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?SDGs?????????

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

SNS????????200????????IP??
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Flaggers????????????????????

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Posted in ???, ?? | No Comments »

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GEPR?? · Tuesday, November 12th, 2024



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1. ??????BWR???????

2024?10?29????????????2????????????????????????????13????????????????????????BWR????????????
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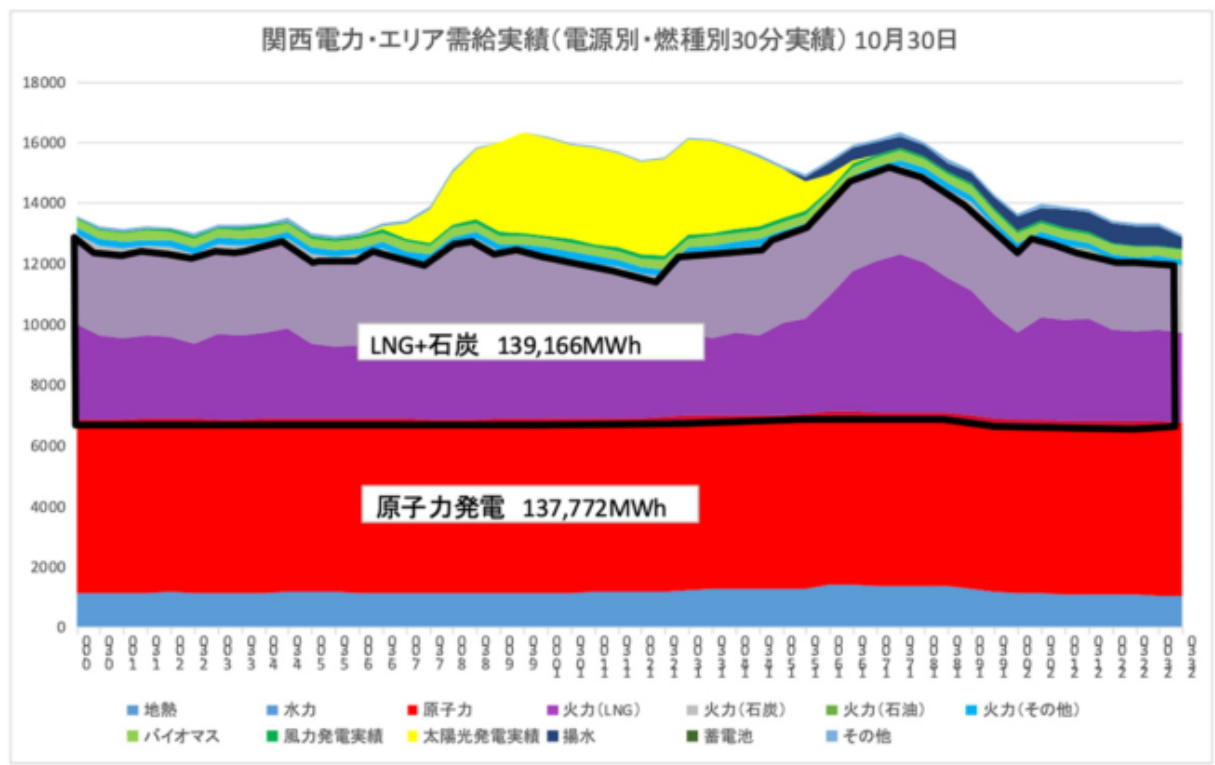
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<https://agora-web.jp/archives/240815045338.html>

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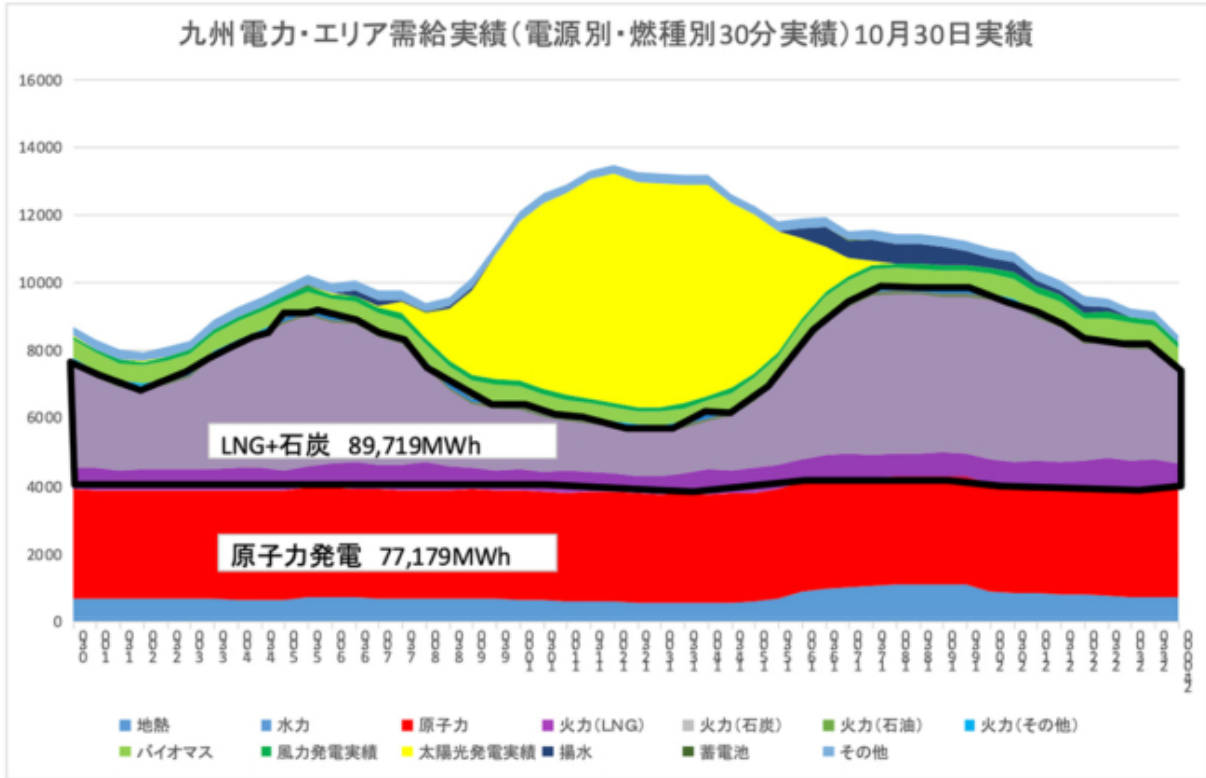
?1?2024?10?30??LNG????????
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????????137,772MWh??LNG????????139,166MWh????????????????????

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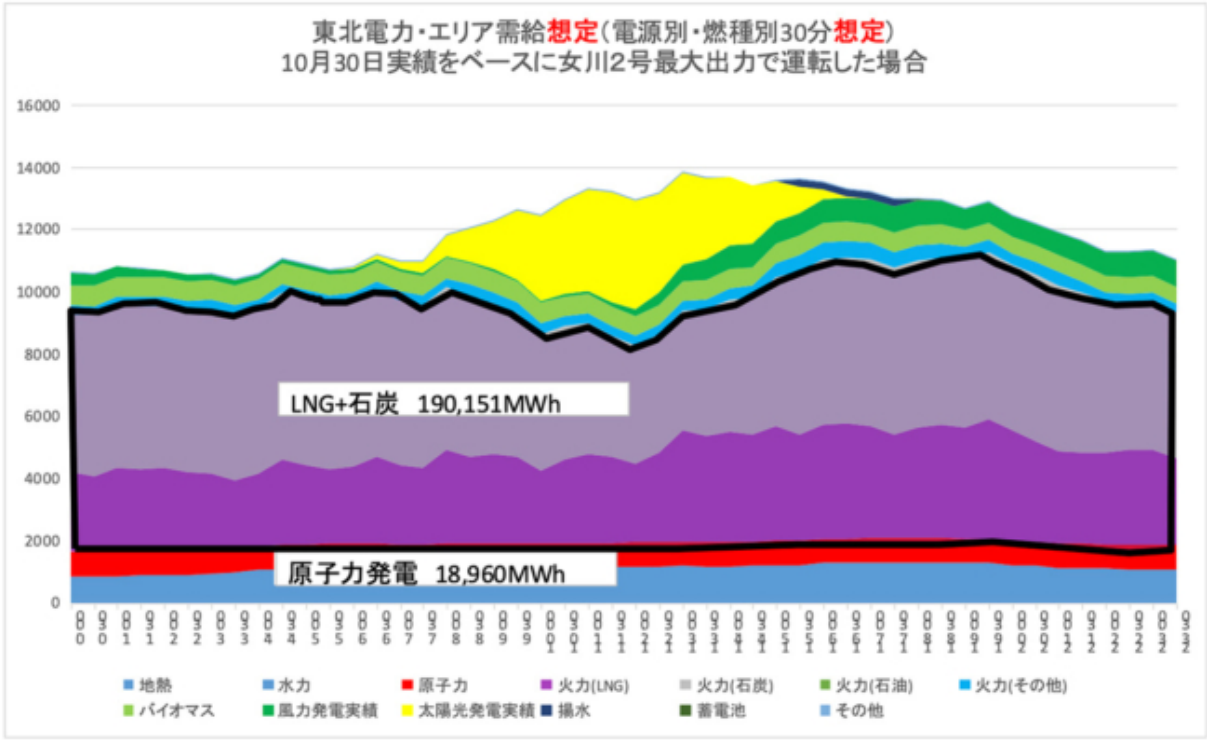
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????????77,179MWh?LNG????????89,719MWh????????????46????????????????????????????????
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?3???2024?10?30??2?????????????
82?KW??



?3??????????

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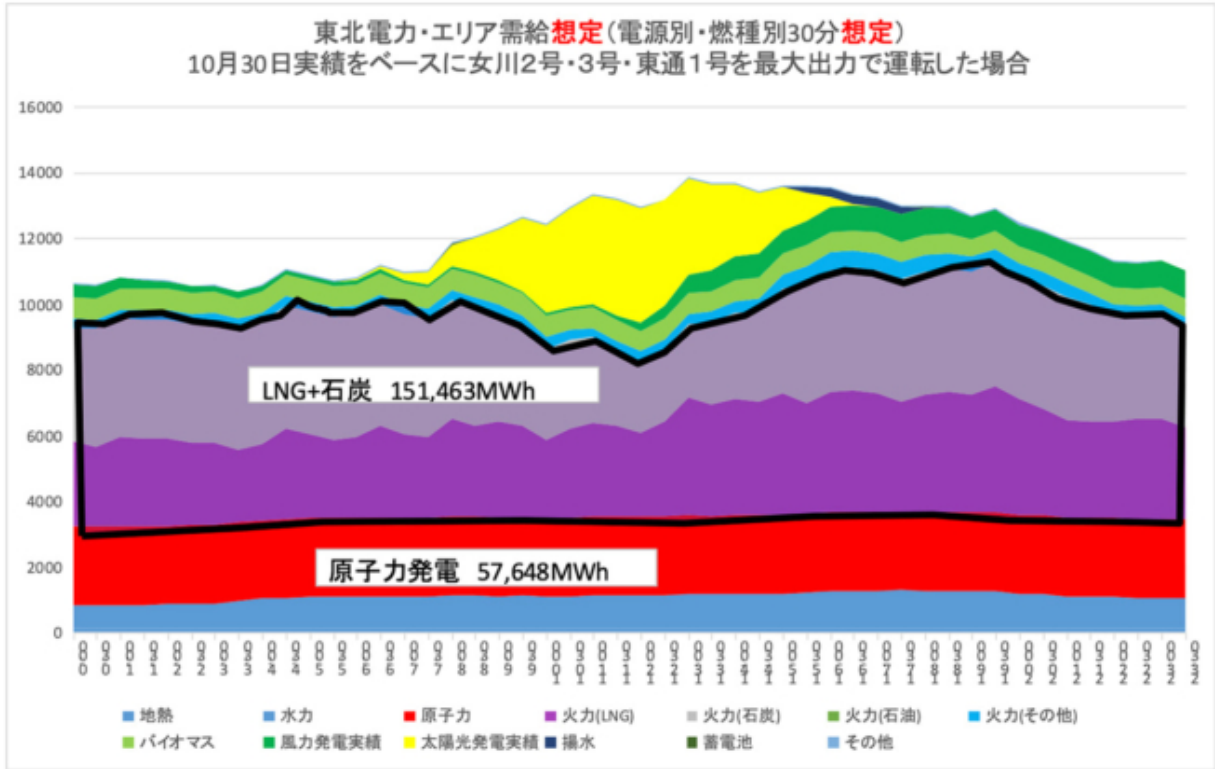
????????18,960MWh?LNG????????190,151MWh????????????????9????????????????????

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?3????1????????????????????50????????????????????2023?4?11????????????41???

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?130?MW??

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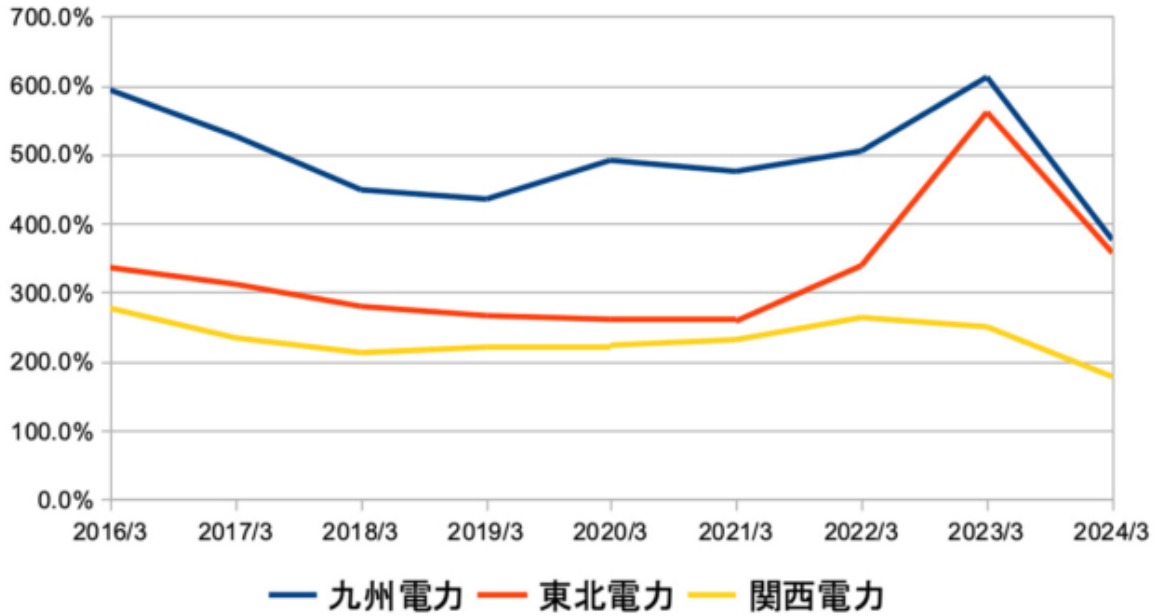
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4. ?????????3???????

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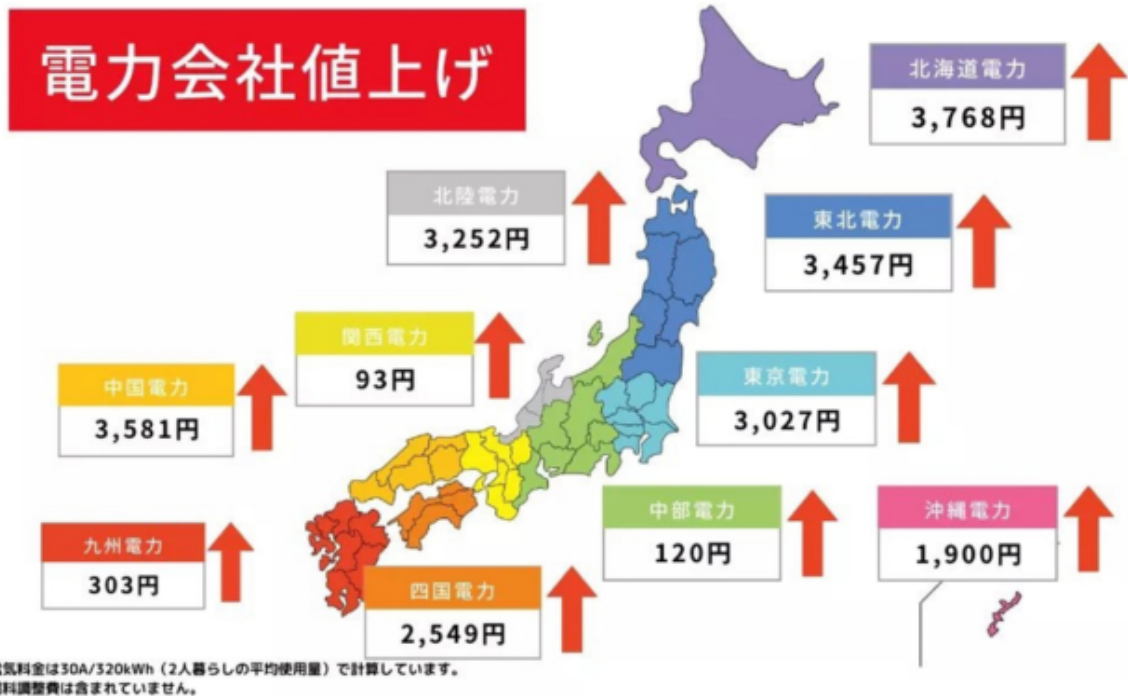
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有利子負債比率



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BRICS

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G20 BRICS G7 G20

BRICS

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

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

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?? ? · Wednesday, November 6th, 2024



Heiness/iStock

11?11??22????????????COP29??????

COP29????????????????????????????????1000????????????????????????????NQG????????????????????
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Posted in ??????????, ??, ???? | No Comments »

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?? ? · Sunday, November 3rd, 2024



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<https://agora-web.jp/archives/231204180408.html>

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Posted in ???, ????? | No Comments »

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?? ?? · Thursday, October 31st, 2024



ChrisSteer/iStock

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ESG?SDGs?2021??
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?SDGs??????????

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

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?? ?? · Friday, October 25th, 2024



ESG評価の欺瞞

4/19

同業のA社とB社。どちらがESG投資対象となるでしょうか？

A社

- ・年間CO₂排出量：10万トン
- ・従業員数：1万人
- 一人当たり年間CO₂排出量：10トン

B社

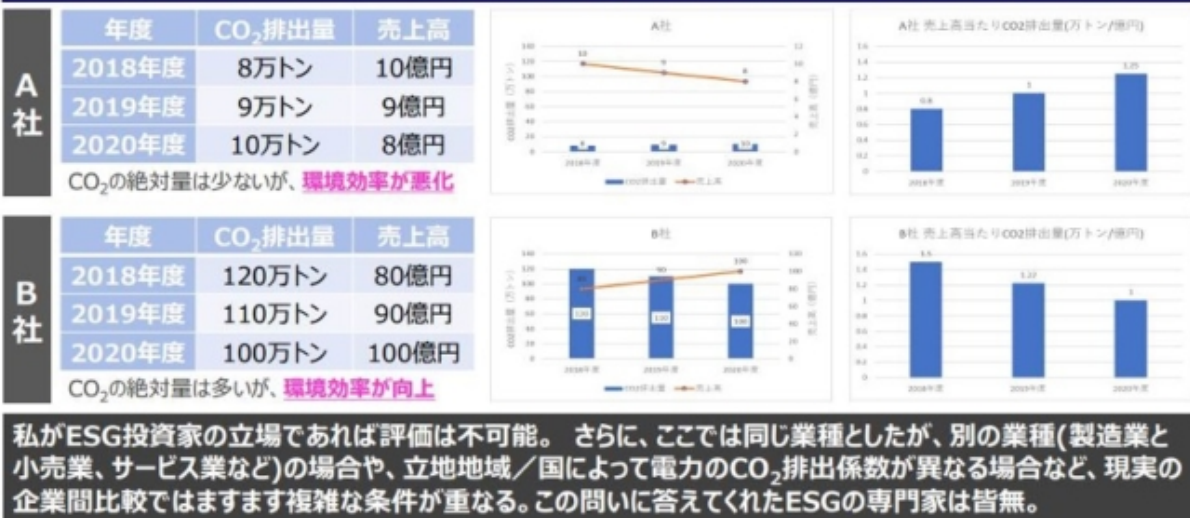
- ・年間CO₂排出量：100万トン
- ・従業員数：20万人
- 一人当たり年間CO₂排出量：5トン

???ESG?SDGs???????

ESG評価の欺瞞

5/19

同業のA社とB社。どちらがESG投資対象となるでしょうか？



???ESG?SDGs???????

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?? ?? ? - Thursday, October 24th, 2024



slexp880/iStock

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?? ?? · Tuesday, October 22nd, 2024



HUNG CHIN LIU/iStock

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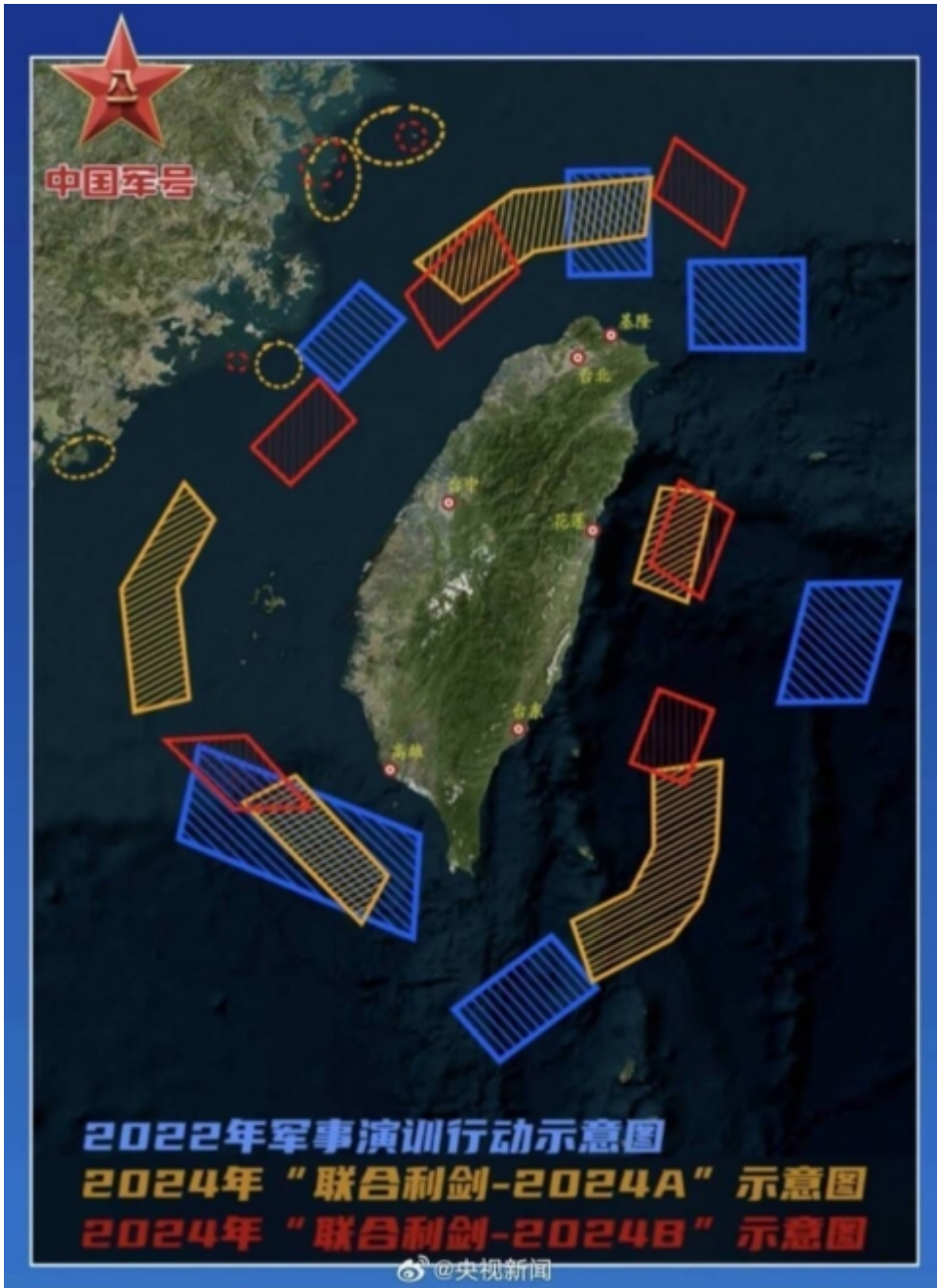
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Figure 1: Taiwan's Energy Supply in 2022, Bureau of Energy, Ministry of Economic Affairs (MOEA)

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???The Resilience of Taiwan's Energy and Food Systems to Blockade

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?? ?? · Friday, October 18th, 2024



Angela Chestnova/iStock

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