

intensity????????2021???NDC????????????????2030??GDP??CO2????2005????65%
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????2030????CO2????????????????????

????????????GDP????????????????????????????????CO2????????????????????

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?-1????????????2021????????NDC????????2030????CO2????????????GDP??CO2????2005??
????65%????????

表-1 気候変動に係わる中国の主な定量目標
更新NDC(2021年10月提出)

指標	目標
・CO2排出量のピーク	2030年までに達成
・カーボンニュートラル	2060年までに達成
・GDP当りCO2排出量	2030年までに、2005年レベルから65%以上削減
・一次エネルギーに占める非化石燃料割合	2030年までに、約25%に増加
・森林ストック量(forest stock volume)	2030年までに、2005年レベルに比べ60億m3増加
・風力と太陽光発電の総設置容量	2030年までに、12億kW以上

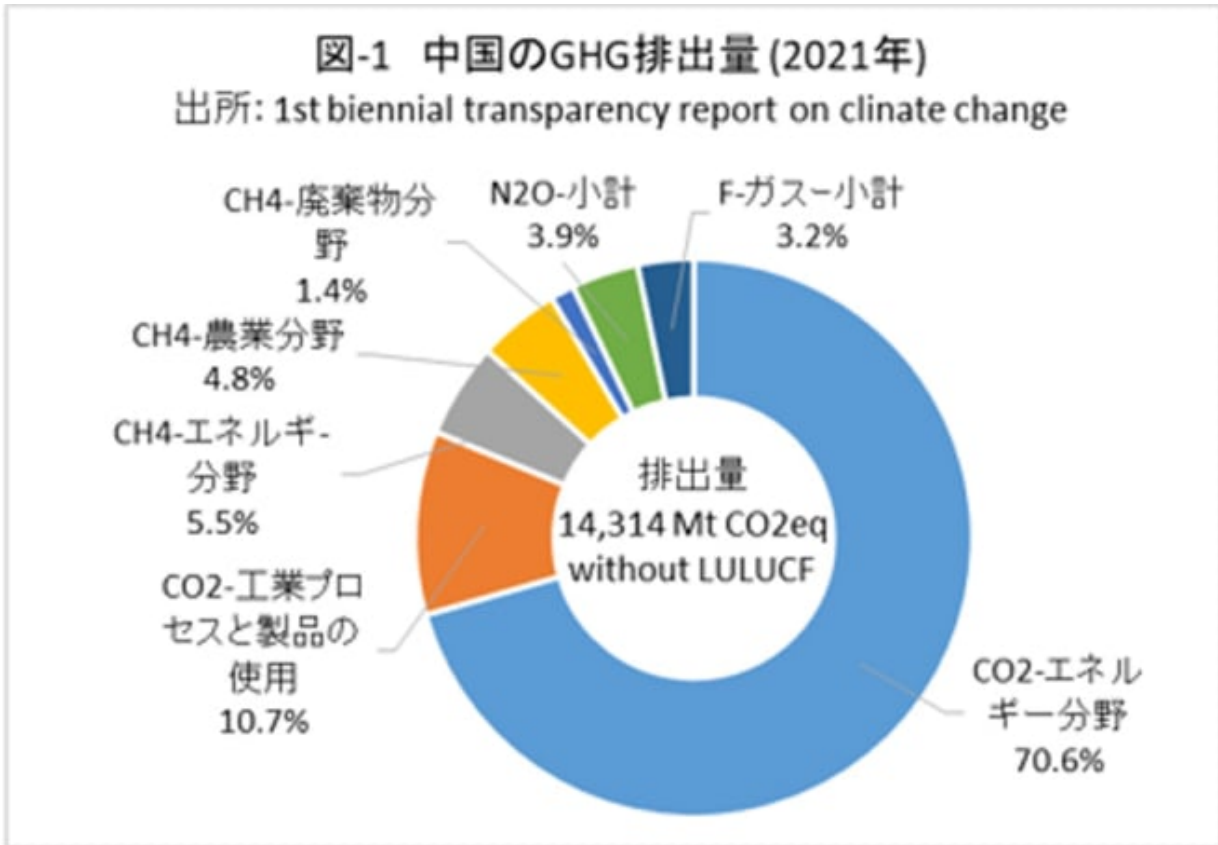
GHG?CO2?????

????????GHG??CO2????????-1??-2?2021????????????? ”First Biennial
Transparency Report on Climate Change?December 2024?” ?????????

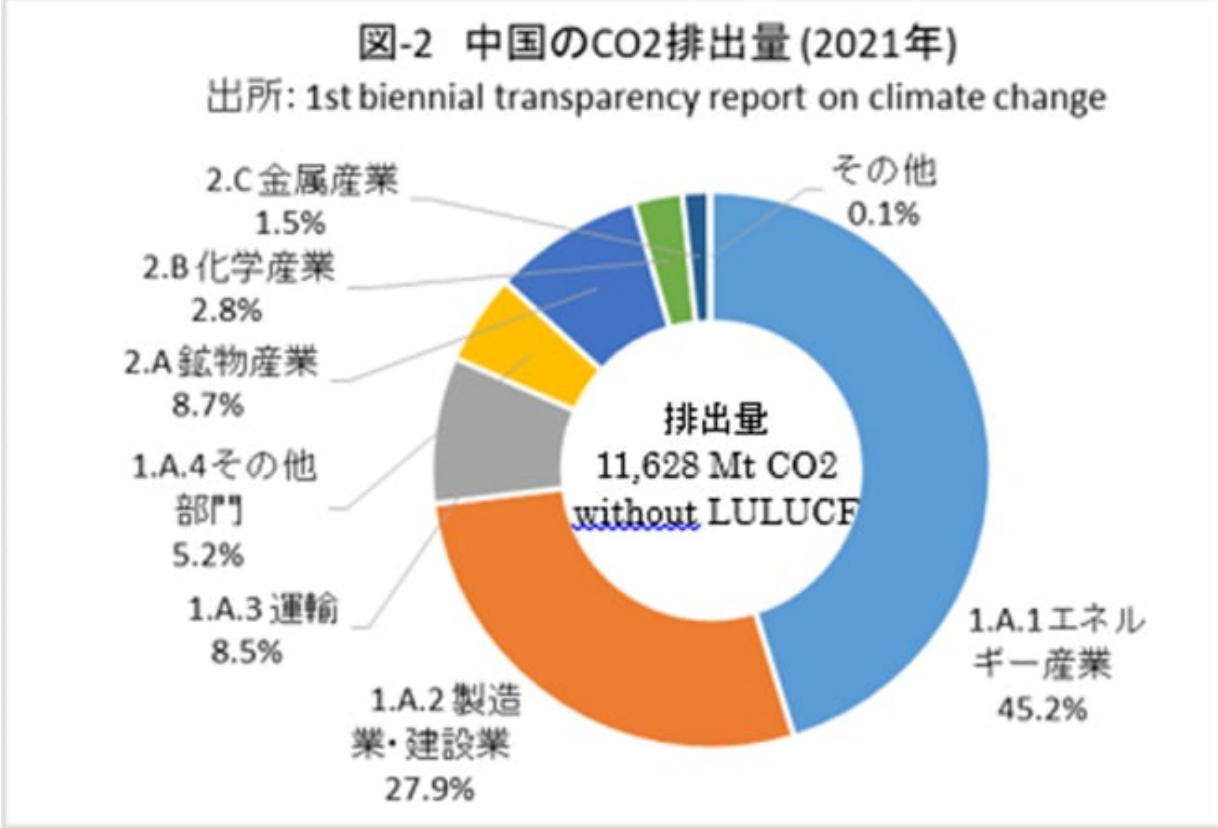
?-1?GHG?CO2?CH4?N2O?F-

????????CO2????CO2eq????????????LULUCF????????CO2????G
HG????81%????

LULUCF????1,315 MtCO2eq????????CO2????

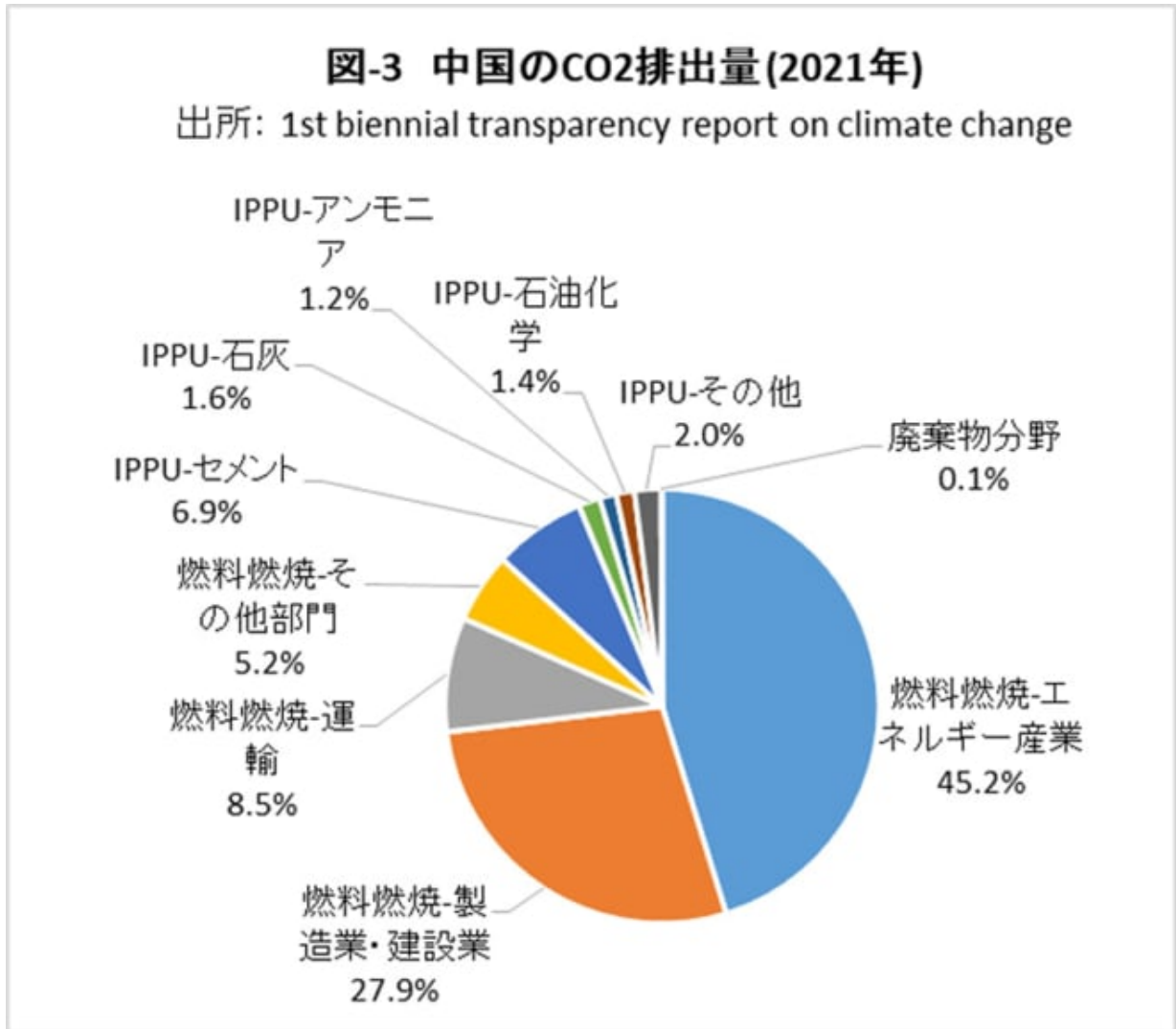


?-2??CO2???1.A.1????????????????UNFCCC??GHG????????????????
??????1.A.1?1.A.4?1.A.????????2.A?2.C?2.????????????????????IPPU??????????
????CO2??CO2????????87%??????????



?-3??-2????IPPU??CO2?????6.9%????????

1.6%?????1.4%????????1.2%????????????????

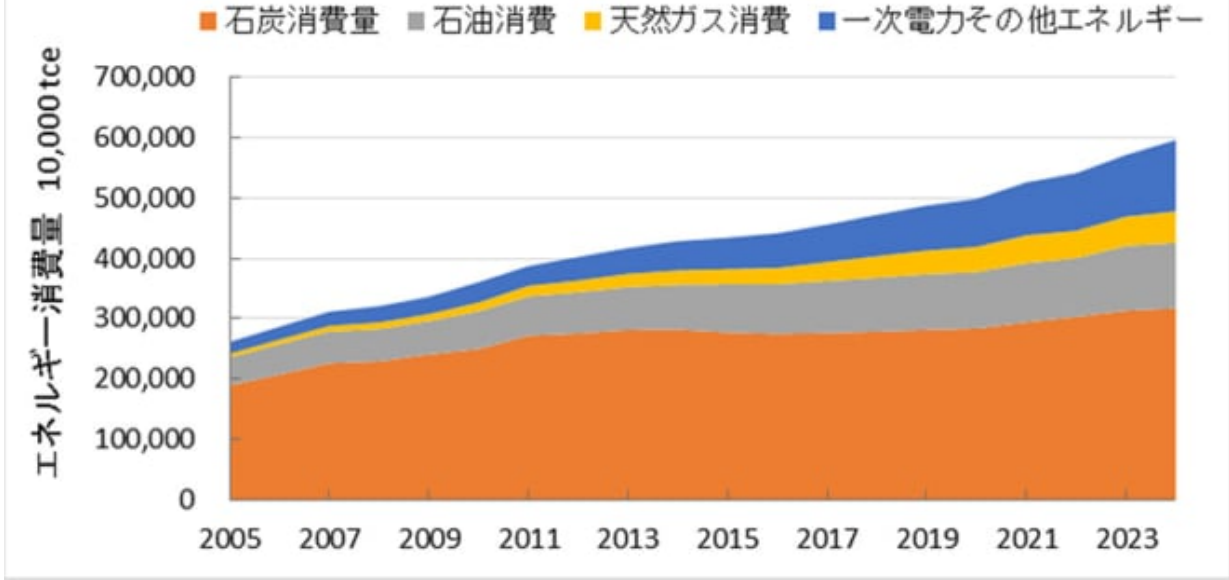


????????????????CO2????CO2??CO2????????????????
????????????????????CO2??IPPU??CO2????????????

?-4????????????GHG?CO2????????LULUCF????????????????????2005????GHG????????
?2005????2021????????????LULUCF????????GHG??1.7??CO2??1.8???

図-5 中国のエネルギー消費量の推移

出所: 中国国家统计局 annual data



IAEA TES

tce 1 tce = 7 Gcal

2022 Gross 42.8%

2%

2024 53% 66%

CO2

CO2 CCS 2030

CCS 2030

CO2

40%

?

87% CO2 12% IPPU CO2 0.1% CO2 LU LUCF CO2

CO2 CO2 CO2

CO2 LULUCF CO2

CO2

2005 CO2

2015 2024 CO2

IEA

CO2 1.5%

CO2 GHG 2006 IPCC

2025 2026 GDP IMF 2025 7% 2026 4.2% 2030 3.4% 2030

2025

China Energy Transformation Program (CET), Summary of China’s energy and power sector statistics in 2024

2026 CO2 CO2

2030

CWEA CPIA 2030 CO2

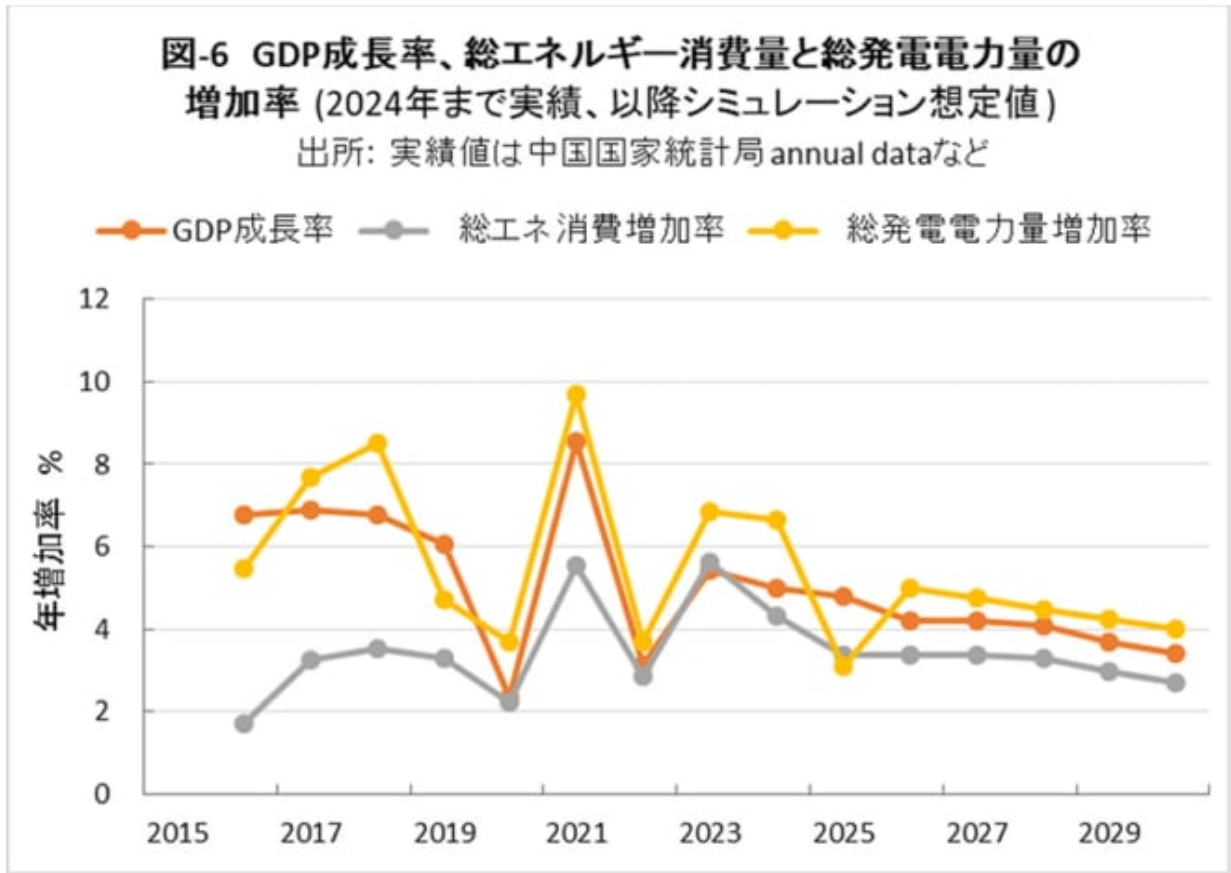
2024 8.8% 2016 2016-2030 15%

IEA Oil 2025 2028

4% 2%

CO2 2024 CO2

CO2 GDP 2024



GDP

GDP $\times 0.8$ 2025 2030 3.2%

GDP $\times 0.7 \times 0.9$

IPPU CO2

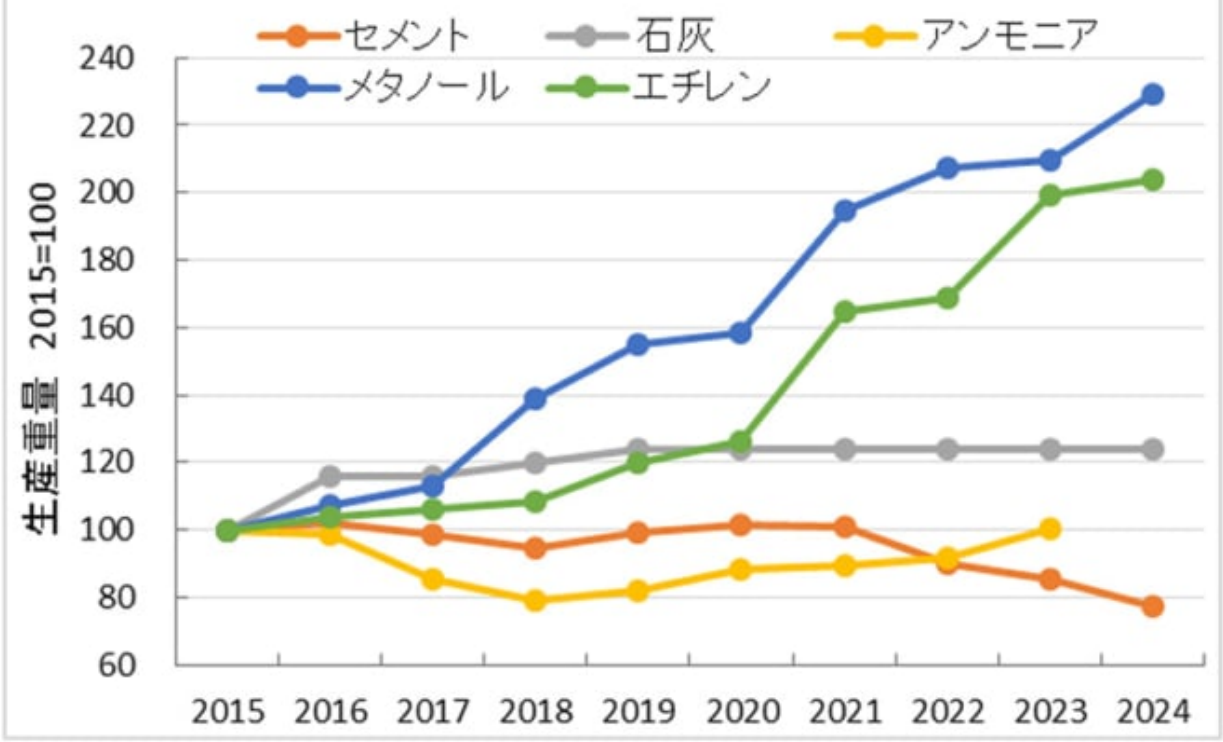
IPPU CO2 -3 5

IPPU CO2 13% 2020 2021 CO2

7 2015 100 2025

図-7 IPPU分野CO2関連の生産量推移

出所: 中国国家统计局annual dataほか



2021年、セメント、石灰、アンモニア、メタノール、エチレンの生産量はそれぞれ約100、125、90、208、170に推移した。

2020年から2024年までの年平均成長率は、セメントが-2%、石灰が0%、アンモニアが5%、メタノールが18%、エチレンが15%と推定される。

この図表は、2015年を基準として2024年までの生産量の推移を示している。メタノールの生産量は最も急激に増加しており、2024年には2015年の約2.3倍に達している。一方、セメントの生産量は減少傾向にある。

2025年以降のCO2/GDP比率は5%、GDPが5%増加した場合、CO2の削減率も5%に達する可能性がある。

2030年までにCO2削減率を10%に引き上げる必要がある。

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1970年代からのエネルギー政策に関する詳細な分析は、Kindleで公開されている。

Posted in ???, ??? | No Comments »

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?? ?? · Sunday, March 8th, 2026



COMiCZ/iStock

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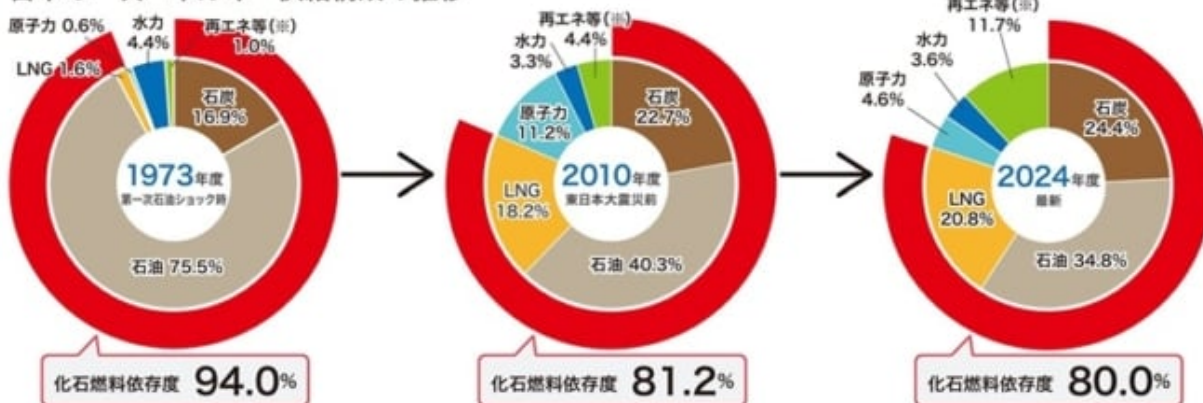
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????????????????????1??1973????75.5%????????????????????
2024????34.8%????LNG?20.8%????24.4%????

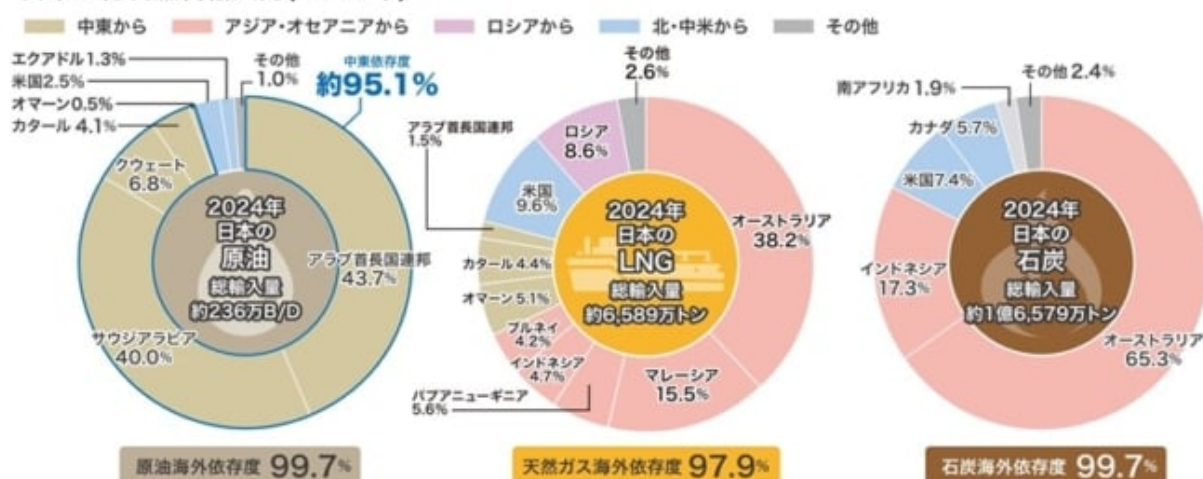
日本の一次エネルギー供給構成の推移



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95.1%?????????????????????????UAE????????????????????11.0%????????????????????????????????

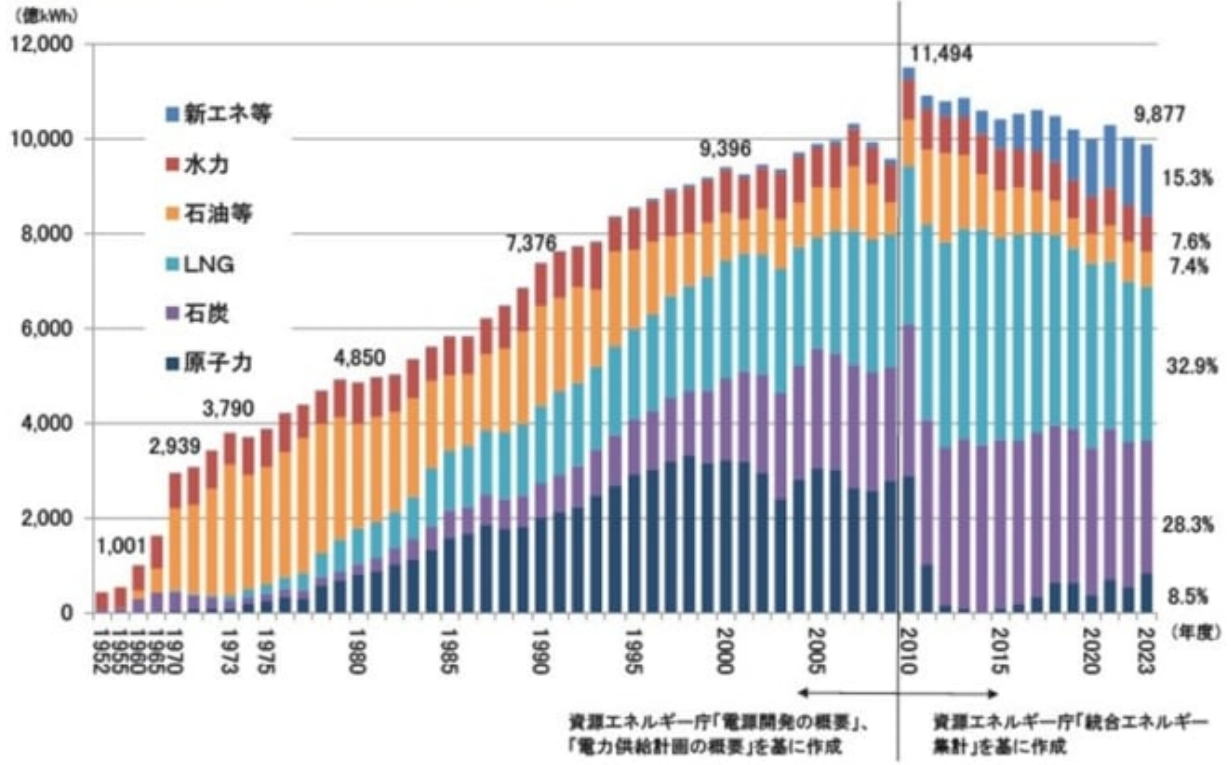
日本の化石燃料輸入先(2024年)



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

????????????????????????1973????????????????????????????????2023????????????????????????????3????????????????????????7.4%??
????????????LNG??32.9%???28.3%????????????

【第14-1-6】発電電力量の推移



(注1) 2009年度以前のデータは旧一般電気事業者10社による発電が対象。ただし、1971年度以前のデータには沖縄電力が含まれていない。

(注2) 2010年度以降のデータは自家発電を含む全ての発電が対象。

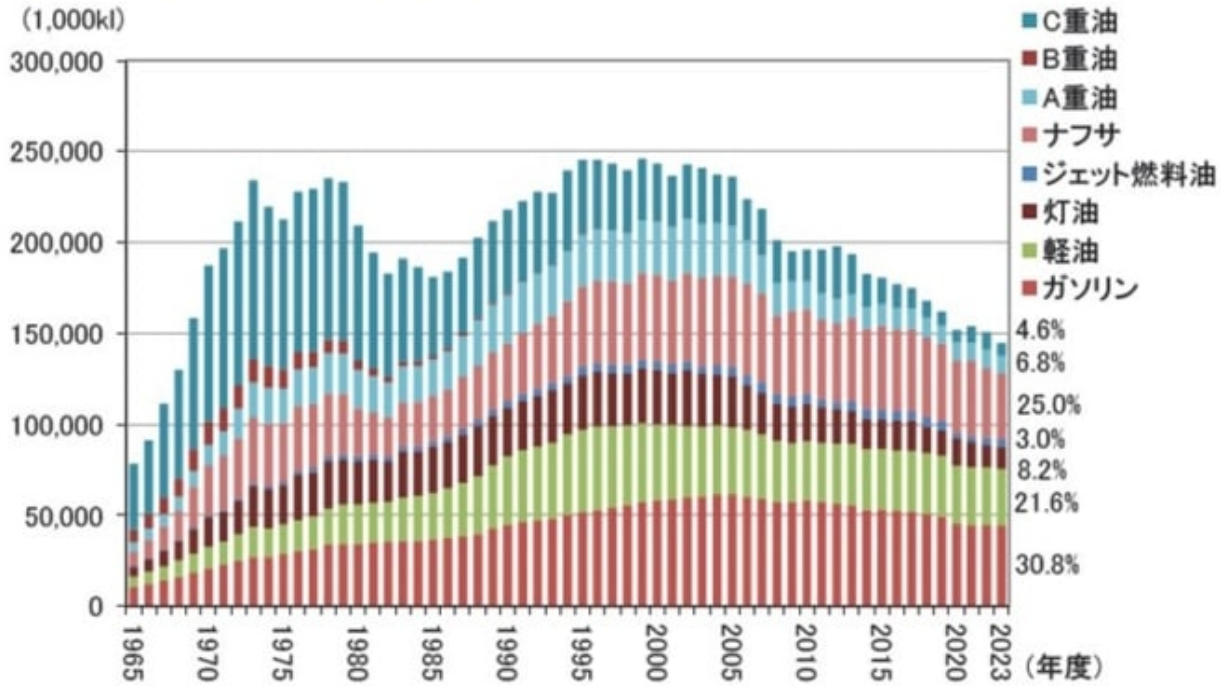
2025年6月

95.1% 11.0%

7.4% 32.9% 11% 3.6% 7.4% + 3.6% = 11.0%

4%

【第14-4-1】燃料油販売量の推移(油種別)

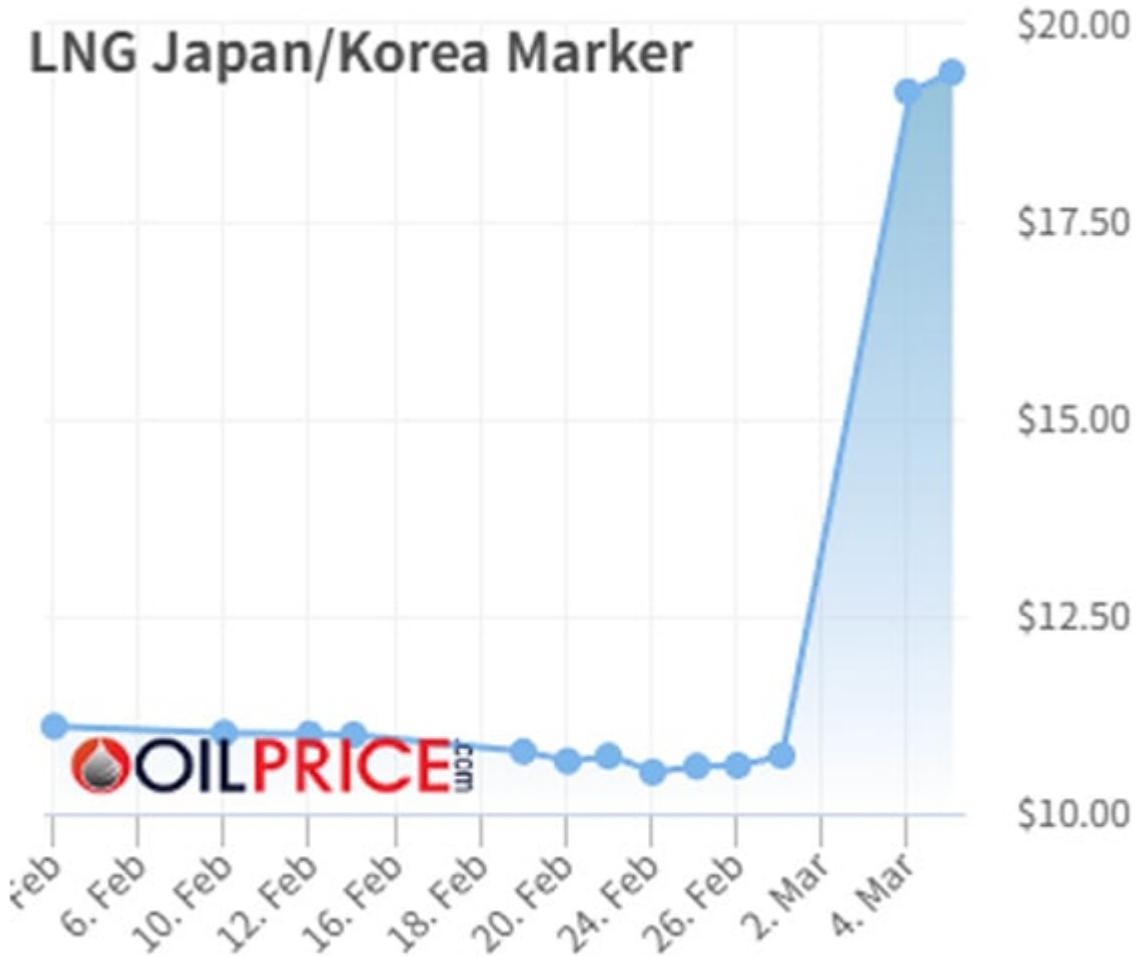


(注) 2002年1月よりB重油はC重油に含まれている。

2025年6月まで

燃料油販売量の推移(油種別)に関するデータ

LNG(JKM)に関するデータ



?5 OILPRICE.com??

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Yanleth Rivera/iStock

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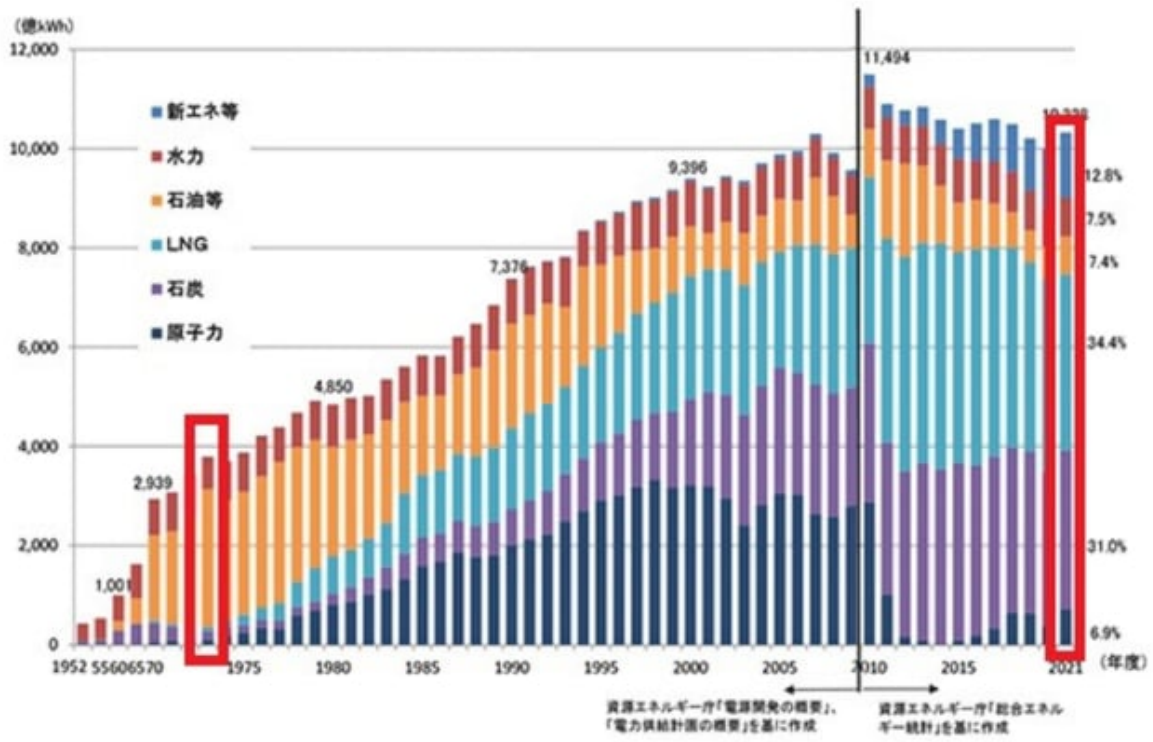
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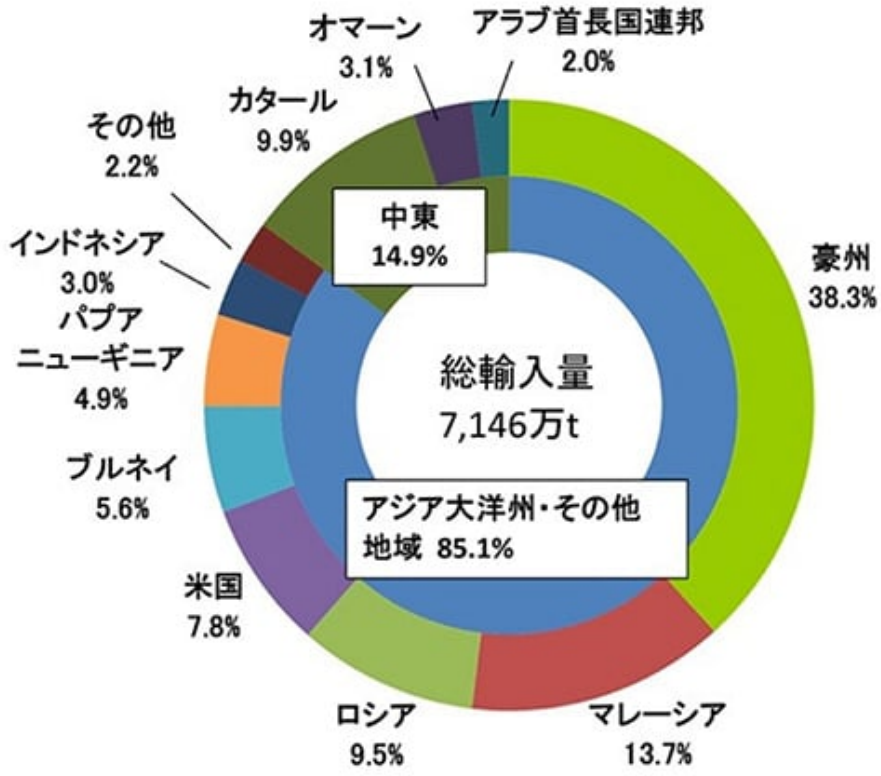
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G??34????????



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$0.34 \times \text{LNG} \times 0.15 \times 0.051 \times 5$

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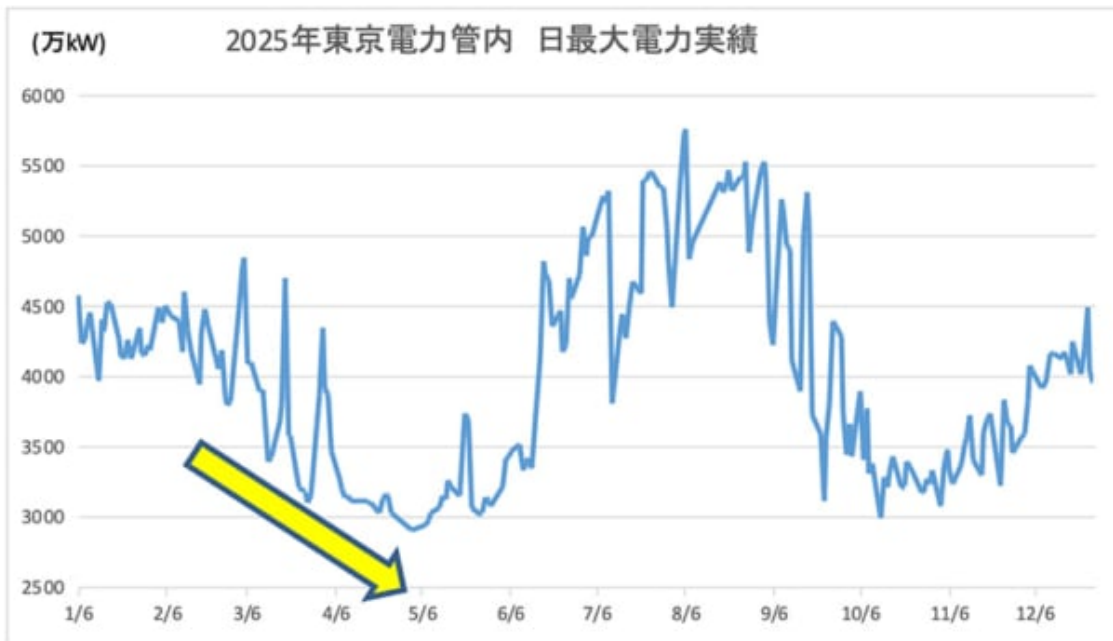
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Posted in ??????????, ?? | No Comments »

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?? ?? · Monday, March 2nd, 2026



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

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?? ? · Monday, March 2nd, 2026



Andrew Linscott/iStock

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IEA World Energy Outlook 2025 STEPS Stated Scenario 2050 NZE Net Zero Emissions Scenario 2050 CPS Current Policy Scenario 2050 CPS STEPS NZE

IEA 2025 World Energy Outlook 2025 STEPS Stated Scenario 2050 NZE Net Zero Emissions Scenario 2050 CPS Current Policy Scenario 2050 CPS STEPS NZE

IEA 2025 World Energy Outlook 2025 STEPS Stated Scenario 2050 NZE Net Zero Emissions Scenario 2050 CPS Current Policy Scenario 2050 CPS STEPS NZE

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IEA 2025 World Energy Outlook 2025 STEPS Stated Scenario 2050 NZE Net Zero Emissions Scenario 2050 CPS Current Policy Scenario 2050 CPS STEPS NZE

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- 1?2026 IEA Ministerial Declaration Supporting the IEA’s Work on Critical Minerals Security – News – IEA
- 2?Joint Statement in Support of the IEA-Ukraine Collaboration Programme – News – IEA
- 3?2026 IEA Ministerial Chair’s Summary

Posted in [IEA](#), [World](#), [Energy](#) | No Comments »

IEA World Energy Outlook 2025 STEPS Stated Scenario 2050 NZE Net Zero Emissions Scenario 2050 CPS Current Policy Scenario 2050 CPS STEPS NZE

?? ?? · Saturday, February 28th, 2026

IEA 2025 World Energy Outlook 2025 STEPS Stated Scenario 2050 NZE Net Zero Emissions Scenario 2050 CPS Current Policy Scenario 2050 CPS STEPS NZE

IEA 2025 World Energy Outlook 2025 STEPS Stated Scenario 2050 NZE Net Zero Emissions Scenario 2050 CPS Current Policy Scenario 2050 CPS STEPS NZE

- [IEA World Energy Outlook 2025 STEPS Stated Scenario 2050 NZE Net Zero Emissions Scenario 2050 CPS Current Policy Scenario 2050 CPS STEPS NZE](#)
- [IEA World Energy Outlook 2025 STEPS Stated Scenario 2050 NZE Net Zero Emissions Scenario 2050 CPS Current Policy Scenario 2050 CPS STEPS NZE](#)

IEA 2025 World Energy Outlook 2025 STEPS Stated Scenario 2050 NZE Net Zero Emissions Scenario 2050 CPS Current Policy Scenario 2050 CPS STEPS NZE

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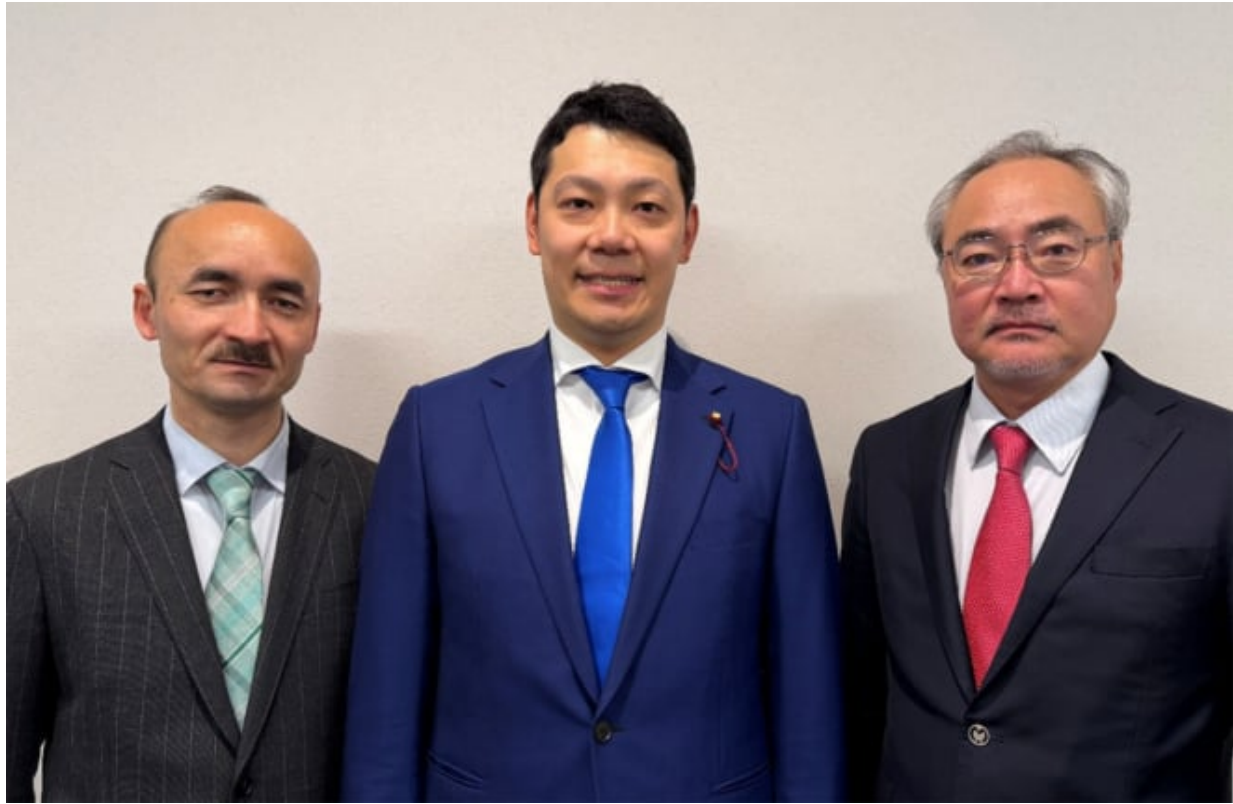
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Posted in ??????????, ??? | No Comments »

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?? ?? · Thursday, February 26th, 2026



ipopba/iStock

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Global elites who cling to green policies are clueless how to sustain life as we know it – America Out Loud News

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

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?? ?? · Monday, February 16th, 2026

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- ???NDC????????????????????2035?60%??2040?73%?????
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Posted in ??????????, ??? | [No Comments »](#)

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?? ?? · Sunday, February 15th, 2026



Cimmerian/iStock

Climate Realism
MBA

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Climate Change and Energy: World Leaders in Turmoil – Master Resource

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UN WEF IEA

1990 10 50

- 2024 34% 6,500 1,000
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Climatism????????????????

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

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?? ?? ? - Saturday, February 14th, 2026



nisara Tangtrakul/iStock

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Posted in ???, ?? | No Comments »

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??? ?? · Friday, February 13th, 2026



MikeMareen/iStock

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??2024????9,544????????????????????????????????
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2025年5月15日(金) 16時30分

送電線(空き容量30)

変電所 (トランス・容量100)

工場

家庭

70→ 50↓ 20↓

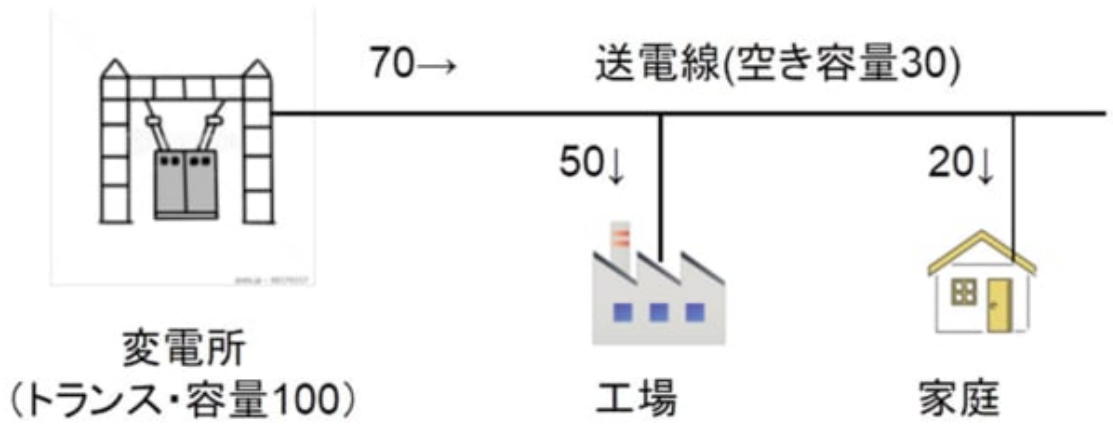
送電線(空き容量30)

変電所 (トランス・容量100)

工場

家庭

70→ 50↓ 20↓



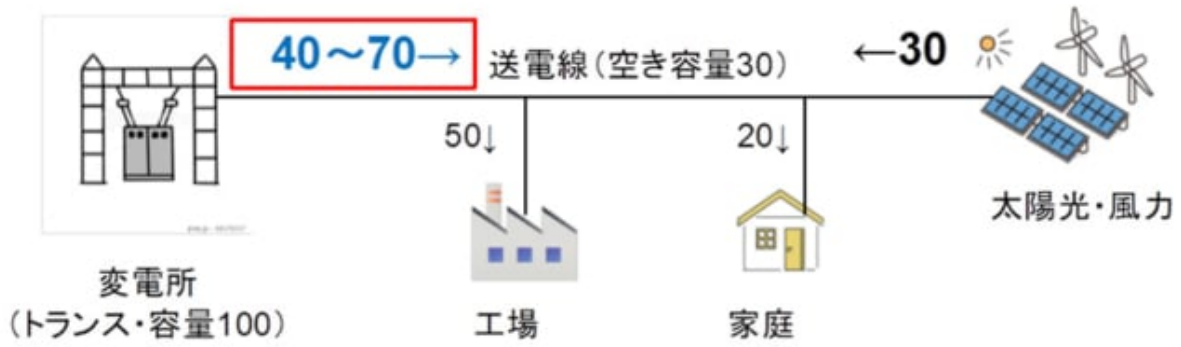
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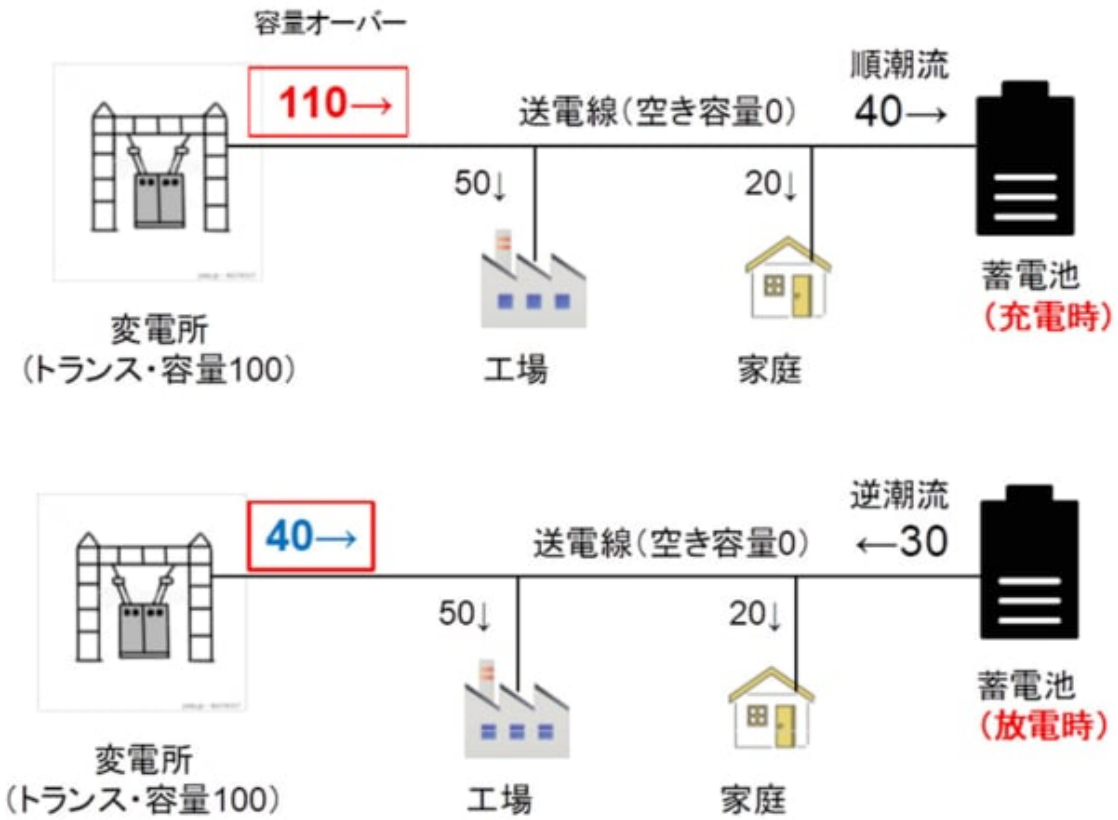
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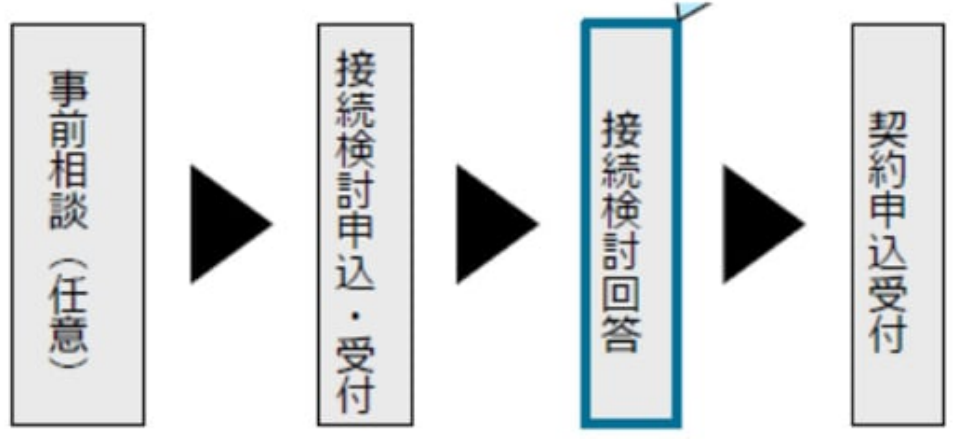
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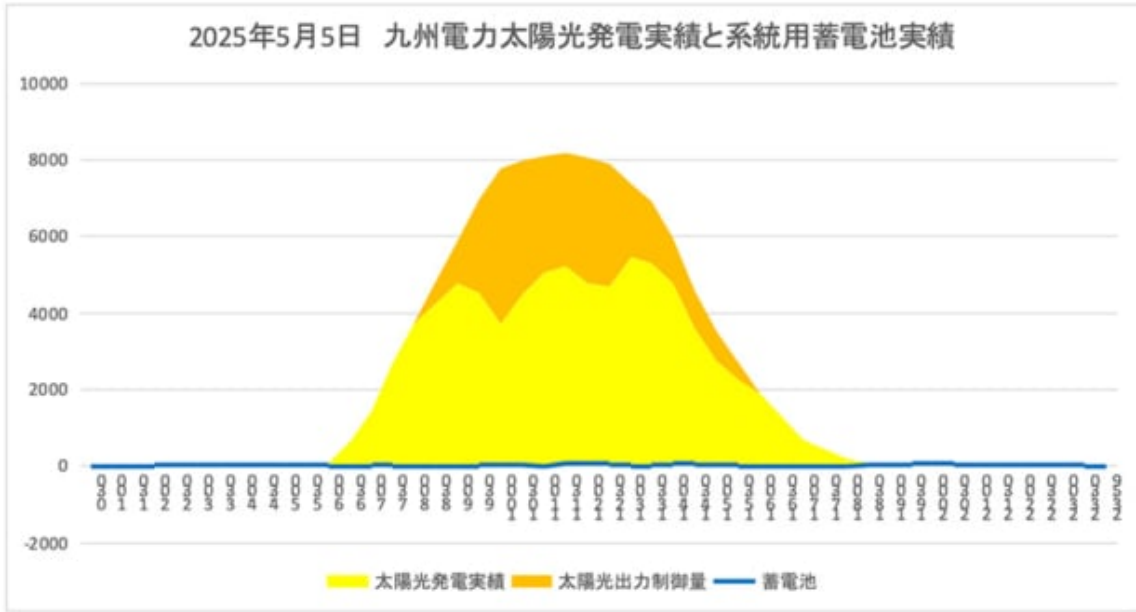
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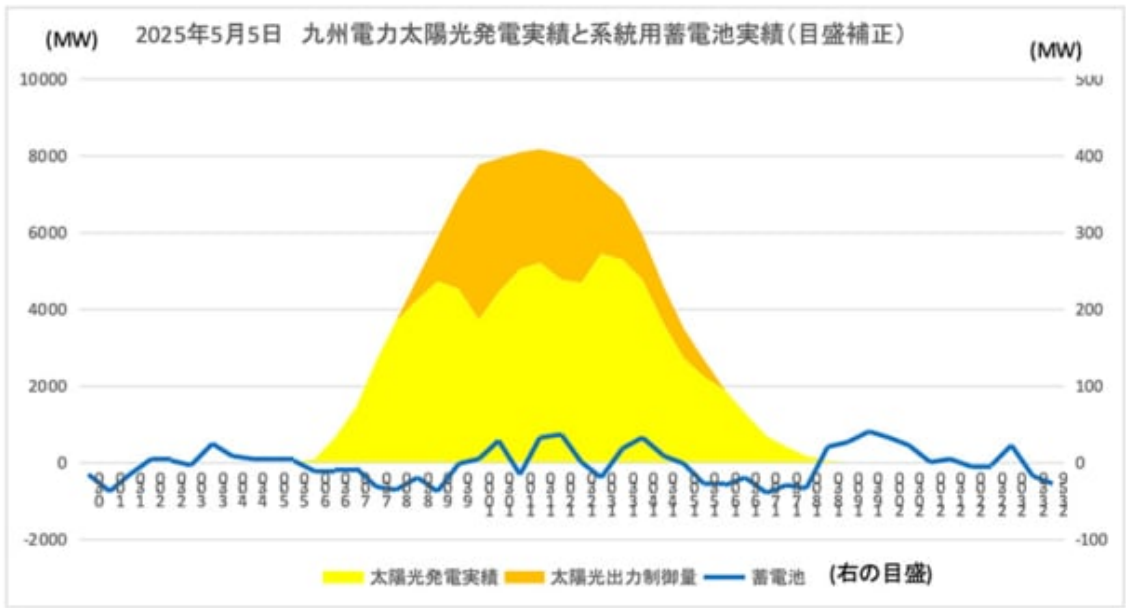
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??2025?5?5????????????????????

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?8?2025?5?5????????????????????

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

????UNFCCC????????????

?? ?? · Thursday, February 12th, 2026



The White House??

UNFCCC... CO2... EU...

UNFCCC...

America’s Irreversible Goodbye to Climate Governance

UNFCCC...

UNFCCC...

1979...

EU... EU...

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...GX...2050...?

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

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??? ?? · Tuesday, February 10th, 2026



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4.2.2.2 CO2 capture and utilization

4.2.2.2.1 CCS

CCS is a technology that captures CO2 from large point sources and transports it to a storage site.

CO2 capture can be achieved through pre-combustion, post-combustion, or oxy-fuel processes. Pre-combustion involves gasification of coal or biomass, while post-combustion involves capturing CO2 from flue gases. Oxy-fuel processes involve burning fossil fuels in an oxygen-rich environment, producing a CO2-rich stream that is easier to separate.

4.2.2.2.2 CCU

CCU involves capturing CO2 and converting it into a range of products, including synthetic natural gas, methanol, and polymers. This process can be integrated with existing industrial processes, such as steel production, where CO2 is captured from blast furnaces and used to produce synthetic natural gas.

4.2.2.2.3 Storage

CO2 storage involves capturing CO2 from large point sources and transporting it to a storage site. Storage sites are typically geological formations, such as depleted oil and gas fields, saline aquifers, and unconsolidated rock formations. Storage capacity is determined by the volume of the formation and the permeability of the rock.

4.2.2.2.4 Costs

- CCS costs are currently high, ranging from \$30 to \$100 per tonne of CO2 captured.

DOGE is a software tool used for CO2 storage site characterization and monitoring.

4.2.3 Energy efficiency and demand-side management

4.2.3.1 Energy efficiency

Energy efficiency involves reducing energy consumption through various measures, such as insulation, energy-efficient lighting, and energy-efficient appliances.

PDCA is a continuous improvement cycle consisting of four stages: Plan, Do, Check, and Act. It is used to identify and eliminate causes of variation or defects in a process.

4.2.3.2 Demand-side management

DSM involves managing electricity demand to reduce peak loads and improve system efficiency. This can be achieved through load shifting, load shedding, and demand response programs. DSM is becoming increasingly important as renewable energy sources become a larger share of the electricity supply.

Energy storage is a key technology for integrating renewable energy into the power system.

4.2.3.3 Energy storage

Energy storage involves storing energy for later use. This can be achieved through various technologies, including batteries, pumped hydro, and thermal storage. Energy storage is essential for balancing supply and demand and ensuring a reliable and stable power system.

4.2.4 Energy security and resilience

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

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?? ?? · Friday, February 6th, 2026



metamorworks/iStock

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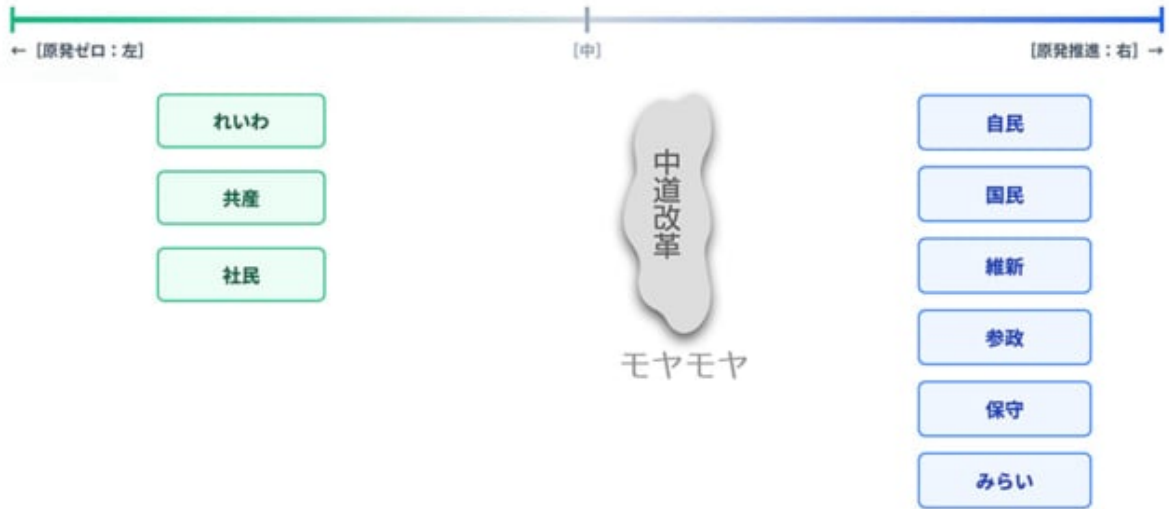
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原発政策における政党相関図



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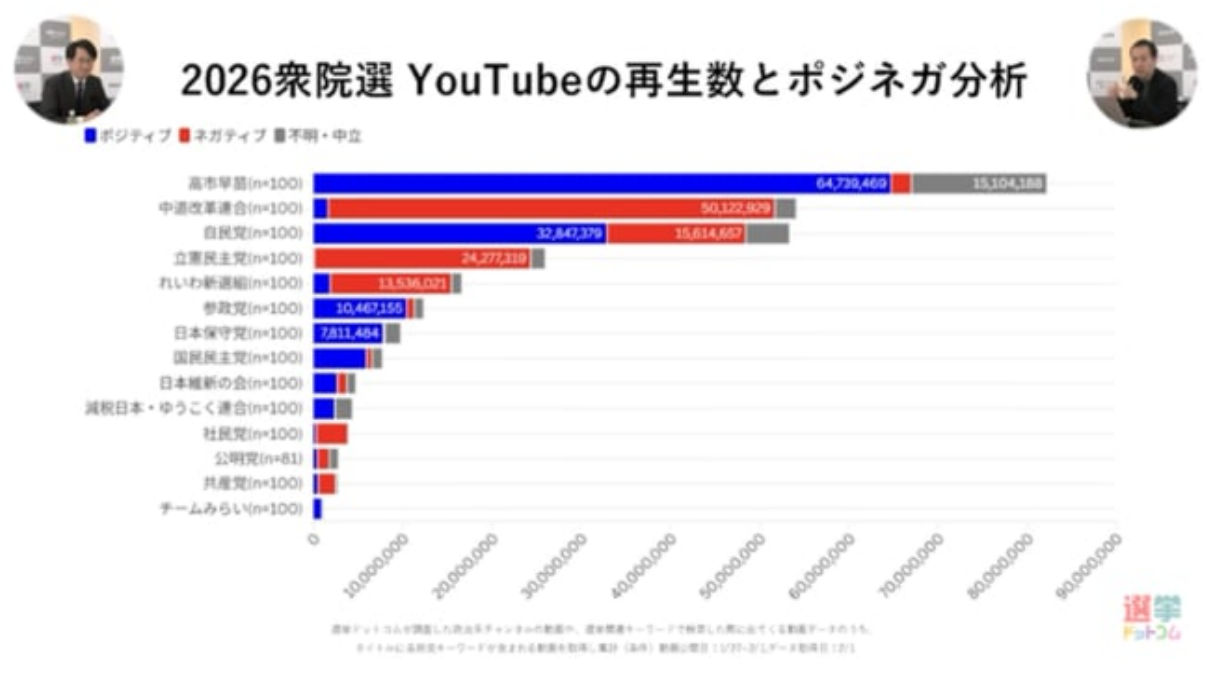
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Posted in ??????????, ??, ?? | No Comments »

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?? ?? · Wednesday, February 4th, 2026

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????????Is Fukushima Dangerous? — Distorted images of Japan???

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2021??News Week????



特集：奇才モーリー・ロバートソンの国際情勢入門

2018年8月14日号（8/7発売）

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Posted in ???, ????? | No Comments »

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?? ?? · Sunday, February 1st, 2026



gremlin/iStock

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Net Zero Financial Service Providers Alliance Disbands – ESG Today



NZFSPA??
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Net Zero Financial Services Providers Alliance????????? | ??????????

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NZFSPA????????????????????1.5????????????2050????????????????????
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JPX????????NZFSPA????????????????????????????????

お知らせ	会社情報	株主・投資家情報 (IR)	サステナビリティ	ガバナンス/リスク管理
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JPX企業情報 > お知らせ > JPXからのお知らせ

JPXからのお知らせ

2023/12/04 JPX

Net Zero Financial Services Providers Allianceへの加盟について

ツイート

株式会社日本取引所グループ（以下、JPX）は、脱炭素社会の実現に貢献すべく、Net Zero Financial Services Providers Alliance (NZFSPA) に加盟しました。

NZFSPAは、産業革命前からの世界の平均気温上昇を1.5度未満に抑えるため、2050年までに世界の温室効果ガス排出量のネットゼロを実現するという目標への貢献にコミットする金融サービスプロバイダーのグローバルなイニシアティブです。

JPXは、環境理念及び環境方針を掲げ、環境と共存可能な資本市場の維持・発展に努めることで持続可能な社会を目指しています。また、中期経営計画2024においてグリーン戦略を策定し、その一環として、2024年度までに温室効果ガス排出量スコープ1・2のカーボン・ニュートラル実現を目指しています。

今般のNZFSPAへの加盟により、JPXは、ネットゼロの達成に向けた取組みをより一層深化させていきます。

- Net Zero Financial Service Providers Alliance
- COP28: Japan Exchange Group, Latinex and Philippine Stock Exchange join the Net Zero Financial Service Providers Alliance (NZFSPA) (SSEリリース)

Net Zero Financial Services Providers Alliance???????? | ??????????



GX（グリーントランスフォーメーション）リーグは、2050年カーボンニュートラル達成に向けて、GXに積極的に取り組む企業群が、官・学・金でGXに向けた挑戦を行うプレイヤーとともに、一体として経済社会システム全体の変革のための議論と新たな市場の創造のための実践を行う場として、経済産業省によって設立されました。2024年4月時点で日本の温室効果ガス排出量の5割以上を占める企業が参画しており、当社も2023年度の稼働当初より参画しています。

- GXリーグの取組について
- GXリーグ公式ウェブサイト [👉](#)

なお、東京証券取引所は2024年11月、経済産業省の令和6年度のGXリーグに係る事業の一部として、GXリーグにおける自主的な排出量取引（GX-ETS）の超過削減枠をカーボン・クレジット市場における売買の対象に追加しました。

- カーボン・クレジット市場 制度概要

Net Zero Financial Service Providers Alliance (NZFSPA)

JPXは2023年12月にNZFSPAに加盟しました。NZFSPAは、産業革命前からの世界の平均気温上昇を1.5度未満に抑えるため、2050年までに世界の温室効果ガス排出量のネットゼロを実現するという目標への貢献にコミットする金融サービスプロバイダーのグローバルなイニシアティブです。NZFSPAへの加盟により、JPXは、ネットゼロの達成に向けた取組みをより一層深化させていきます。

- Net Zero Financial Services Providers Alliance [👉](#)
- 取引所グループの目標設定ガイダンス [👉](#)

NZFSPA加盟の取引所は、毎年、そのコミットメントに関する取組みについて、情報を公表することが求められています。JPXの関連情報は以下のページに掲載しています。

- Net Zero Financial Service Providers Alliance（NZFSPA）関連情報 [👉](#)

Glasgow Financial Alliance for Net Zero（GFANZ）日本支部

JPXはGFANZ（グラスゴー金融同盟、Glasgow Financial Alliance for Net Zero）の日本支部に参加しています。GFANZは2050年までに温室効果ガス排出量実質ゼロを目指す世界最大の金融連合体です。日本国内の金融機関がネットゼロ移行計画を策定するための知識やベ

JPX????????? | ?????? | JPX????????? | ??????

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

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?? ?? · Saturday, January 31st, 2026



stock_colors/iStock

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

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?? ?? · Saturday, January 31st, 2026



urbazon/iStock

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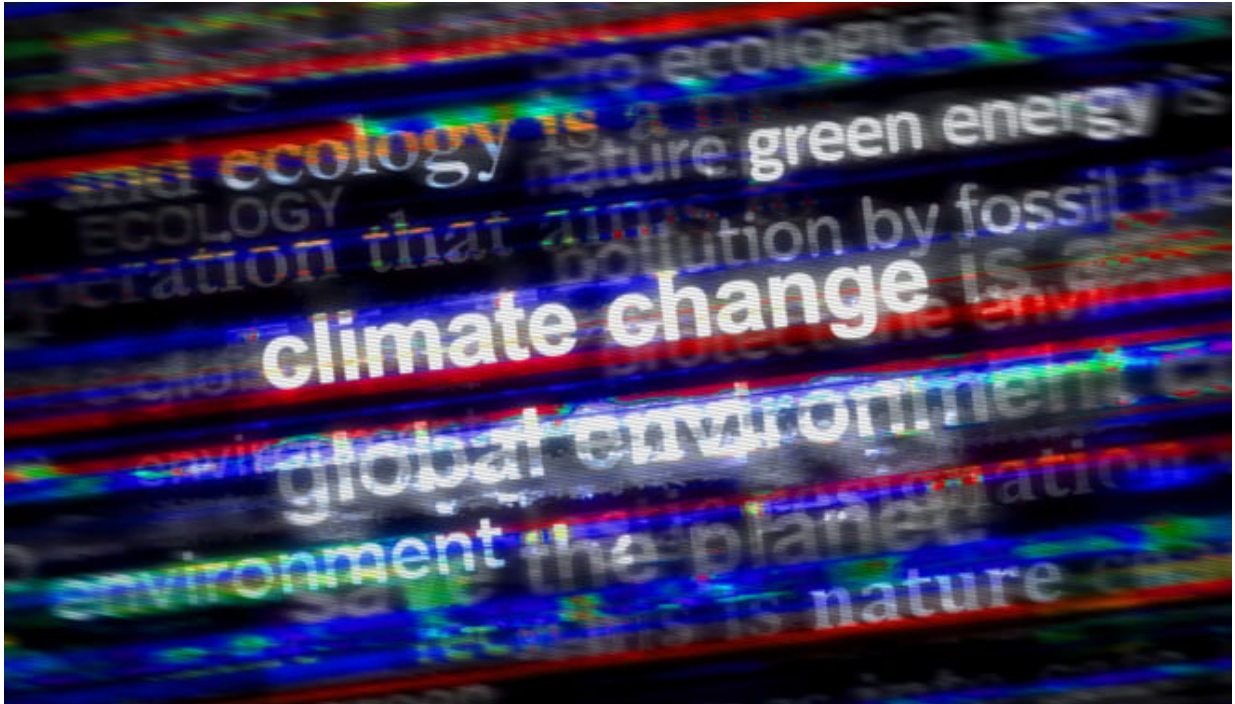
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Posted in , | No Comments »

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?? ?? · Friday, January 30th, 2026



Arkadiusz Wargu?a/iStock

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As Davos Convenes, Deference to Trump Has Replaced Everything



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At Davos, Talk of Climate Change Retreats to the Sidelines



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Davos' climate resignation

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

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?? ?? · Thursday, January 29th, 2026



Nastco/iStock

??America Out Loud News ??“The transition to net-zero emissions is a tax on the air you breathe”??????

?????Ronald Stein P.E.??Willie Soon Ph.D.??

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?? ?? · Tuesday, January 27th, 2026



Neil Aldridge/iStock

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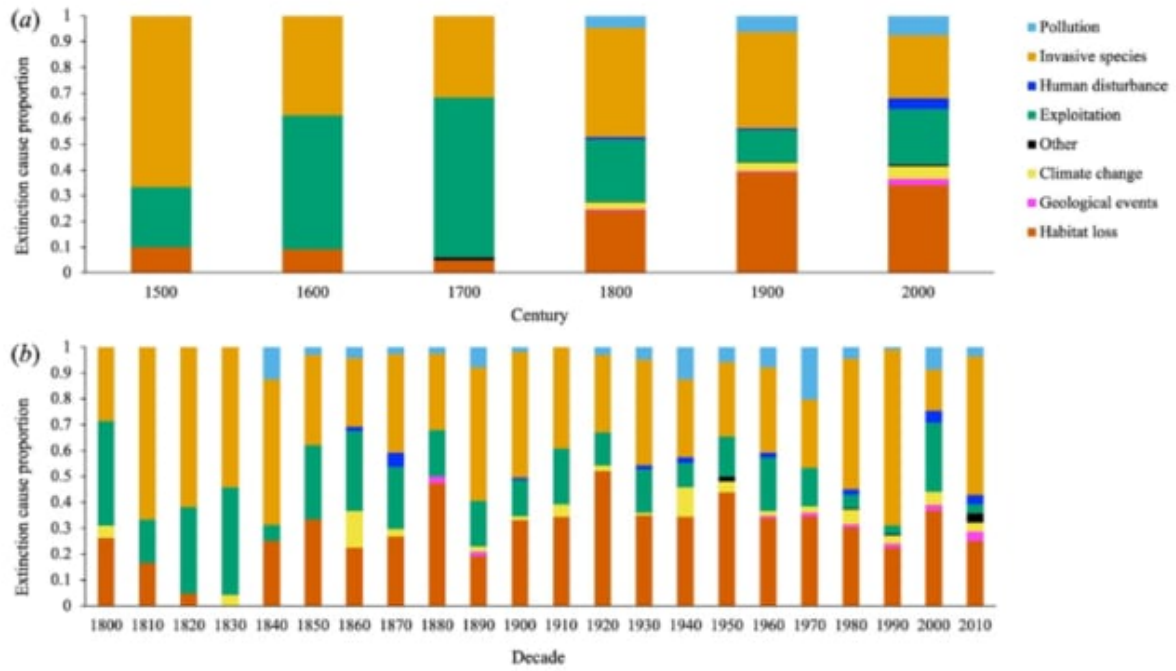
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Unpacking the extinction crisis: rates, patterns and causes of recent extinctions in plants and animals

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?? ?? · Monday, January 26th, 2026



designer491/iStock

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1?Proposal for a REGULATION OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL establishing the
Temporary Decarbonisation Fund

????EU????2026?1?12??

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

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?? ?? · Monday, January 26th, 2026



The White House??

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Davos 2026: Special Address by Donald J Trump, President of the United States of America

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?? ?? · Sunday, January 25th, 2026



DaniloAndjus/iStock

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Analysis: UK newspaper editorial opposition to climate action overtakes support for first time



Analysis: UK newspaper editorial opposition to climate action overtakes support for first time

For the first time, there were more UK newspaper editorials opposing climate action than supporting it in 2025

Number of editorials that supported more/less climate action



Source: Carbon Brief analysis



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UK general election national newspaper media endorsements 2024 (with circulation)

Publication	ABC circulation/estimate	Endorsement
Daily Mirror	225,983	Labour
Sunday Mirror	169,966	Labour
Daily Star	127,033	Labour/Count Binface
FT	108,824	Labour
Sunday People	54,150	Labour
The Sun	700,000	Labour
Sunday Times	322,000	Labour
The Guardian	60,000	Labour
Observer	80,000	Labour
Total	1,848,000	Labour
The Sun on Sunday	600,000	Neutral/Don't know
Daily Star Sunday	69,200	Neutral/Don't know
Metro (free)	951,036	Neutral/Don't know
i	124,904	Neutral/Don't know
The Times	180,000	Neutral/Don't know
Total	1,925,000	Neutral/Don't know
Mail on Sunday	580,737	Conservative
Daily Mail	688,783	Conservative
Daily Express	140,499	Conservative
Sunday Express	124,581	Conservative
Daily Telegraph	190,000	Conservative
Sunday Telegraph	125	Conservative
Total	1,850,000	Conservative

[Get the data](#)

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Posted in ???, ????? | No Comments »

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?? ?? · Saturday, January 24th, 2026

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Closing the Arctic Gaps: NATO Allies and Partners Can Protect Their Homelands by Updating Their Defense Force Postures

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Greenland, Rare Earths, and Arctic Security

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President Trump’s Climate Moonshot

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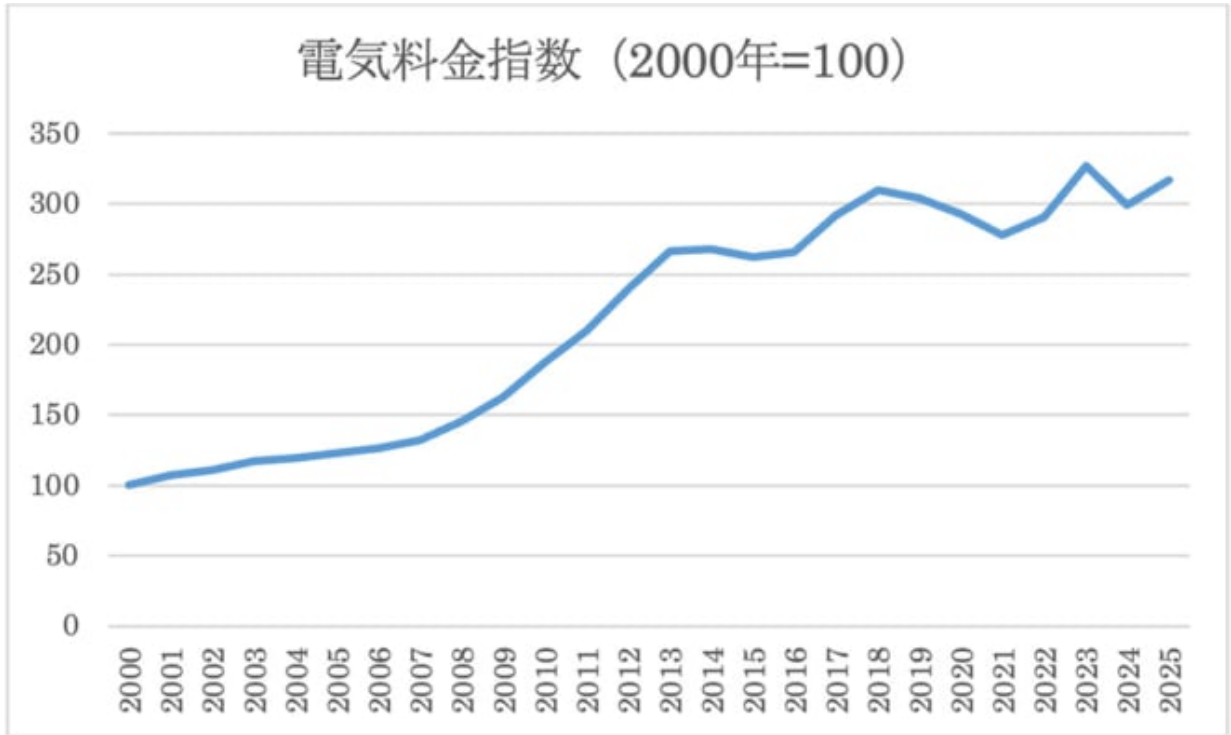


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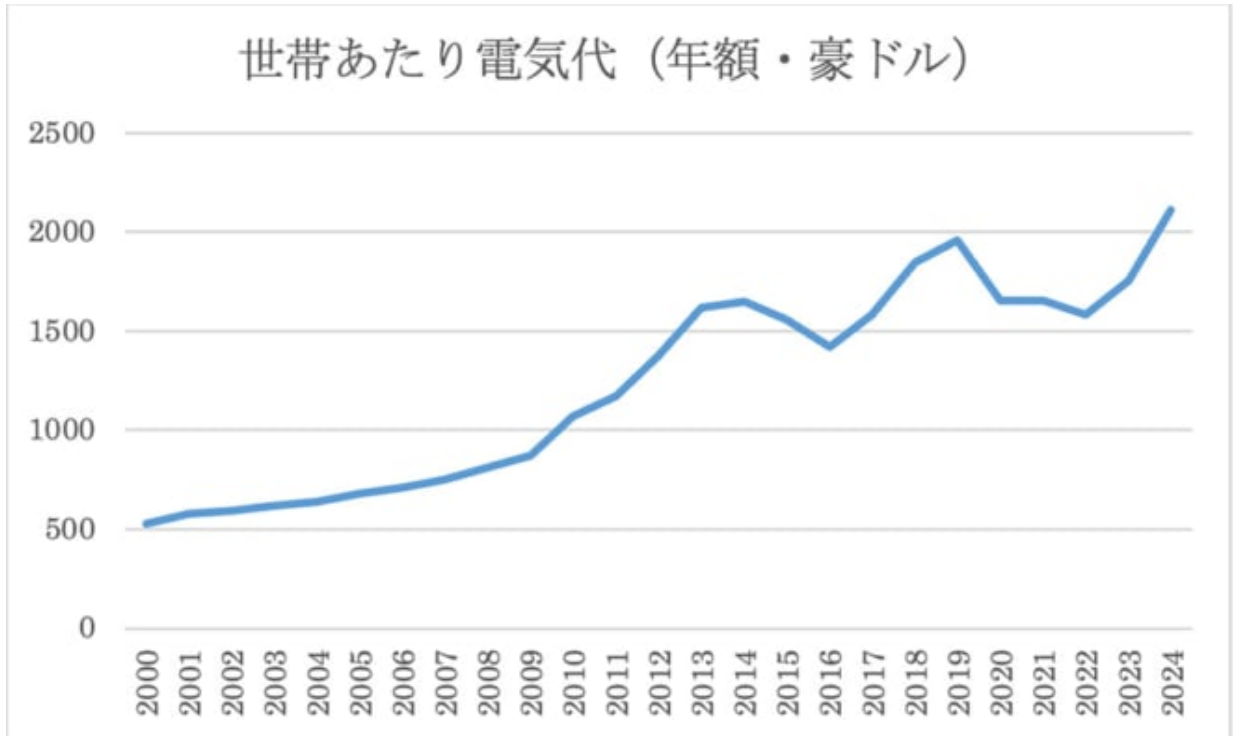
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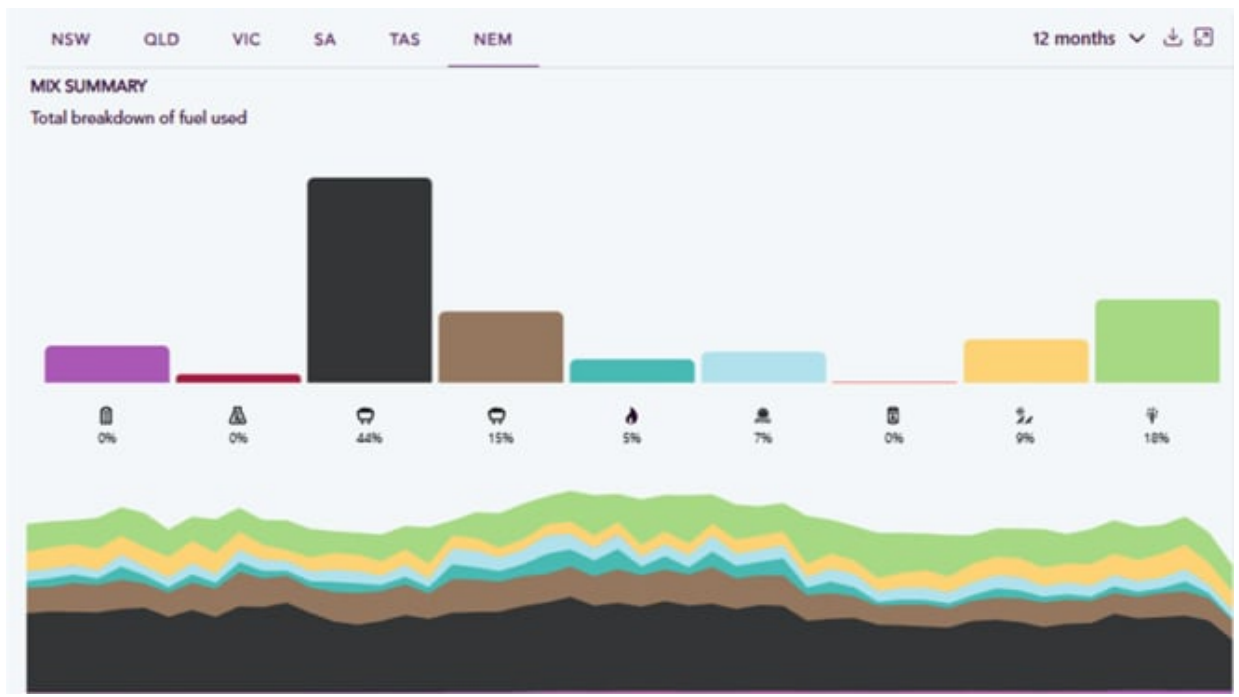
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Update on Australian NetZero efforts

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