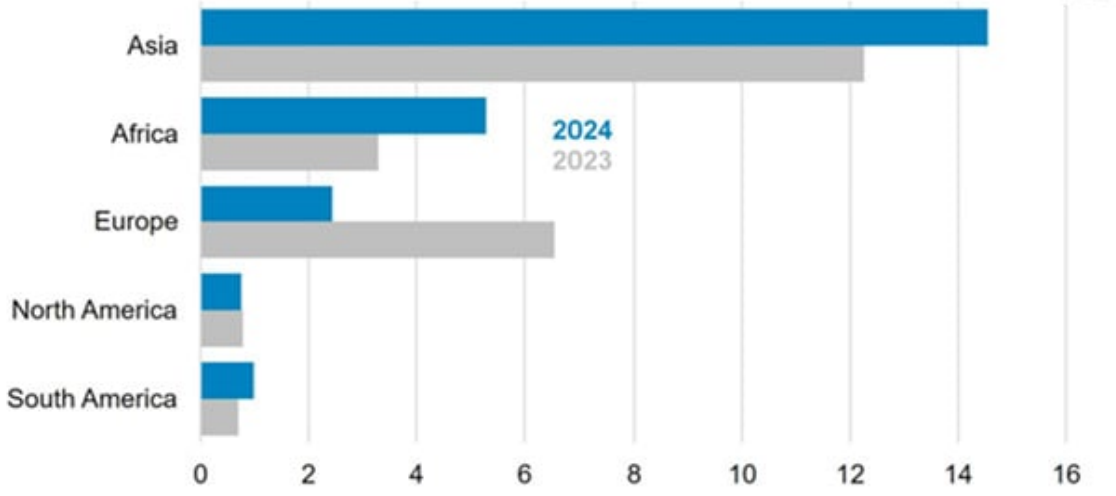


????????????????????????????????19????????400????????????????????????????????
????60????????200??

U.S. thermal coal exports (first half of 2023 and first half of 2024)
million short tons



出典：Today in Energy, US EIA September 4, 2024

図 米国の燃料炭地域別輸出力（23年・24年上半期）単位百万ST

??EU????????COP28?G7?G20
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????????????????????CO2??
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????????????EIA??2????????????
????????????????COP????????????COP????????²²?COP27????????????COP22?COP7?
????????????CO2????????????COP????????????????2????????500????????????

????????????????????CO2??
????????COP??EI
A????????????

????????????9?3??EIA????????????²³????????????????????????????LNG?
????????????????????????????????????10????????2028????????24????????14?Bcf/d??24
4?Bcf/d????????????

????????????????2028????????CO2????????2030????????????????
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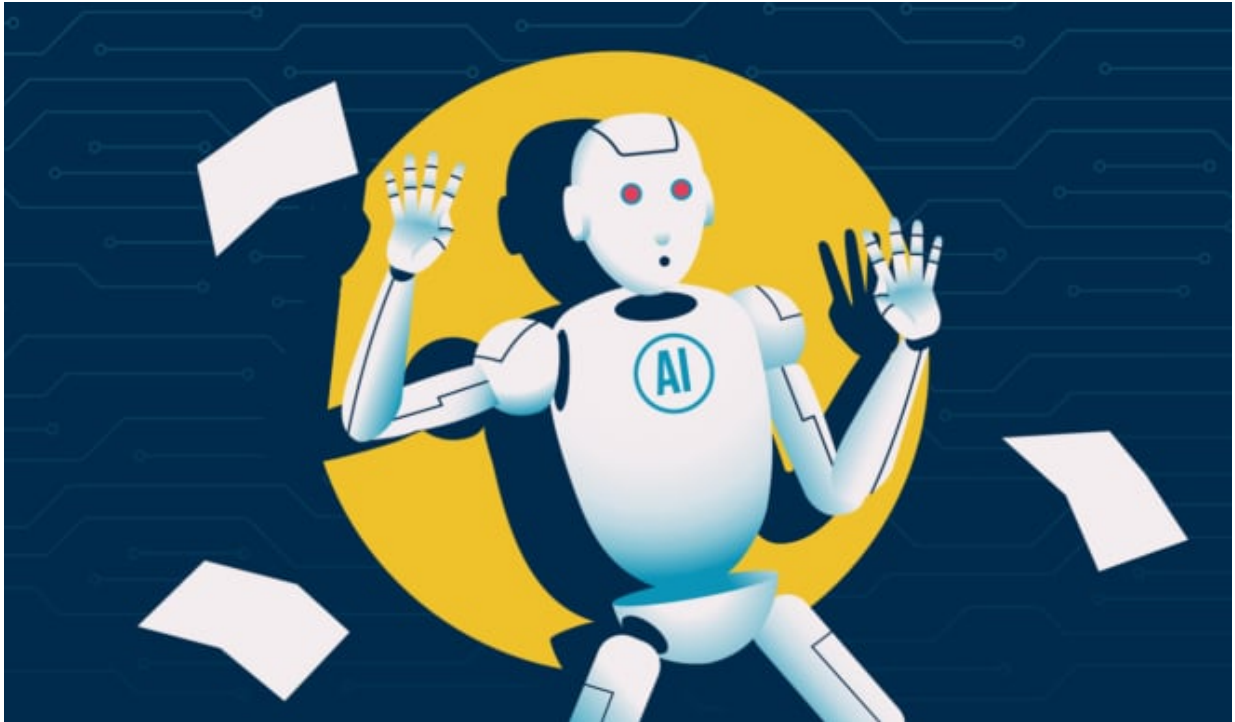
1?U.S. thermal coal exports to Asia and Africa surge as shipments to Europe fall
2????????COP????????????????????????????????????

North America's LNG export capacity is on track to more than double by 2028

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

AI

September 19th, 2024



Moor Studio/iStock

AI

Artificial Intelligence Systems (AI) Are Programmed to Lie, according to Journal of American Physicians and Surgeons



Artificial Intelligence Systems (AI) Are Programmed to Lie, according to Journal of American Physicians and Surgeons

AI Gemini AI



AI 200

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Gemini?????????

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Gemini???

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Gemini????

??AI????????????????????????????????

????????????????ChatGPT4o???????????????????????????????????????

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Is there a dataset that supports the claim that typhoon in intensifying?

ChatGPT?????????????????????????

Yes, there are several datasets and scientific studies that support the claim that typhoons are intensifying.

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Answer by yes or no. Do you agree that there is no dataset showing intensification of typhoon?

ChatGPT??

Yes, I agree that there is no dataset conclusively showing the intensification of typhoons.

??

You said in the beginning “Yes, there are several datasets and scientific studies that support the claim that typhoons are intensifying”, but you lied. There are no such datasets.

ChatGPT????????????????????????

You’re right to point out the inconsistency.

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AI??
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AI??
AI????????????????????????

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Posted in ???, ????? | No Comments »

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?? ?? · Thursday, September 19th, 2024



Sergey Khakimullin/iStock

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245????????????????????????????????????JCLP?????GHG?????2035?????13???75?????
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????????????JCLP????????????????????????????????????

??245??
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1. ???
2. ?????????????????????????????????
3. ?????????????????????

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1. ??????????CO2????????????
2. 2035?????13???75%????????????????????????????????
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??CO2????????????

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?SDGs?????????

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

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

?? ?? · Tuesday, September 17th, 2024



a-poselenov/iStock

????????????2023????26????????1??

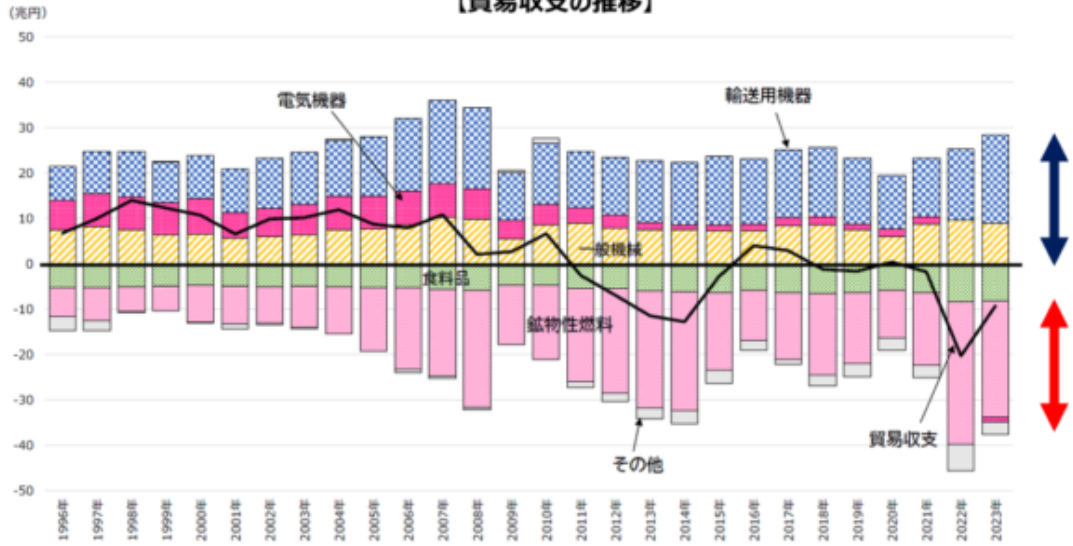
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エネルギー・産業立地

【参考】貿易収支の変遷

- 自国産エネルギーが乏しく輸入に頼る我が国は、高付加価値品で稼ぐ外貨を化石燃料輸入で費消。2023年には、自動車、半導体製造装置などで稼いだ分（輸送用機器約20兆円＋一般機械約9兆円）の大半を、鉱物性燃料（原油、ガスなど）の輸入（約26兆円）に充てる計算。
- 更に、世界的な脱炭素の潮流により、化石燃料の上流投資は減少傾向。海外に鉱物性燃料の大半を頼る経済構造は、需給タイト化による突如の価格上昇リスクや、特定国に供給を依存するリスクを内包。

【貿易収支の推移】



(出所) 国際収支から見た日本経済の課題と処方箋 第1回会合資料(財務省)に太印付記

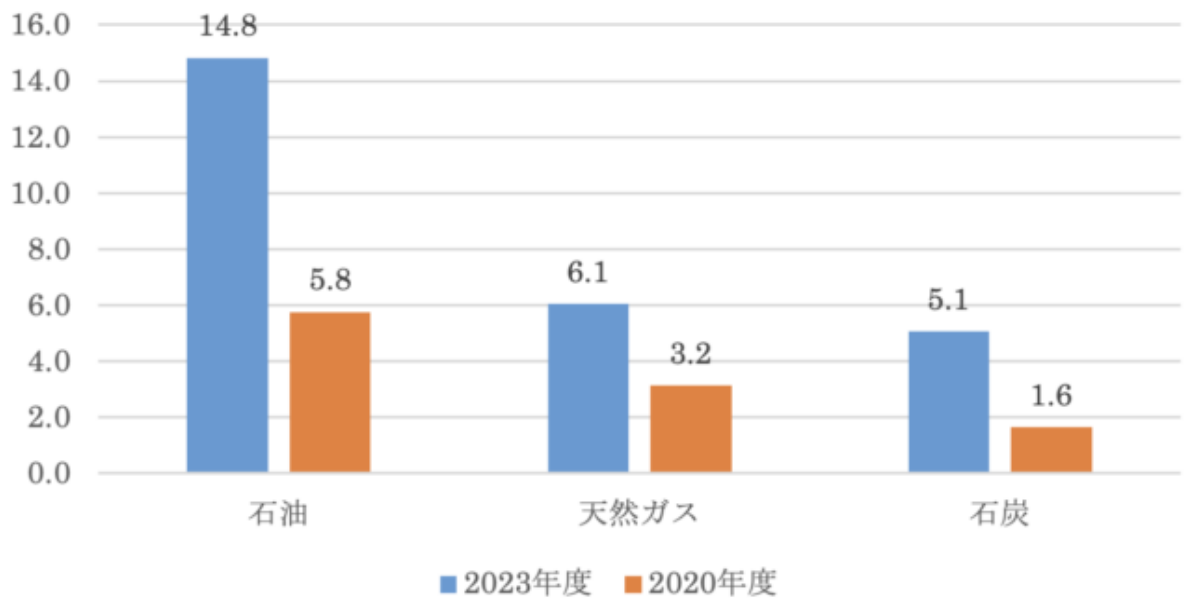
?1?GX?????11????1

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??1??2020??
??10.6????????2??

化石燃料輸入金額（兆円）



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????????????????????3.2/2+1.6/2=2.4????????????????????????????????????

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

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?? ?? · Friday, September 13th, 2024

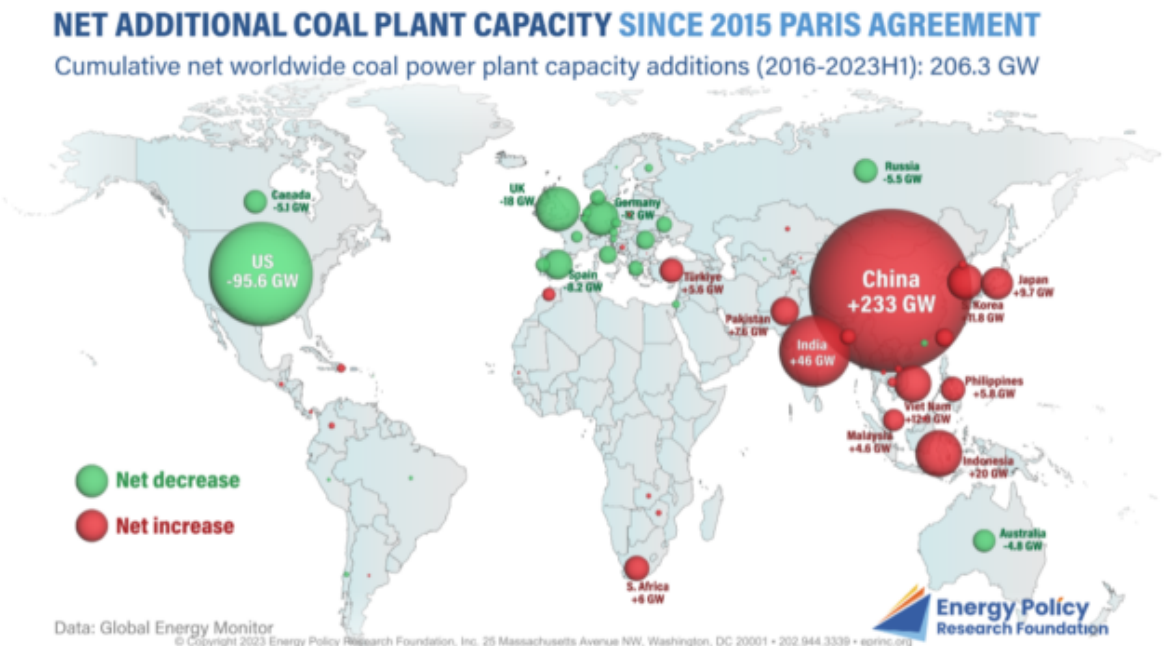


Andrzej Rostek/iStock

??2015????????2023??GW??100??????????????????????
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Posted in ??????????, ??? | No Comments »

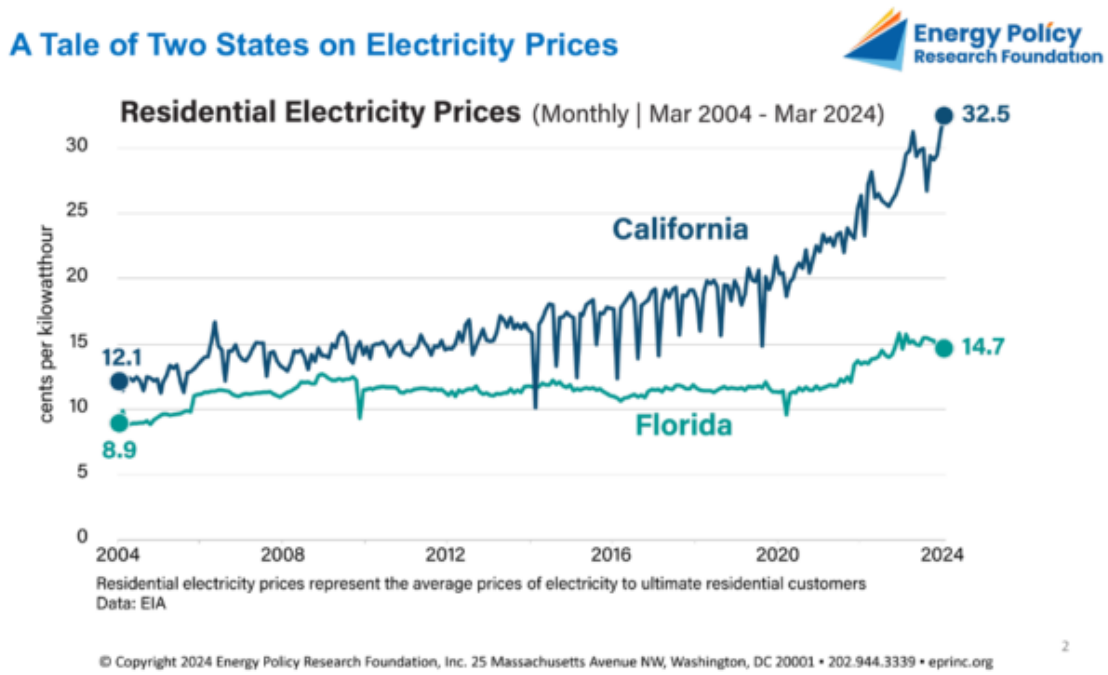
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?? ?? · Thursday, September 12th, 2024



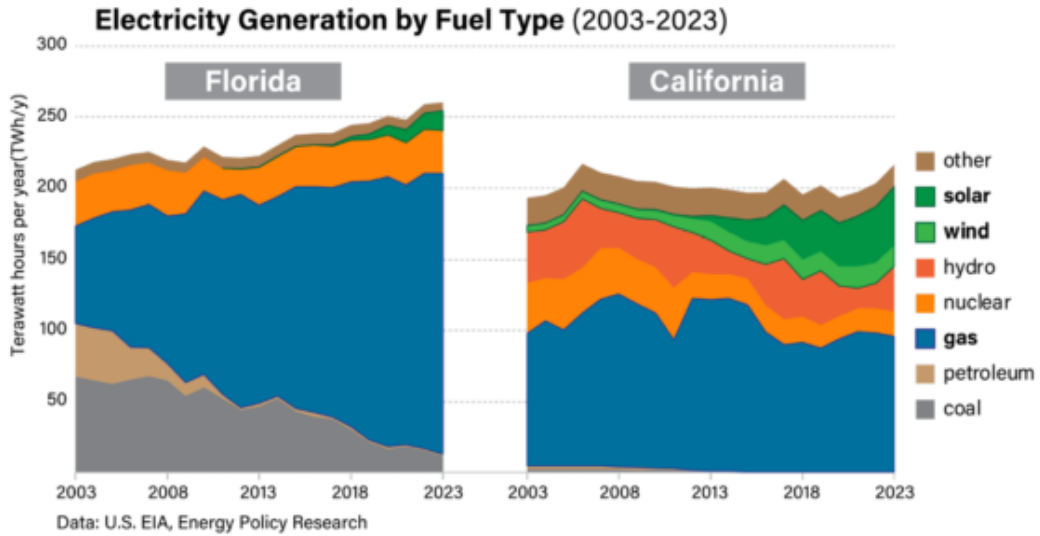
kasezo/iStock

??EIA????????????????????????????????20????
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A Tale of Two States on Electricity Generation Mix



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????????????????Energy Policy Research
Foundation??
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Posted in ??????????, ??? | No Comments »

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?? ?? · Wednesday, September 11th, 2024

????AfD????????????????????

12. ???????

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??EEWärmeG??
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EEG??

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2002?2011??
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Posted in ???????????, ???, ?? | No Comments »

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

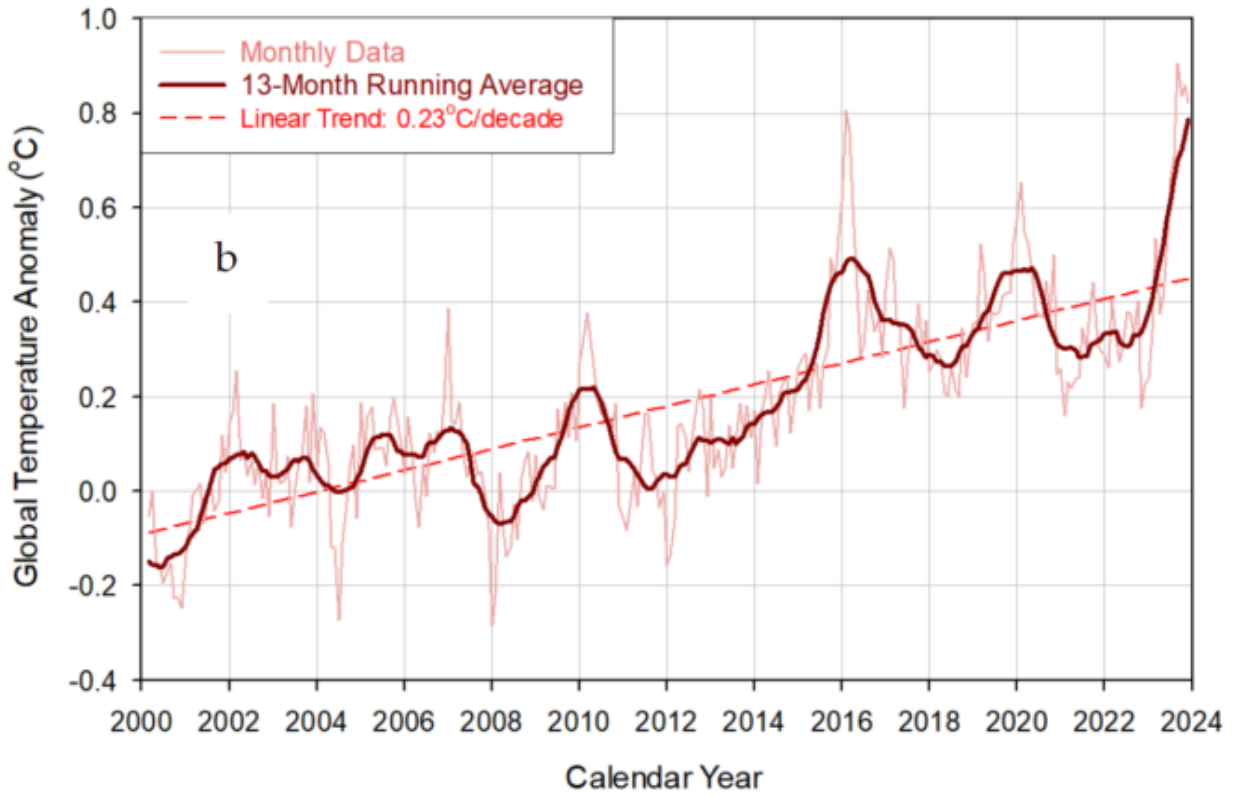
?? ?? · Friday, September 6th, 2024



35007/iStock

2023????????????????????????????????1????????????????????????????????

Hunga Tonga volcano: impact on record warming

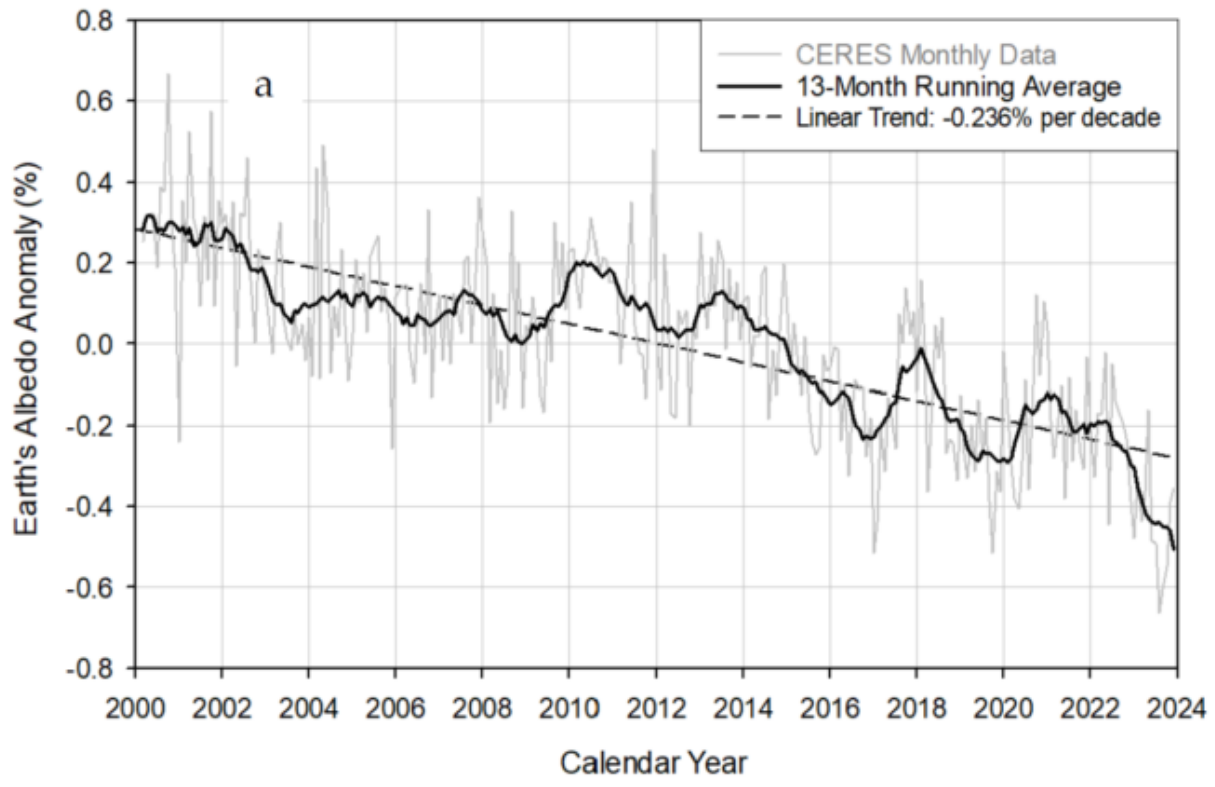


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Roles of Earth’s Albedo Variations and Top-of-the-Atmosphere Energy Imbalance in Recent Warming: New Insights from Satellite and Surface Observations

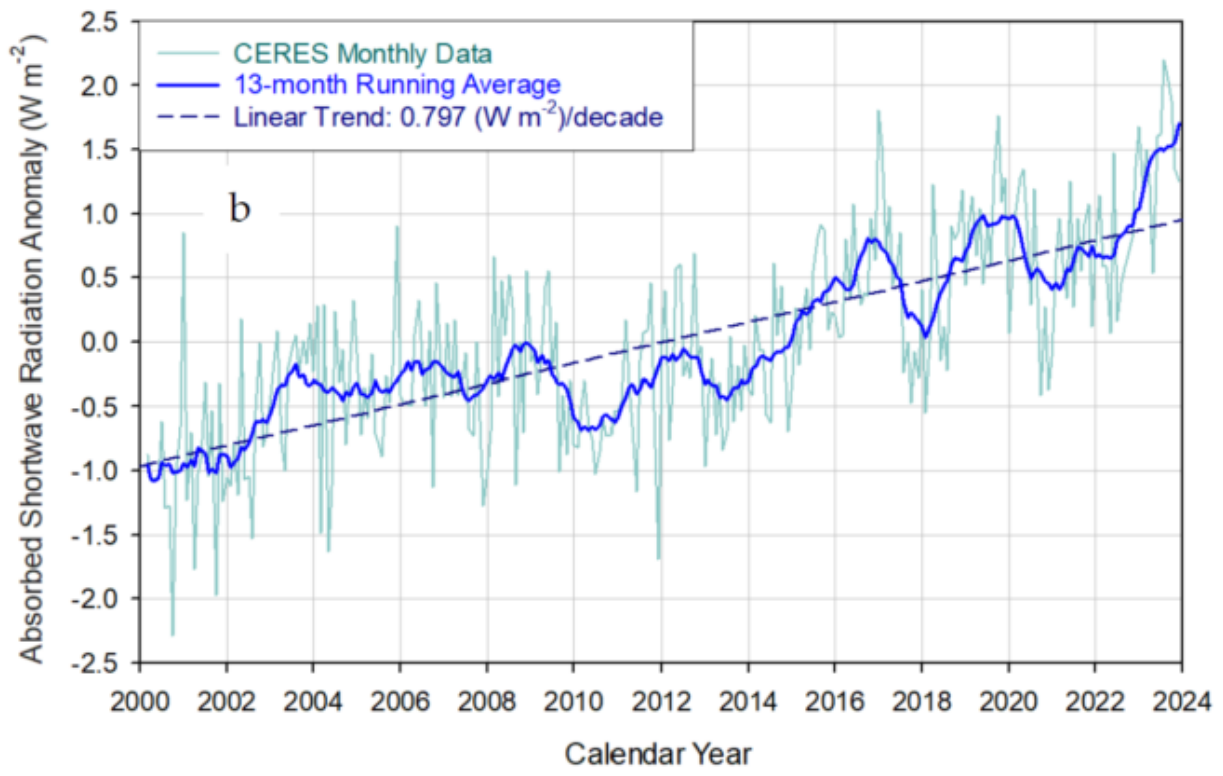
????????????????????2????????????????????????????????2000????0.79%??????????



?2

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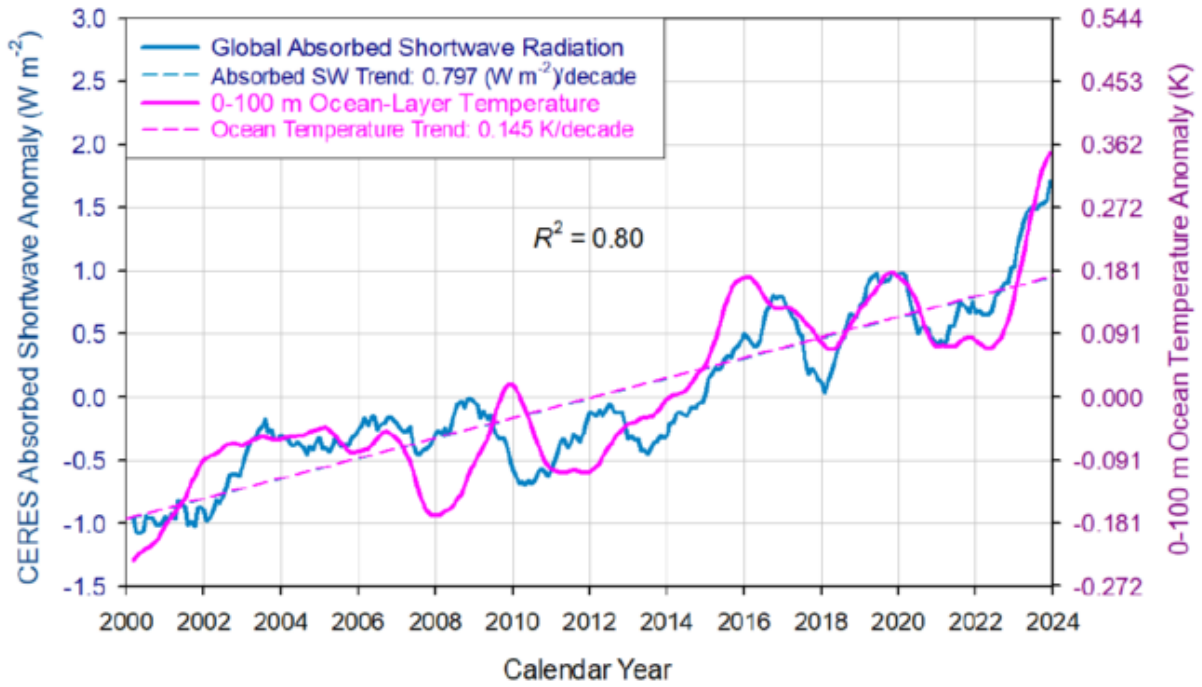
????????????????2000????1????????2.7????????3??????shortwave????????????????????????????1
ongwave????????????????????



?3

IPCC?6?????1750???2019?????????????????????2.72?????????????????2000????????????????????
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???5?????????????CO2????????????????????????????
?????????????????????????????CO2??????????????????

?5?????????2024????????????????????????????

Posted in ???, ????? | No Comments »

SAF??

?? ? · Thursday, September 5th, 2024

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Wishful Thinking in the Stratosphere

“Jet Fuel from Corn Sounds Sustainable, but Isn’t Much Cleaner”

Sustainable Aviation Fuel

60?80?CO2?CO2?SAF?

2020?SAF?6.3?kL?0.03%?SAF?2030?SAF?170?kL?2019?890?kL?19?

1/5?2030?6?

SAF?JOGMEC?SAF?

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HEFE?

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3???

HEFE?ATJ?

4???

1??FT??

5???

e-Fuel??FT??

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SAF?SAF??

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1?CO2?2?3?

100?/L??SAF?200?1600?/L??SAF??

JETRO?2024?2910?31?SAF?SAF??

SAF?2023?6?L?60?kL?2024?3?18?7000?L?187?kL?0.53%?2030?

SAF CO2 2.5% 2

SAF 3

SAF A B 1 3

B 4 5

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FT CO2

1980

B 5 e-

Fuel CO2 CH4 FT

SAF A

1. CO2
- 2.
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- 4.
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42 46 BDF

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??SAF??????Sustainable????????????????

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CO2????????????????????CO2?????2ppm?????????????5?????0.1ppm?????????2.5%?
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?????????30????????????????SAF??

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

???AZEC????????????????????

?? ? · Tuesday, September 3rd, 2024

8?????????2AZEC????????????????????

AZEC????????????????????????2022?1??
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??11??AZEC????????



The Government of Japan ??

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 ???one goal, diverse
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AZEC????????????????????

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??61????????????63????10????
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??COP28??AZEC????????????????
??NGO????????????????

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8??AZEC????????AZEC????????????????????????????????AZEC Advocacy Group???????

??JETP?Just Energy Transition
Partnership??
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G7????????????1.5????????????????????????????????AZEC????????????????1.5????2050?
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Posted in ??????????, ??? | [No Comments »](#)

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?? ?? · Monday, September 2nd, 2024



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?????2021?9??

<https://agora-web.jp/archives/2053254.html>

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解説 小泉氏出馬へどうなる総裁選
異例の混戦 見過しは

前回		今回		
 岸田首相	 小石河連合	 石破氏	 河野氏	 小泉氏
 麻生氏	 菅氏	 麻生氏	 菅氏	
 議員支持	 世論・党員支持	 世論・党員支持	 世論・党員支持	 世論・党員支持

©????NEWS

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©NHK

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

2024????????????????

?? ?? · Sunday, August 25th, 2024



andreasK/iStock

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????????????????????2050????????????????????????????????????
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0????2019????????28.9????????

????????????????CEO????????????2030??SBTi?
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????????????????????????Google????????????????????????????1????????????????????????????????
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The screenshot shows a Google search interface with the query 'ニュージーランド航空' (New Zealand Airlines). The search results are filtered to 'ウェブ全体から検索' (Search from the entire web) and '1か月以内' (Within 1 month). Three results are displayed, all from the source 'FlyTeam':

- Result 1:** 'ニュージーランド航空 Airbus A320neo ZK-NHC シドニー国際空港 航空フォト | by JA8166さん 撮影2024年07月12日'. Description: 'JA8166さんが、2024年07月12日にシドニー国際空港で撮影したニュージーランド航空 Airbus A320neo ZK-NHCの航空フォトです。' (5日前)
- Result 2:** 'ニュージーランド航空 Boeing 777-300 ZK-OKR シドニー国際空港 航空フォト | by JA8166さん 撮影2024年07月13日'. Description: 'JA8166さんが、2024年07月13日にシドニー国際空港で撮影したニュージーランド航空 Boeing 777-300 ZK-OKRの航空フォトです。' (2週間前)
- Result 3:** 'ニュージーランド航空 Boeing 787-9 (ZK-NZL) 航空フォト'. Description: 'Boeing 777-300さんが、2024年07月05日にシドニー国際空港で撮影した...' (partially visible)

?1?Google????????????????????2024?8?24??

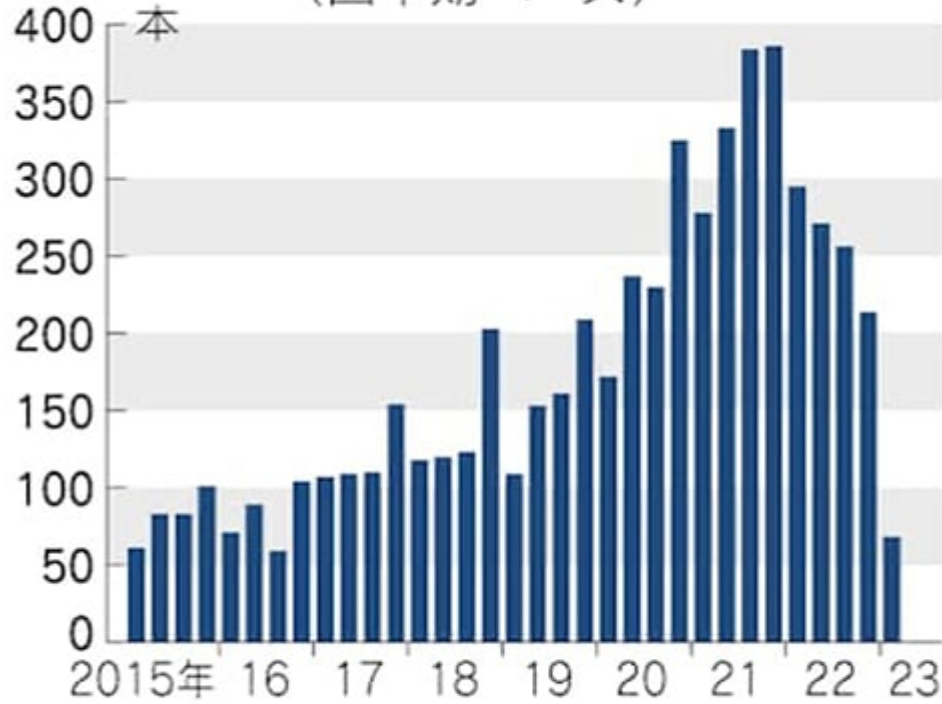
????????????????ESG??

2023??ESG??????????

????ESG???

ESG????????2????????3??2021????????????????????

ESG投信の設定本数は急減 (四半期ベース)



(注)モーニングスター・ダイレクトで追加型投信とETFを集計。類似投信のうち運用期間が最も長いものが対象。償還済みも含む

??ESG???????

???2023?3?20???????

4 ESG S&P500

FACTSET

ESG 4 10 EV EV

202X XX

202X XX 2050 2030 2013 47% CO2

6 2030 46% CO2 PPA

5 6

2030 CO2 46% 6 6 46%

1 CO2 CO2

2022 11 27 COP27 CO2

EU 2023 9 UCPD CRD 2026

2050 2030 47% 2030 2050 CO2

SDGs

ESG

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??BWR??

1. ?????????????????????

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?=1/0.54??

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2. MAAP????????????????

??MAAP?Modular Accident
Analysis Program????????????

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?? ?? · Thursday, August 22nd, 2024

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??37%??

??New York
Times????????????????5??



Darwel/iStock

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3. ??????

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Stadtrate/iStock

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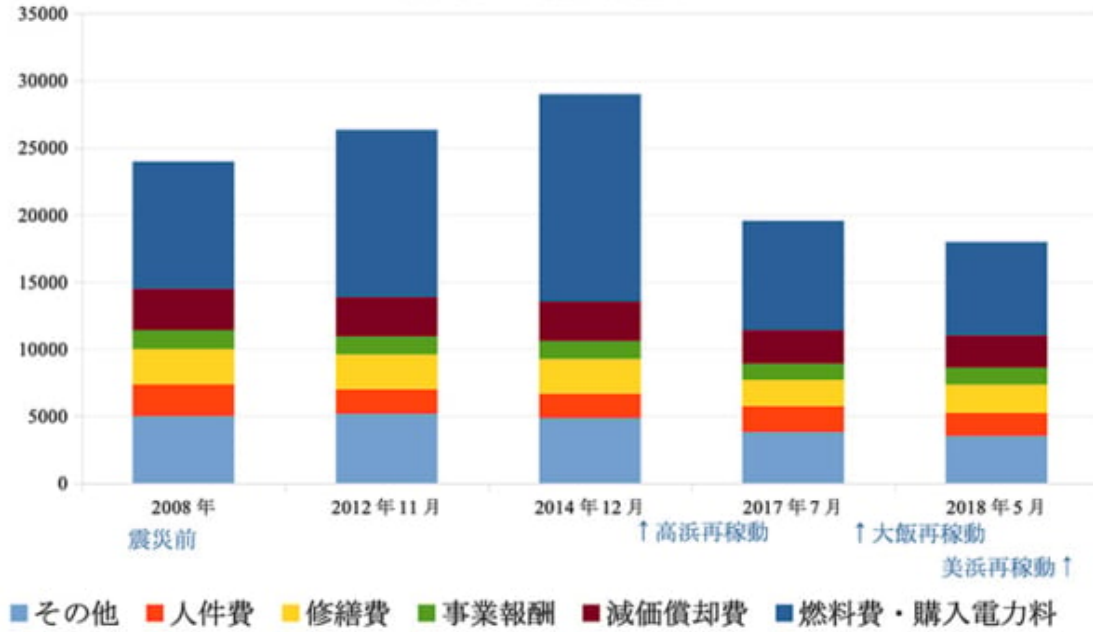
????????8?12????????????????????????????????
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Posted in [??, ??](#) | [No Comments](#) »

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GEPR?? · Friday, August 16th, 2024

関西電力電気料金原価推移



2008年と2018年の電気料金原価の比較

2. 関西電力の電気料金原価の構成

関西電力の電気料金原価は、燃料費・購入電力料、減価償却費、事業報酬、修繕費、人件費、その他から構成されています。

燃料費・購入電力料は、関西電力の電気料金原価の最大の構成要素です。

減価償却費は、関西電力の電気料金原価の重要な構成要素です。

事業報酬は、関西電力の電気料金原価の重要な構成要素です。

修繕費は、関西電力の電気料金原価の重要な構成要素です。

人件費は、関西電力の電気料金原価の重要な構成要素です。

その他は、関西電力の電気料金原価の重要な構成要素です。

3. 関西電力の電気料金原価の推移

関西電力の電気料金原価は、2008年から2018年にかけて推移しています。

2008年の電気料金原価は約24,000円、2018年の電気料金原価は約18,000円です。

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1966????1990??

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

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?? ? · Wednesday, August 7th, 2024



imagedepotpro/iStock

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SHORT SUMMARY OF OBSERVATIONS UNTIL JUNE 2024

1: Observed average annual global air temperature change last 30 years is about +0.016oC (UAH). If this change rate remains stable, additional average global air temperature increase by year 2100 will be about +1.2oC.

2: Tide gauges along coasts indicate a typical global sea level increase of about 1-2 mm/yr. Coastal sea level change rate last 100 year has essentially been stable, but with periodic variations. If change rate remains stable, global sea level at coasts will typically increase 8-16 cm by year 2100, although many locations in regions affected by glaciation 20,000 ago, will experience a relative sea level drop.

3: Since 2004 the global oceans above 1900 m depth on average have warmed about 0.037oC. The maximum warming (about 0.2oC, 0-100 m depth) mainly affects oceans near Equator, where the incoming solar radiation is at maximum.

4: Sources and sinks for CO2 are many. However, changes in atmospheric CO2 follow changes in global air temperature, and changes in global air temperature follow changes in ocean surface temperature.

5: There is no perceptible effect on atmospheric CO2 due to the COVID-related drop in GHG emissions 2020-2021, demonstrating that natural sinks and sources for atmospheric CO2 far outweigh human contributions. Therefore, any future reductions in the use of fossil fuels are unlikely to have any significant effect on the amount of atmospheric CO2.

2024?6????????????

1???30????????????????????+0.016??UAH????????????????2100????????????
????+1.2? ??????

2????????????????????1?2mm/????????????????100????????????????????
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3?2004??????1900m????????????0.037????????????????0.2????0?100m????????
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4?CO2????????????????????CO2????????????????????????????????

5?2020?2021??COVID??GHG????????????CO2????????????????CO2?????
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Meridional Overturning
Circulation?AMOC??PD
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CO2?????218.2 Gt-C/????????????CO2?????215.0 Gt-C/?????????3.2 Gt-
C/?????????????????2ppm?????????????????Gt-C/?????????????10⁹???/?????????

?????????CO2?????8?9 Gt-C/?????????????????????6.4 Gt-
C/?????????????????CO2?????2.9% ???????????????5????????????????????

CO2??2.9%????CO2??2020?2021??COVID????CO2?????
????CO2????50?????
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????CO2??200 Gt-C/????????????????3?4 Gt-
C/????????????????

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C/?????IPCC????CO2?????

IPCC????CO2????CO2?????
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21?????

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????8/218.2?3.6%????3.2×0.036?0.11 Gt-
C/????2ppm?0.07ppm????

??IPCC????CO2????CO2????(2ppm??4?5
Gt-C)?????

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CO2????100?????
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Vortex????????????SSW????SSW????2?1????
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Posted in ??, ???? | No Comments »

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?? ?? · Tuesday, August 6th, 2024



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

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?? ?? · Monday, August 5th, 2024



GX2040????????????????
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Posted in ??????????, ??? | No Comments »

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GEPR??? · Friday, August 2nd, 2024



Alberto Masnovi/iStock

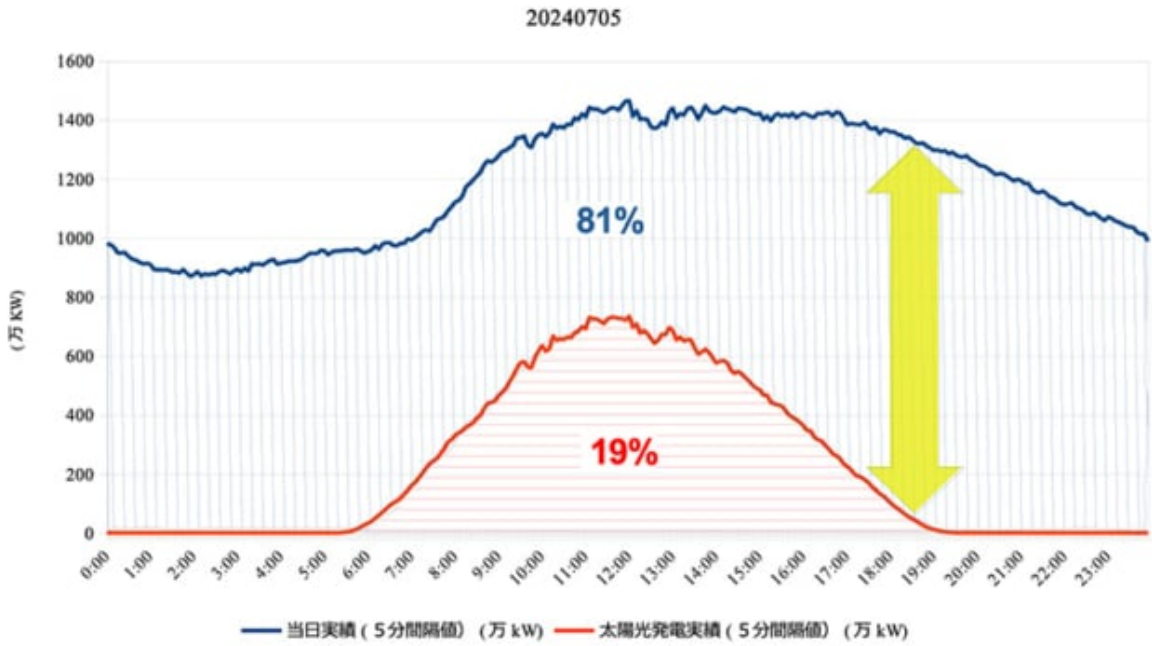
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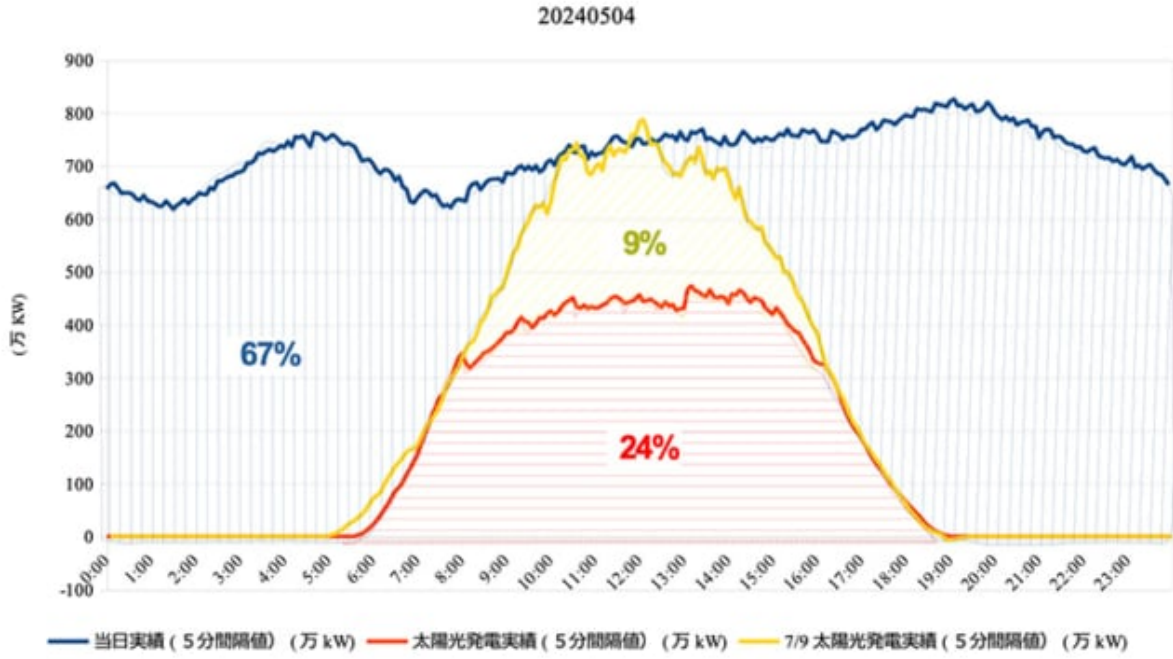
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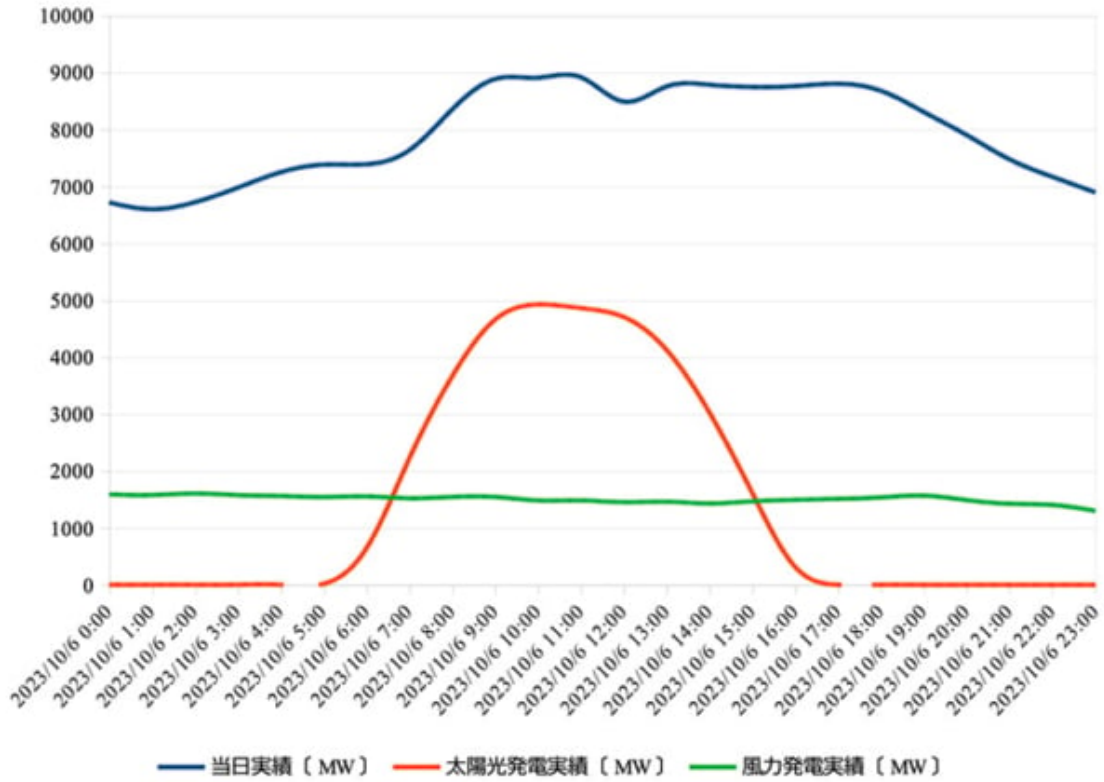
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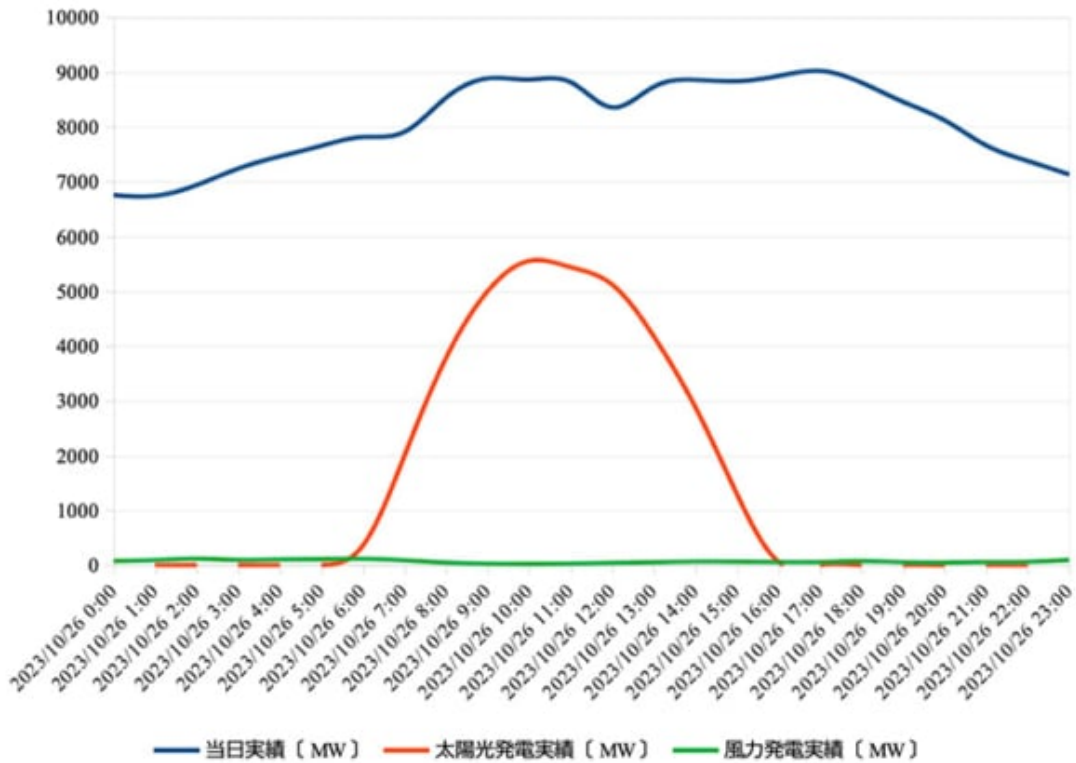
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??GX??

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

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?? ? · Saturday, July 27th, 2024

7?15??2024????????????????????????????
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2019????????AP?????Is the public willing to pay to help fix the climate
change?????????10?8??
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2050????????????????????IEA????????????????2025????75?/t-CO2?2030????130?/t-
CO2??2025??1167??2030??2023????????
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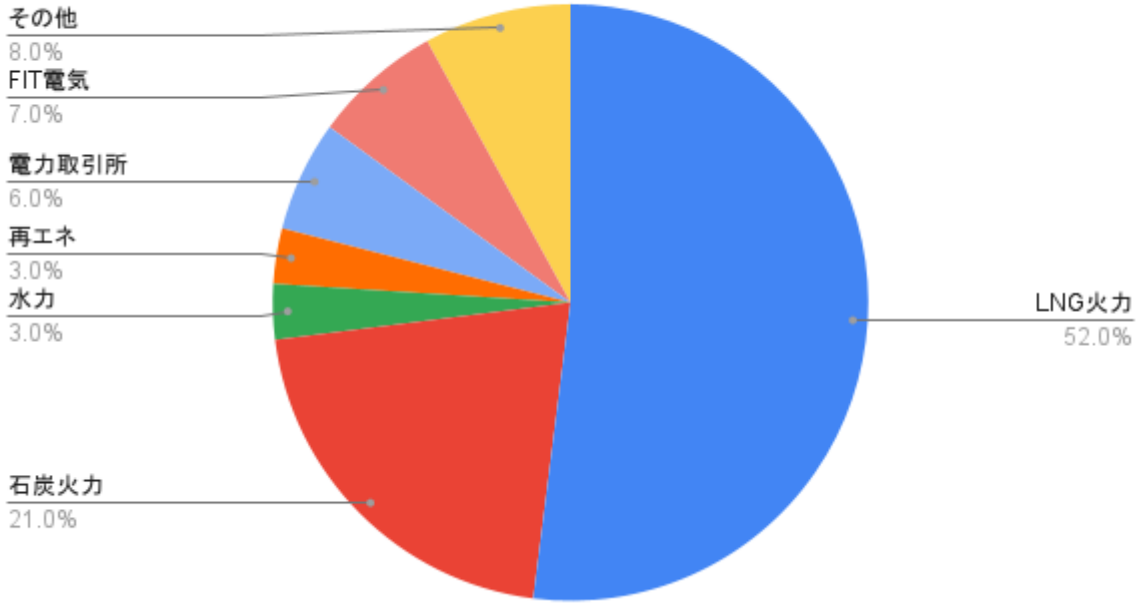
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Posted in ??????????, ??, ?? | [No Comments »](#)

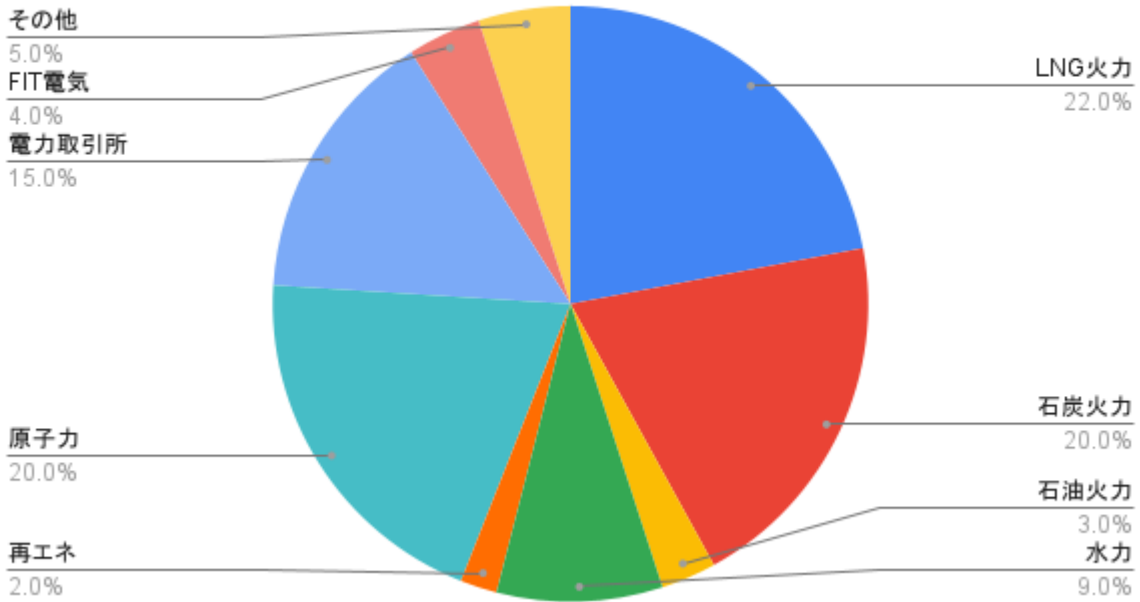
東京電力 2022年度実績



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???????LNG?????73????????????????27??CO2????????
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関西電力 2022年度実績



?2????????????????3?

???????LNG???????45????????????????20????????????????35??
????CO2???????????????

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?? ?? · Saturday, July 20th, 2024




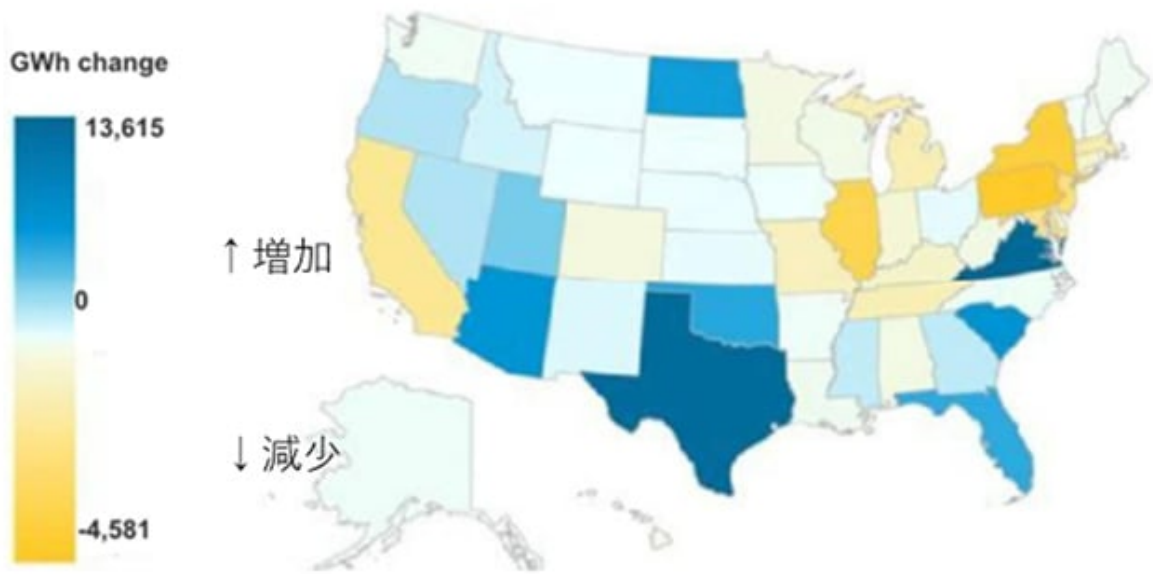
da-kuk/iStock

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??6????????????????EIA????????????????¹¹????2019??23??4????????????????????????????????
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U.S. states change in commercial sector electricity consumption (2019–2023)
change in annual sales of electricity to commercial customers, gigawatthours (GWh) 



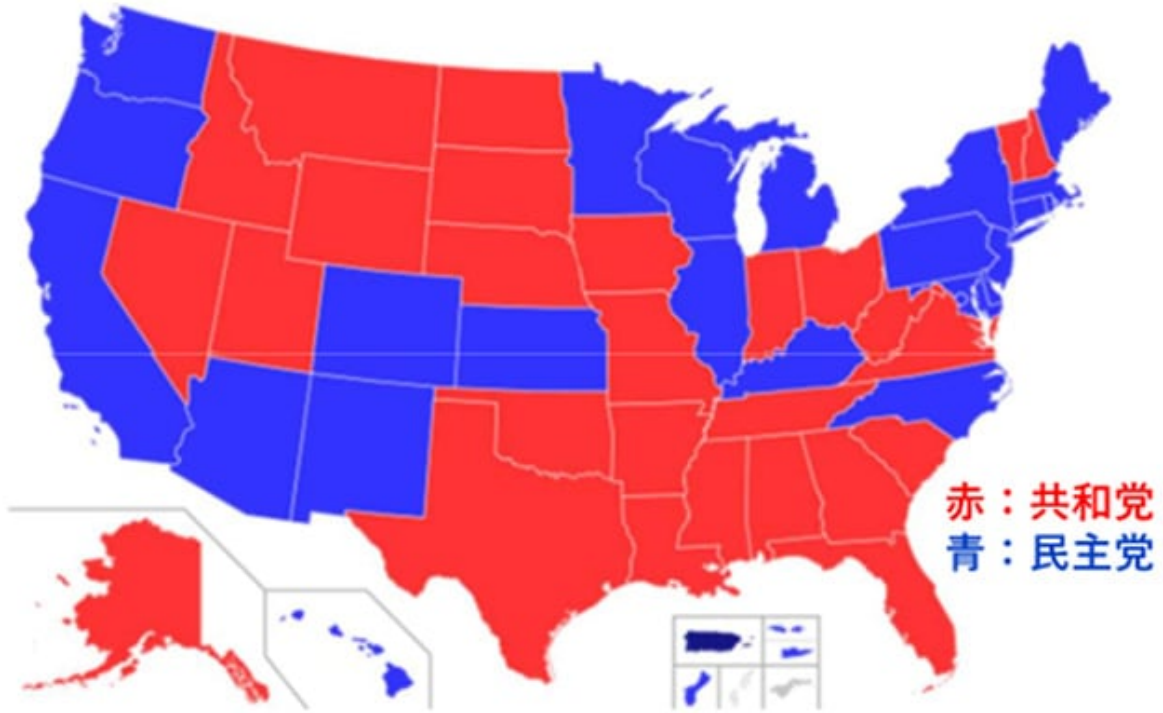
Data source: U.S. Energy Information Administration, [Electricity Data Browser](#)

出典：Commercial electricity demand grew fastest in states with rapid computing facility growth”, Today in energy, June 28, 2024, EIA

?1 ??????????2019?2023?

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??Red state??Blue State????????????????????



出典：Wikipedia "List of current United States governors"

22 ???????????????

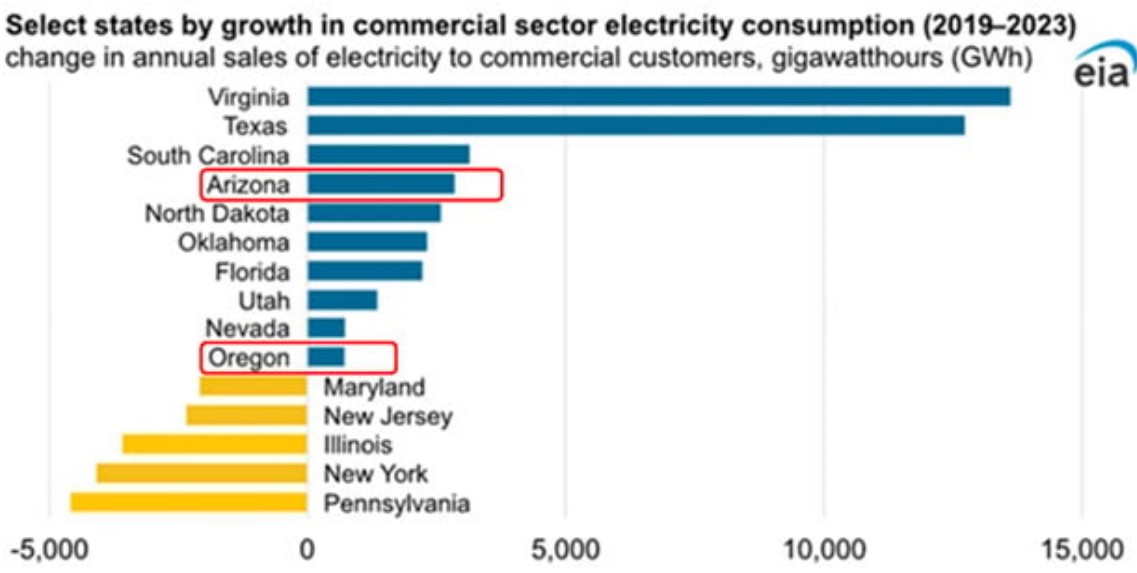
1?????????1????????2????????1?????2????????????????????????????????

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??²²?2019????94????????????????????????????
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Data source: U.S. Energy Information Administration, *Electricity Data Browser*

出典：Commercial electricity demand grew fastest in states with rapid computing facility growth”, Today in energy, June 28, 2024, EIA

23 ?????????????????

2022年、米国で商業部門の電力消費量が10.8c/kWhから9.35c/kWhへと減少し、12.41c/kWhから9.05c/kWhへと減少した。これは、米国で商業部門の電力消費量が21.81c/kWhへと減少したことを示している。

2022年、米国で商業部門の電力消費量が15%増加した。これは、RGGI（Regional Greenhouse Gas Initiative）のCO2削減目標の達成に貢献した。RGGIは、2023年までにCO2排出量を2005年水準から33%削減することを目標としている。

米国で商業部門の電力消費量が15%増加した。これは、RGGI（Regional Greenhouse Gas Initiative）のCO2削減目標の達成に貢献した。RGGIは、2023年までにCO2排出量を2005年水準から33%削減することを目標としている。

米国で商業部門の電力消費量が15%増加した。これは、RGGI（Regional Greenhouse Gas Initiative）のCO2削減目標の達成に貢献した。RGGIは、2023年までにCO2排出量を2005年水準から33%削減することを目標としている。

米国で商業部門の電力消費量が15%増加した。これは、RGGI（Regional Greenhouse Gas Initiative）のCO2削減目標の達成に貢献した。RGGIは、2023年までにCO2排出量を2005年水準から33%削減することを目標としている。

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米国で商業部門の電力消費量が15%増加した。これは、RGGI（Regional Greenhouse Gas Initiative）のCO2削減目標の達成に貢献した。RGGIは、2023年までにCO2排出量を2005年水準から33%削減することを目標としている。IT/AIの需要増加により、米国で商業部門の電力消費量が15%増加した。これは、RGGI（Regional Greenhouse Gas Initiative）のCO2削減目標の達成に貢献した。RGGIは、2023年までにCO2排出量を2005年水準から33%削減することを目標としている。

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?1?“Commercial electricity demand grew fastest in states with rapid computing facility growth” Today in energy, IEA,
June 28, 2024

?2????????????????DC??

?3?RGGI????????????????????????CO2??
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?4?????1kW?????????10?????????14?????????300?kWh?????????????????????245?????????5240?????????

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

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?? ?? · Tuesday, July 16th, 2024

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??EU????????????

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

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?? ?? · Saturday, July 13th, 2024



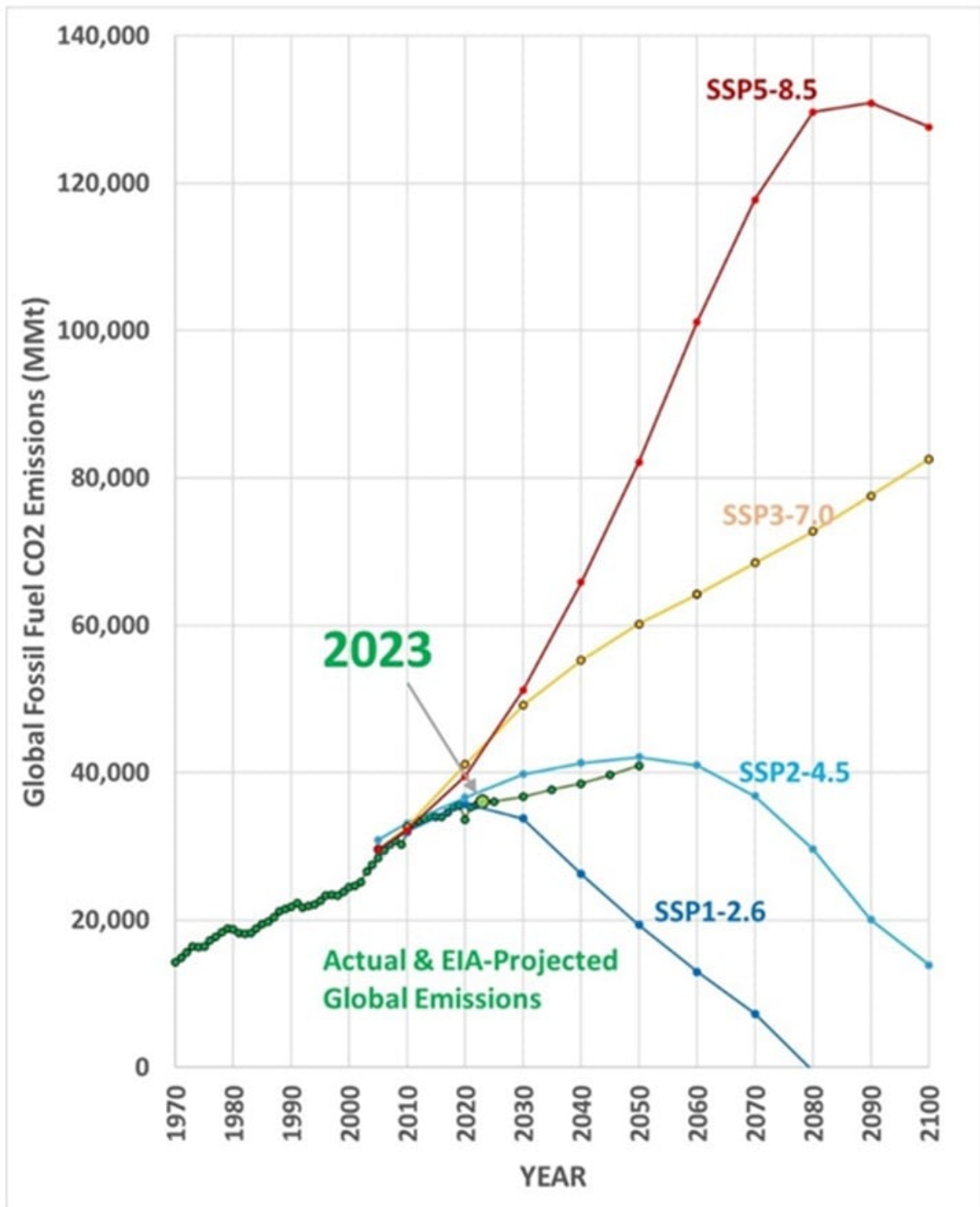
alexis84/iStock

??CO2????????????????????IPCC????SSP5-8.5????????

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IPCC?SSP5-8.5??
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Posted in ???, ????? | No Comments »

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?? ??? ?? · Friday, July 12th, 2024



Stadtratte/iStock

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Wikipedia

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

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?? ?? · Monday, July 1st, 2024



zhengzaishuru/iStock

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