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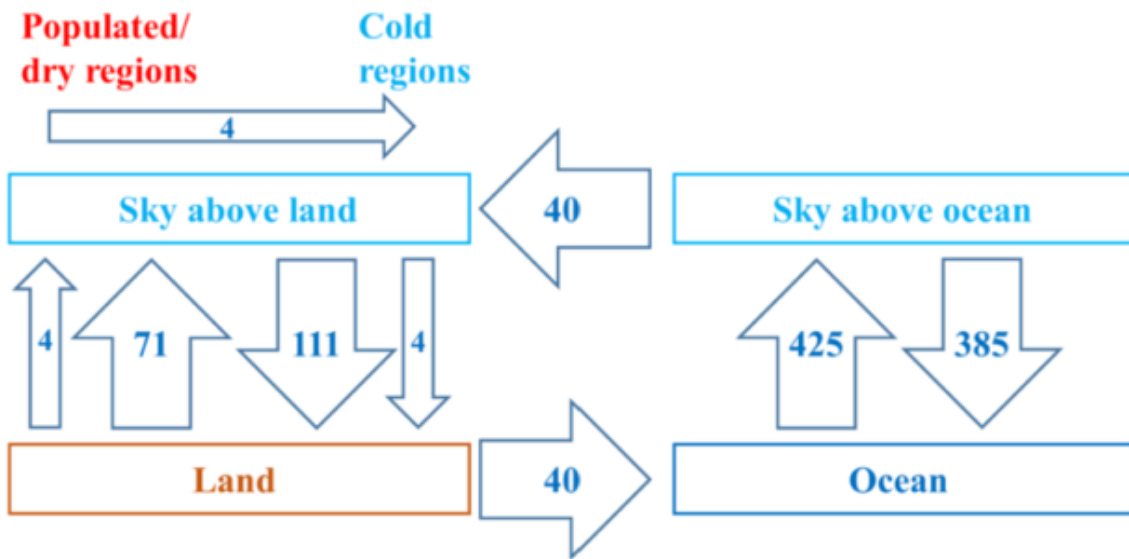
Global Warming and Anthropogenic Emissions of Water Vapor

20????????????????????????????????????24????????????6????????2????3????????????????????????????????
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Posted in ???, ????? | No Comments »

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?? ?? · Friday, October 11th, 2024



da-kuk/iStock

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

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GEPR?? · Friday, October 11th, 2024



eyegelb/iStock

JoNova 80%

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Australian grid risks an overload at lunchtime as solar power floods the system

JoNova

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1????????????5????????????NEM?National Electricity Market



This map was created by Geoscience Australia on: Thursday, 23 February 2017

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

Australia’s Electricity Transmission Lines – Geoscience Australia

NEM 2022 3,758 KW 70

10?KW????20?KWh????????AEMO?Australian Energy Market Operator????????

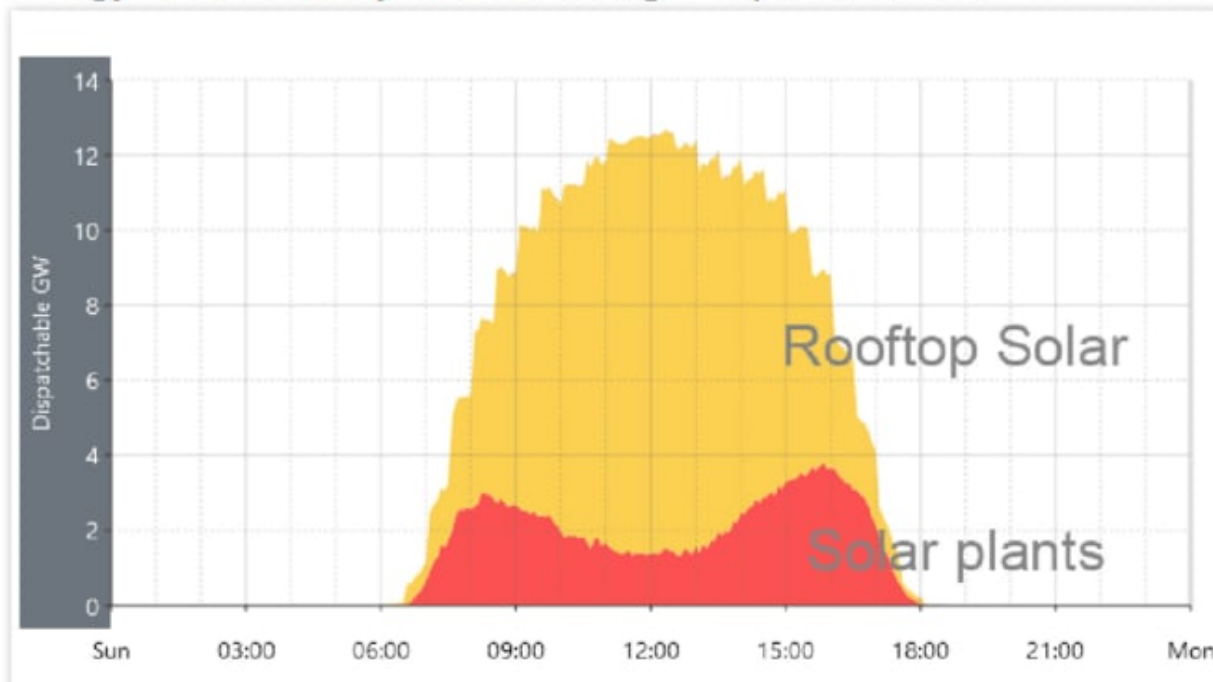
? Quarterly Energy Dynamics Q3 2023??AEMO?Australian Energy Market Operator??

2024?9?5????????????????80?????

Random power glut means 80% of solar plant output was thrown away on Sunday

?2024?9?1????????NEM????????Rooftop Solar????????Solar plants????????

Energy Production by Source During 1 September 2024



?2024?9?1????????

JoNova???????

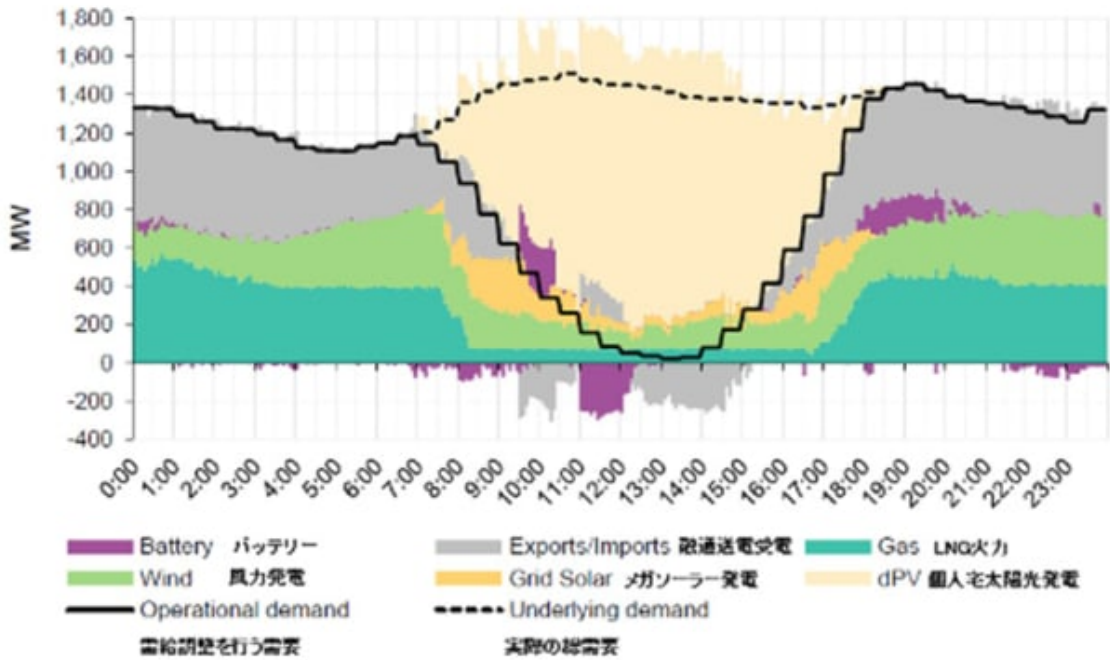
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South Australia demand (line) and generation by fuel type – 16 September 2023



2023年9月16日
 AEMO Quarterly Energy Dynamics Q3 2023

2023年9月16日 NEM2

dPV Rooftop

Grid

Solar 9:00 16:00 12:00 14:00

1

Underlying demand
 Operational demand
 Operational=

1

1

Cumulative installed rooftop solar capacity (kW)



Source: Australian PV Institute / [Get the data](#)

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JoNova????????

4,000km????????????????

JoNova??
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Power Link
SunCable

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1966????1990??

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

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?? ?? · Monday, October 7th, 2024

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The slide contains the following text:

- ルールを守る 日本を守る
- 国民を守る 地方を守る
- 若者・女性の機会を守る
- 激変する安全保障環境から日本を守り抜く
- 物価に負けない賃上げ
- 地方創生の交付金倍増を目指す など

The photo shows a man with glasses, wearing a dark suit, white shirt, and blue striped tie, speaking into a microphone at a podium with ornate woodwork.

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Posted in ???, ?? | No Comments »

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?? ?? · Sunday, October 6th, 2024



artisteer/iStock

2024 6 11 ESG

New Report Reveals Evidence of ESG Collusion Among Left-Wing Activists and Major Financial Institutions

ESG

ESG

11

ESG

2024 6 11

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ESG????????????????????272,294????2,565,258????????????????
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Street?Vanguard?ISS?Glass
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?SDGs????????

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

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?? ? · Friday, October 4th, 2024



CRSHELARE/iStock

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IPCC?6????????????????????????????????50????????1.5????????????????2030????????????????2019??43????????
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- ????19????1850???2019????CO2????68%????81????CO2????
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- ??????5????IPCC????
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- 5????2030????CO2????87Gt-
CO2????NDC????2030????140Gt????53Gt????
1.5????
- ?????2010?19????6?6.3????EU?0.3????
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- COP28?5????2030?3????
26GW????3????0.4????EU????
EU????1,565GW?538GW????3?3?1????
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??1.5?2050????????????????????????????
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Posted in ??????????, ??, ???? | No Comments »

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?? ?? · Thursday, October 3rd, 2024



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

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<https://agora-web.jp/archives/240901014900.html>

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石破茂・新総裁は こんな人

趣味は料理、読書。
特にカレー作りに
自信あり

国民を信じ、勇気と
真心をもって真実を語り、
日本をもう一度、
安全で安心な国に

家族は妻と娘2人

67歳
(1957年2月4日)
生まれ

座右の銘は
「至誠の人、真の勇者」

鳥取県八頭町
(旧郡家町)出身

「首相になってから
「不勉強でした」では済まされない」と、
議員会館の執務室には
いつも書籍が山積み

1986年の
初当選当時は全国
最年少衆院議員

「軍事オタク」
「鉄道オタク」の一面も。
子どもの頃は「車掌さん」に
なりたかった



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

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GEPR??? · Sunday, September 29th, 2024



bombermoon/iStock

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1. ?????????????OCCTO?????????????

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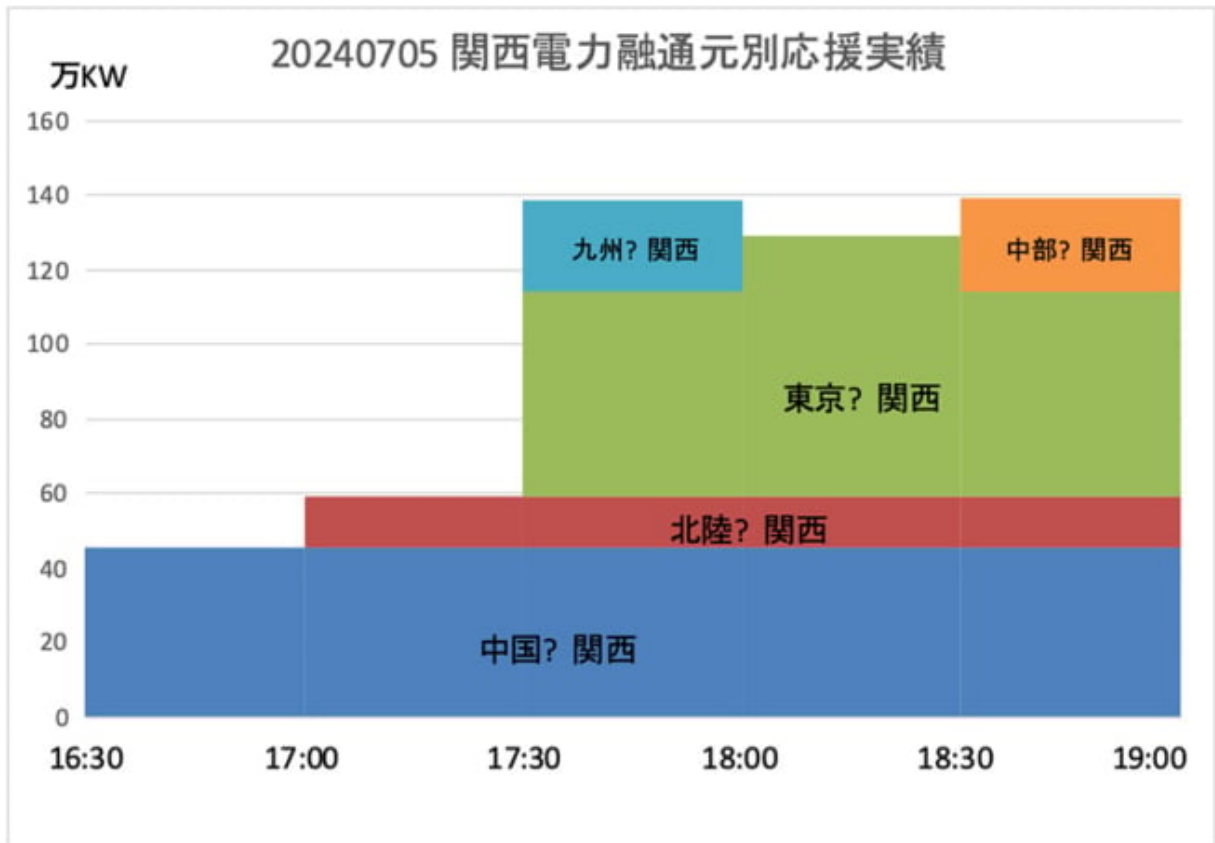
????????????????????OCCTO??
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2024?????6?1????9?20?????30??

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2. 2024775??

????16:30?19:00??5????????????138.7KW????????????????
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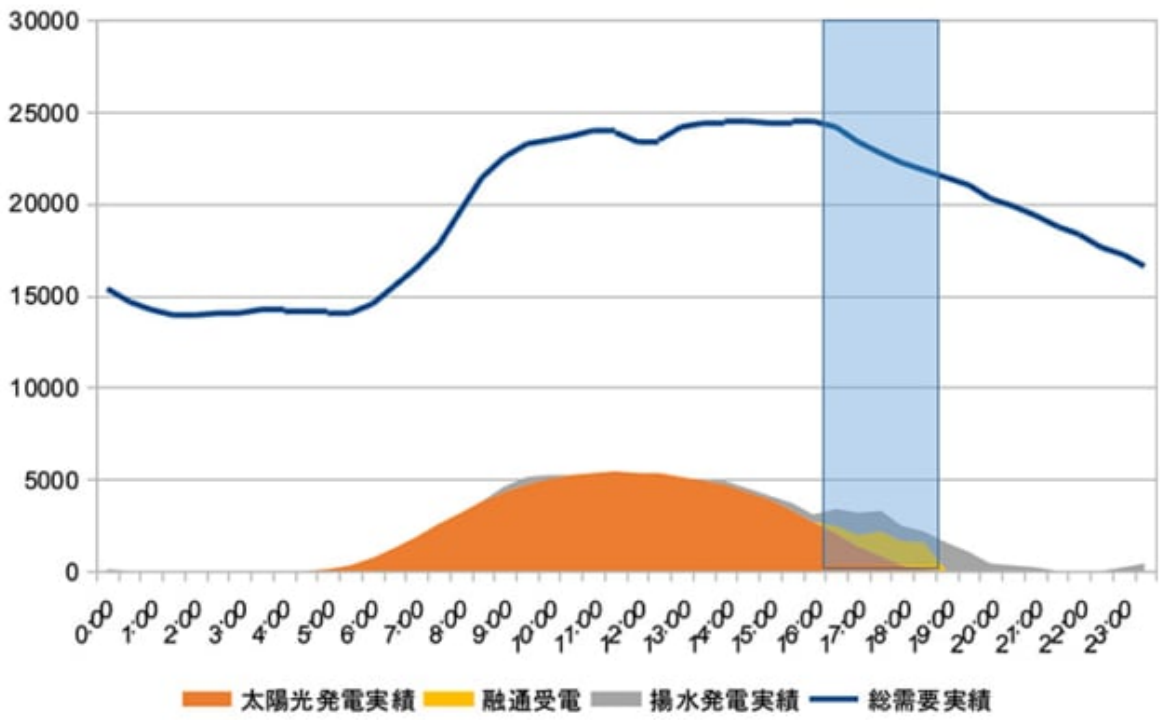


?1?2024775????????????????

????16:30?19:00?2??30????????????????????????????18:00?18:30????????????????????????????
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20240705 関西電力総需要と太陽光発電実績



20240705

16:30-18:00

17:30-19:00

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OCCTO

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JERA

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1966????1990??

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

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?? ??? ?? · Saturday, September 28th, 2024



HUNG CHIN LIU/iStock

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8?22??650????????3??

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CDU??2015?9????????????????????????????????????21?12?
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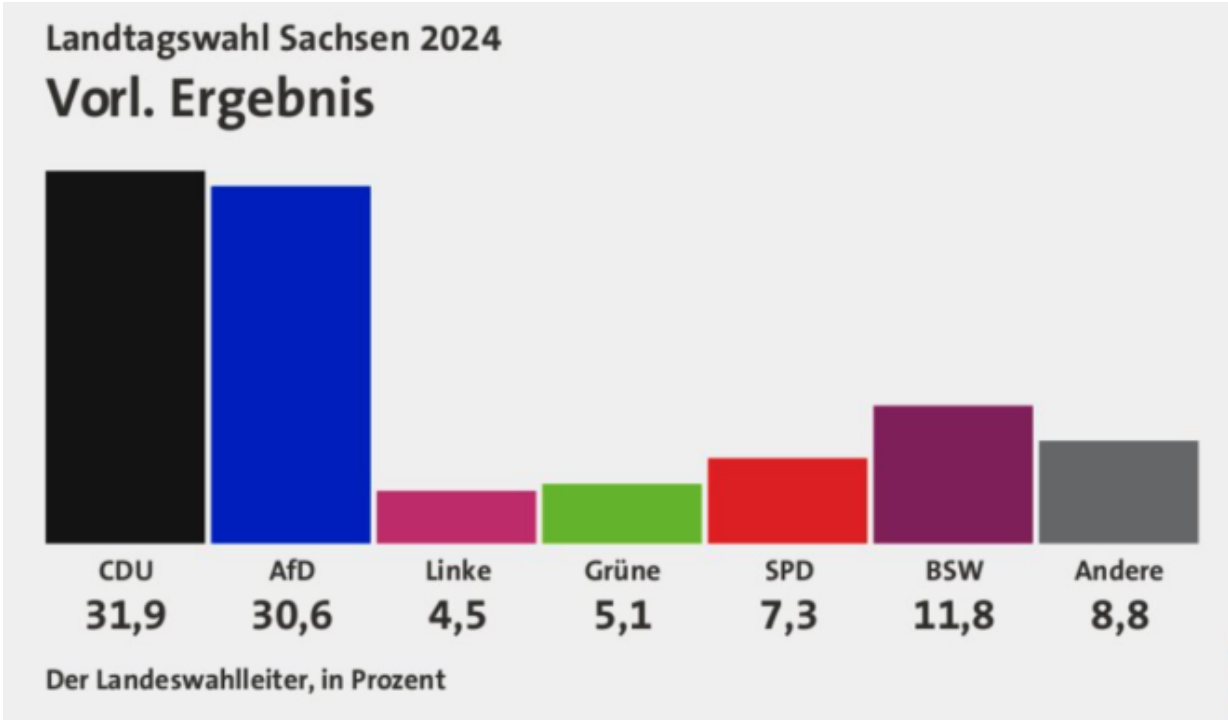
AfD??“????”????????????????????????
?AfD????????????????????????????????

??“?”AfD????????????????????????????
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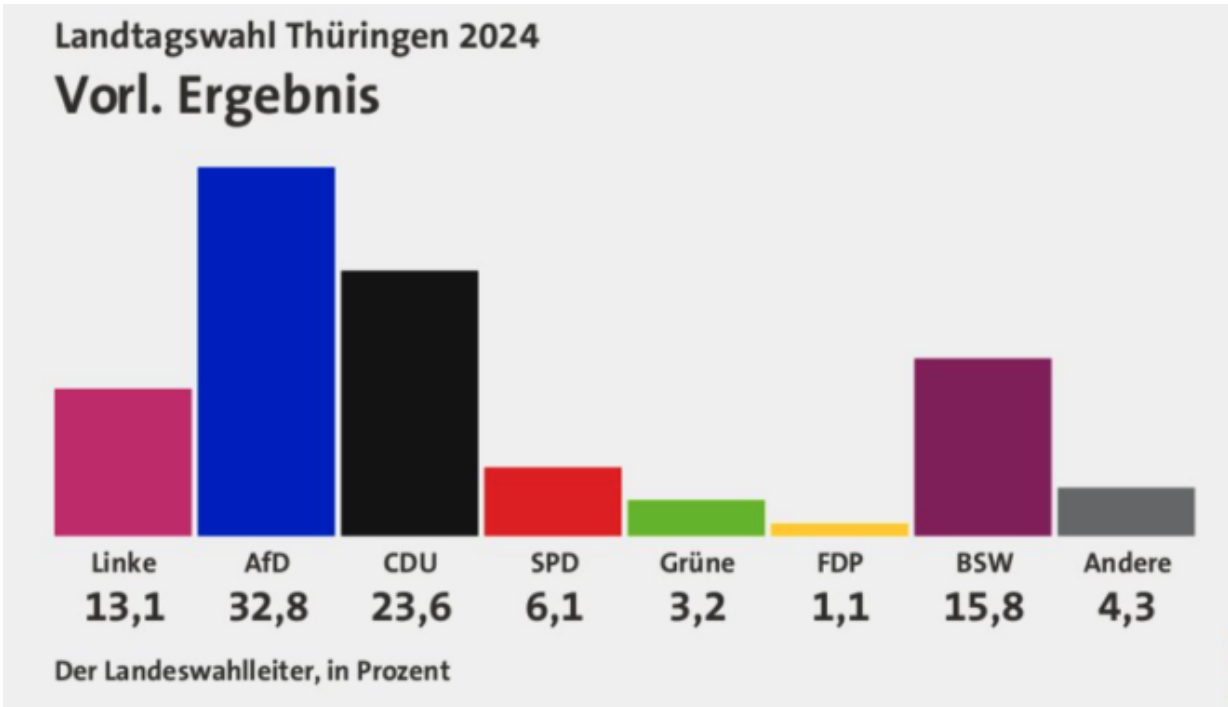
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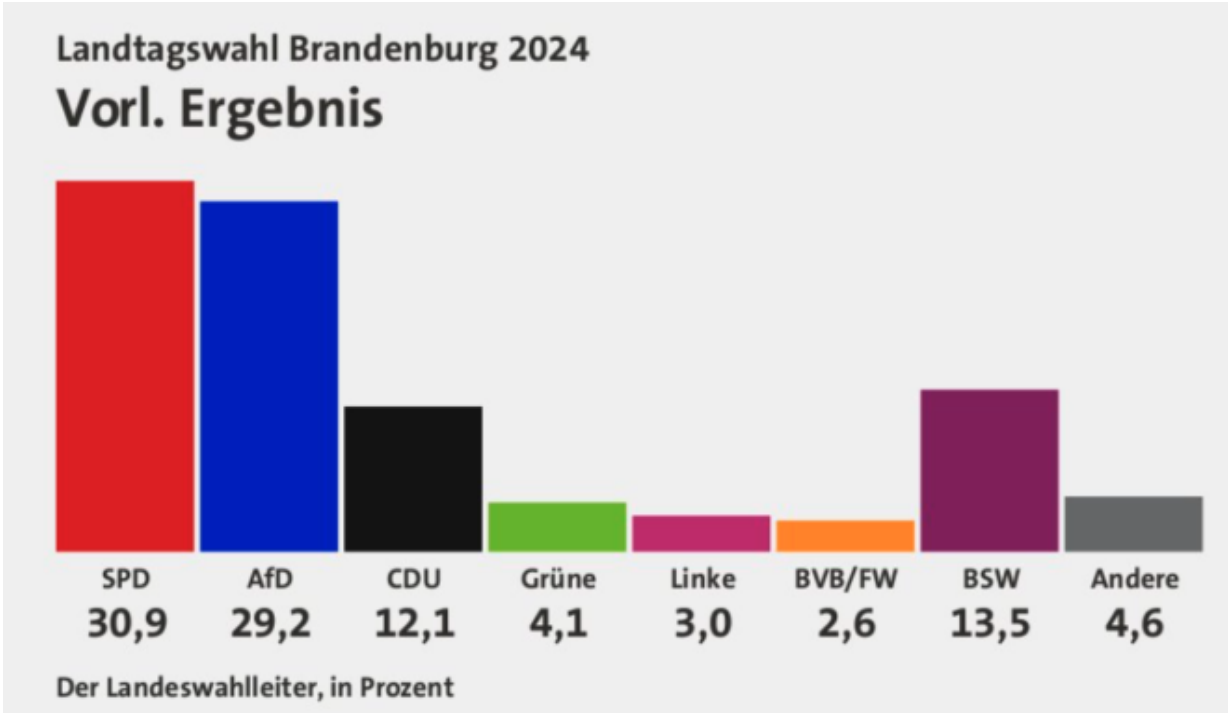
???9?1????????????????????1.3????????????CDU????AfD????1????
????AfD?32.8%????CDU?9.2????????1????????CDU????????1?
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 SPD=???AfD=???????????CDU=???????????Grüne?????Linke=???BSW=?????????????
 ???Das Erste



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 SPD=???AfD=???????????????CDU=???????????????Grüne?????Linke=???BSW=?????????????????
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 SPD=???AfD=?????????CDU=?????????Grüne?????Linke=???BSW=????????????
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EU????????????

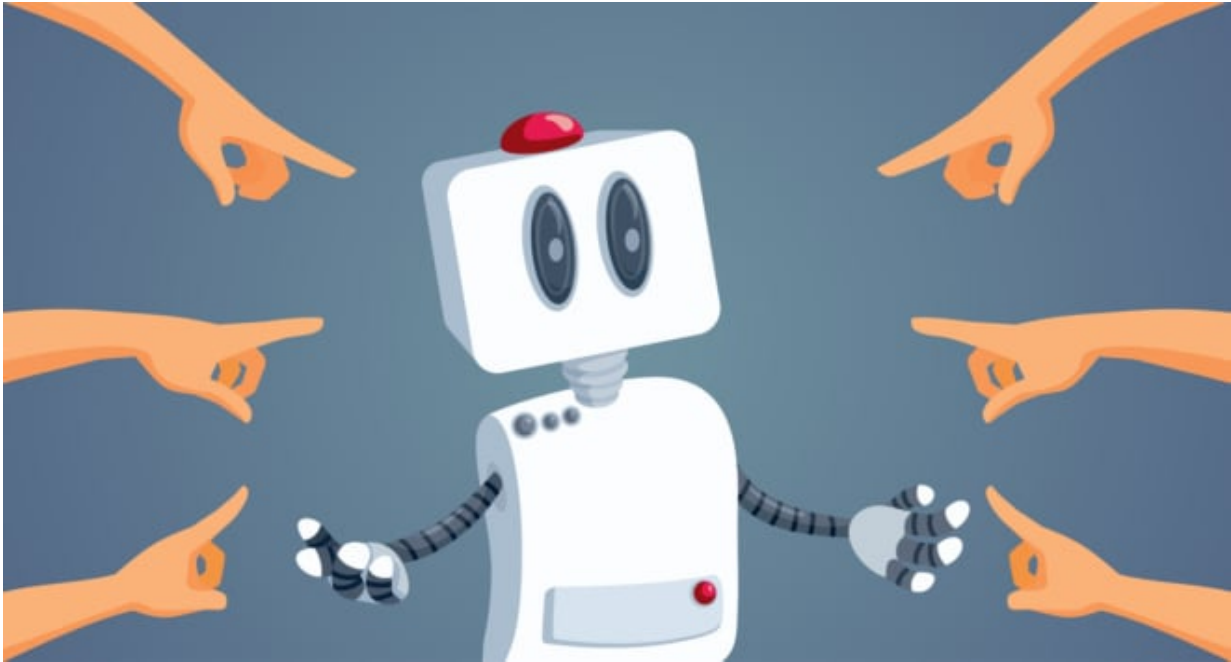
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Posted in ???, ?? | No Comments »

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?? ?? · Saturday, September 28th, 2024



nicoletaionescu/iStock

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

??Jonathan Cohler????????????????????????

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Posted in ???, ????? | No Comments »

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?? ?? · Tuesday, September 24th, 2024



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 zhenfish/iStock

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

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?? ?? · Saturday, September 21st, 2024



CUHRIG/iStock

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?????21?

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??23??24????????????????????????????????????650????240????67??410????????????????
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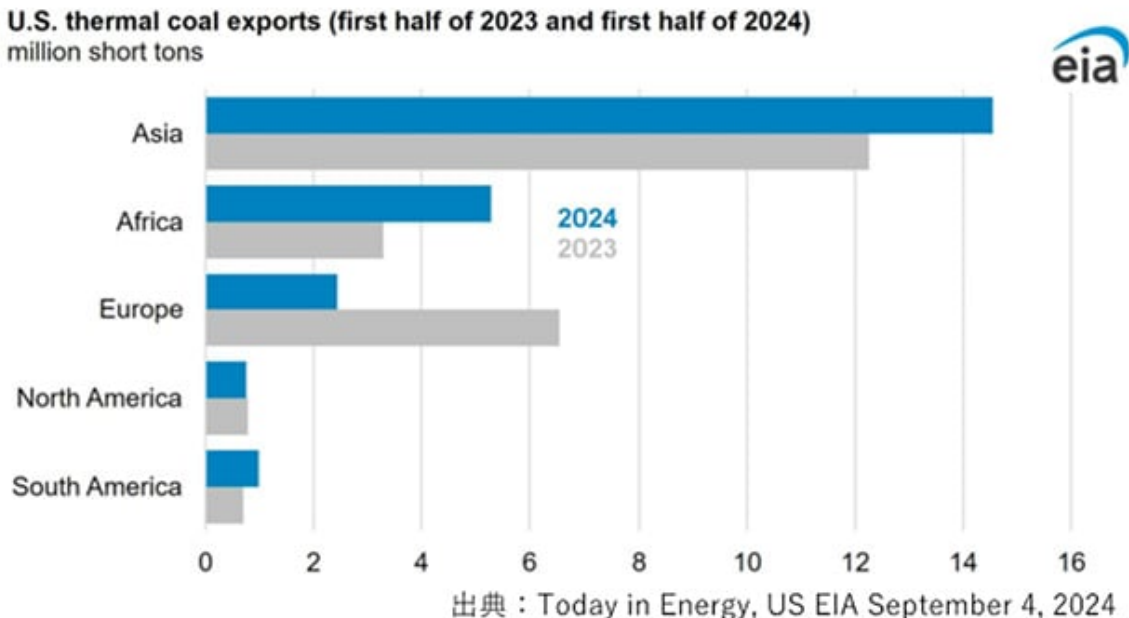


図 米国の燃料炭地域別輸出量（23年・24年上半期）単位百万ST

??EU????????COP28?G7?G20
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????????????EIA????????????????????????????????????2????????????????2??
 ?????????????COP????????????COP????????²²?COP27????????????COP22?COP7?
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 ?????????????????????10????????2028????????24????????114?Bcf/d??24
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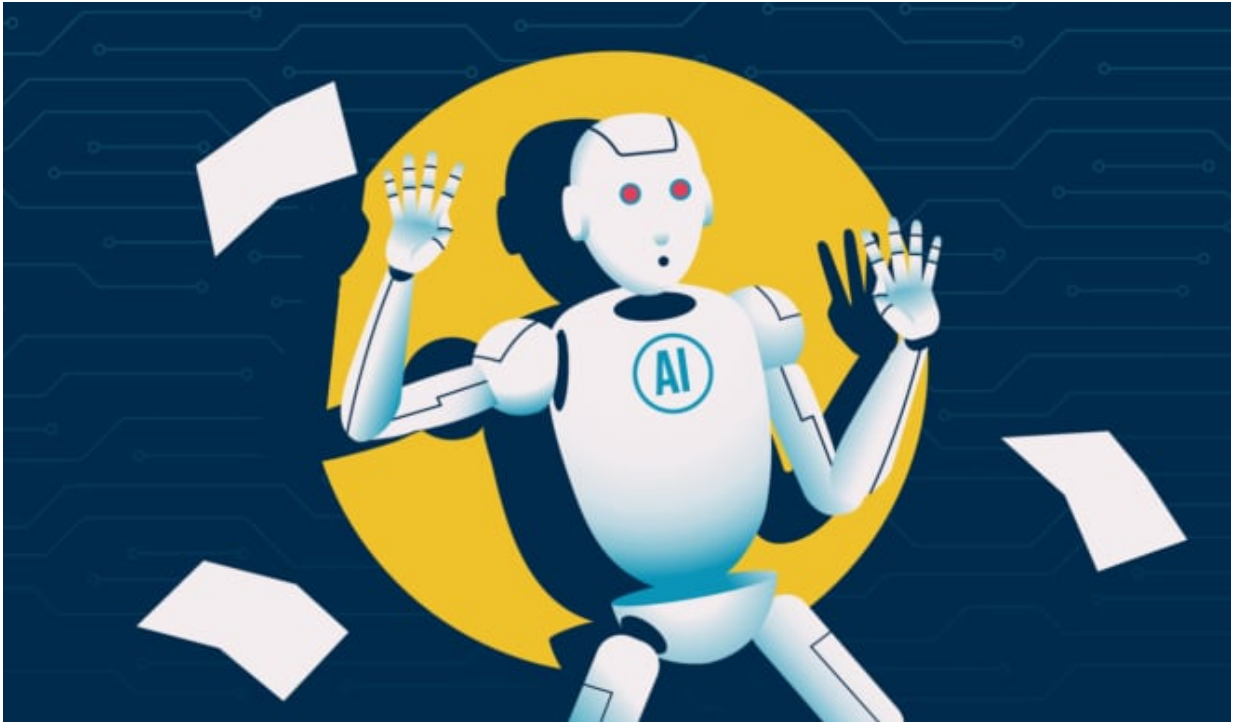
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?1?U.S. thermal coal exports to Asia and Africa surge as shipments to Europe fall
?2???????COP??
?3?North America’s LNG export capacity is on track to more than double by 2028

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

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

?? ?? · Thursday, 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

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????????????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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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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1. ??????????CO2????????????
2. 2035?????13???75%????????????????????????????????
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????30????????????????????35?60????????????????15????????????????????
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?SDGs?????????

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

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?? ?? · Tuesday, September 17th, 2024



a-poselenov/iStock

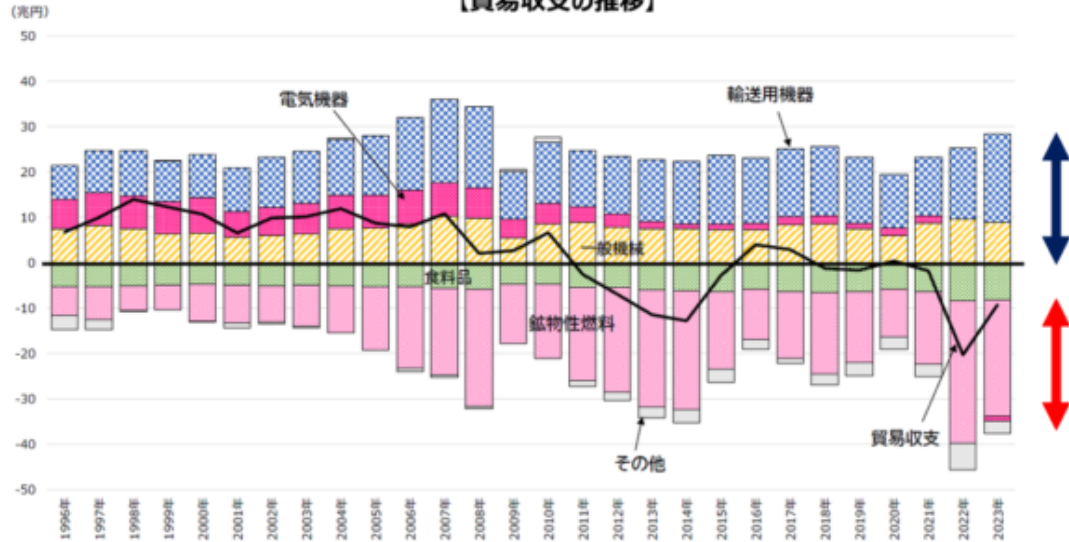
????????????2023????26????????1??
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エネルギー・産業立地

【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**突然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

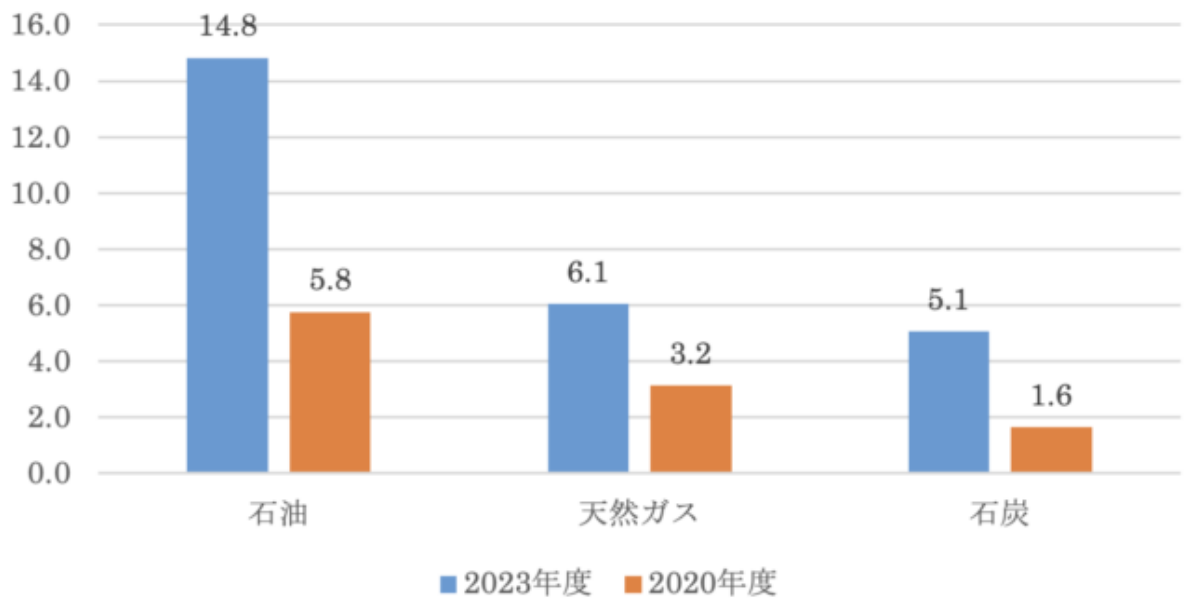
?1?GX??????11????1

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化石燃料輸入金額（兆円）



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

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?? ?? · Friday, September 13th, 2024



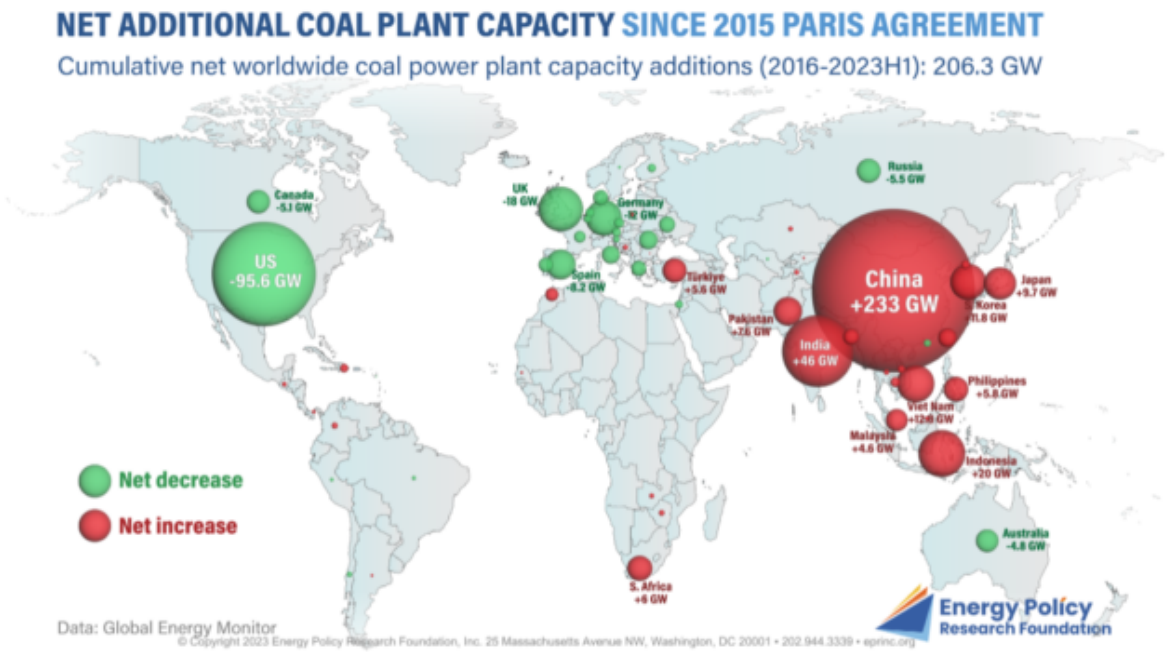
Andrzej Rostek/iStock

2015-2023 Net Additional Coal Plant Capacity by Country (GW)

Country	Net Change (GW)
US	-95.6
Canada	-5.1
UK	-10
Spain	-8.2
Germany	-10
Russia	-5.5
Australia	-4.8
S. Africa	+4
Türkiye	+5.5
India	+46
China	+233
Pakistan	+26
Japan	+9.7
Malaysia	+4.6
Indonesia	+20
Philippines	+5.9
Viet Nam	+20
Korea	+11.8

Energy Policy Research Foundation

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

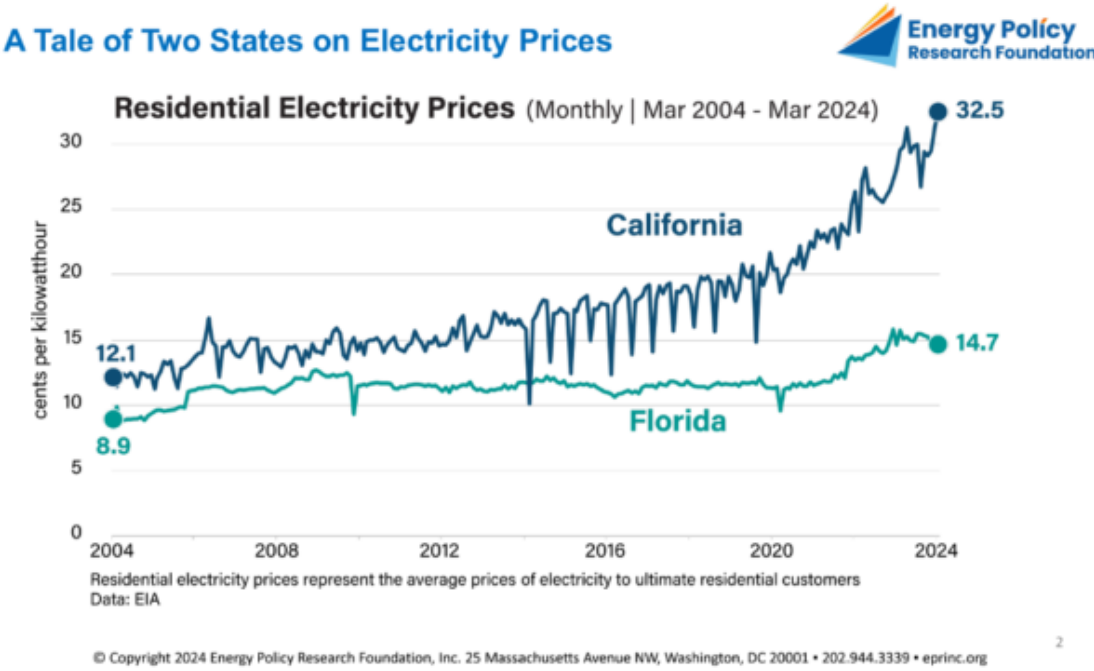
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?? ?? · Thursday, September 12th, 2024



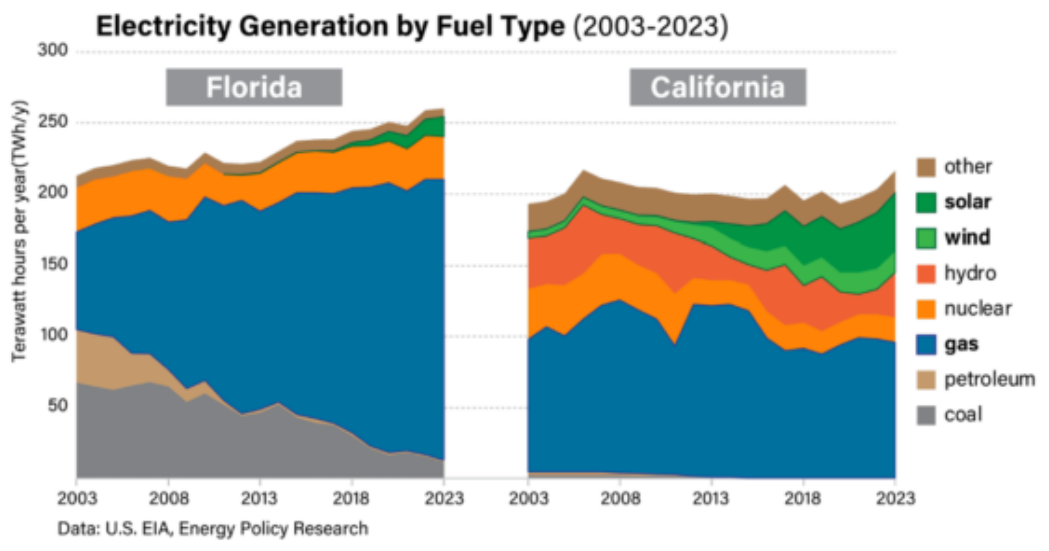
kasezo/iStock

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A Tale of Two States on Electricity Generation Mix



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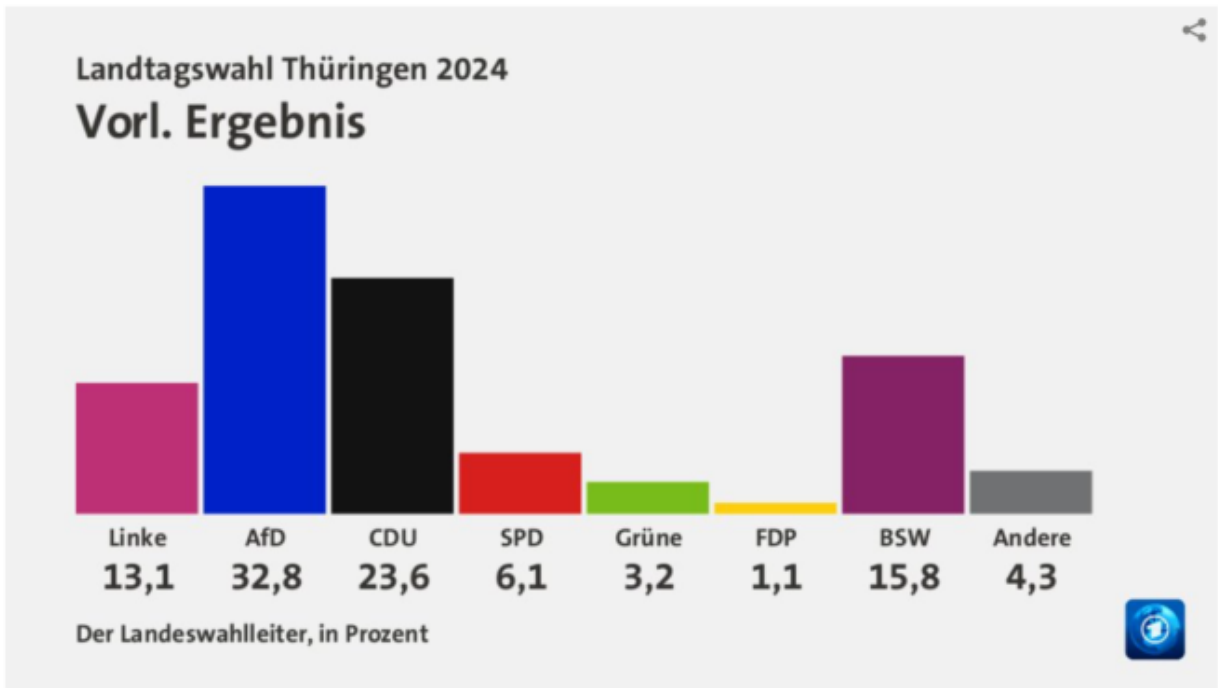
Posted in ??????????, ??? | No Comments »

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



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

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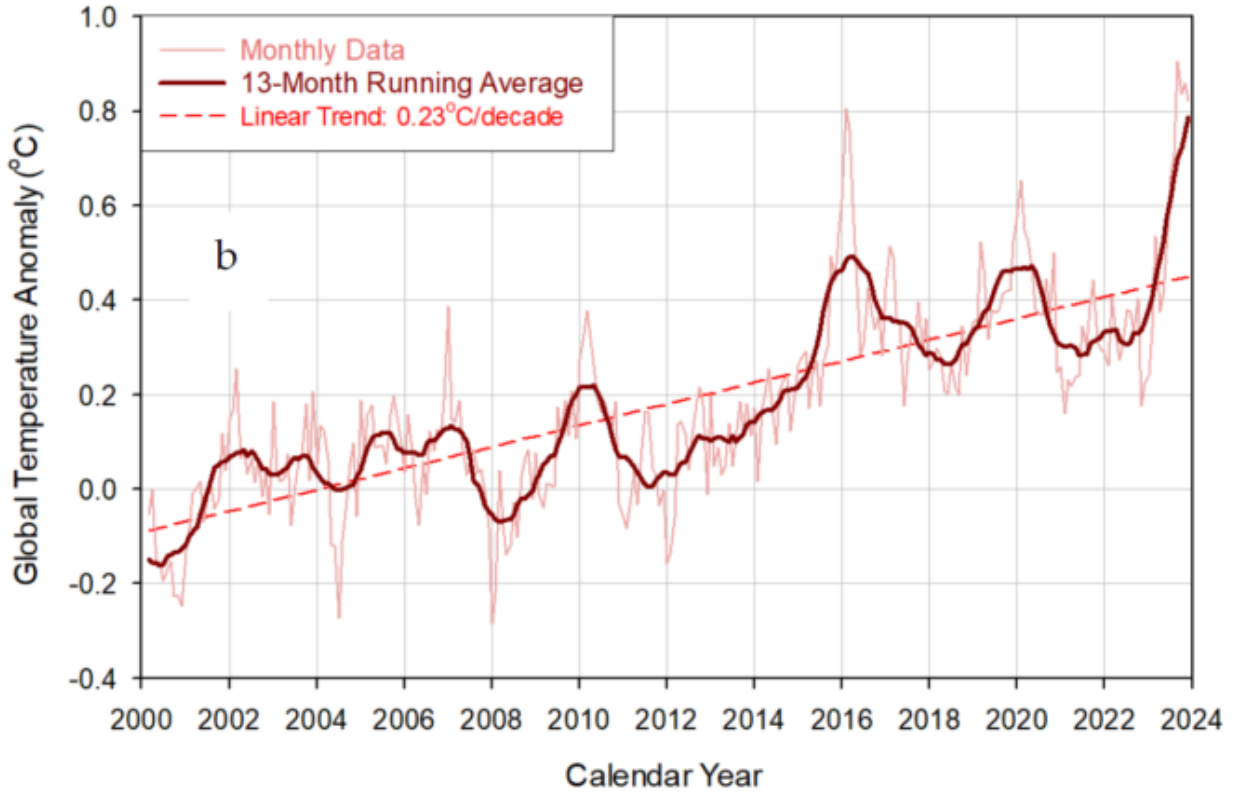
?? ?? · Friday, September 6th, 2024



35007/iStock

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

Hunga Tonga volcano: impact on record warming

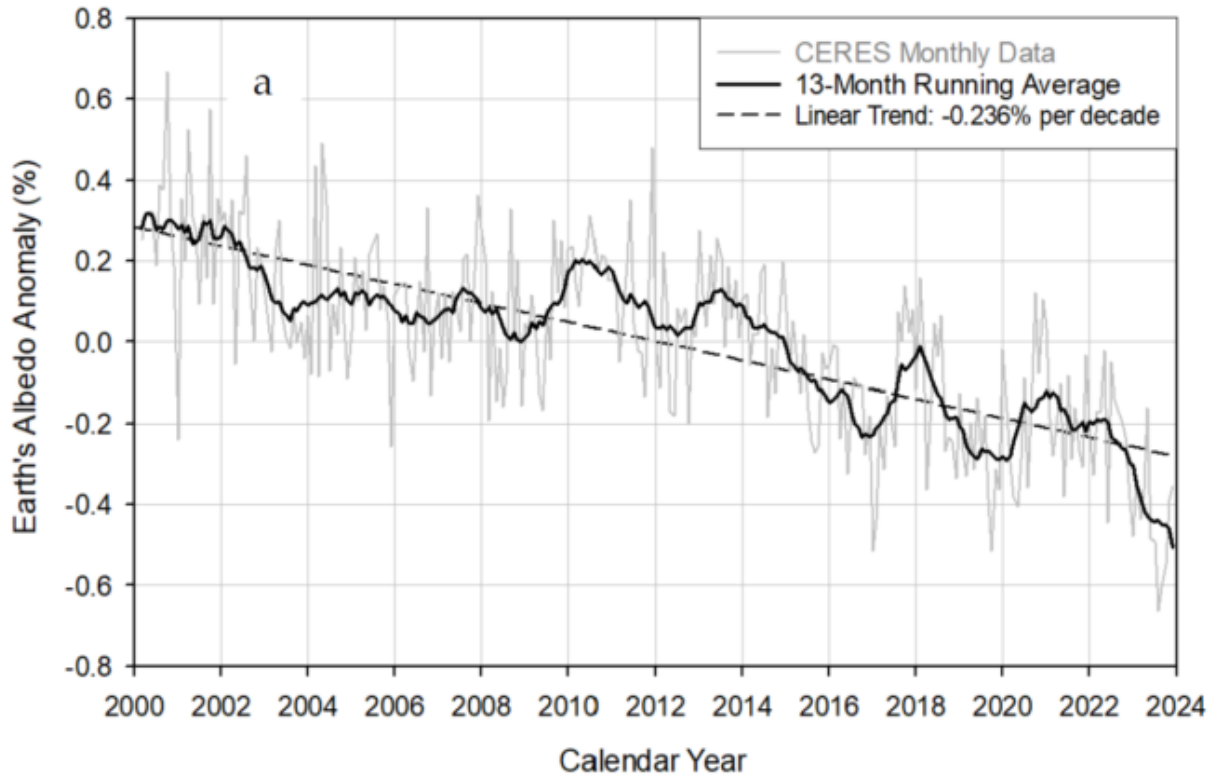


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Roles of Earth’s Albedo Variations and Top-of-the-Atmosphere Energy Imbalance in Recent Warming: New Insights from Satellite and Surface Observations

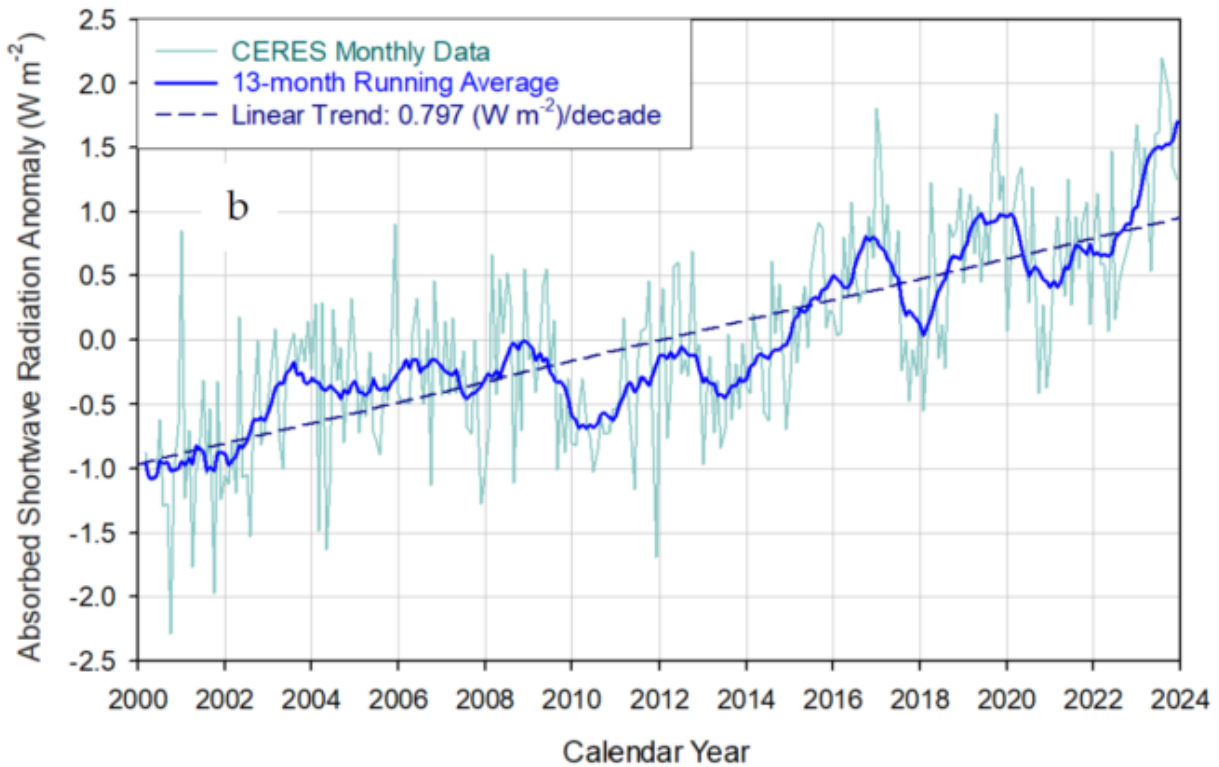
????????????????????2????????????????????????????????2000????0.79%??????????



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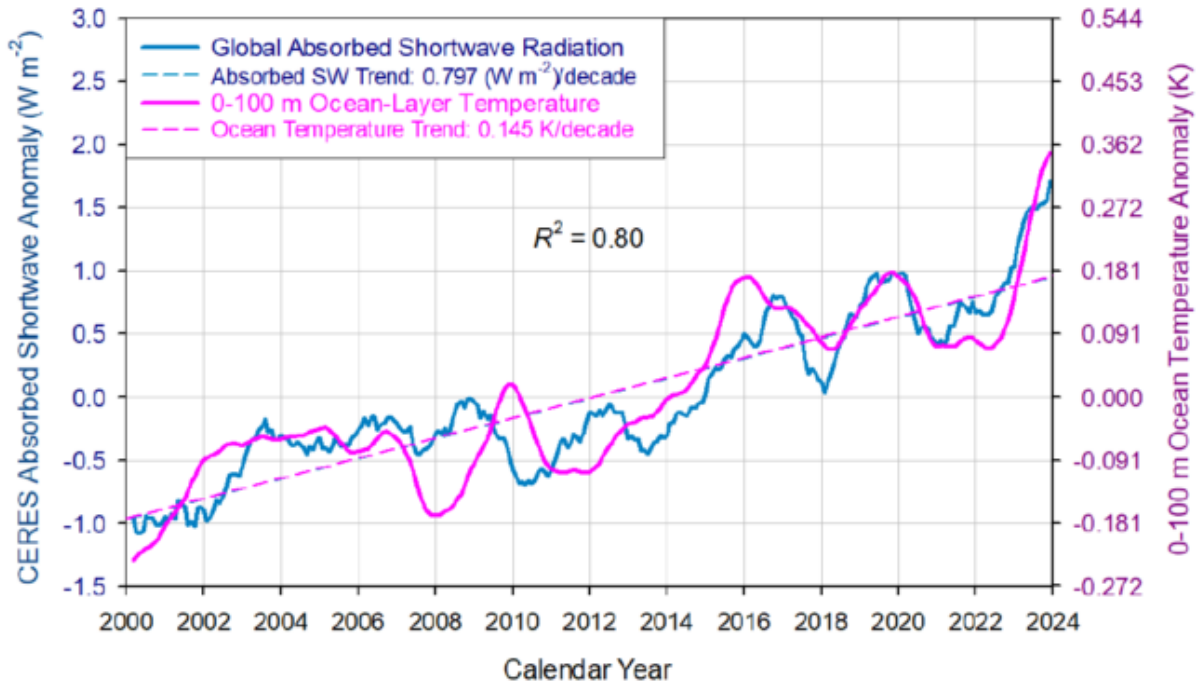
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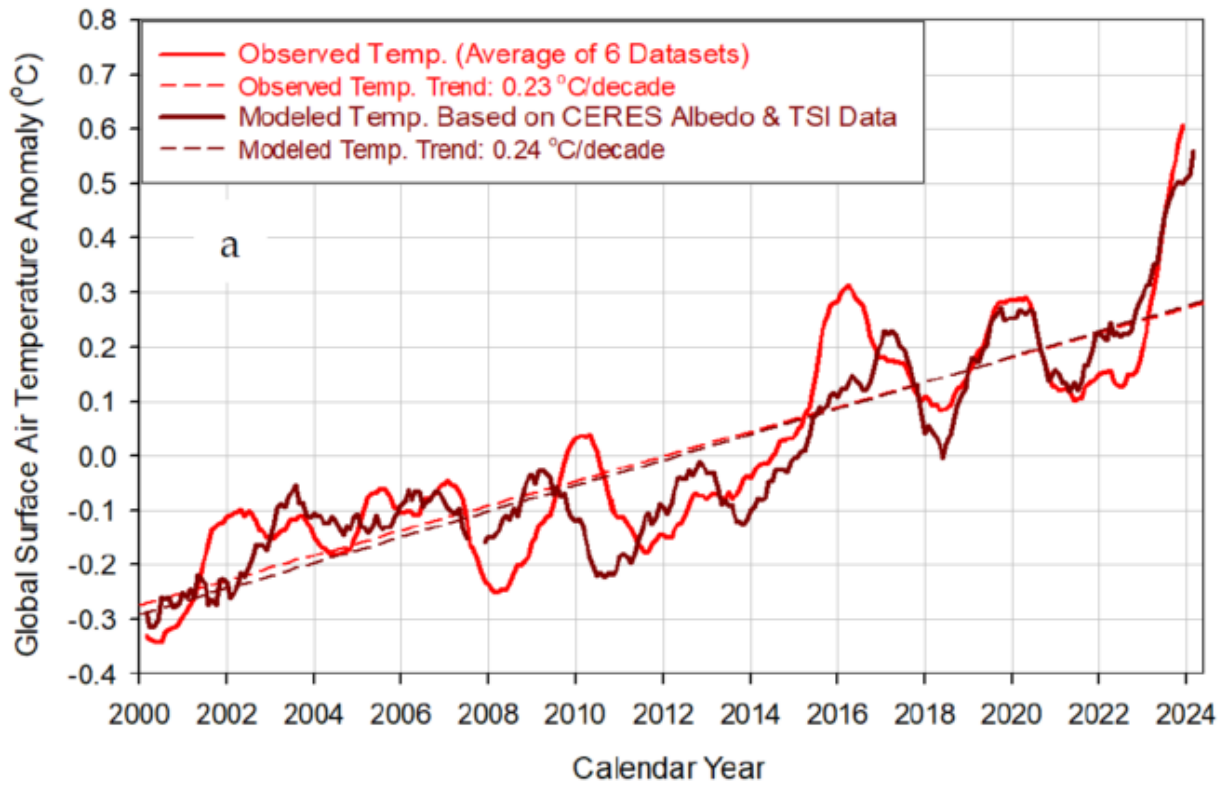
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Posted in ???, ????? | No Comments »

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% 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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SAF SAF??

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100/L SAF 200 1600/L

JETRO 2024 2910 31 SAF SAF??

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

SAF CO2 2.5% 2

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Posted in ??????, ?? | No Comments »

???AZEC?????

?? ? · Tuesday, September 3rd, 2024

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The Government of Japan ??

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

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

?? ?? · Sunday, August 25th, 2024



andreasK/iStock

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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??

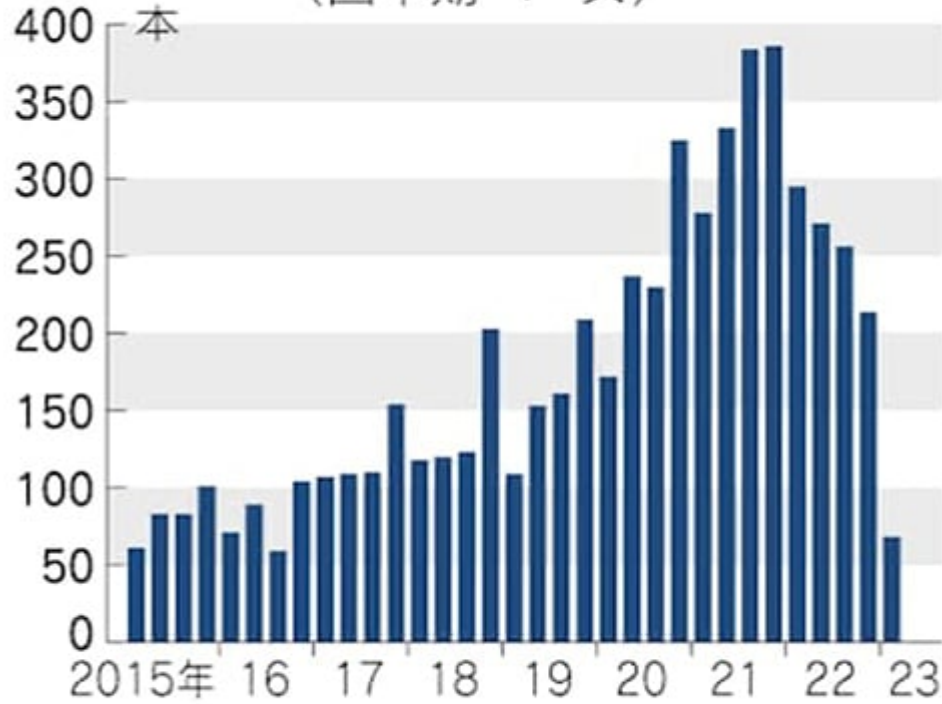
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2023??ESG??????????

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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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?SDGs?????????

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

???BWR??

GEPR??? · Friday, August 23rd, 2024



xijian/iStock

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[gage]??

0.854+0.1013?/ 0.54 – 0.1013 = 1.668 MPa[gage]

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[gage]??1.233?1.668MPa
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Posted in ???, ?????????? | No Comments »

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?? ?? · Thursday, August 22nd, 2024

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Darwel/iStock

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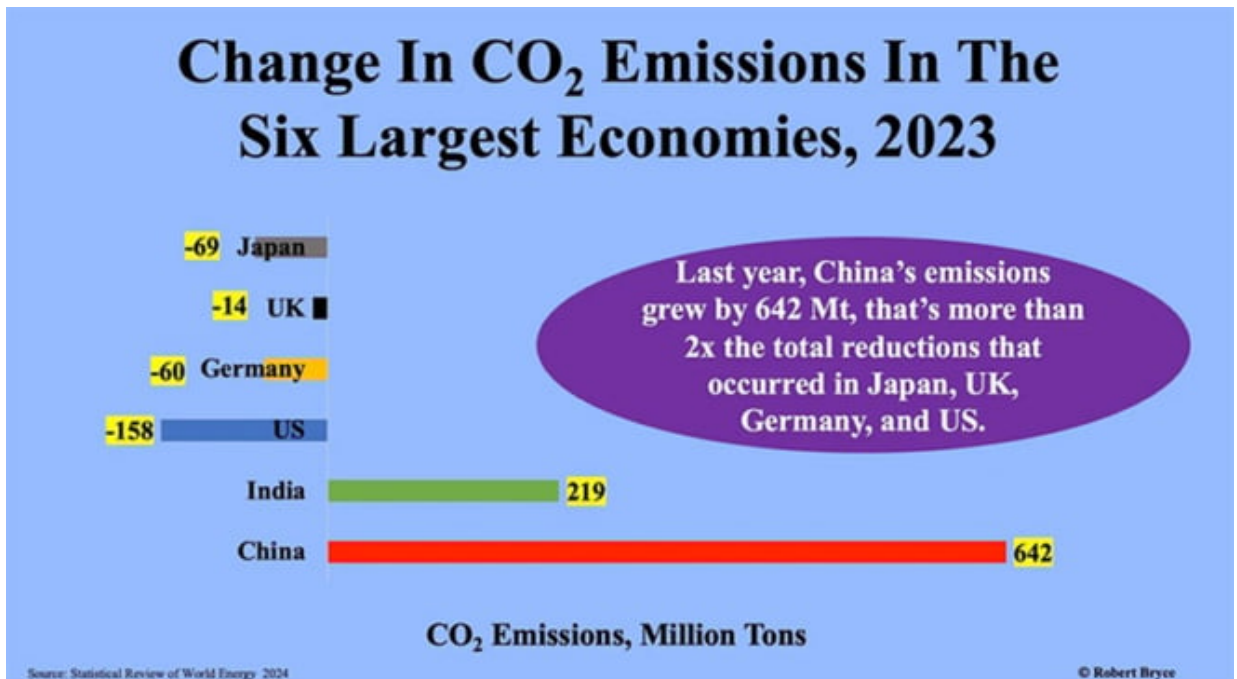
DE&I?LGBTQ?SDGs?Net Zero

EU

EU

EU 2050 GX CO₂

CO₂



20 GX 23.4 2023 GX 9.5

表 4 各シナリオの評価結果の比較

分析項目	シナリオ	需要立地誘導シナリオ	ベースシナリオ	需要立地自然体シナリオ
系統増強の投資額 ^{※1} (年間コスト ^{※2})		約6.0～6.9兆円 (約0.55～0.64兆円/年)	約6.0～7.0兆円 (約0.55～0.64兆円/年)	約6.7～7.9兆円 (約0.62～0.73兆円/年)
費用便益比 (B/C)		0.6 ～ 1.2	0.7 ～ 1.5	0.7 ～ 1.5
年間便益 (純便益 (B-C))		約3,200 ～ 5,800億円/年 (約▲3,200～300億円/年)	約4,200 ～ 7,300億円/年 (約▲2,200～1,800億円/年)	約4,600 ～ 8,200億円/年 (約▲2,700～2,000億円/年)
燃料費・CO2コスト削減		約3,200 ～ 6,100億円/年	約4,100 ～ 7,400億円/年	約4,600 ～ 8,300億円/年
送電ロス		約▲590～▲350億円/年	約▲430～▲250億円/年	約▲410～▲240億円/年
アデカシー便益 ^{※3}		約330億円/年	約310億円/年	約310億円/年
CO2削減量		約870万t/年	約2,430万t/年	約2,830万t/年
再エネ比率 ^{※4}		49% (50%)	47% (50%)	47%
再エネ出力制御率 ^{※4}		10% (7%)	12% (7%)	13%

※1 偏在する電源等を大消費地へ送電するための連系線等の広域連系系統の増強コストのみを記載しており、再エネ増加に伴う、調整力確保及び慣性力・同期化力低下等の対策コストは含んでいない。
 また、HVDC送電コストは、2050年頃におけるスケールメリットや技術革新のコスト低減を先取りした単価を採用、海底ケーブル工事は占用料等を含まず、水深等を考慮したルート変更によるコスト増の可能性あり。

※2 系統増強を行うことで毎年発生する費用（減価償却費、運転維持費など）

※3 系統増強による供給力確保量の節減効果

※4 () は系統増強以外の施策として、電源側の立地の最適化等を行った場合の参考値^{※2}

なお、電源については、再エネを最優先の原則の下で最大限の導入に取り組むという国の政策的議論を踏まえて、各シナリオにおいて同じ条件としていることに留意が必要

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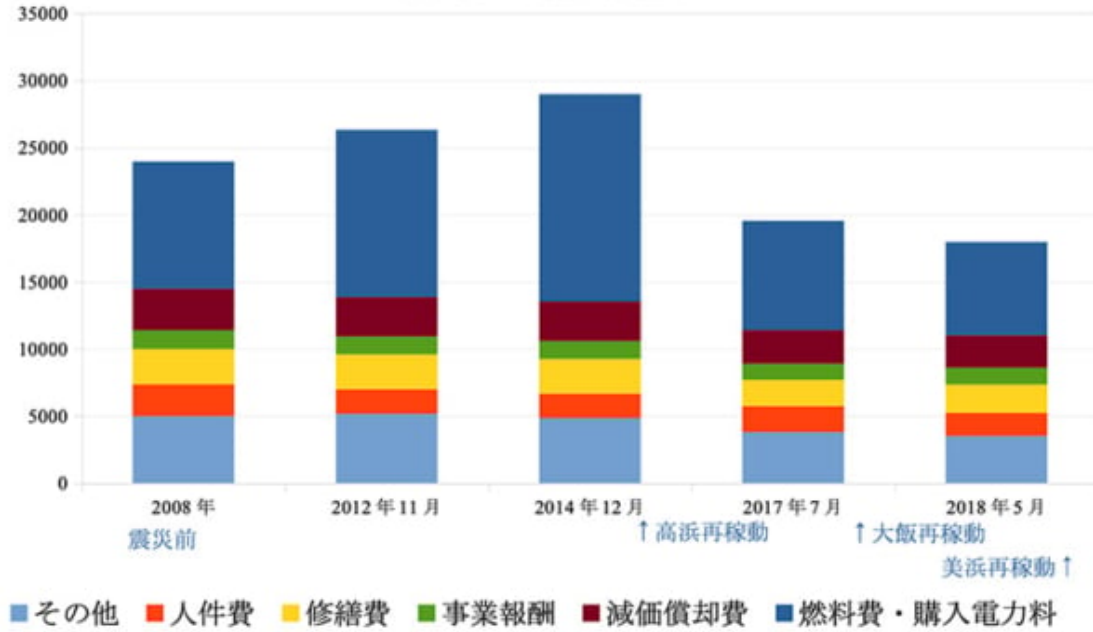
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Posted in [??, ??](#) | [No Comments](#) »

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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. 2008年と2018年の電気料金原価の比較

2008年と2018年の電気料金原価の比較

2008年と2018年の電気料金原価の比較

2008年と2018年の電気料金原価の比較

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2008年と2018年の電気料金原価の比較

2008年と2018年の電気料金原価の比較

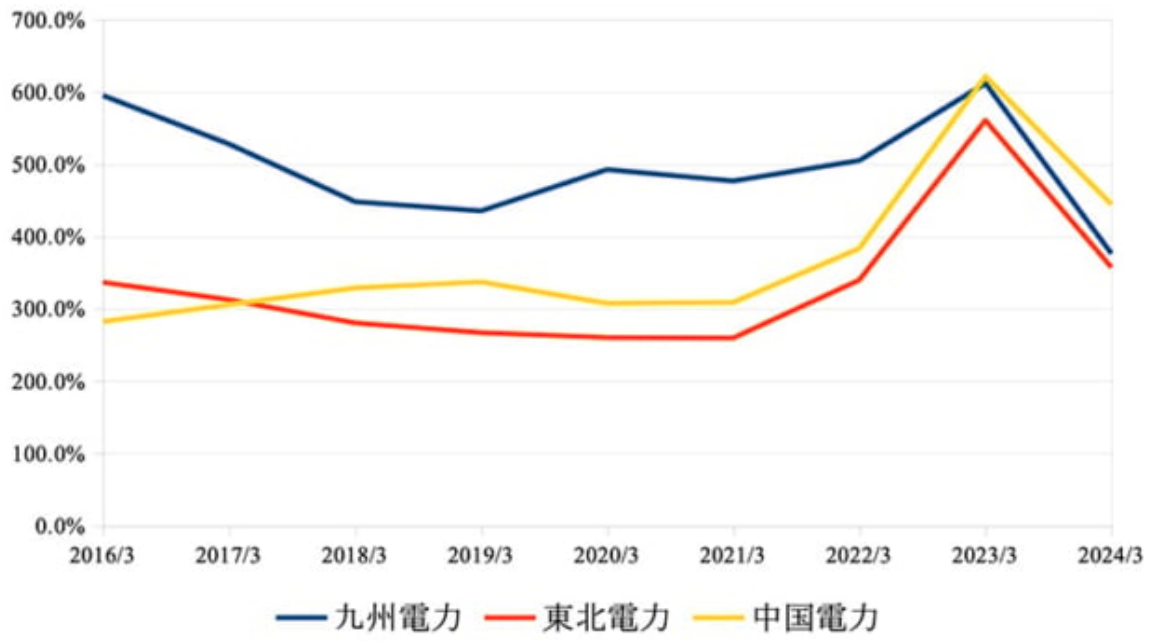
2008年と2018年の電気料金原価の比較

3. 2008年と2018年の電気料金原価の比較

2008年と2018年の電気料金原価の比較

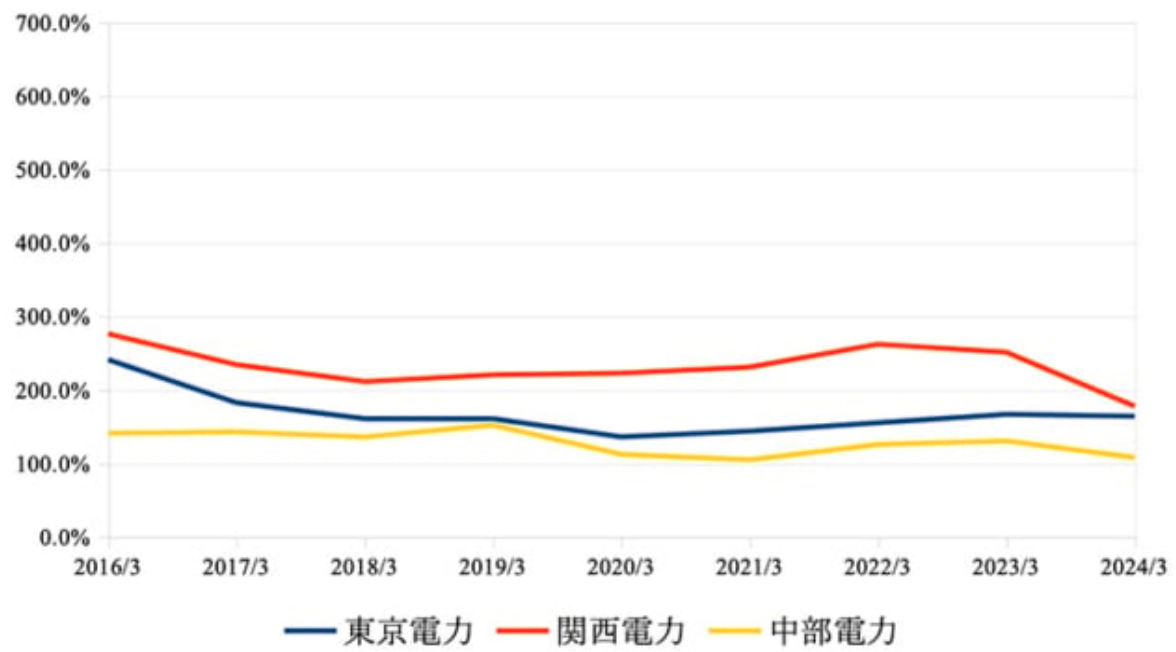
2008年と2018年の電気料金原価の比較

中堅3社 有利子負債比率



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中央3社 有利子負債比率



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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????????????????????
????????????????????2100????????????8?16cm????????20,000????????????????
????????????????????

3?2004??????1900m????????????0.037????????????????0.2????0?100m????????
????????????????????

4?CO2????????????????????CO2????????????????????????????????

5?2020?2021??COVID??GHG????????????CO2????????????????CO2?????
??CO2????????
??????????

???????????

??4?5??

CO2??2.9%????CO2??2020?2021??COVID????CO2?????
????CO2????50?????
???

????CO2??200 Gt-C/????????????3?4 Gt-
C/????????????

????CO2?3.2 Gt-C/????CO2?6.4 Gt-
C/????IPCC????CO2?????

IPCC????CO2????CO2?????
????200?????
21?????

????CO2????CO2?????
????8/218.2?3.6%????3.2×0.036?0.11 Gt-
C/????2ppm?0.07ppm????

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

????CO2????CO2????150?????
CO2????100?????
????CO2????CO2?????

??CO2?????

????4????CO2?????
??CO2?????

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

????CO2????1?????

???????

????1998?2010?2016?2020????2023?????

????2022?2024????2022?1???

????10?????

????22?1????23?????

????????????1??3????????Polar
Vortex??SSW????????SSW????2?1?????
??23?24??????3??SSW??

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

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

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