







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

??

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



NHK??

??1????????????????????????????????????SPD????????Grune????????FDP????????????  
 ???Afd???







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

# CO2??

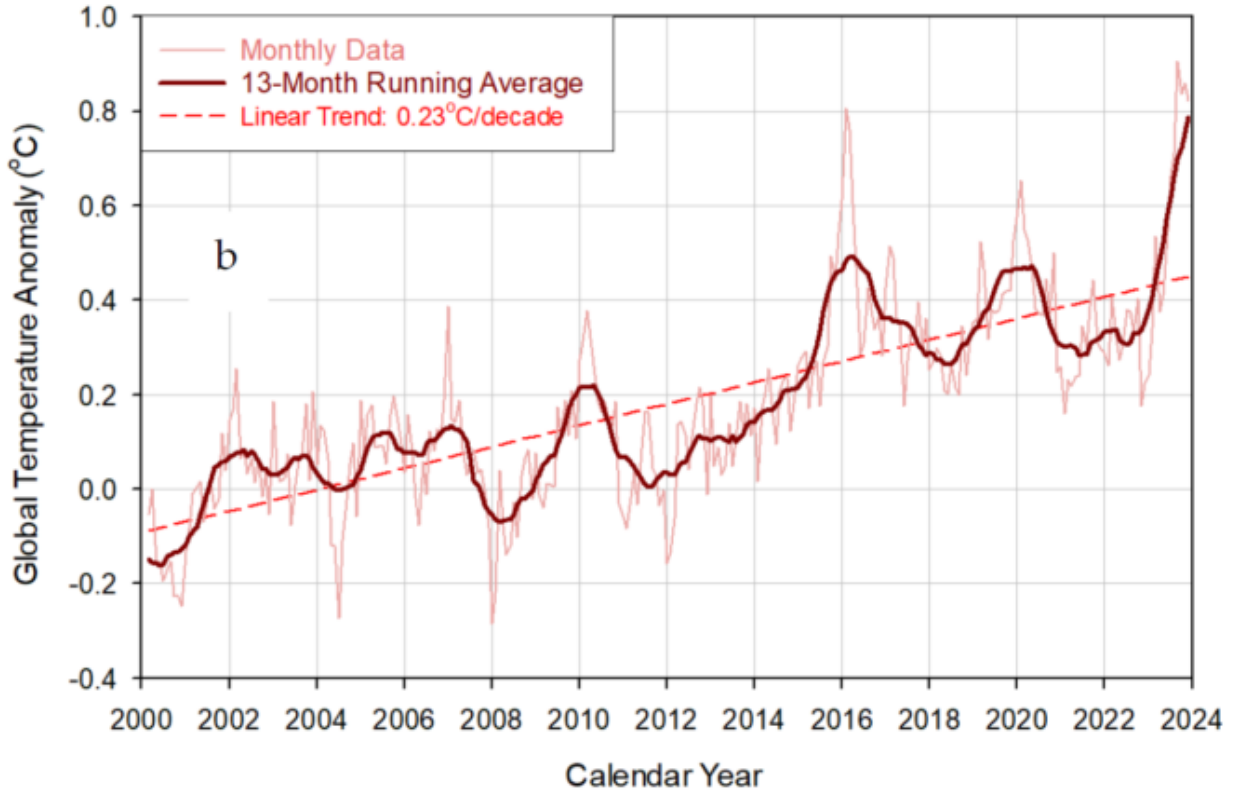
?? ?? · Friday, September 6th, 2024



35007/iStock

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

### Hunga Tonga volcano: impact on record warming



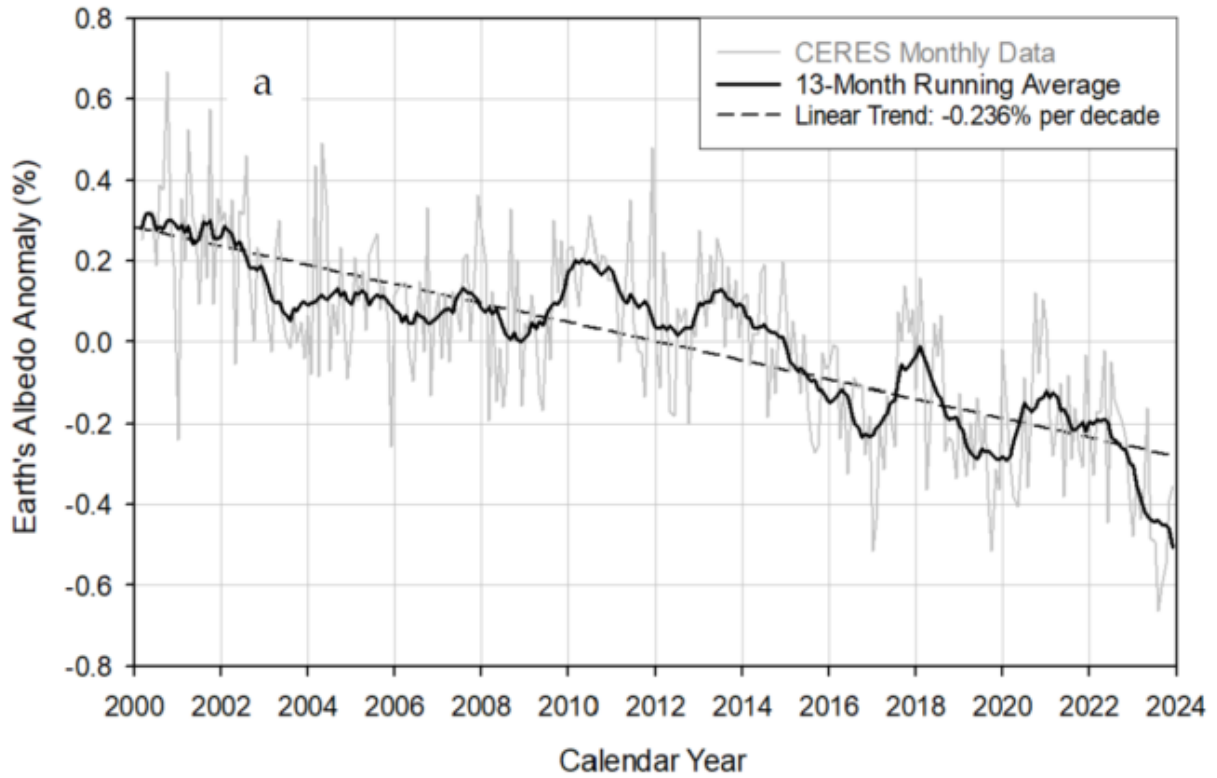
?1

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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%???????????

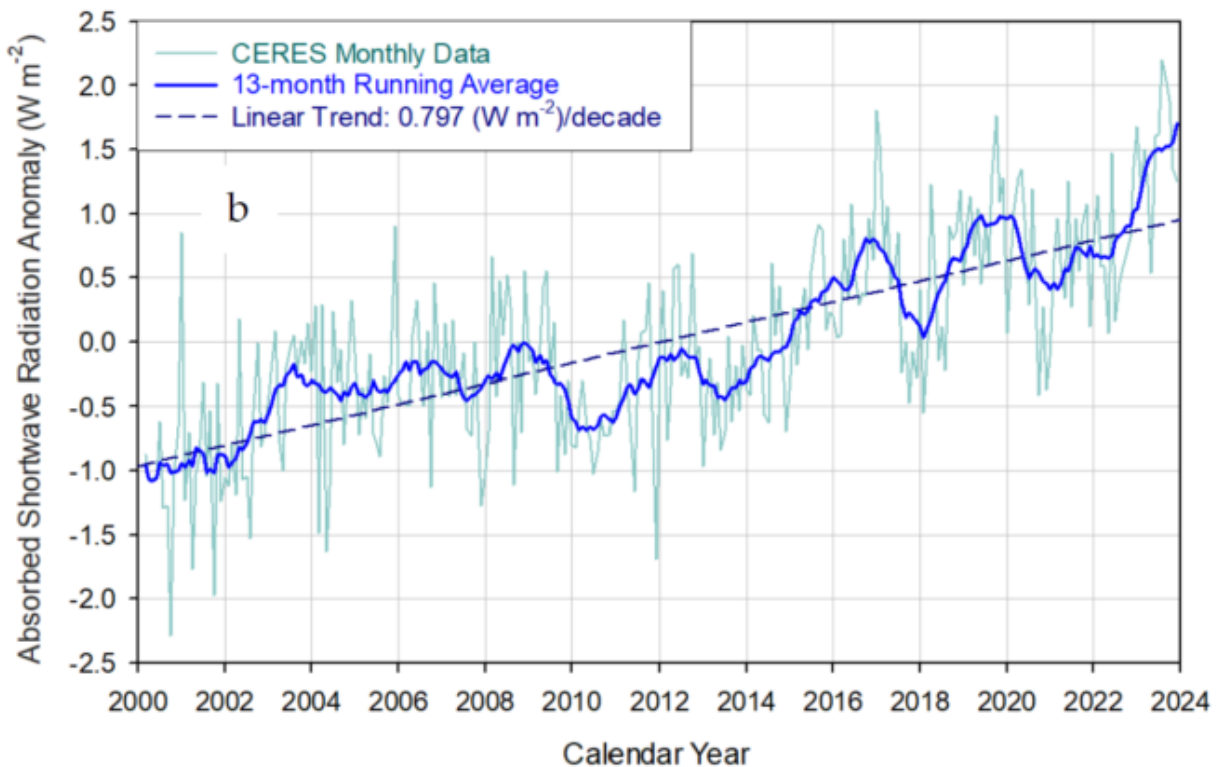




?2

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

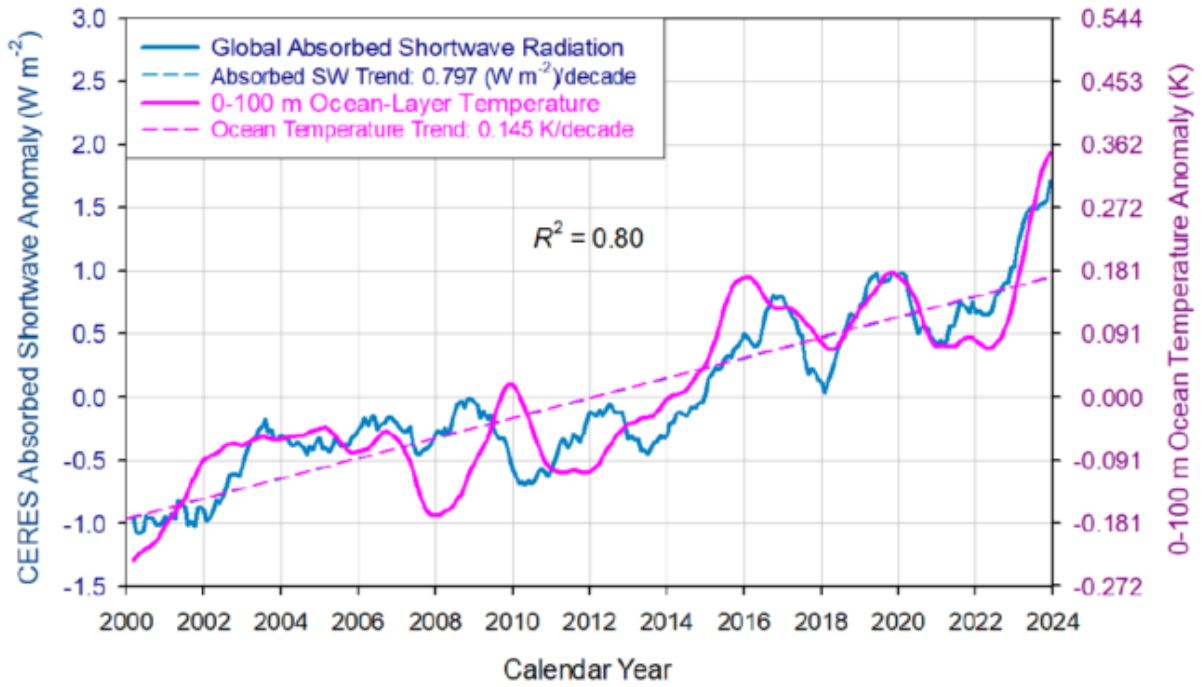


?3



IPCC?6?????1750???2019?????????????????????2.72?????????????????2000????????????????????  
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?4

???5?????????????CO2????????????????????????????  
?????????????????????????????CO2??????????????????

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



Posted in ???, ????? | No Comments »

# SAF??

?? ? · Thursday, September 5th, 2024

??



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?

???

???

???

HEFE?

???

ATJ?

3???

HEFE?ATJ?

4???

1?FT??

5???

e-Fuel??FT??

???



SAF?SAF??

???

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

??

FT CO2

1980

B 5 e- Fuel CO2 CH4 FT

SAF A

1. CO2
- 2.
- 3.
- 4.
- 5.

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CO2 CO2

> 20 98

CO2

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42 46 BDF

?????10?????22??KL?????22??2010?????????

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?????????????2019?????6??KL???C?????????????????????515?KL???BDF2?KL??0.4??  
????????BDF??  
?????????????19??5.1?????

5.1?????0.4??SAF???????

?????????????????????????2021??5000??1????????????  
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????????????????SAF?A????????B????????????????????

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????????????????????CO2??  
??SAF????????Sustainable????????????????

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

?????????30????????????????SAF??

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

## ???AZEC????????????????????

?? ? · Tuesday, September 3rd, 2024

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

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

??11??AZEC????????



The Government of Japan ??

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

**AZEC????????????????**

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????????????????G7??  
 ???

??61????????????63????10????  
 ?????????????????40??  
 ?????????????????CO2????????????????????????????

????????????????G7??  
 ??AZEC????????????????????????



??COP28??AZEC????????????????  
??NGO????????????????

????????????AZEC??  
??3????????????????????????????????????2050????????  
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8??AZEC????????????AZEC????????????????????????????????????AZEC Advocacy Group???????

??JETP?Just Energy Transition  
Partnership??  
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??CCUS????????????????????????AZEC????????????????  
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????????????AZEC????????????COP??  
??affordability?????????

2050??COP????????????????????????AZEC????????????????  
????????????????????COP????????????????????????????????

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? ? ? AZEC ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? AZEC ? ? ? ? ? ? ? ? ? ? COP 28 ? ? ? ? ? ? ? ? ? ? ? ? ? ? ?  
????????GST????????????????????????????????????1.5????????????????????????????????????  
????????????????????????

G7????????????1.5????????????????????????????????????AZEC????????????????????????1.5????2050?  
??NGO?AZEC????????????????????????2050????????  
????????????????

????????2????????????2????????????1.5????????????4????2????????????  
????????????????????????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

??26????????????????????????????????????  
????????????????????????????????

????????????????????????????AI??24????????????????  
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????????24??

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©NHK

??2021????????????????????????2?????

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- ???

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**?????????**

????????????????2021??8??



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????????????????????100???

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**????????????????**

????2050????????????????3??  
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**????????????????????????????**

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

## 2024????????????????

?? ?? · Sunday, August 25th, 2024



andreasK/iStock

????????????????????2030??CO2????????????

**????????????????????2030????????????**



????????????????????2050????????????????????????????????????  
????????????



????????????2022????????????????????????????????????SBTi????????????203  
0????2019????????28.9????????

????????????????CEO????????????2030??SBTi?  
????????????????????

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

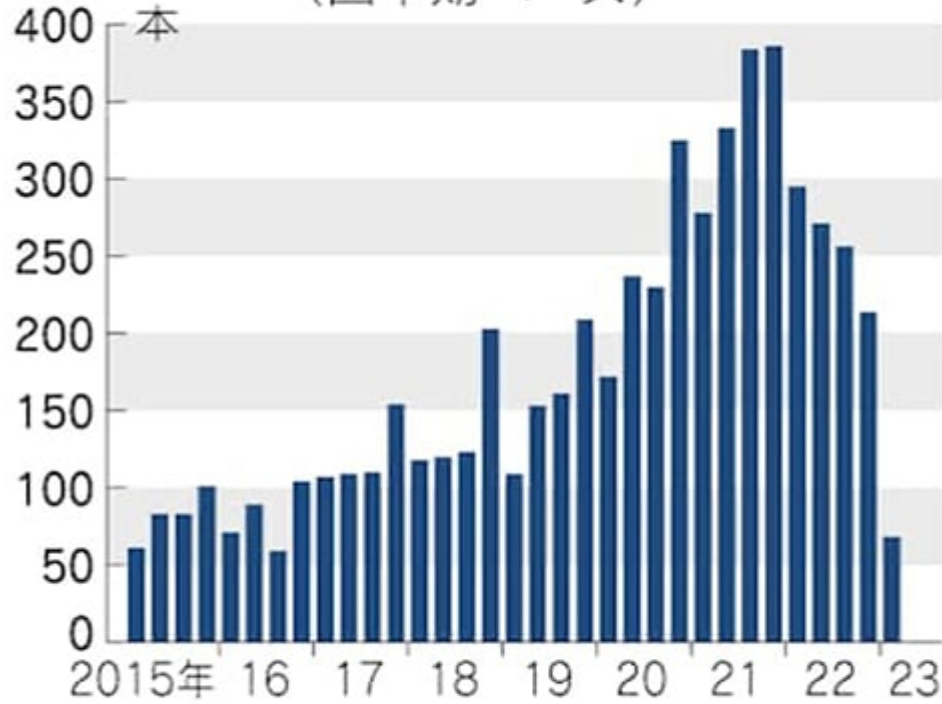
**2023??ESG??????????**

**????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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??????????1??  
????????????????????????????

??2??3??

2??3??

2??3??

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??BWR??

**1. ?????????????????????**

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??1.85  
?=1/0.54??

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

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

??



# ????????????5????????

?? ?? · Thursday, August 22nd, 2024

????????????????9?10????????????????????????????????????42%????????????  
??37%??

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



Darwel/iStock

## 1. ????????

????????????????????????4?1??  
??

????????????????????2047????13?8000????CO<sub>2</sub>????????????????????3?2800????????  
????????????

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### ?????????

????????????????????USC?A-USA?IGCC?IGFC????????????????

## 2. ????????

????????????????????4?1????????????????????????????????????2032????????????

EV??

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

**???????**

????2020?10????????????2050????????????????????????2035????????????EV????????????EV?????????  
?????550????????????????????CO<sub>2</sub>????????????????????EV????????????10????????????????  
????????????CO<sub>2</sub>????????????EV????????????

**3. ??????**

?????2022????????????IRA????????????????????????????????????10??3700????????????????  
????????????????????????????

EV??

????????IRA????????????????????????????????????EV????????????????????????????  
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??EV?????  
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**???????**

??FIT????????????????????????  
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**4. ??????**

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4????????????????????1300????????????????

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**5. ????????**

????????????????????????11?11????????????

????????????2015??10????????????????2050?  
????????????????

????????????????????????????40????????????????

















????????1????????10????????????????????????????????2024????????????1??250?????4????????????  
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????????????????1??24??1????????????????????12????????????????????????????

????????????????????OECD????????????????????????1????????????????????????????  
????????????????????????

??  
????????????????12??“??”??

??72????????  
????????????????????????????

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

????????????????120????????????????????4??1????3????????????????????????????  
??400????????120????????  
???????

????????120????????????20??  
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????????????????????????????????2015????????????????????????????  
????????????????????????????

????????????8?12??  
????????????????????

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

## ??

GEPR?? · Friday, August 16th, 2024

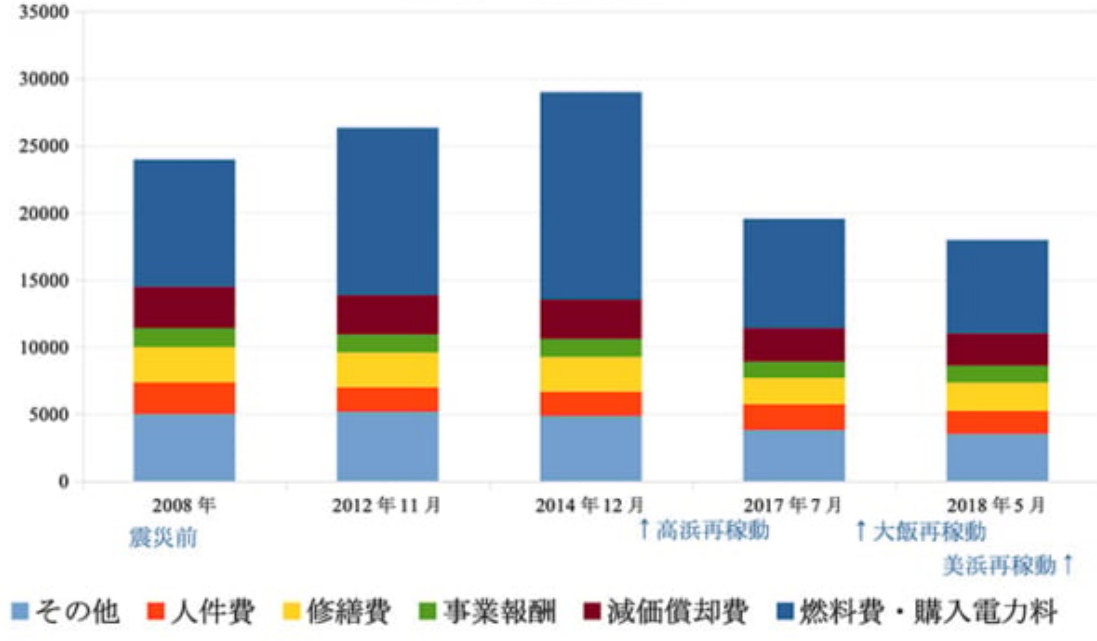








関西電力電気料金原価推移



2008年と2018年の電気料金原価の比較

### 2. 燃料費・購入電力料

燃料費・購入電力料は、2008年と2018年を比較すると、

2008年の燃料費・購入電力料は約10,000円、2018年は約7,000円と減少している。

これは、高浜原子力発電所と大飯原子力発電所の再稼働による発電コストの削減が主な要因である。

また、燃料費の削減も一因として挙げられる。

2018年の燃料費・購入電力料の内訳は、燃料費が約3,500円、購入電力料が約3,500円である。

これは、2008年の燃料費・購入電力料の内訳と比較すると、燃料費が約半減している。

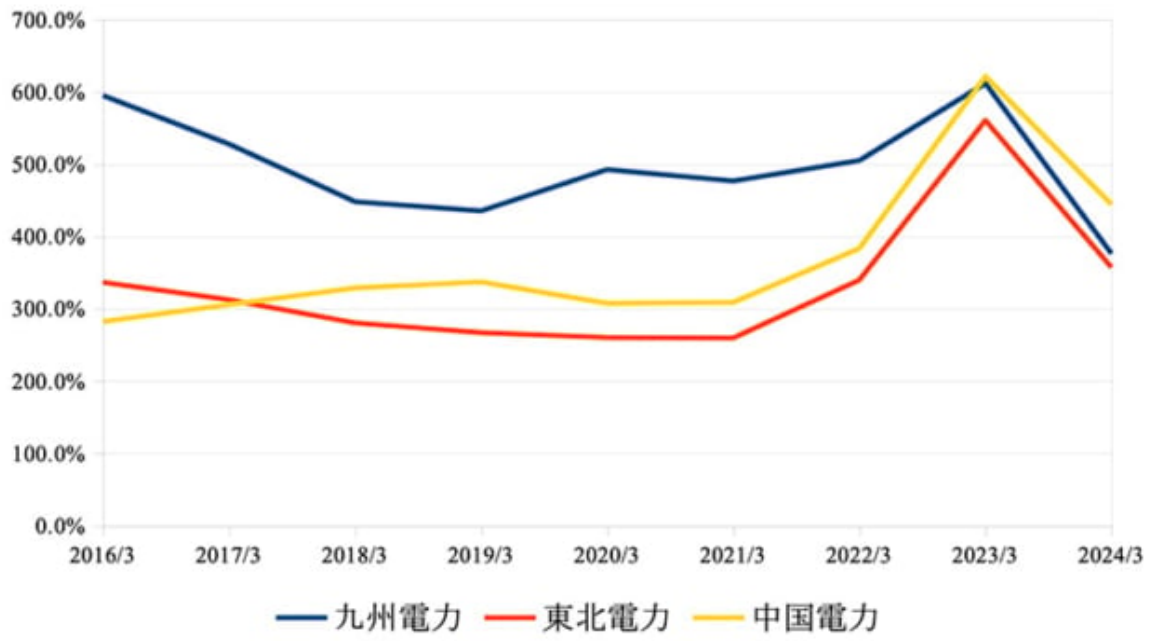
購入電力料は、2008年と2018年を比較すると、ほぼ同等である。

### 3. 減価償却費

減価償却費は、2008年と2018年を比較すると、

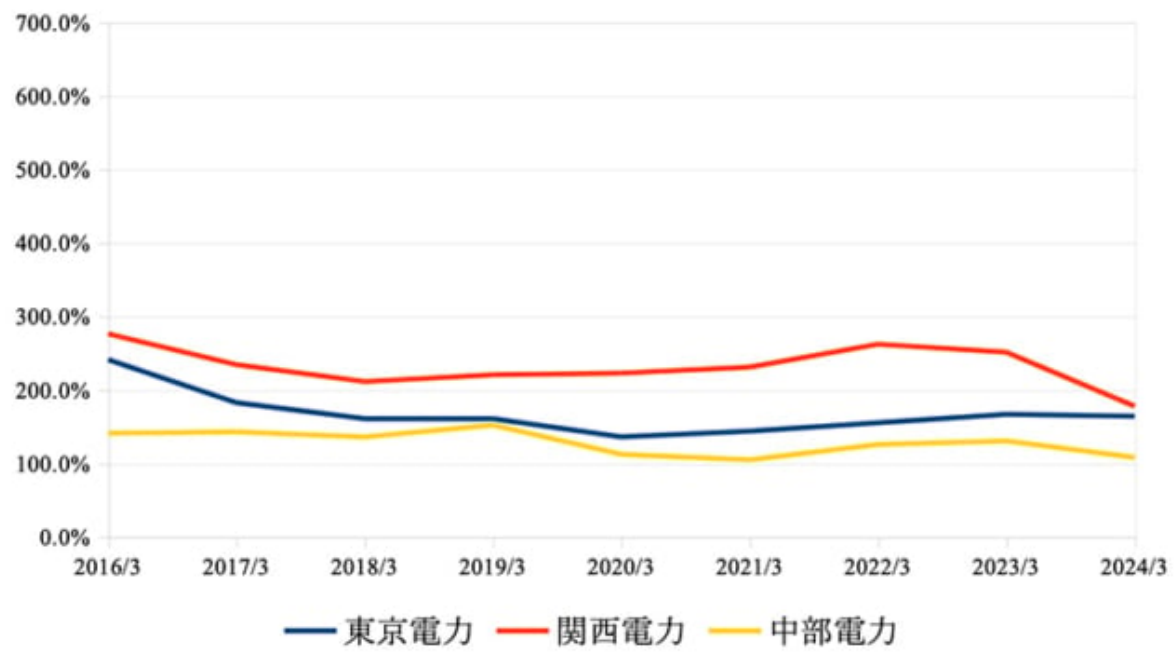
2008年の減価償却費は約3,000円、2018年は約3,000円とほぼ同等である。

中堅3社 有利子負債比率



?4??

中央3社 有利子負債比率



?5??

?3??

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

2024?3?????3?????????????????????????3?100%????????????????????

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1966????1990??

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

## ????????????????????

?? ? · Wednesday, August 7th, 2024



imagedepotpro/iStock

????????????????Climate4you????????????4?”for”????????????????????????????????Ole  
Humlum??

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????????????????The State of the  
Climate????????????????????????????????7?20????????64????????????????????

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

**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????20  
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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Posted in ???, ????? | No Comments »

### ????????????????????????????

?? ?? · Tuesday, August 6th, 2024



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

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?? ?? · Monday, August 5th, 2024



GX2040????????????????  
????HP??

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????????????8?9?2125????10??1300?

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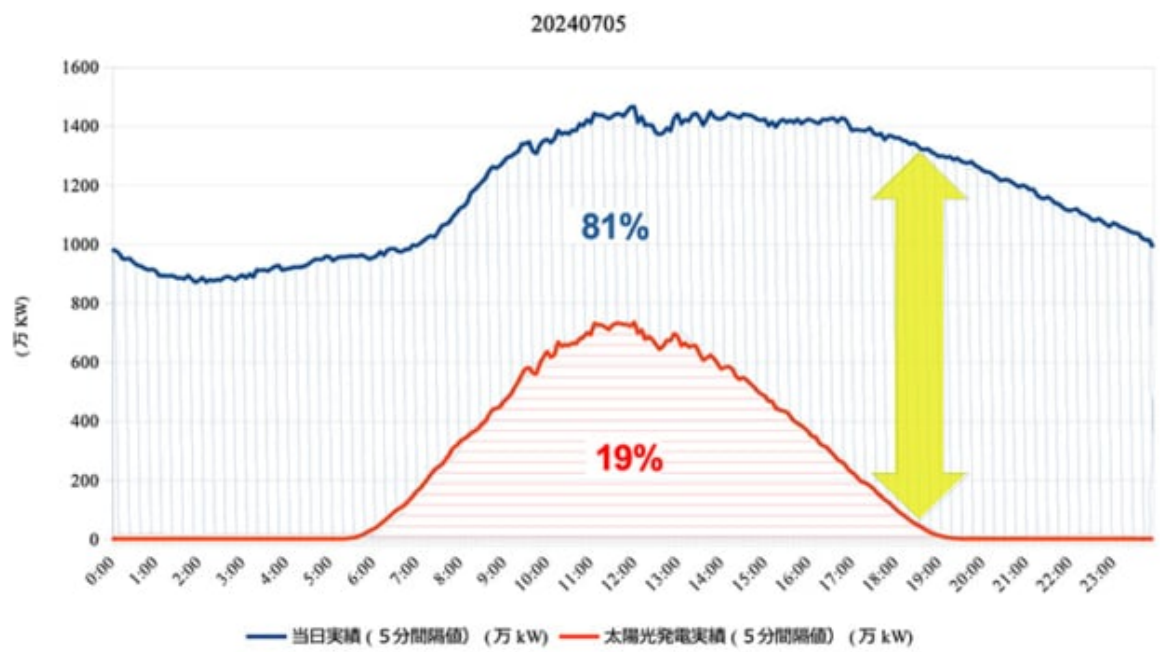


Posted in ??????????, ??? | No Comments »

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GEPR??? · Friday, August 2nd, 2024





????????????????  
 ?????????????????19%?????  
 ???



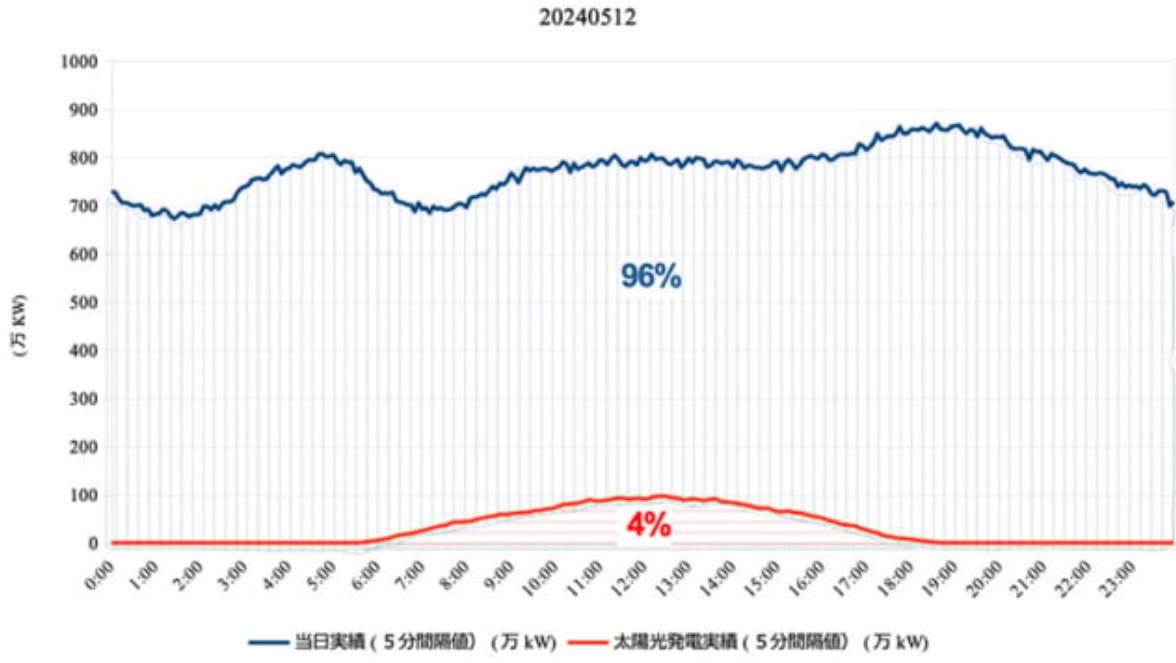
????????????????  
 ?????????????????17%?????  
 ???

??12??  
 ???

??18%????????????????  
 ???

????????????18??19??  
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????3????????????????????4%????????????????96%????????????????????????????????????  
?????????

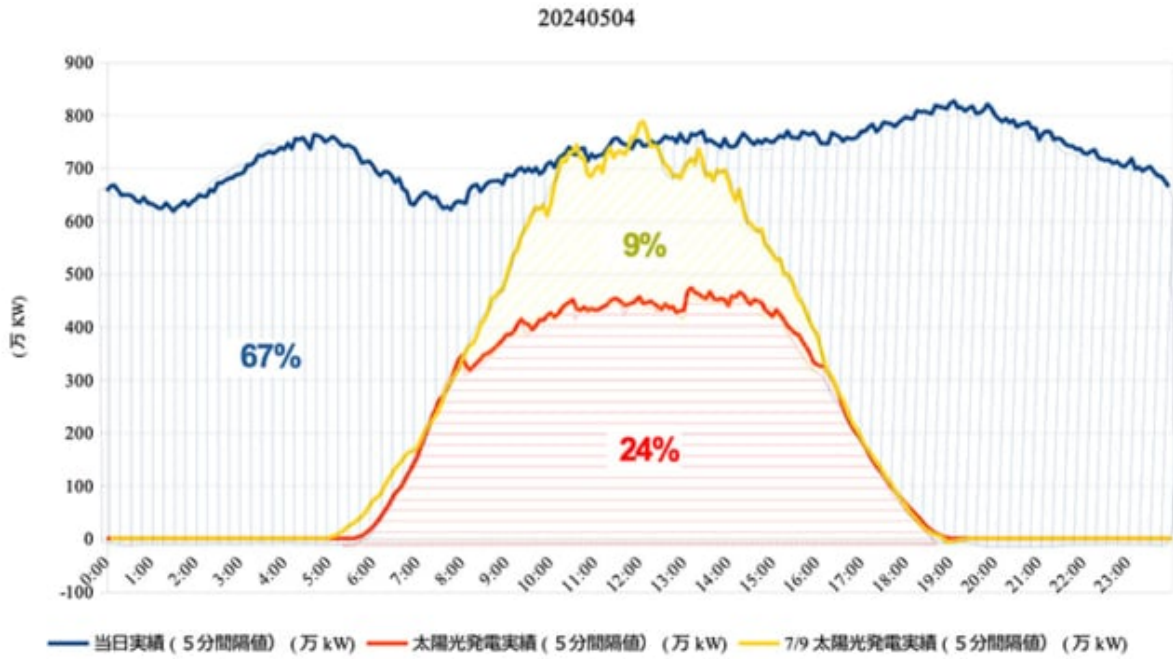


?3?????????  
????????????????????????????4%????????????

????????????????100%??  
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????????????????????4????????????2024?5?4????????????????????7?9????????????????  
????????????????????





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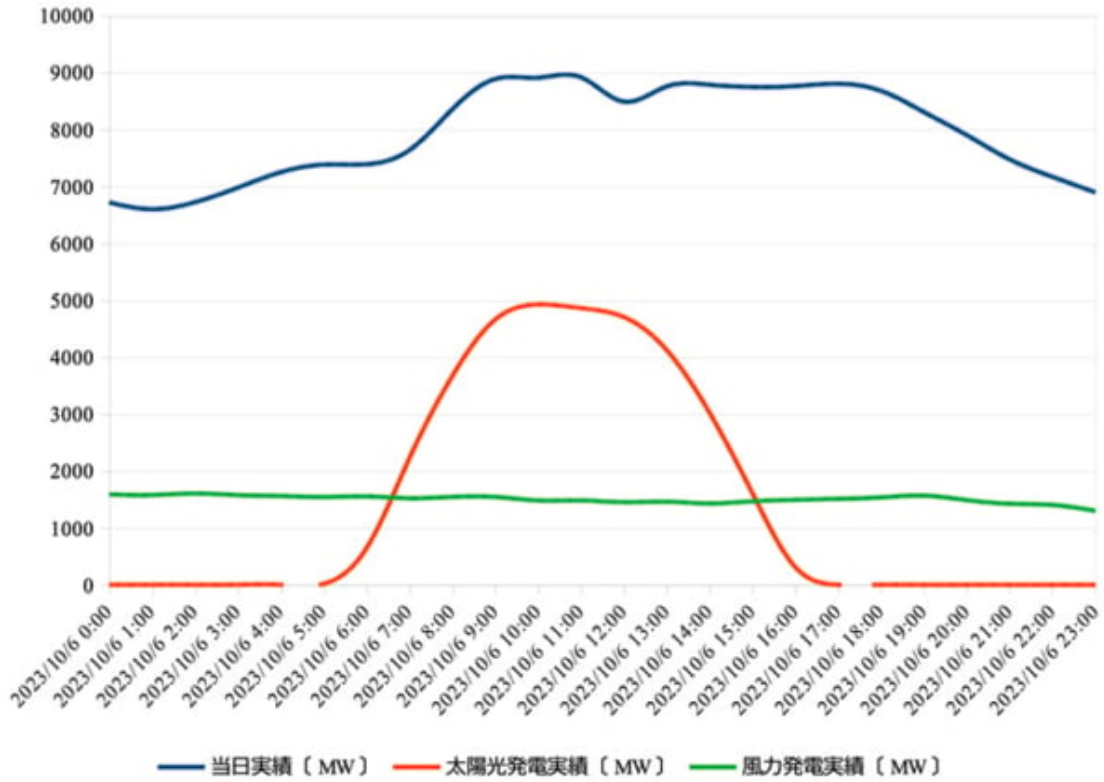
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 ???

**2. ?????????????????**

??web??MW????????????????1??  
 ?????????????????????????????????

????????????????????????5????????1??

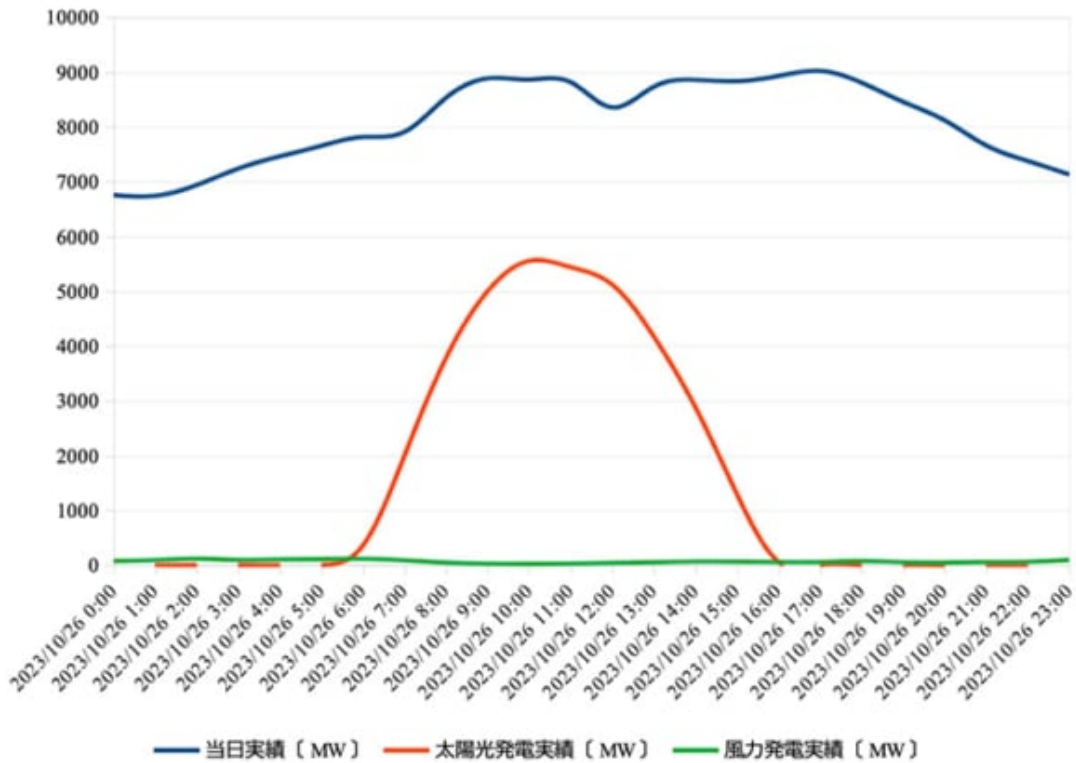




?5????????????

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

????????????????6??6????????????  
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?6????????????





????????????????????2??  
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??“????????”????????  
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????2??1957??  
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????????????26????????????????????????????2????????????????????????????????????

??GX??

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

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?? ? · Saturday, July 27th, 2024

7?15??2024????????????????????????????  
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????2024????????????????



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??dr  
ill, baby, drill??

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?10????????????????????????????????????

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

- ???  
??

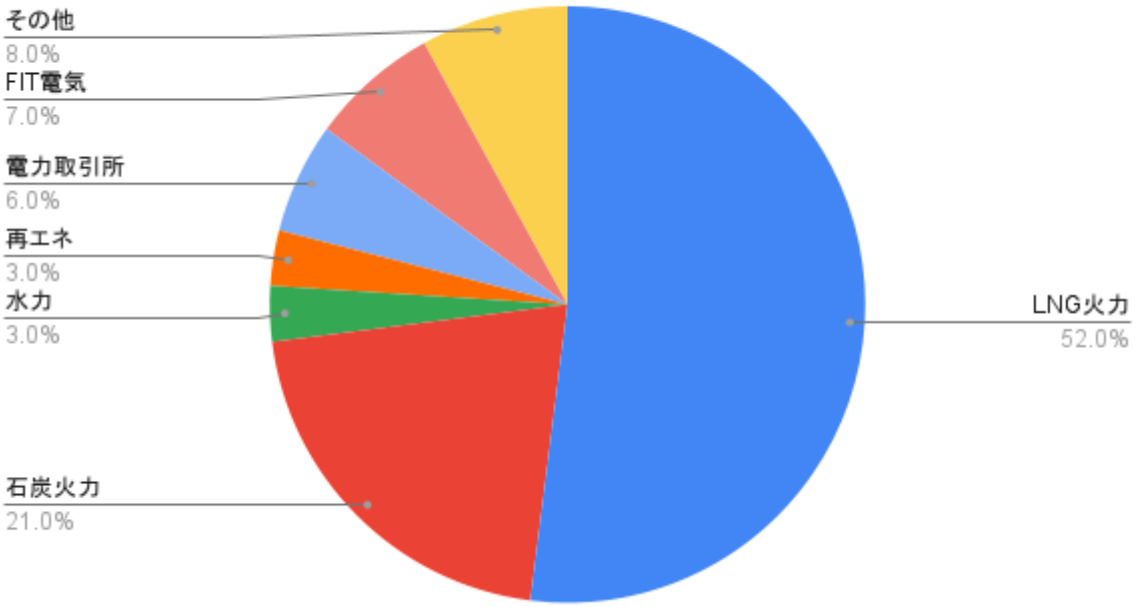
?3????????????????







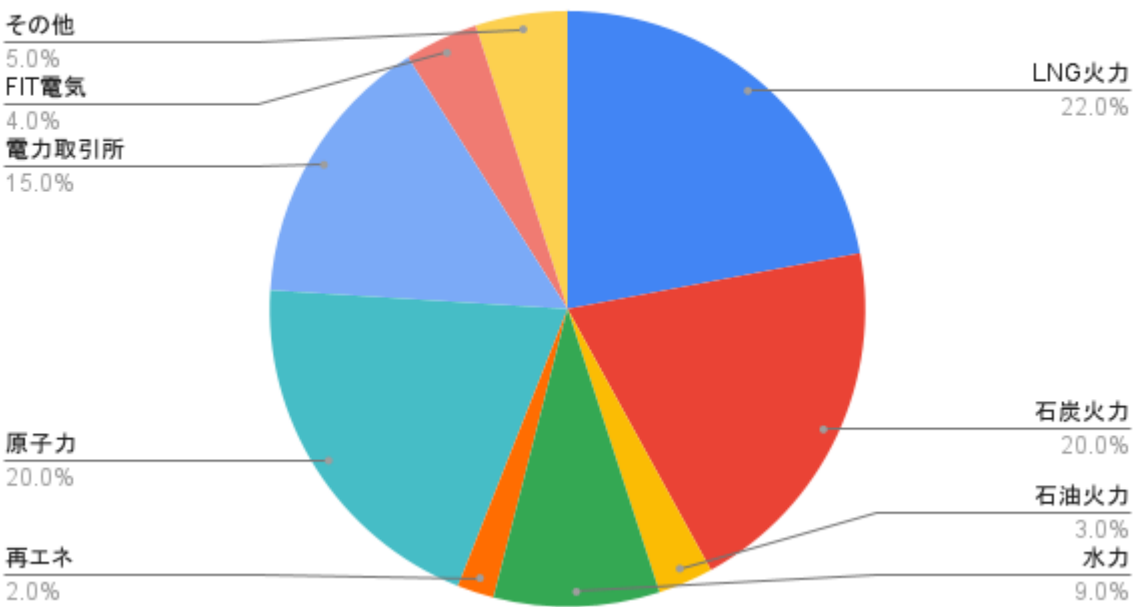
### 東京電力 2022年度実績



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

???????LNG?????73????????????????27??CO2????????  
??????????

### 関西電力 2022年度実績



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

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





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?? ?? · Saturday, July 20th, 2024




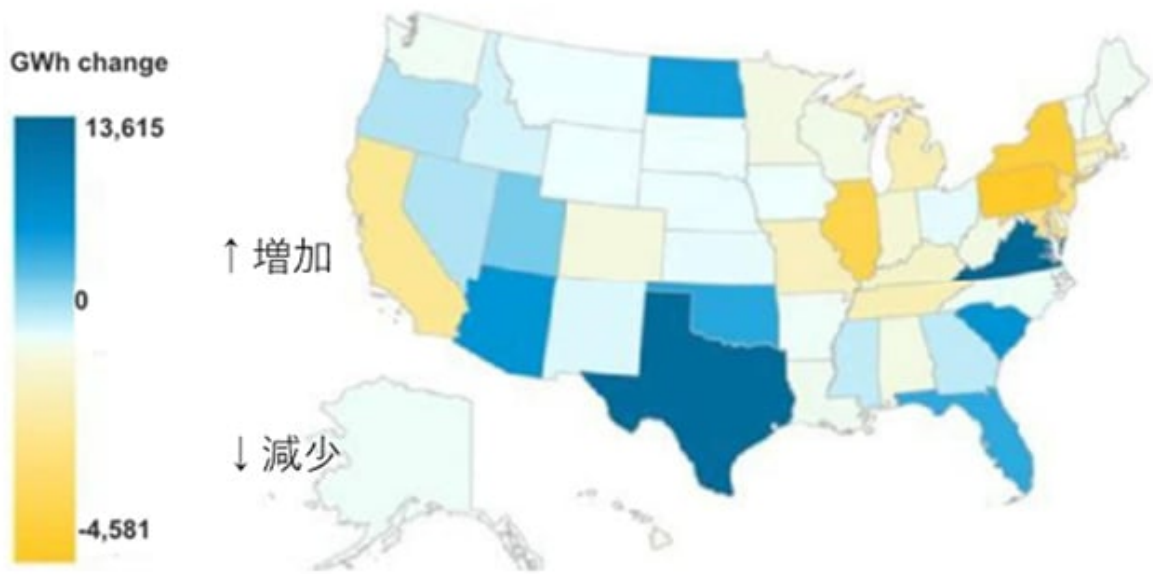
da-kuk/iStock

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??6????????????????EIA????????????????<sup>11</sup>????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) 



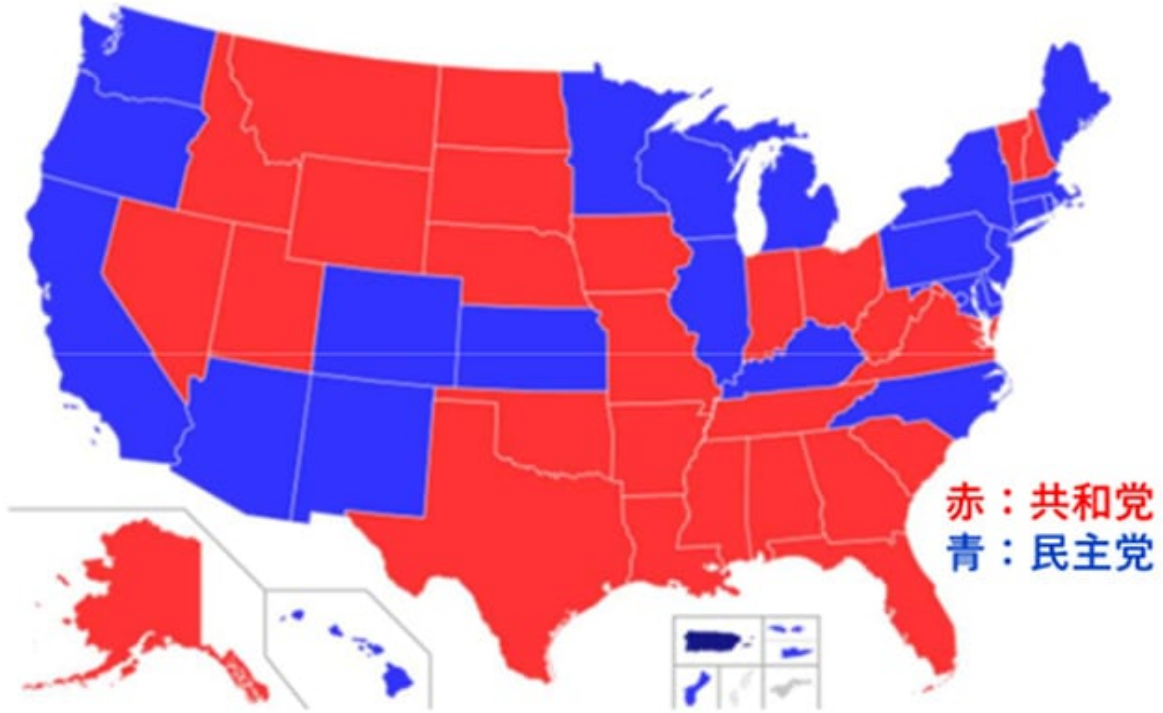
Data source: U.S. Energy Information Administration, [Electricity Data Browser](#)

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

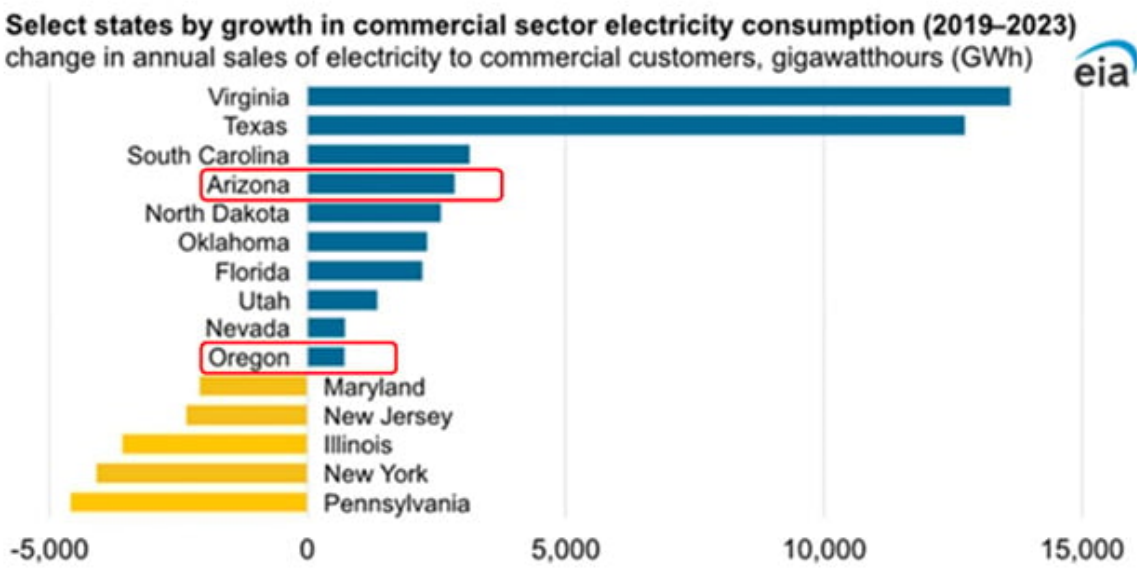
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????420?kWh?10????????????40????????280?kWh?????3????????????

??<sup>22</sup>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10月、米国平均の電力コストは10.8c/kWhから9.35c/kWhへと低下し、2023年には12.41c/kWhへと上昇した。これは、再生可能エネルギーのコストが21.81c/kWhと高コストであるにもかかわらずである。

2023年5月、米国平均の電力コストは15.75c/kWhと上昇した。これは、RGGI（Regional Greenhouse Gas Initiative）によるCO2排出量の削減が原因である。<sup>23</sup>

米国平均の電力コストは、再生可能エネルギーのコストが低下しているにもかかわらず、2023年には15.75c/kWhと上昇した。

米国平均の電力コストは、再生可能エネルギーのコストが低下しているにもかかわらず、2023年には15.75c/kWhと上昇した。

米国平均の電力コストは、再生可能エネルギーのコストが低下しているにもかかわらず、2023年には15.75c/kWhと上昇した。

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米国平均の電力コストは、再生可能エネルギーのコストが低下しているにもかかわらず、2023年には15.75c/kWhと上昇した。これは、ITやAIの需要が増加しているためである。米国平均の電力コストは、再生可能エネルギーのコストが低下しているにもかかわらず、2023年には15.75c/kWhと上昇した。





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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?????????

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?? ?? · Saturday, July 13th, 2024



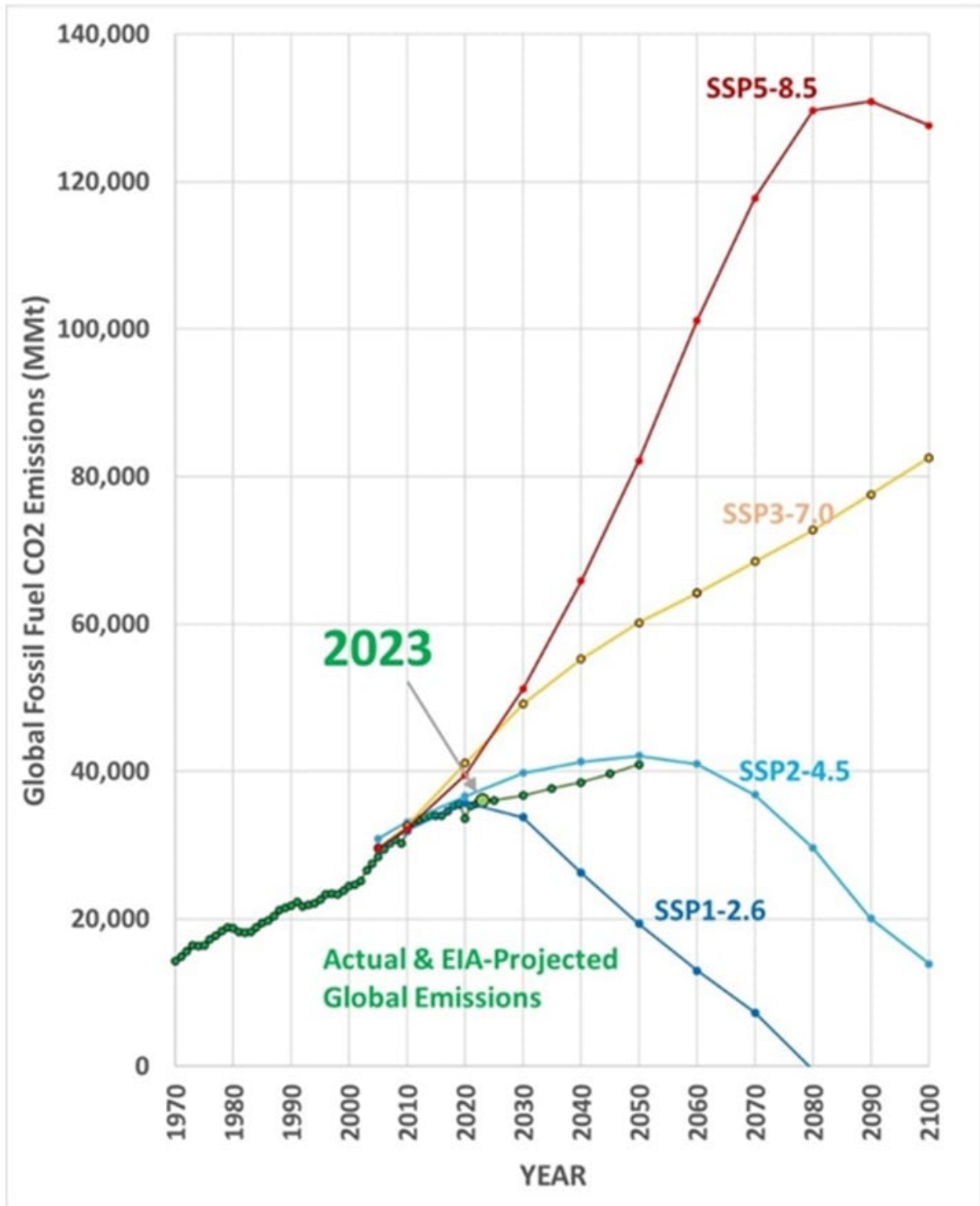
alexis84/iStock

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

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Stadtratte/iStock

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?? ?? · Monday, July 1st, 2024



zhengzaishuru/iStock

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GX????????????????????????????????DX????????????????????????DX????????????????????????  
?100?kW??????100????????

???UAE????????COP28????????IAEA????????2050????3????????????

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3. ?????????



REPowerEU 2030 100

European Hydrogen Backbone EHB 5

EHB EU 800 98 CO2



Petmal/iStock

2030 1000 2050 5000 CO2 10%

EU

FC

2017 2020 100 4 FC 2023 27 FC 8000

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## ????COP29

?? ? · Friday, June 21st, 2024



COP29 HP??

6????????60????????????????SB60????????SB60????2023??COP28????????????????2024?11??COP29????????????????????

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COP29????COP????????2015????????????????1000????????????????????????????????N CQG????????????NCQG?COP29????????????????2025????????????NDC????????????????????

????1.5????2050??

COP28????????????????????????2025????????2030??43??2035??60????2019????2030????? ??????3????????????2????????????1.5????????????????????????????????

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SB60????????????

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COP29????????????????????1.5??

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1xpert/iStock

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?? ?? · Sunday, June 16th, 2024



3alex/iStock

?????2050?CO2??GX????????????????

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??EV??ESG??EU????EU????SDGs????  
????SDGs????

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?? ? · Saturday, June 15th, 2024



RapidEye/iStock







