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?? ?? · Monday, March 18th, 2024



Niklas Flindt/iStock

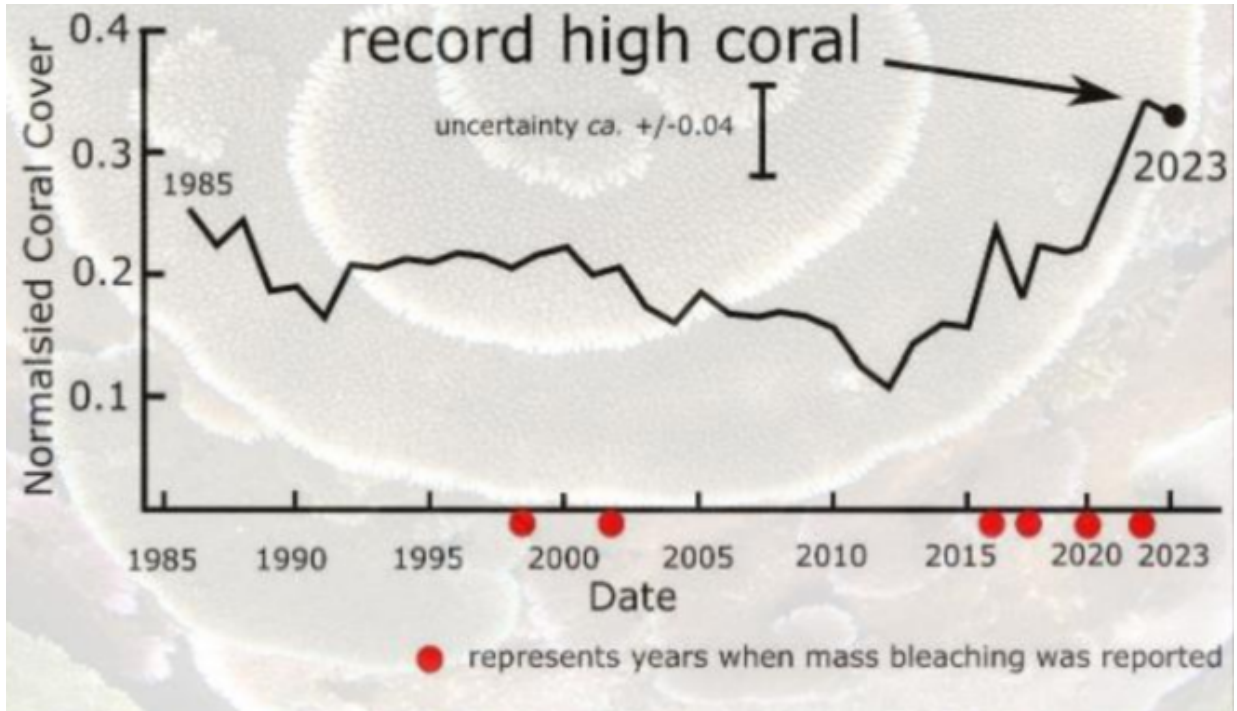
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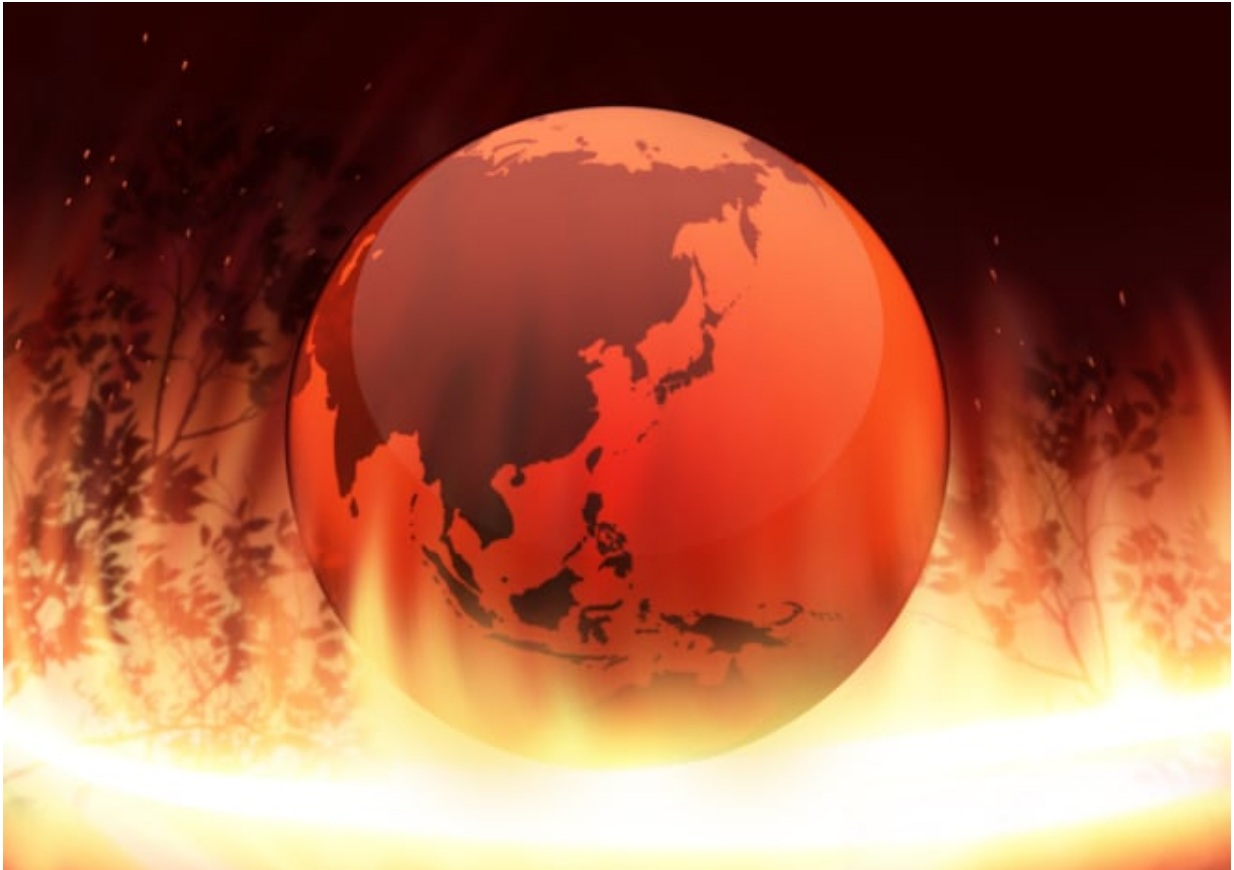
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?? ?? · Tuesday, March 12th, 2024



Tr6/iStock

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[pic.twitter.com/Jriq7emhUT](https://pic.twitter.com/Jriq7emhUT)

— Kenji Shiraishi (@Knjshiraishi) March 8, 2024

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?????Nature Science Report?????????

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?? ?? · Monday, March 11th, 2024



gorodenkoff/iStock

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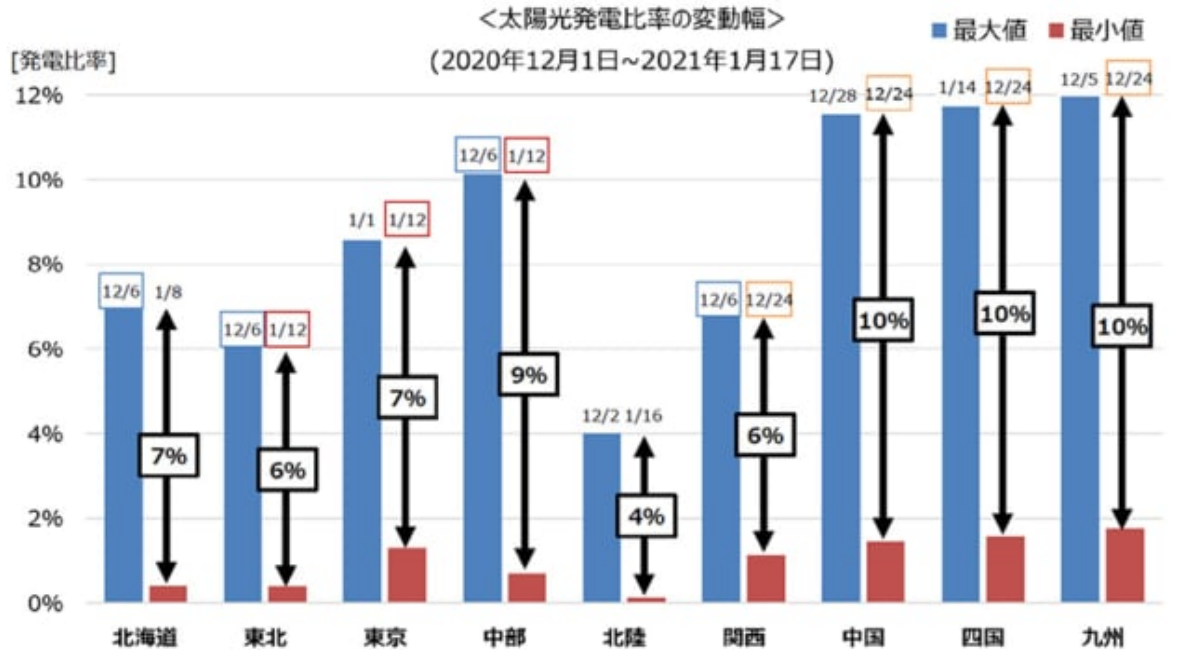
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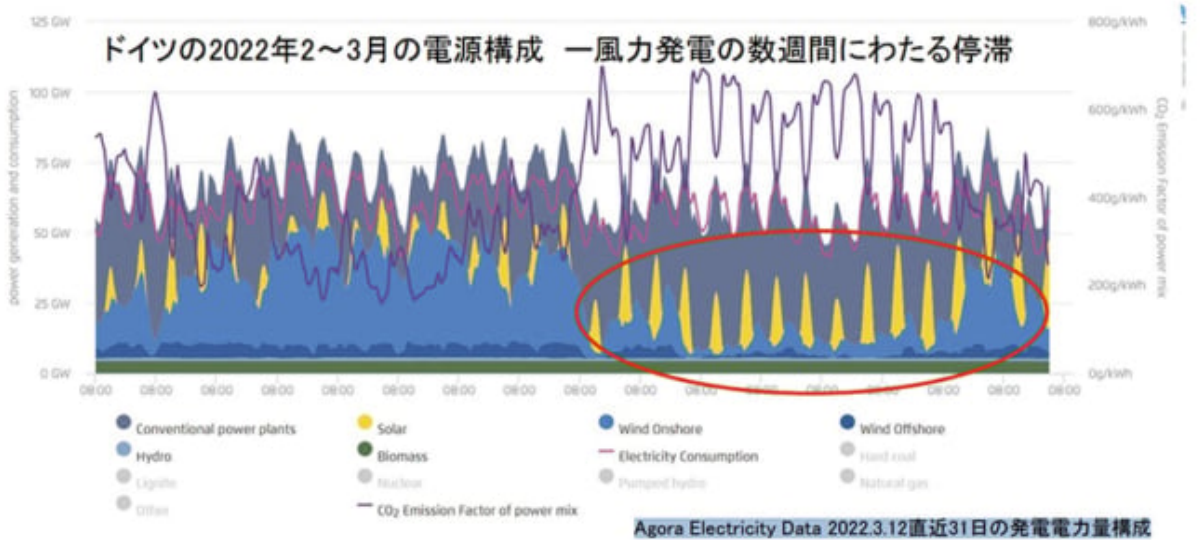
【参考】太陽光発電比率の変動幅（2020年12月1日～2021年1月17日）

● 2020年12月1日～2021年1月17日の期間において、発電量全体に占める太陽光の発電量比率の変動幅（最大値と最小値の差）は、各エリアの総発電量の約4%～約10%分となっている。



※事業者ヒアリングに基づき、資源エネルギー庁作成。棒グラフ上に最大値、最小値を記録した日付を記載。12

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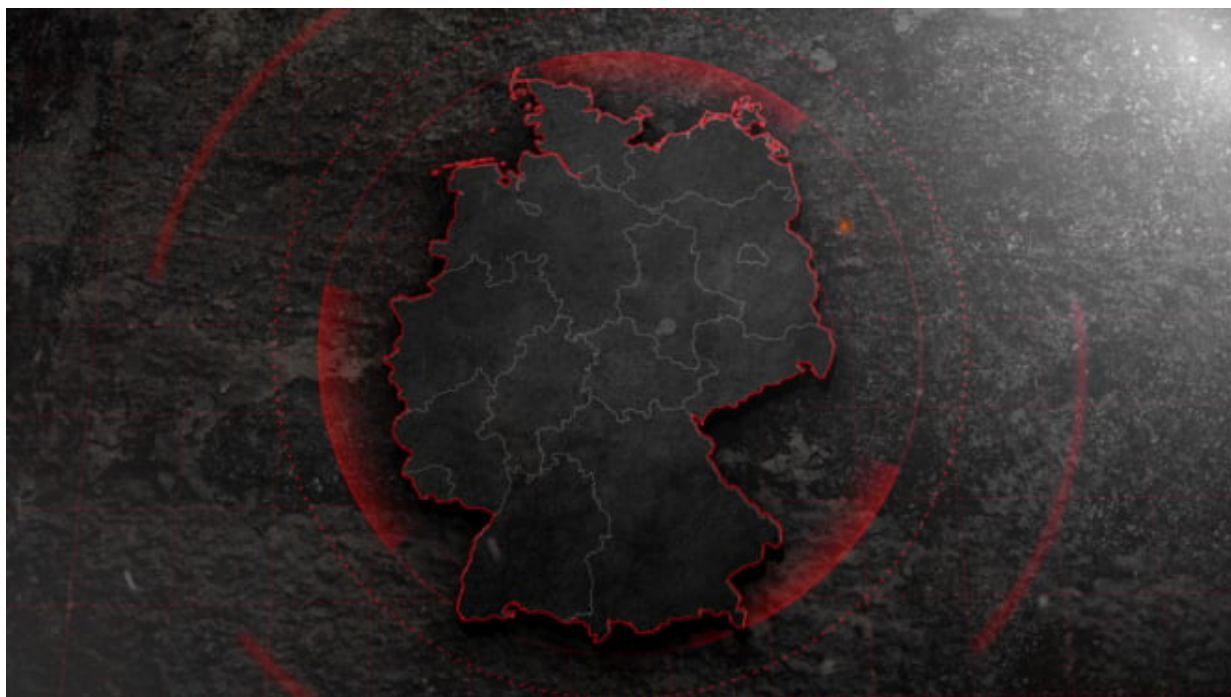
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Posted in ??????????, ??? | No Comments »

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?? ??? ?? · Sunday, March 10th, 2024



Muhammet Camdereli/iStock

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8????????????36????????????

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Posted in ???, ?? | No Comments »

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?? ?? · Sunday, March 10th, 2024



taka4332/iStock

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?????2000????CO2????????????????????IPCC????1????0.5?????  
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43????????????????????60?????

**Q26-3 太陽光パネルの導入効果について③** 60  
 新制度により住宅への太陽光パネルの導入が増えると、  
 どの程度のCO<sub>2</sub>削減効果がありますか？

**A 26-3** 新制度で義務化される導入分に加え、その波及効果等も合わせると、2030年までに新築・既存含めた都内住宅で新たに100万kWの太陽光パネルが導入されることを想定しています。このCO<sub>2</sub>削減効果は、年間約43万tであり、2030年までに家庭部門で必要な削減量の約5%に相当します。

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

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?? ?? · Thursday, March 7th, 2024



ConceptCafe/iStock

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2026??2023????????????????????????2023

1011????????2025????????  
2026????????

EV????????ESG???

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202X?XX?XX?

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202X?XX?2050????2030?2013?47%????CO2????

????6????2030?46%????CO2????PPA????

5????6????

2030?CO2?46%????6%????6???

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2022?11????27????COP27????CO2???

EU?2023?9????UCPD????CRD????2026????

2050????2030?47%????2030?2050????CO2????

SDGs????

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????CO2???





1. ????

2015?12??COP21?????2016?11?4????????????8????????????2020?10????????????2050????  
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4,731????

2023????EV?10????750,789??F????????????CFO??  
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**Ford Lost \$4.7B On EVs Last Year, Or About \$65K For Every EV Sold – Climate Change Dispatch**

EV????SNS????EV????TV????????  
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2015??JP????????????????3????????????????????????????????  
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?????????????????ESG??????????????????????

**Climate Action 100+**

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**5. ????**

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

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?? ?? · Wednesday, March 6th, 2024



### (参考) 出力制御対策パッケージ (案)

- **出力制御の低減に向けた新たな対策パッケージ**では、
  - **需要面**での対策により、出力制御時間帯の**需要家の行動変容・再エネ利用を促しつつ**、
  - **供給面**での対策により、**再エネが優先的に活用される仕組みを措置**するとともに、
  - **系統増強**等により、**再エネ導入拡大・レジリエンス強化の環境を整備**するなど、**切れ目のない対策**を講じる。
- その際、太陽光等の更なる導入拡大を見据え、**中長期的な観点から、特に需要面の対策に重点**を置き、家庭・産業それぞれの分野で**予算措置と制度的措置を一体的に講じる**ことにより、**供給に合わせた需要の創出・シフト**を図る。

【具体的な対策】

<b>1. 需要面での対策</b>	
①需要側のリソースの活用に向けた消費者の行動変容の促進（電気料金メニューの多様化等）	④電炉等の電力多消費産業におけるDRの推進
②家庭用蓄電池・ヒートポンプ給湯機の導入を通じた需要の創出・シフト	⑤電力の供給構造の変化に合わせた電力多消費産業の立地誘導・需要構造の転換
③機器のDR Ready化（通信制御機器の設置）	⑥系統用：蓄電池、再エネ併設蓄電池、水電解装置の導入を通じた需要の創出・シフト
⑦事業者用：蓄電池の導入や、事業者所有設備への通信制御機器の設置の支援等	
<b>2. 供給面での対策</b>	
①再エネ発電設備のオンライン化の更なる推進等	②新設火力発電の最低出力引下げ(50%→30%) 等
③出力制御時の他エリアでの非調整電源の出力引下げ	④火力等発電設備の運用高度化
⑤水力発電を活用した出力制御量の抑制	
⑥電力市場の需給状況に応じた再エネの供給を促すFIP制度の更なる活用促進	
<b>3. 系統増強等</b>	
①連系線の運用見直し等による域外送電量の拡大	②地域間連系線の更なる増強による域外送電量の拡大
<b>4. 電力市場構造における対応（中長期的な検討課題）</b>	
◆価格メカニズムを通じた供給・需要の調整・誘導	

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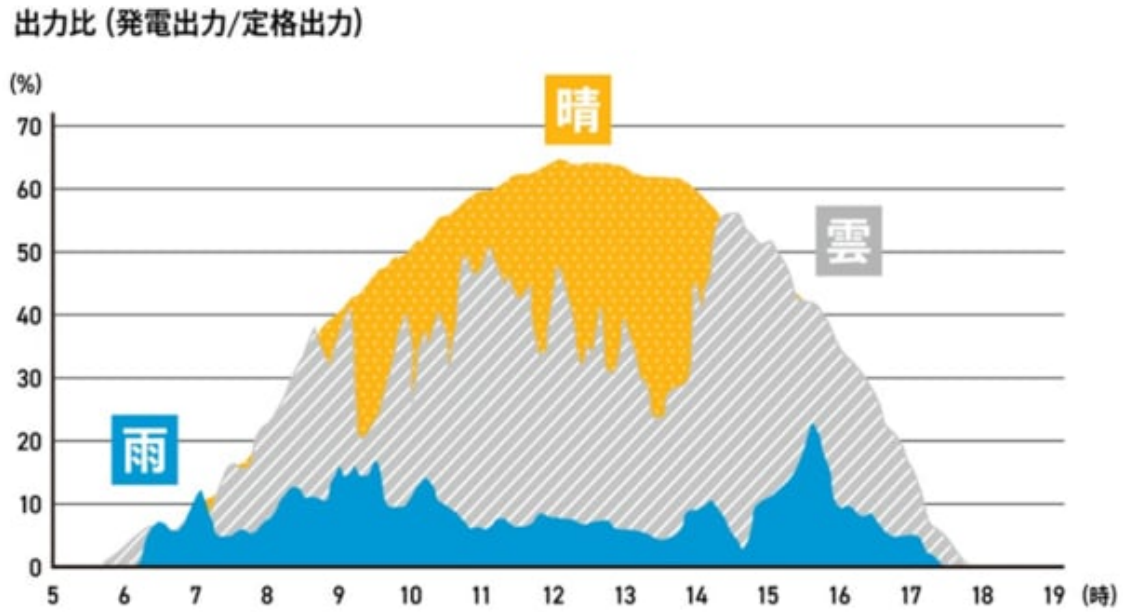
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- ①火力(石油、ガス、石炭)の出力制御、揚水・蓄電池の活用
- ②他地域への送電 (連系線)
- ③バイオマスの出力制御
- ④太陽光、風力の出力制御
- ⑤長期固定電源※ (水力、原子力、地熱) の出力制御

※出力制御が技術的に困難

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7ene@proton.me

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10. CO2

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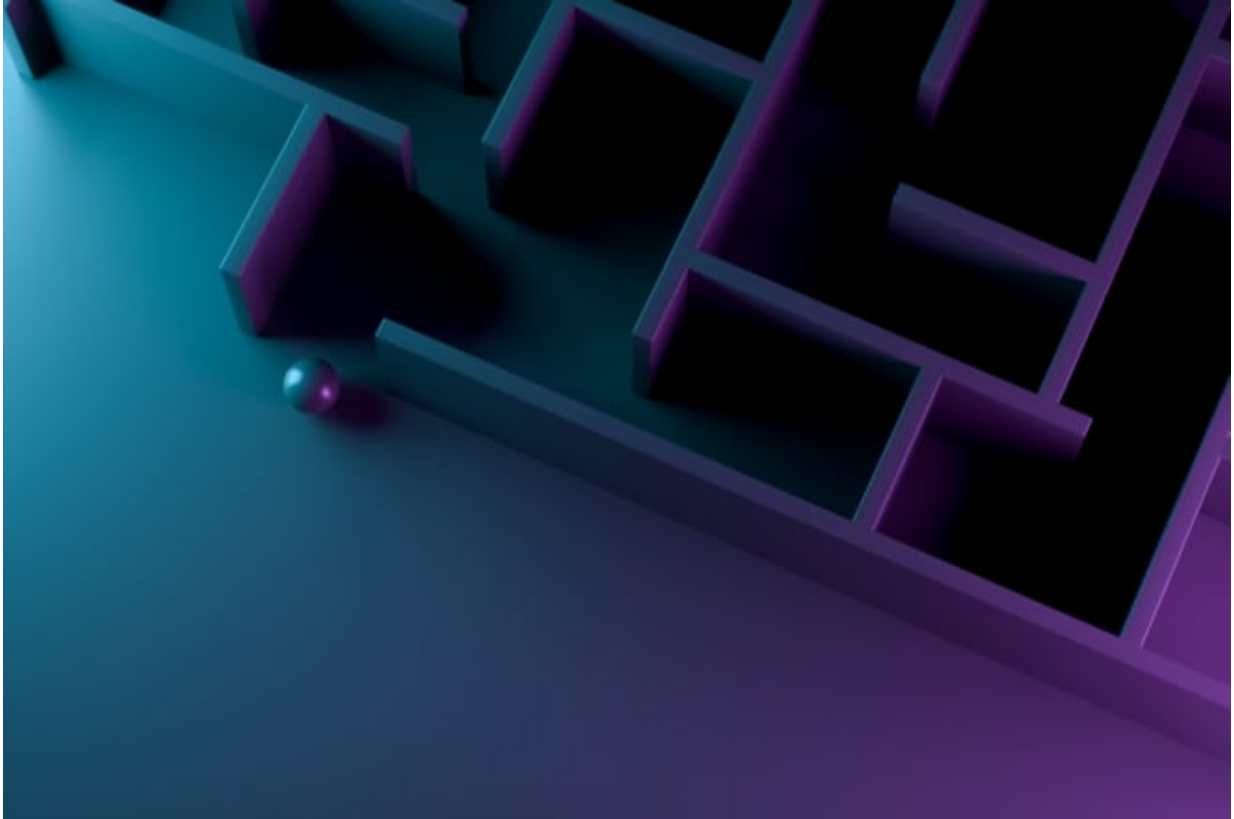
CO2

2050 CO2

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akinbostanci/iStock

COP28????????????????????1.5????????????????????????????????????1.5????2050  
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**The Death of the 1.5 Degree Climate Target??????????1?8??????????????**  
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Lari Bat/iStock

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

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

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





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— ?????????? (@kahoku\_shimpo) January 27, 2024

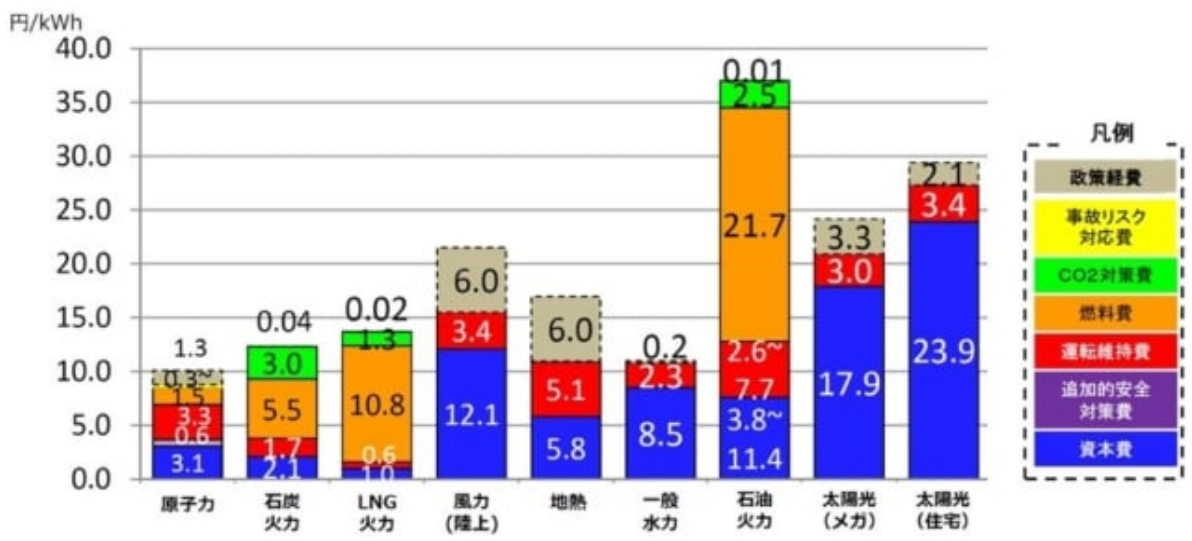
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??1kWh????????????????10????????12????????14?????



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1. **A**????????????1,617????
2. 75????**B**????372????
3. **A**?**B**?4????260kWh????140????611????
4. ?????140????611????

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**A**????1?3????1,352????265????

**B**????2????811????  
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## ????????????????14????????5??

?? ?? · Wednesday, February 28th, 2024



Lari Bat/iStock

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

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?? ?? · Saturday, February 17th, 2024



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Climate change is “the single-most existential threat to humanity we’ve ever faced, including nuclear weapons.” ?Whitehouse.gov, January 31, 2023?

“If we don’t keep [global temperature] below 1.5 degrees Celsius over the — be — not go above that — we’re going to damn our children to a circumstance that is going to be the only truly existential threat under nu- — other than nuclear war.” ?Whitehouse.gov, March 14, 2023?



“The only existential threat humanity faces even more frightening than a — than a nuclear war is global warming going above 1.5 degrees in the next 20 — 10 years.”  
?Whitehouse.gov, September 10, 2023?

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Posted in ???, ????? | No Comments »

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?? ?? · Monday, February 12th, 2024



Alberto Masnovi/iStock

????2023??2025??4??????1???????

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

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?? ?? · Friday, February 9th, 2024



Agenda47: President Trump on Making America Energy Independent Again

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

# CO2??

?? ?? · Tuesday, February 6th, 2024



baileystock/iStock

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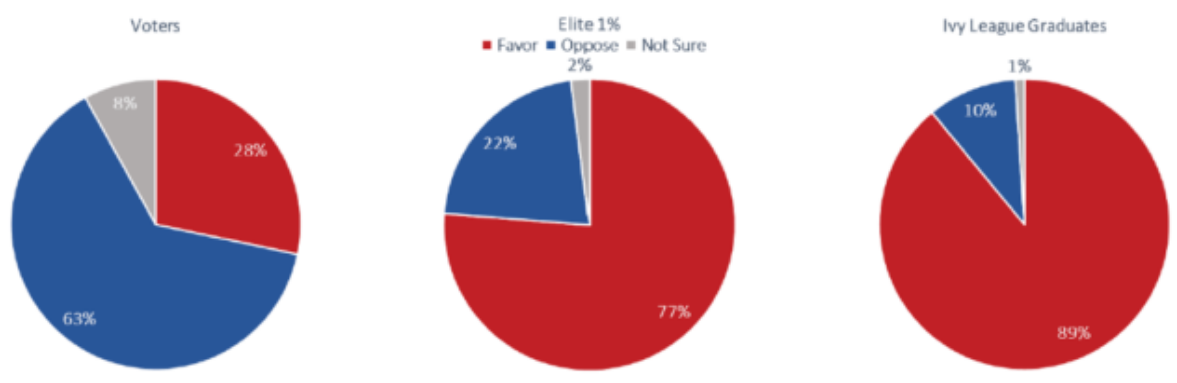
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**1.????????????????????????????????????**

?????63%????????????????77????????????????89%???

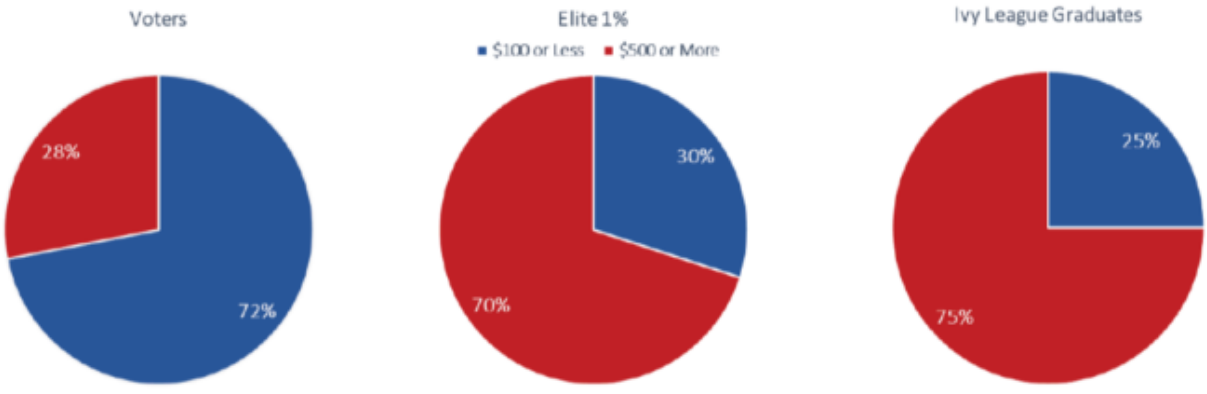
To fight climate change, would you favor or oppose the strict rationing of gas, meat, and electricity?



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

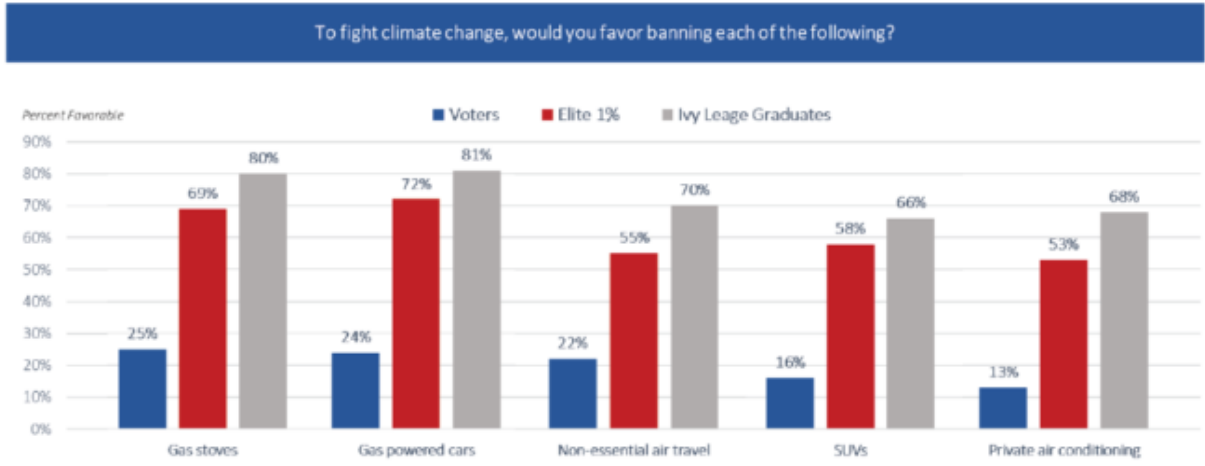
?????72??100??????????70??500?????

How much would you personally be willing to pay each year in terms of taxes and higher costs to reduce climate change?



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

????????????????????SUV????????????????????13??25????????????53??  
72????????????????????66??81????????????



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Posted in ???, ????? | No Comments »

# CO2??

?? ?? · Monday, February 5th, 2024



Sakorn Sukkasemsakorn/iStock

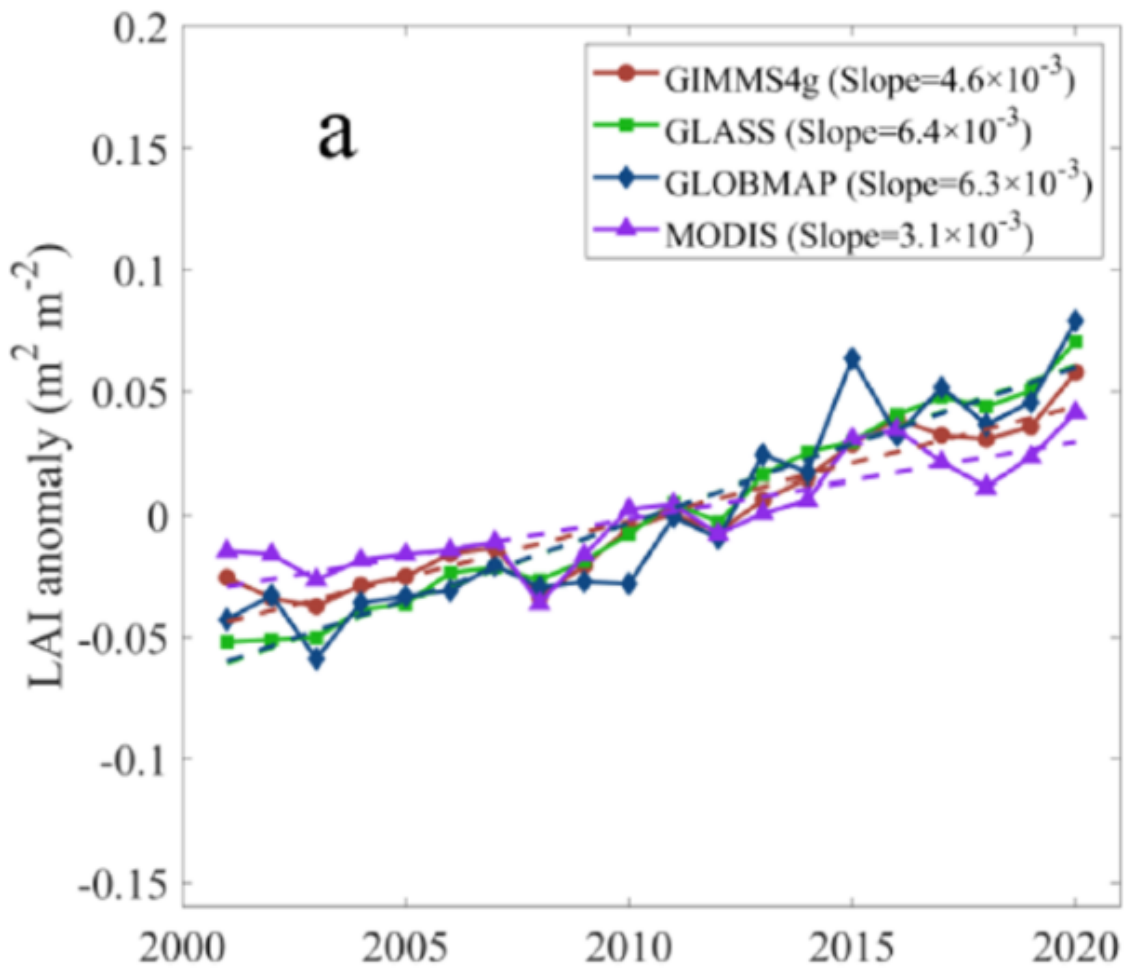
CO2??global  
greening)??

???2000??2020????????????????Leaf Area Index, LAI??????

LAI??????1??3????1??????????1????????????????????  
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?1?LAI???

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CO2?????Srad?????P???????Soil Moisture, SM?????Airt??5??????????????2??

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



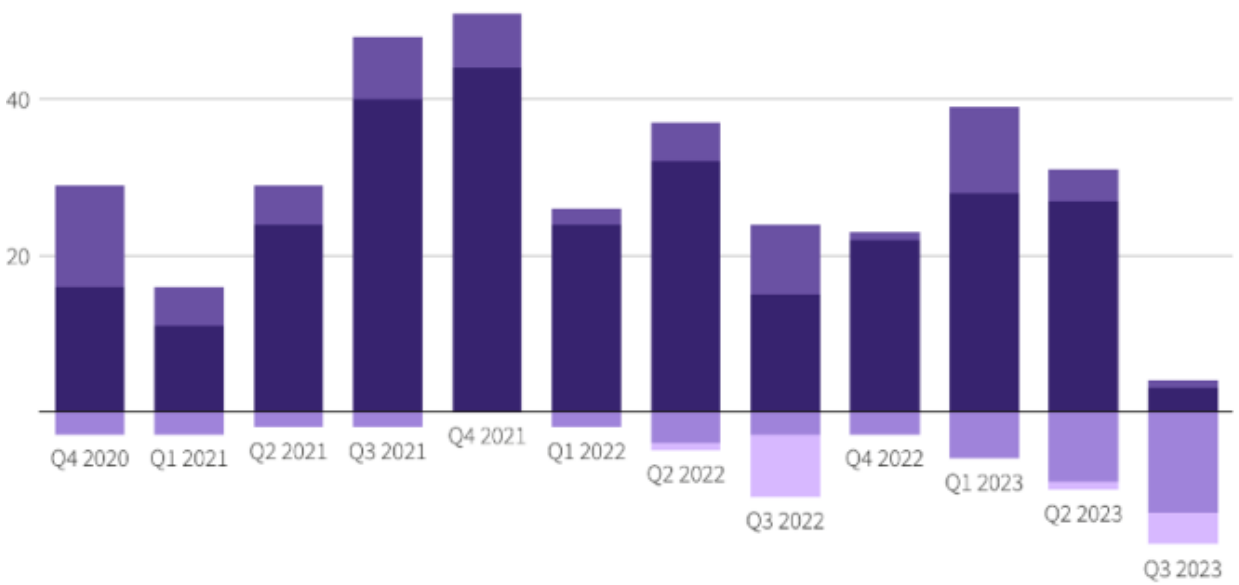




# Sustainable fund launches plummet

Asset managers closed sustainable funds faster than they opened new ones in the third quarter

● Launches ● Funds moved into sustainable category ● Closures ● Funds dropping sustainability mandates



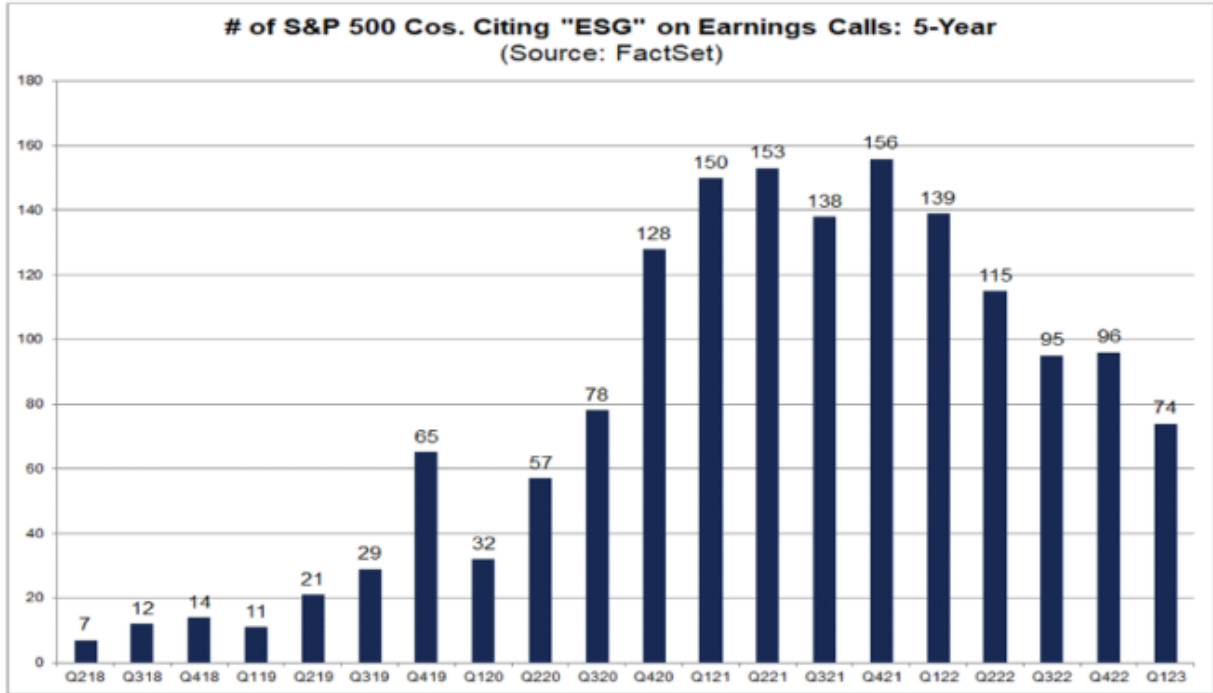
Source: Morningstar Manager Research

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## ??????ESG??????S&P500??????2020??2???????



??????ESG????????????????74??????S&P500????????????????ESG????????????2020  
 ??2????57????????????2021??4????156????????????????ESG??????S&P500?????5?  
 ?????4????????????????2022??4????????????2023??1????????????ESG?????S&P50  
 0????23%?????



FACTSET

2018-2023

Q218-Q123

ESG



ESG  
ESG  
ESG  
“ ”  
“ ”

ESG  
ESG

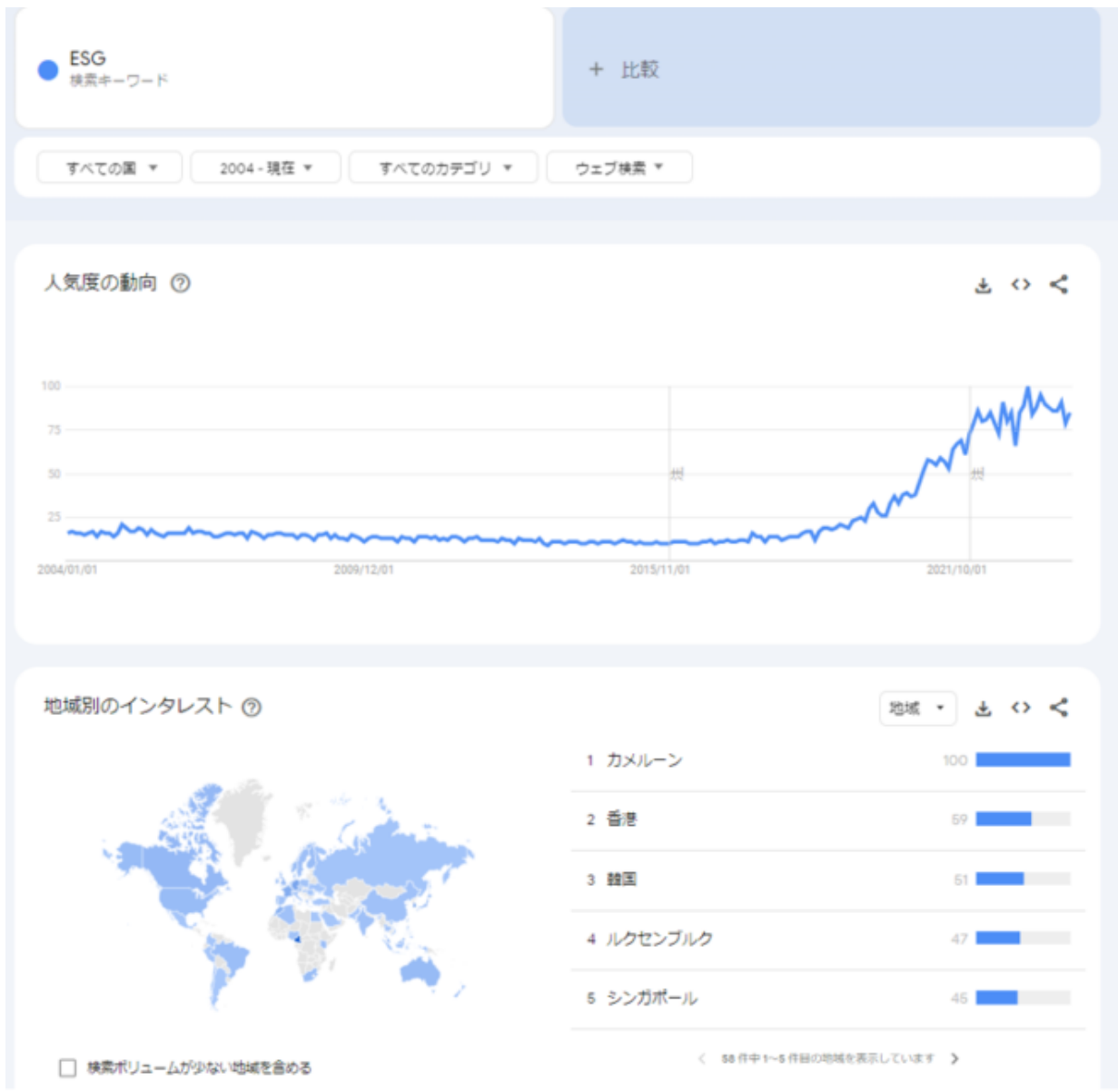
ESG  
ESG  
ESG  
ESG

ESG  
DWS  
ESG

ESG







???Google???

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

ESG??ESG??ES  
 G??ESG????????????????????????

ESG????CO2??  
 ?????CO2??  
 ?????????????????????ESG????????????

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EV?HV?PHV?  
transitional

“transitional fuel?” COP

transitional

“transition away from fossil fuels” COP

COP2022 COP2023

COP127 COP11

COP UAE

COP28

CCUS? COP

COP28

125 CO2

CO2

CO2

de-industrialization

de-industrialization

EU de-industrialization

EU de-industrialization

?????????10?11????????????5.4%?5.8%????<sup>11</sup>????????????

????????????0.3%?????G7????

????????11????????600????

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????IT????EU????

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

????EU????EU-CBAM????CBAM????

CBAM????EU????EU????

EU-ETS????2013????EU????1500????EU????1000????EU????1.5????2500????1500????1000????17????

EU????ETS????ETS????FIT????EU????EU????

EU????CBAM?EU??

**???EU?????**

EU????EU????

????

EU????



EU CO2 EU  
EU  
EU

COP28

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EurActiv, January 16, 2024

Posted in | No Comments »

????????

?? ?? ? - Thursday, February 1st, 2024



ollo/iStock

10 CA?

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**????????GDL????????**

????????????????????????????????????GDL????????????33?4000????????????  
??100????????GDL????????????4????????????????????????????????????  
????????????????????????????????15?GDL????????

GDL????????????555????????????25????????????????3000????????????  
????????38????35????????

??12?7?8?GDL??

????????????????????????????????????3????????????GDL?1????????1?9?????10  
????????????12????????

????8????????????????1????????????????????????????????????  
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????????????????????????CO2????????????????????????????????

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??340km????????  
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????????????????DGL??1?24?6?  
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**????????????????**

??6????????????????????????????????????1????2500?3000????????  
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????????????????????1????1????????????????????????????  
??6??10????????????EU????????????6????????  
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DGL?4??  
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????????????X????????????35????????  
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??GDL??52????????????6????????  
“?”??16????????????

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?????1994????????????100??  
????????30????????????????????????

????????????????????????????????3????????????????????????1????????????????????????????  
????????????????????????????????3????????????????

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??29?18????????????????????5????????????????????????????????3????????????

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????????????????????2?1??  
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Posted in ???, ?? | No Comments »

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?? ?? · Wednesday, January 31st, 2024



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SNS??

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- ???2????????1????????????????????
- ?????????????????????1?2????600?????
- 2????????????????????1000? ??????????

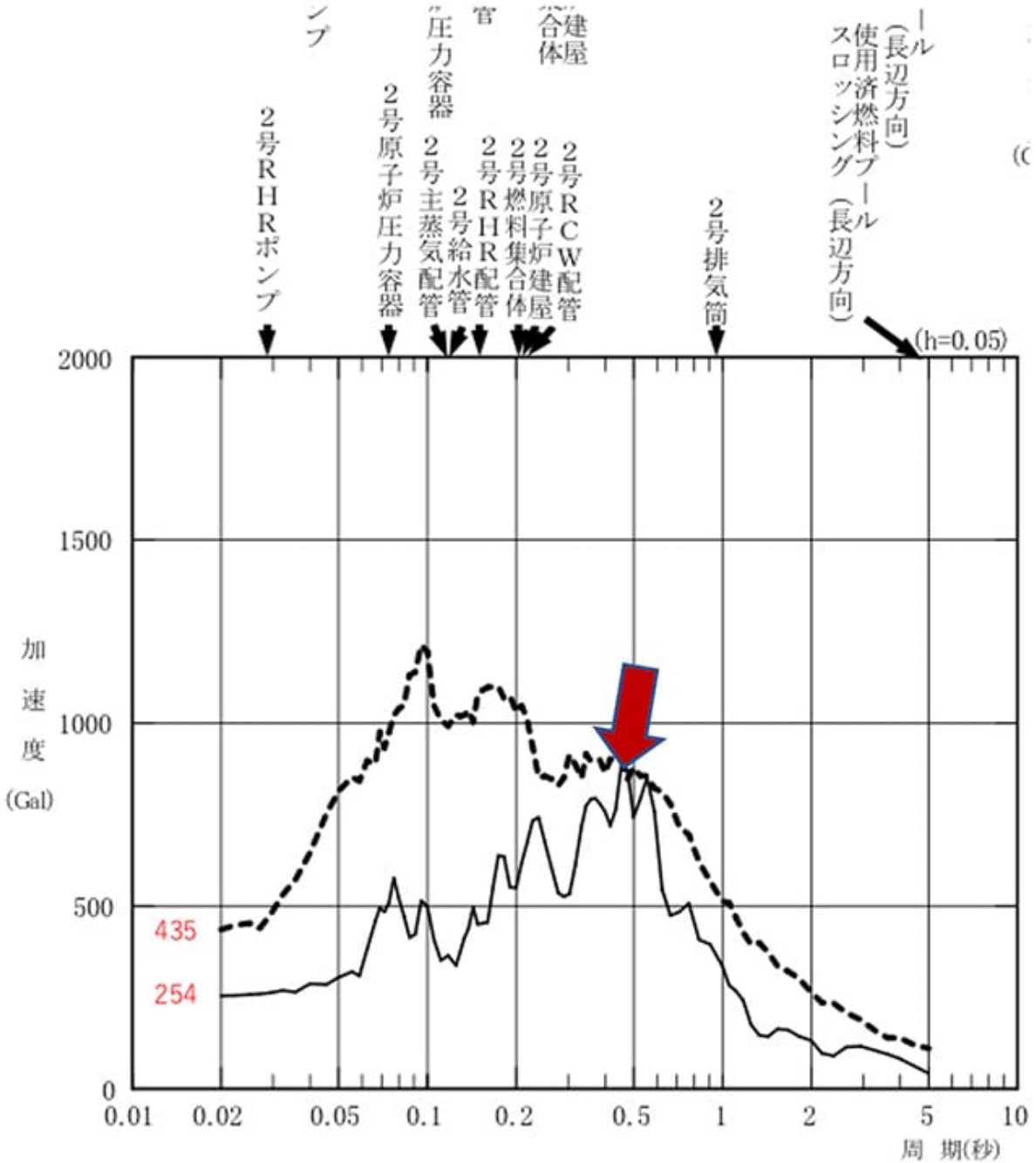
- ?????1000??

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



??1?2????????????????????????  
 ??????1?????????0.47?????918?????????957??

??????2????????????????????????846?????????871?????????????????0.47????????????????????????



?1?????2????????????  
 ??????????????, P. 46?

1????????600??0.47????????????????????  
????????871????600????“?”????????????????????846????????????????????

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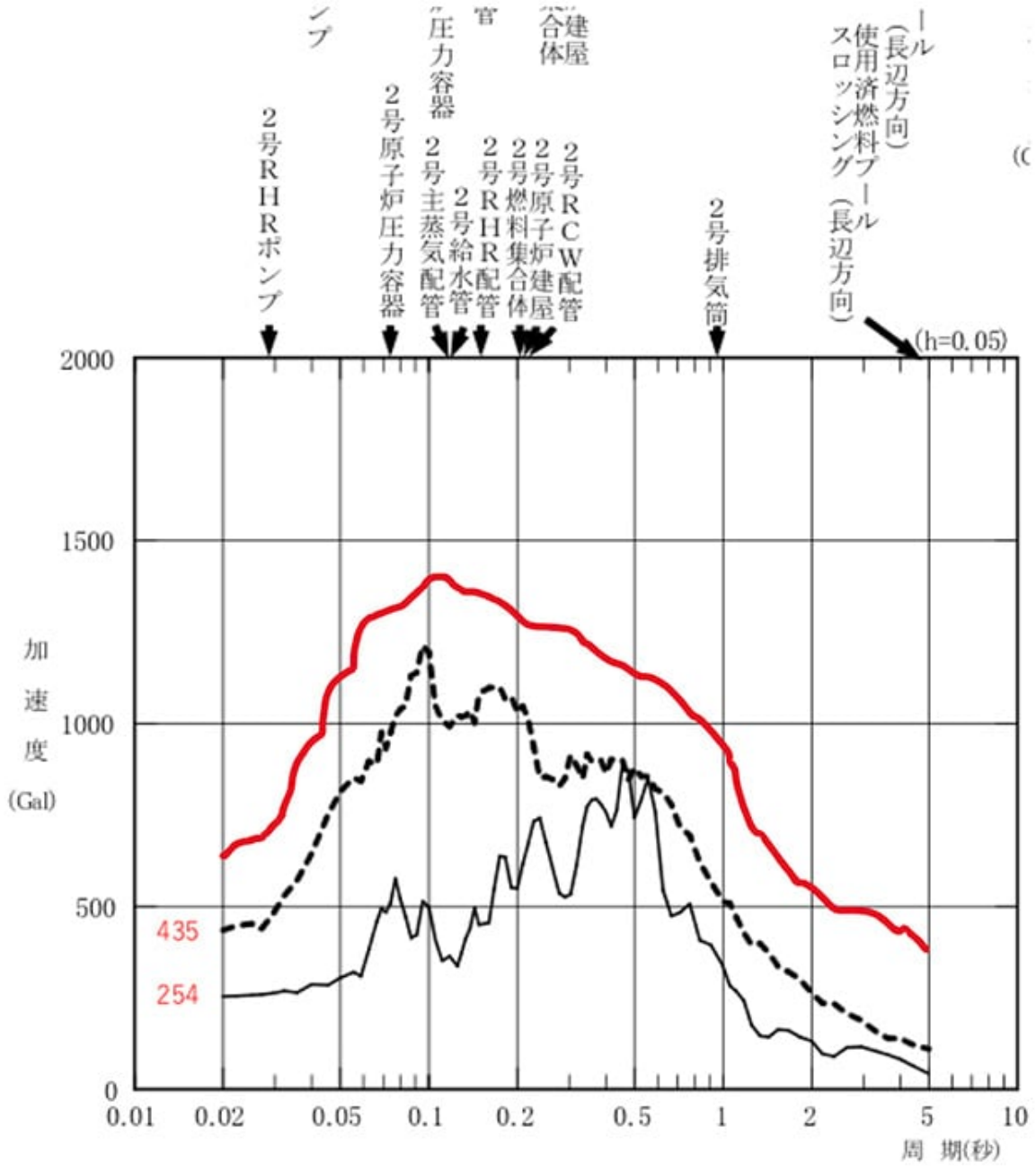
??F????????????????G????????????????G????????????  
????????1G?980????????980??1G????????????????????????????

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????2?“?”????1000??

????2????????1000????????????????1000????????????????

????1000??







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??2,933????????????????????????????????1????????????2?????B????????????

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

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

?? ? · Wednesday, January 24th, 2024



Cinefootage Visuals/iStock

2023?12????????????COP28????????????????????????????????????

COP28??2050????????????????????10??  
??transition away from fossil  
fuels??

???COP28?2??28????  
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????????????????????1928??  
 ???10????????????????????  
 ???UAE?  
 ?????????????????????????????????????OPEC??2022??28??????????10.6????????????????  
 ?????????????????????????????

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Posted in ???, ????? | No Comments »

## ???CO2????????????????????????????

?? ?? · Saturday, January 20th, 2024



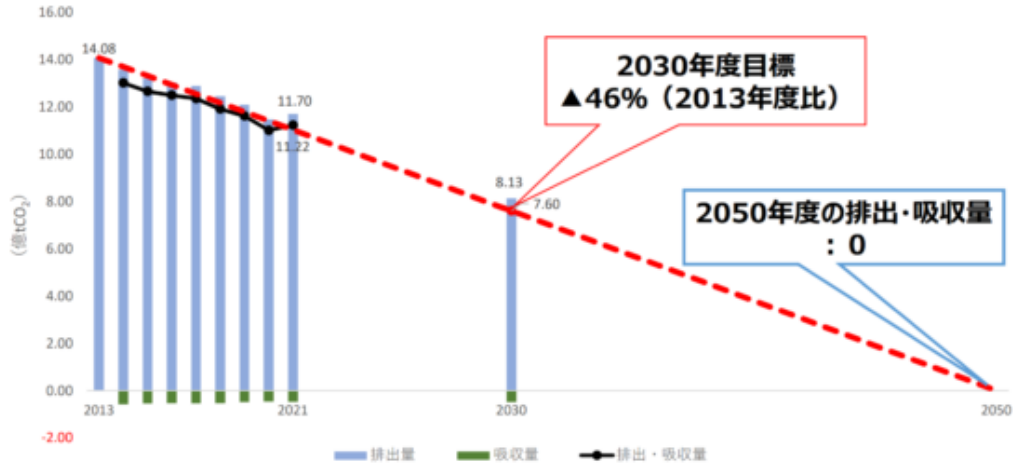
Slavica/iStock

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# 2030年度目標及び2050年カーボンニュートラルに対する進捗



- 2020年度からの増加については、コロナ禍からの経済回復により、エネルギー消費量が増加したこと等が要因と考えられる。
- しかし、2019年度からは3.4%減少しており、2030年度目標の達成及び2050年カーボンニュートラル実現に向けた取組については一定の進捗が見られる。



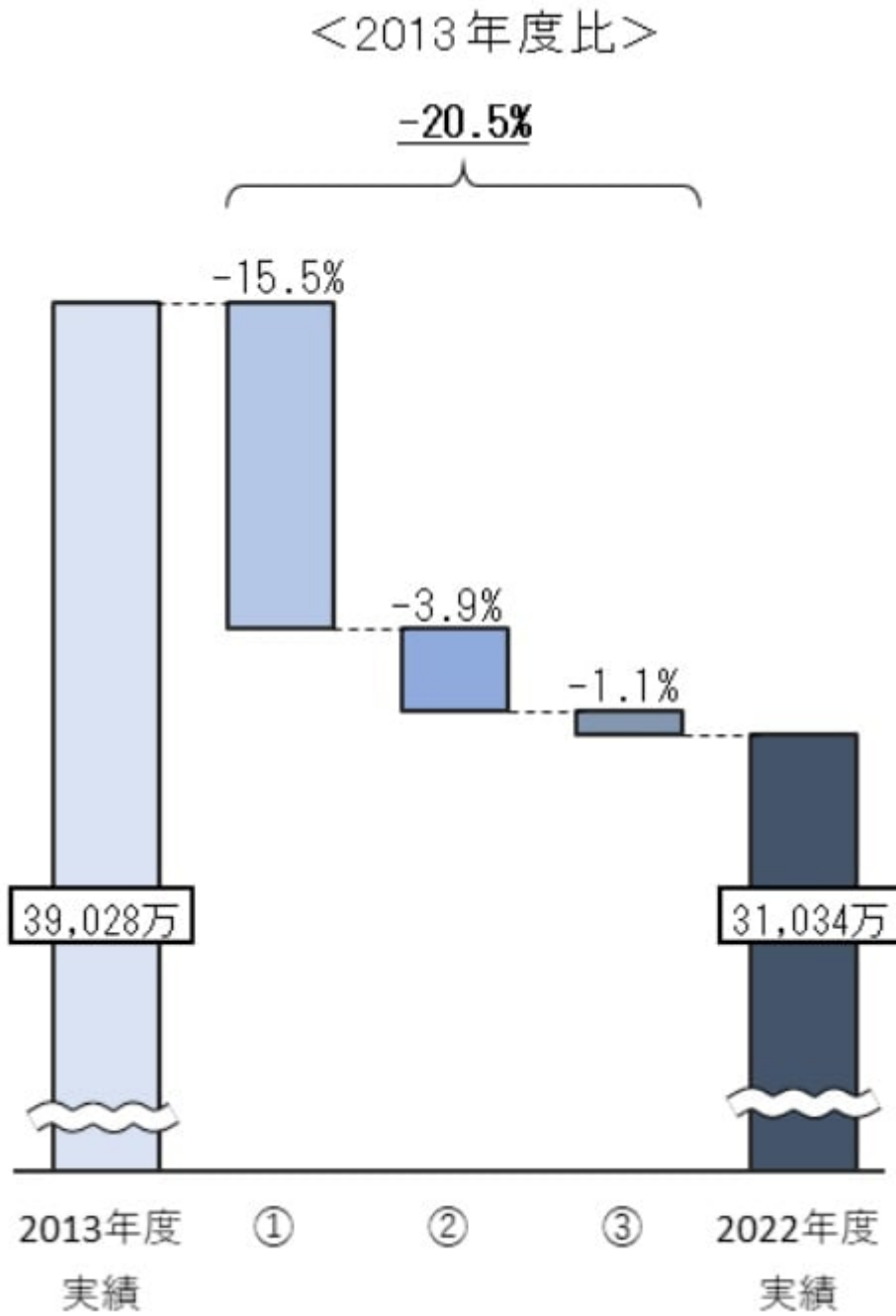
2

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

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

????????2013????2022????CO2????????76????????????????

????????????????24%????

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

????????????????CO2????????2030??2050????????????????????????????????  
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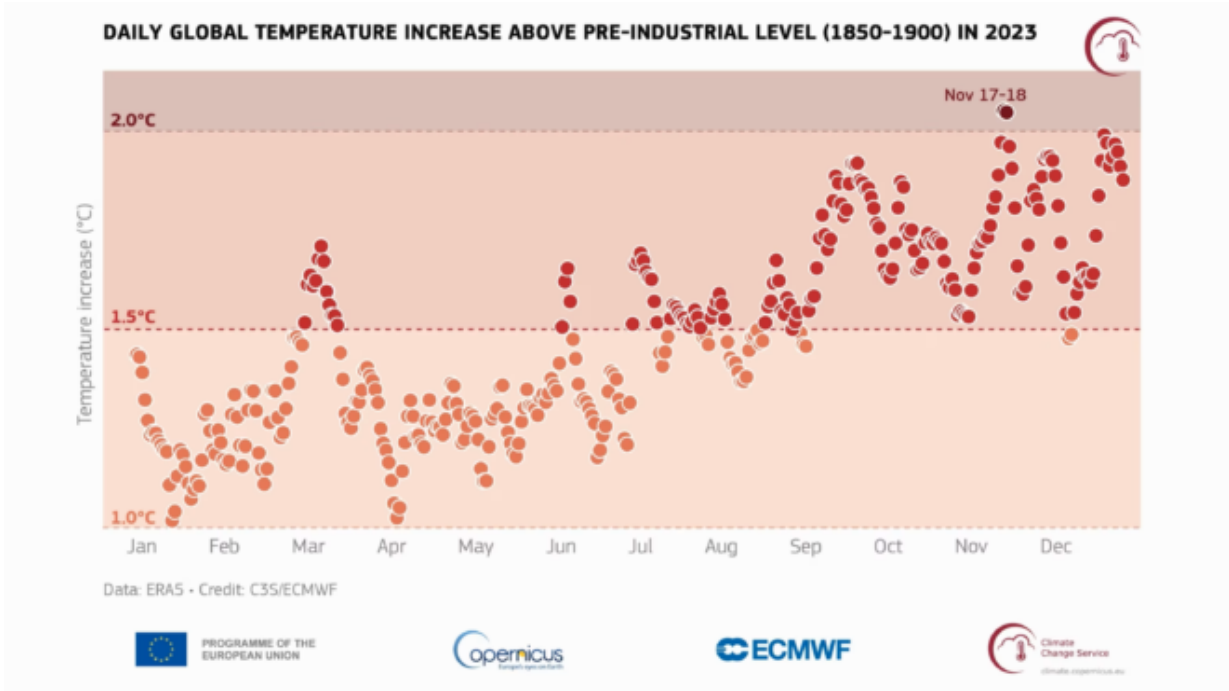
Posted in ??????????, ??, ????? | No Comments »

????????1.5????????????????

?? ?? · Wednesday, January 10th, 2024

EU????????????????2023????????????????1.48????????

????????1.5????????????0.02????????1.5????????  
????????



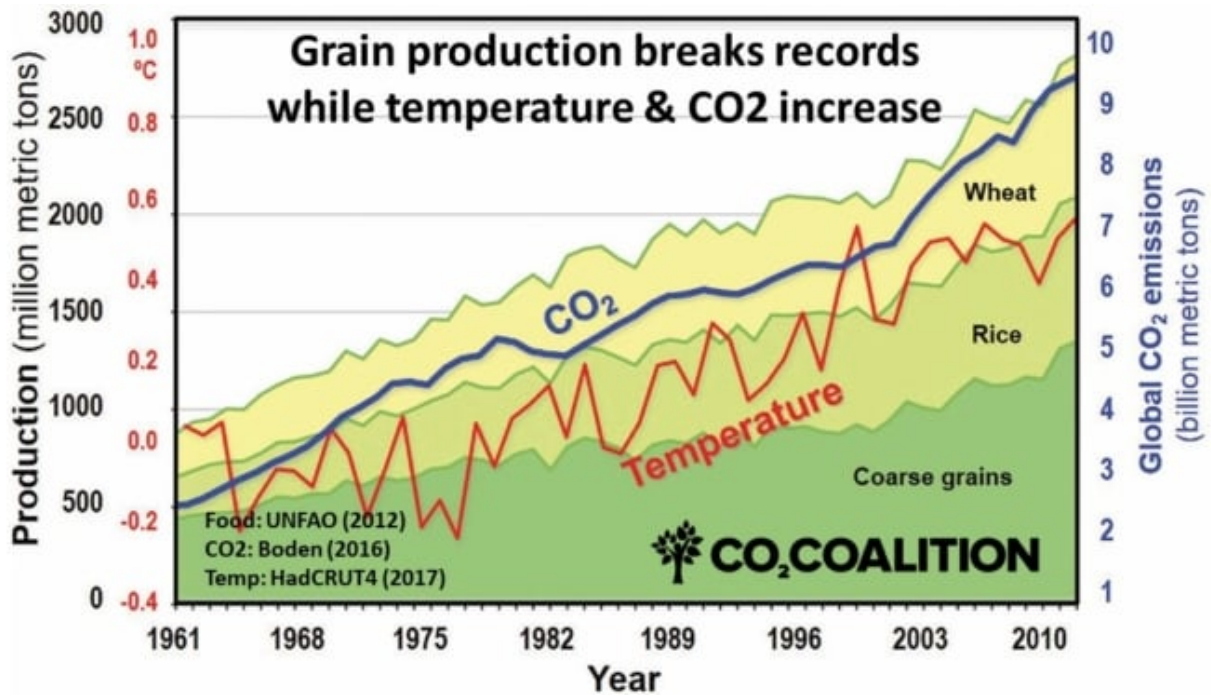
????1.5????(ABC News)

????????????1.5??

CO????????????????

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CO??



CO2????????(CO2 Coalition)

??10????????WMO??????????4.5mm????????IPCC????????7mm????????????????????????????????



