

Global Energy Policy Research | GEPR

GEPR <http://agorajp.com/>

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?? ?? · Thursday, March 7th, 2024



ConceptCafe/iStock

EV 2023
EV 5

ESG ETF S&P ESG

JP 3 100+

ESG

2023 COP27

????????46% ???
??2030?2050????????????????????????????
?????????????????????ESG?SDGs??COP27
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????2023?10?????????2026??

2026??2023????????????????????????????2023
?10?11????????????????????2025??
?2026??

????EV??ESG????
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202X?XX?XX?

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???202X?XX??2050????????????????????????2030??2013??47% ?????????????????????CO2????????
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??6????????????????????2030?46% ?????????
???CO2????????PPA??

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????????2030??CO2??46% ?????????????????????????6% ?????????????????????????6??
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??1????????????????????????
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????????????????2022?11????????????????????27????????COP27????????????????CO2??
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??????EU??2023?9????????UCPD????????CRD????2026????????????????????
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????????????2050????????????????2030?47% ?????????????????????????2030??205
0????????????????????CO2????????????

???SDGs??

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ESG??

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

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?? ?? · Wednesday, March 6th, 2024



Dilok Klaisataporn/iStock

1. ????

2015?12??COP21?????2016?11?4????????????8????????????2020?10????????????2050????
????????????????????2035????????????EV????????????

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????CO2????????????????????CCS????????????????????????????CO2
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2. ?????EV?

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fuel????????

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????EV????EV????2?6????2023?4????2023????43????
??EV????EBIT????47????EV????72,608????EV1????6
4,731????

2023?????EV?10?????750,789??F????????????????????CFO??
????????2????????????????????????????????????EV????????????????????

Ford Lost \$4.7B On EVs Last Year, Or About \$65K For Every EV Sold – Climate Change Dispatch

EV????????SNS????EV????????????????TV????????????????????????????????????
??EV????????????????
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EV??
??PM????????
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2019????????????????CO2????EV????????????10????????????????????????????CO
2????????????CO2????????????????

10????????????????????????????????CO2????????????????????CO2????????????????
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3. ?????????

2021?8????????????2030????????????????????????????LCOE?Levelized cost of
electricity????????????????????????????????

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電源	石炭火力	LNG 火力	原子力	石油火力	陸上風力	洋上風力	太陽光 (事業)	太陽光 (住宅)
発電コスト (¥/kWh)	13.6~ 22.4	10.7~ 14.3	11.7~	24.9~ 27.6	9.8~ 17.2	25.9	8.2~ 11.8	8.7~ 14.9
設備利用率 稼働年数	70% 40年	70% 40年	70% 40年	30% 40年	25.4% 25年	33.2% 25年	17.2% 25年	13.8% 25年

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??BP??23????? ?Beyond
Petroleum?????2020????50????????50GW????????40?????
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????BP????10??
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BP lost \$1b in wind power and just flipped from cutting oil by 40% to increasing it « JoNova (joannenova.com.au)

??BP????11????10??BP????BP????
????????????????????????????????????2027????23????40????BP????
????????2.6????

4. ESG

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ESG????????

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????????????SDGs????????????????????????????????????2015????
????????ESG????????

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

2015????????????????JP????3????????
????????ESG????????????????100+????

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

Climate Action 100+

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????68????700????16????ESG??
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5. ????

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????????ESG????????????????CO2????ESG????
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(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】

- 1. 需要面での対策**
 - 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）
 - 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
 - ③機器のDR Ready化（通信制御機器の設置）
 - ④電炉等の電力多消費産業におけるDRの推進
 - 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
 - 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
- 2. 供給面での対策**
 - 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
- 3. 系統増強等**
 - 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
- 4. 電力市場構造における対応（中長期的な検討課題）**
 - ◆価格メカニズムを通じた供給・需要の調整・誘導

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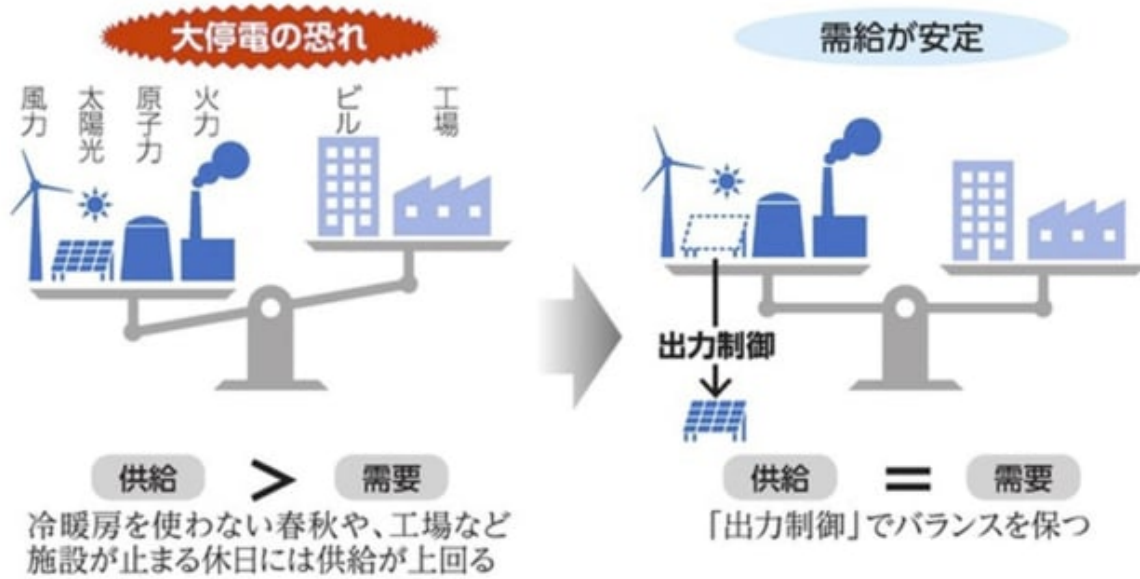
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電力は需要と供給のバランスが大切

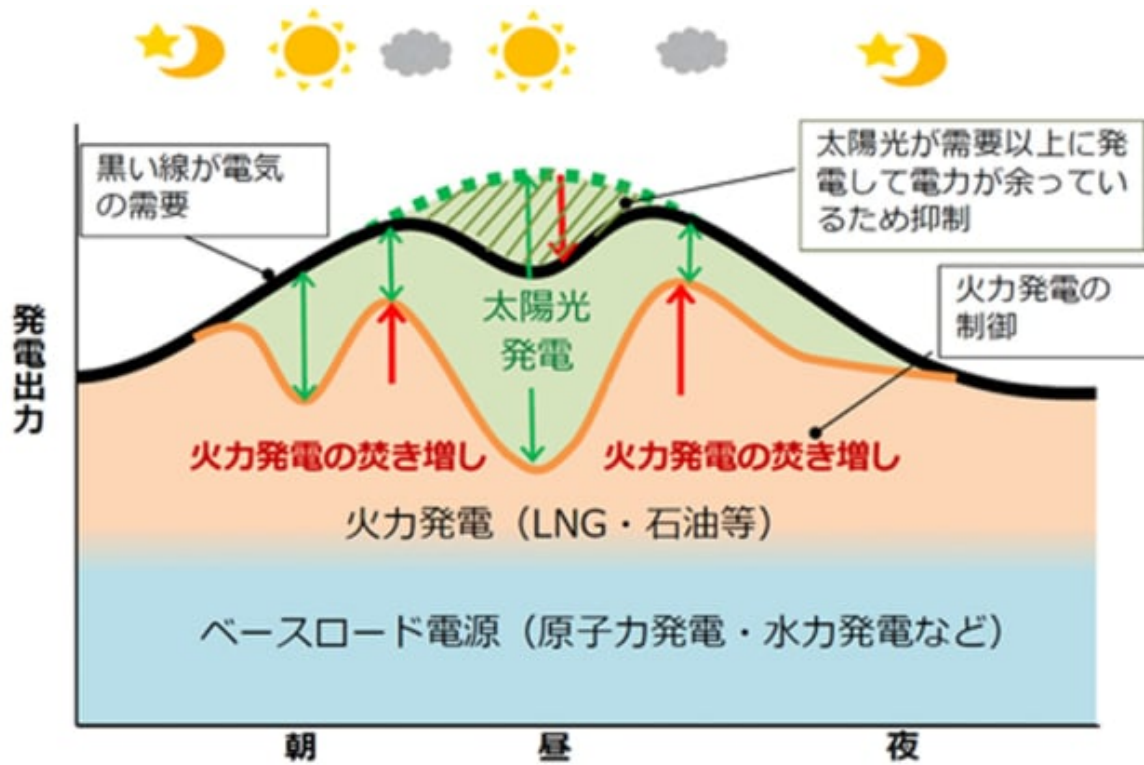


電力は需要と供給のバランスが大切

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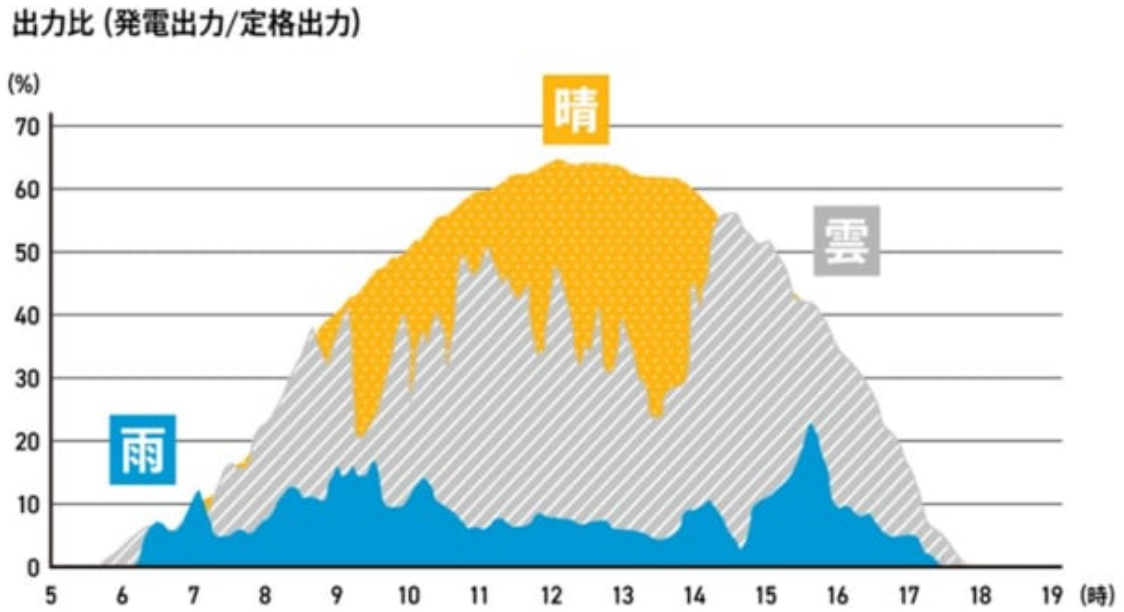
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-
- ①火力(石油、ガス、石炭)の出力制御、揚水・蓄電池の活用
 - ②他地域への送電 (連系線)
 - ③バイオマスの出力制御
 - ④太陽光、風力の出力制御
 - ⑤長期固定電源※ (水力、原子力、地熱) の出力制御
- ※出力制御が技術的に困難

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

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?? ?? · Sunday, March 3rd, 2024



Butsaya/iStock

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7ene@proton.me

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10. CO2

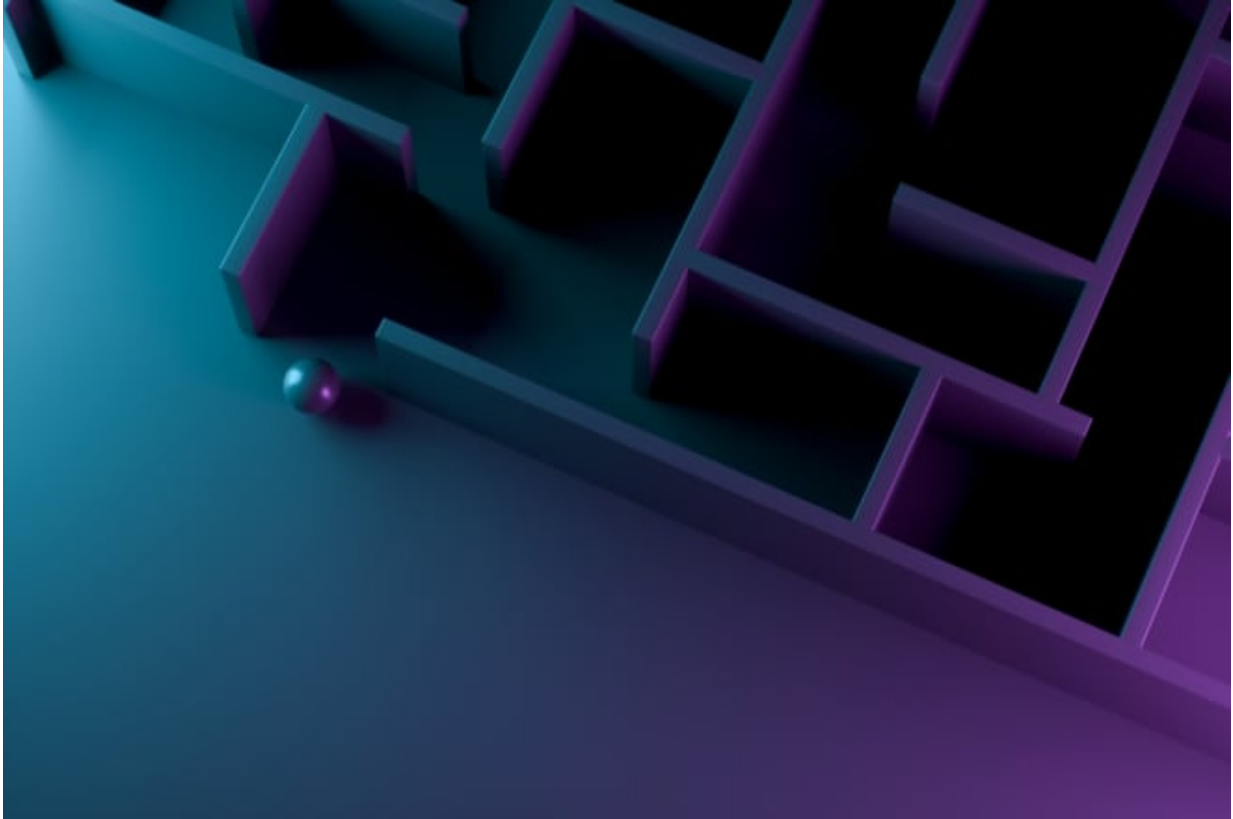
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CO2

2050 CO2

11.

2025



akinbostanci/iStock

COP28????????????????????1.5????????????????????????????????????1.5????2050
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??1.5?????
The Death of the 1.5 Degree Climate Target??????????1?8??????????????
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??2024??1900????????????????????1.5?????
2.7??

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Lari Bat/iStock

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???7ene@proton.me????????????????

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

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— ?????????? (@kahoku_shimpo) January 27, 2024

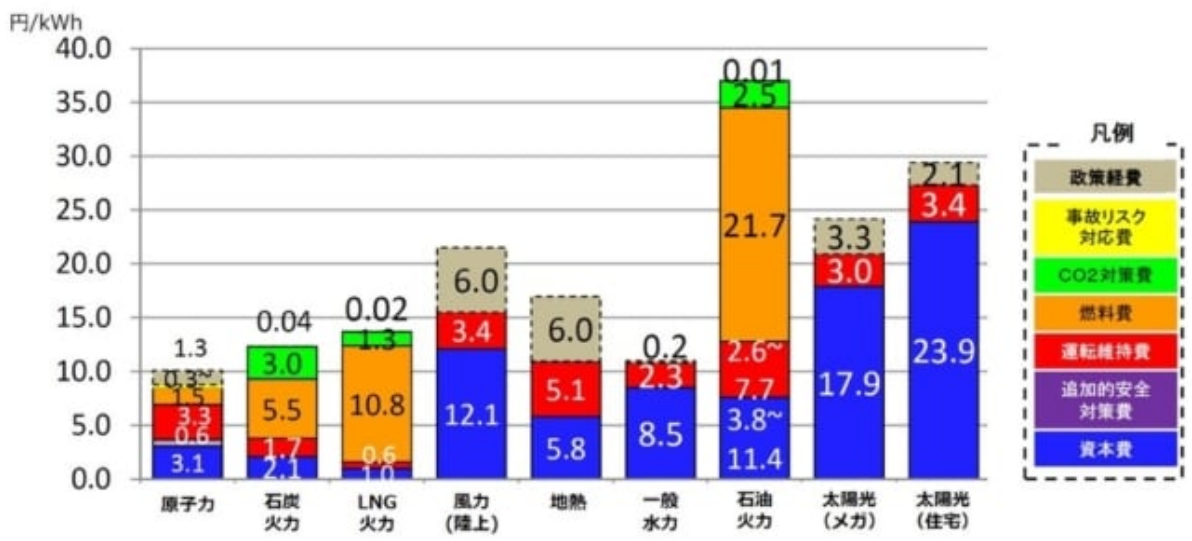
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1. ????A????????????????1,617????????????
2. ?5????????2????????B????????372????
3. ?A??B??4????????260kWh????????140????????611????
4. ?????????140????611????????

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

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

??B????2????????811????
??2??439??811?
439?372??/????375????

????4????4????140????611????
140????

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

?????????????????14?????????5??

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



Lari Bat/iStock

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???7?????????????????????150?????

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???7ene@proton.me?????????????????

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

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??2010????????????????????1kWh????14????????????21????????????????
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3. ?????????????CO2????????????

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

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1. ???
2. ?????????????????????????50????????????????
3. ?????????CO2????????
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5. ??EV????????????????
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10. CO2????????????????????
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Posted in ??????????, ??? | No Comments »

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

?? ?? · Saturday, February 17th, 2024



??????SNS??

????????1.5??

??49????????????

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

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5. ?????????????????????????????????CO2????????????????
6. ??CO2??IPCC????????????1????CO2????????0.5????????????????
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7. ?????6????????????????????????????1970??

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

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

?? ?? · Saturday, February 10th, 2024



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?47????3??3???

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??ESG?Environmental, Social, and Governance????401K??
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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 »

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?? ?? · Thursday, February 8th, 2024

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

CO2??

?? ?? · Tuesday, February 6th, 2024



baileystock/iStock

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?????????Voters???1????????????????????3??

???1????????????????????15????????????????????1????????1????????????????

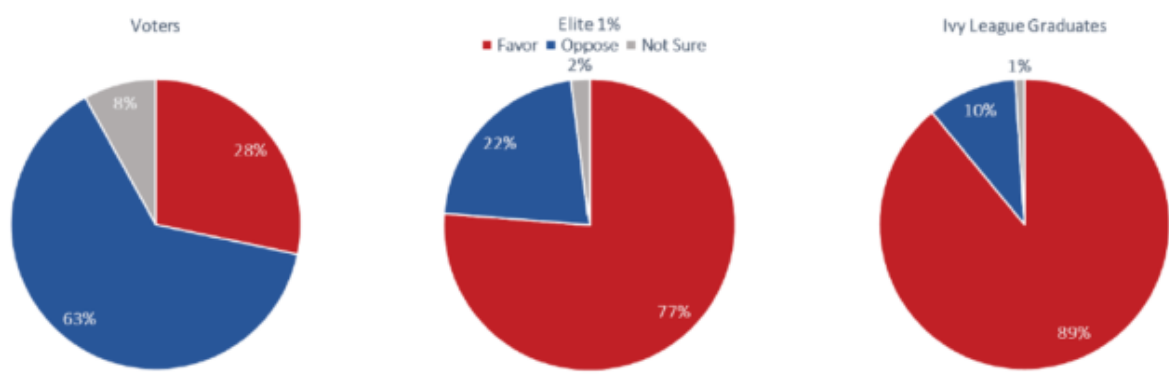
????????????????1??

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

1.??

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

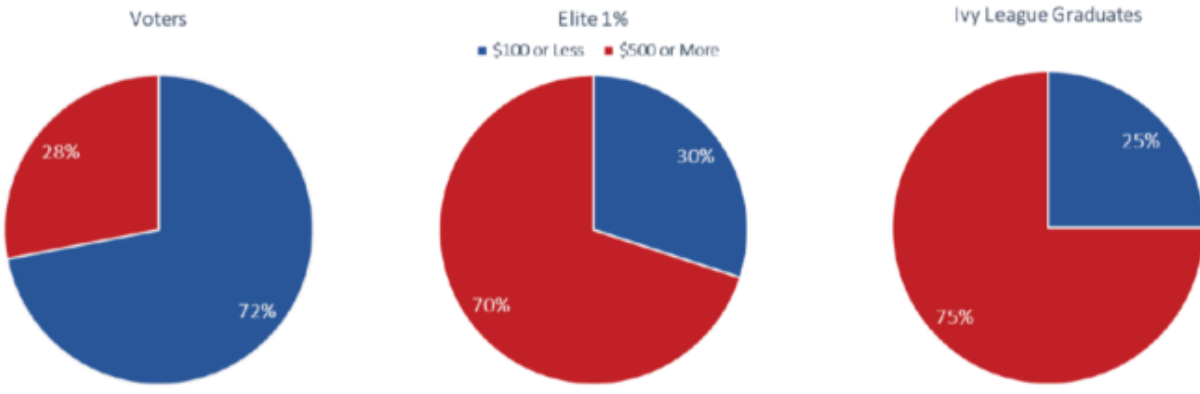
To fight climate change, would you favor or oppose the strict rationing of gas, meat, and electricity?



2.????????????????????????????

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

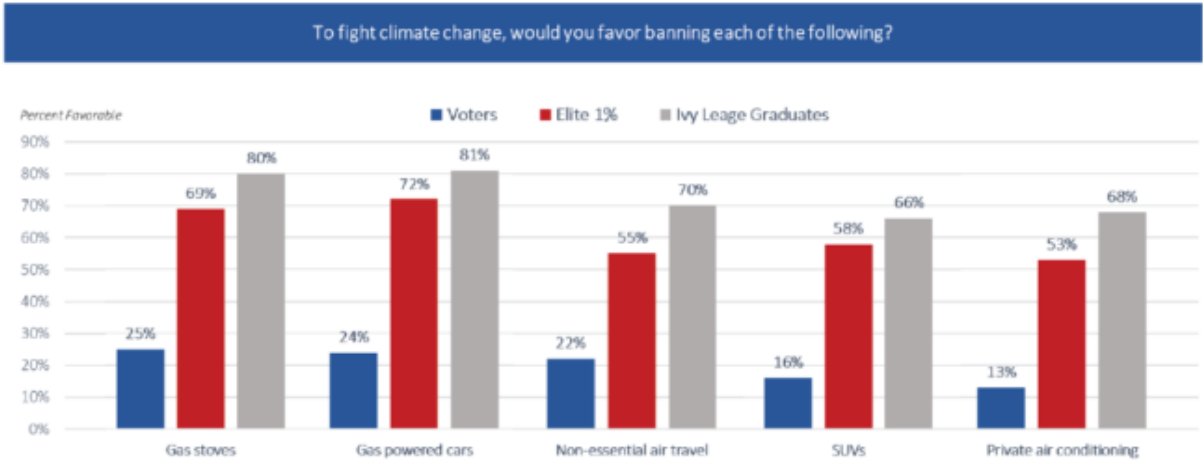
How much would you personally be willing to pay each year in terms of taxes and higher costs to reduce climate change?



3.????????????????????????

????????????????????SUV????????????????????13??25????????????????53???

72????????????????????66??81????????????????



????????????????????73?????14??84????????????????????
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??CO2??
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Posted in ???, ????? | No Comments »

CO2??

?? ?? · Monday, February 5th, 2024



Sakorn Sukkasemsakorn/iStock

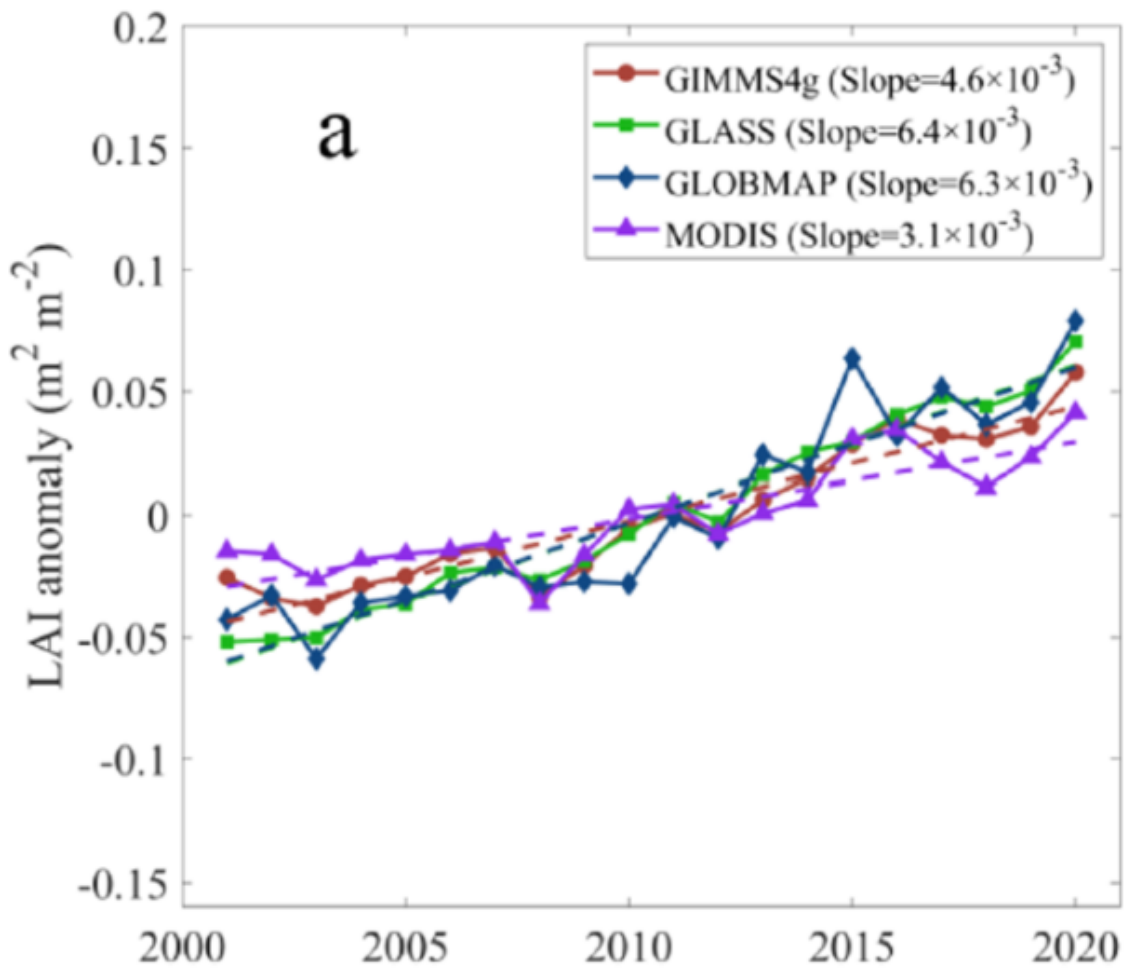
CO2???global
 greening)??

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

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

????????LAI?20??0.1????????????????????1??????????????????0.1????????????????????????????????

4??



?1?LAI???

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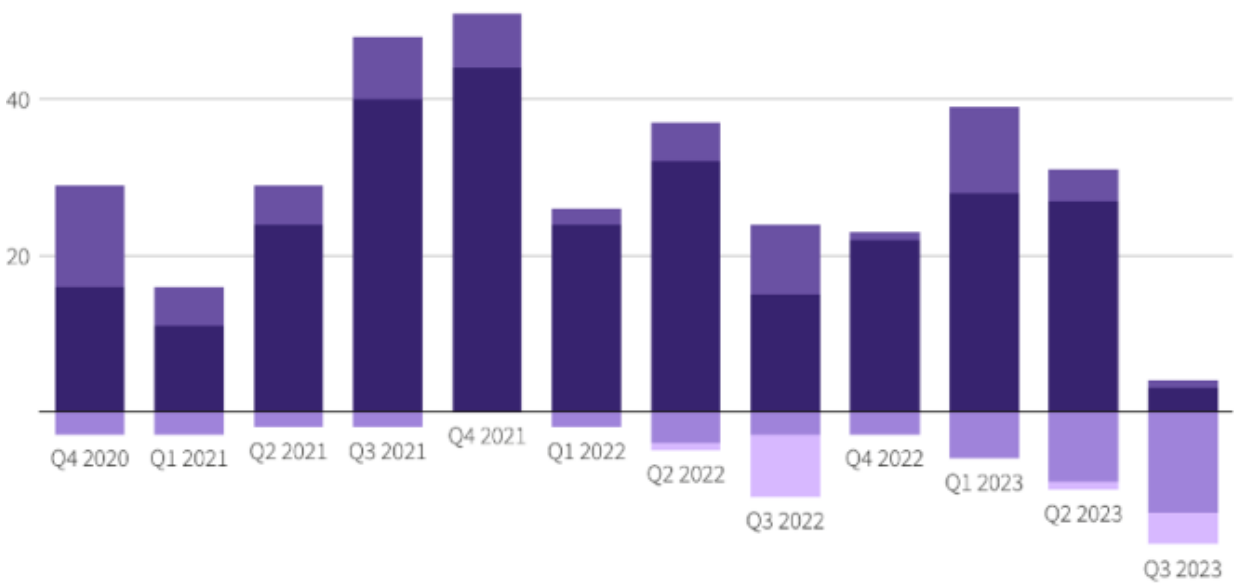
CO2?????Srad?????P???????Soil Moisture, SM?????Airt??5??????????????2??

????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



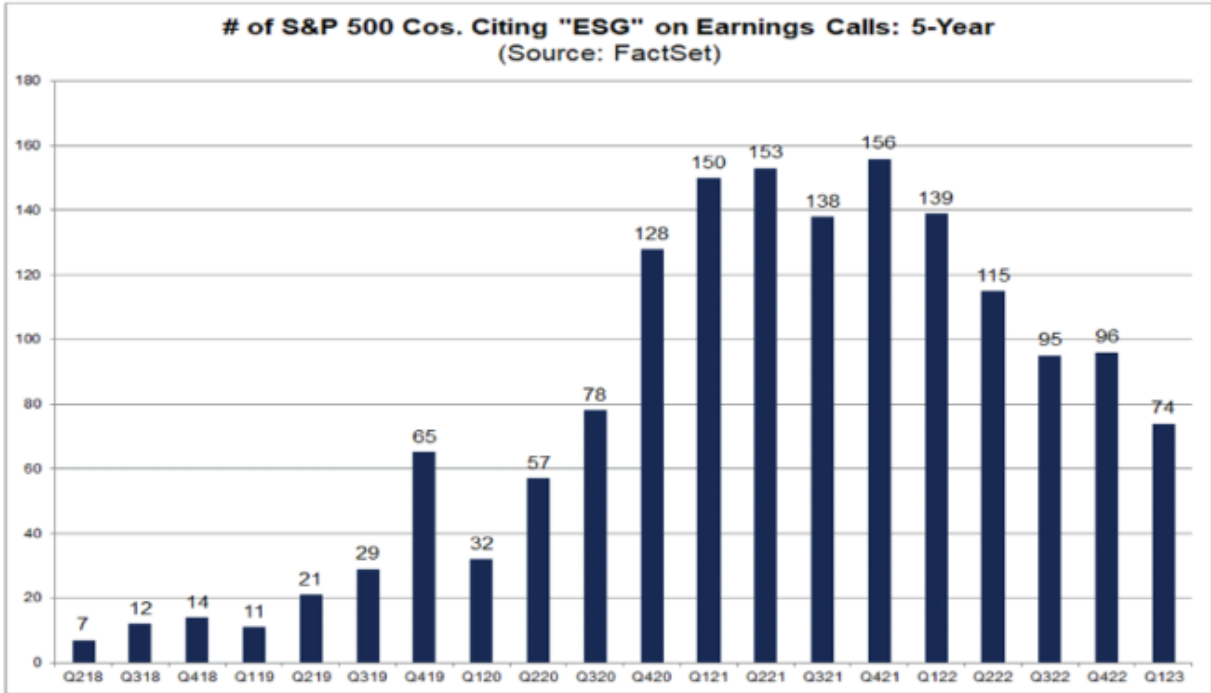
Source: Morningstar Manager Research

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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
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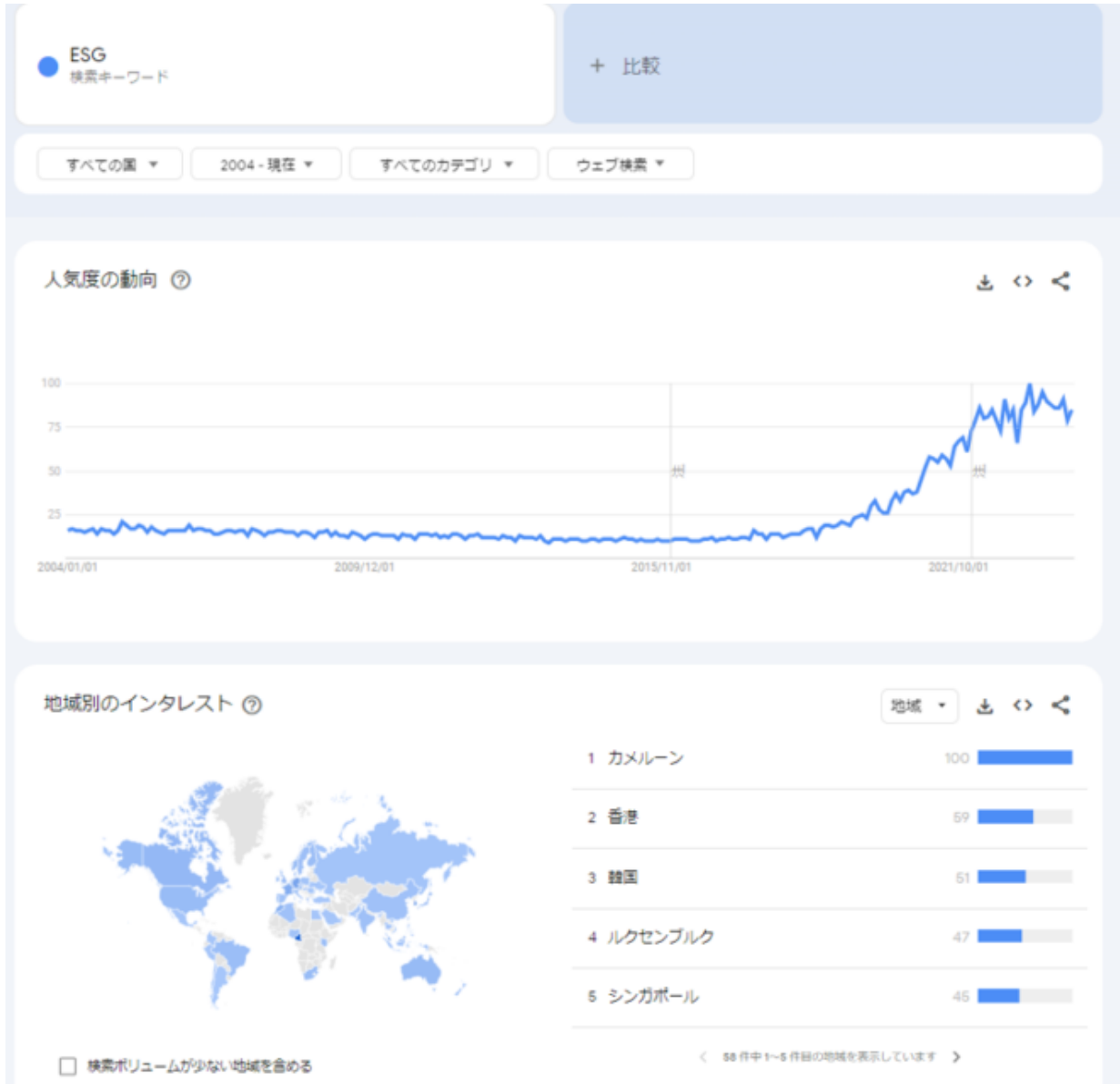
ESG

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

ESG??ESG??ES
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ESG????CO2??
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????ESG?E????????CO2?????E????????????????????????????????
??E?S?G????????????????
E????????S?????G????????????????????????????????

??ESG??

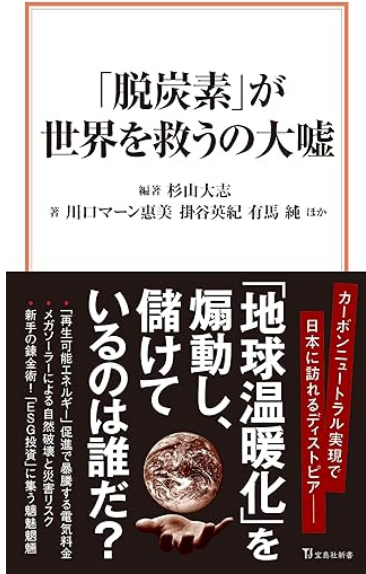
????????????SDGs????????????????????????????154??



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

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EV?HV?PHV? COP

transitional fuel? COP

transition away from fossil fuels

transition away from fossil fuels COP

COP2

COP127 COP1

COP UAE

COP28

CCUS? COP

COP28

125 CO2

CO2

CO2

de-industrialization

de-industrialization

de-industrialization

de-industrialization

?????????10?11????????????5.4%?5.8%????¹¹????????????

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

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

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

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

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

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

EU????CBAM?EU??

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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??

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????8????????????????1????????????????????????????????????
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??6????????????????????????????????????1????2500?3000????????
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??6??10????????????EU????????????6????????
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DGL?4??
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??GDL??52????????????6????????
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??29?18????????????????????5????????????????????????????????3????????????

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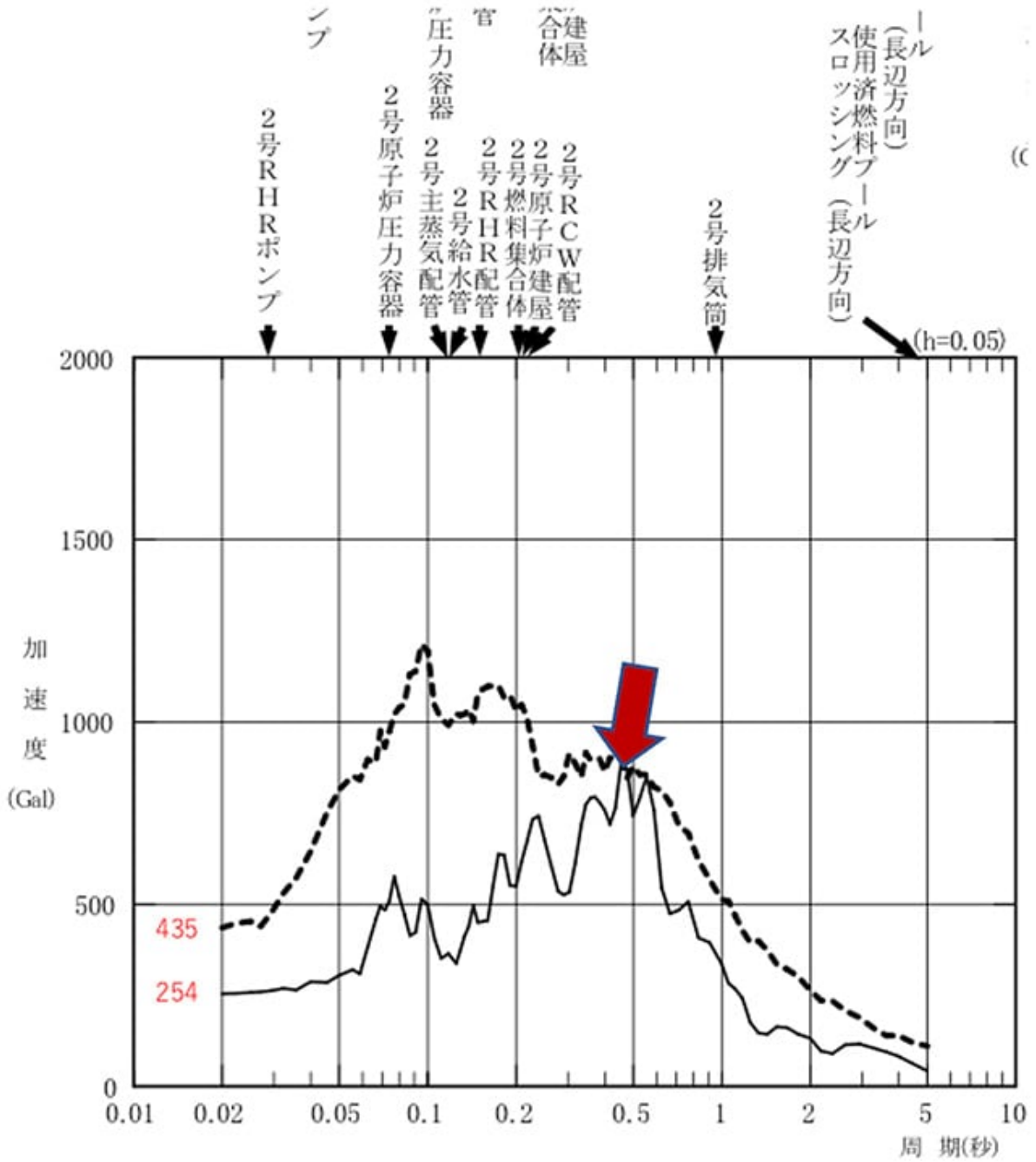
- ???2????????1????????????????????
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- ?????????????????????1?2????600??????
- 2????????????????????1000? ?????????????

- ?????1000??

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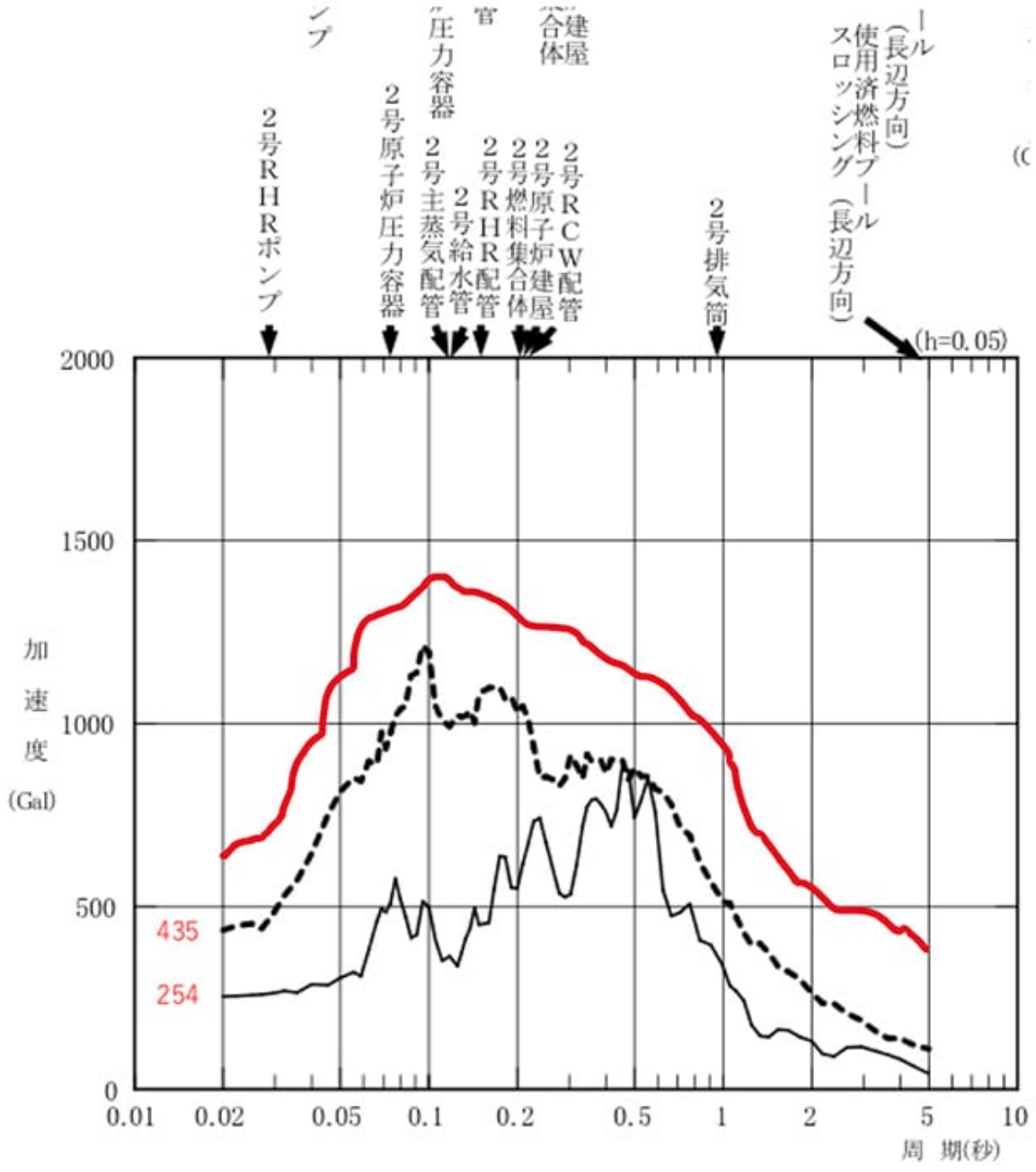
??F????????????????G????????????????G????????????
????????1G?980????????980??1G????????????????????????????

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????2?“?”????1000??

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????1000??



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????????????????????600????1000??
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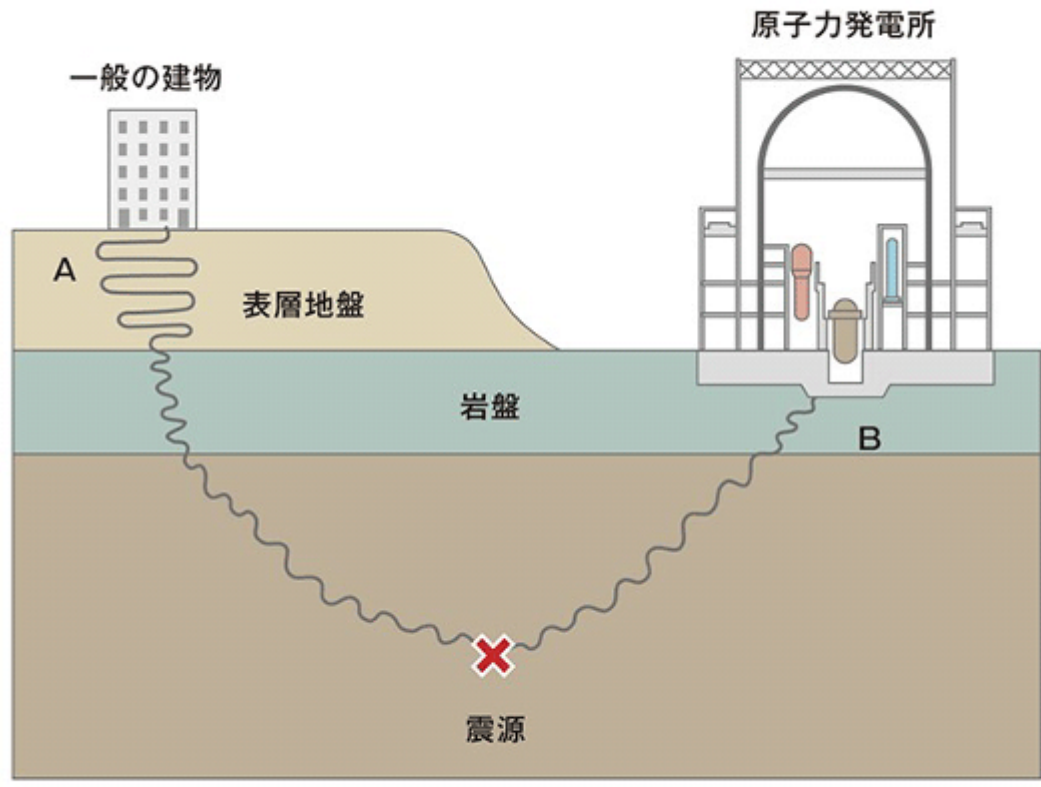
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????????600????1000????????????????????——????????????????????????????

????????????????2,112????????200????????????????3,406????????????????5,115????????????
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????????????????????4,022????2008?6????????????????

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

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堅固な地盤（岩盤）での揺れは表層地盤に比べ1/2~1/3程度

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電気事業連合会 電気事業について 原子力発電について 環境への取り組み 情報ライブラリ 電気事業連合会について

エネルギーを考えることは、この国のこれからを考えること

TOPICS

ふつうの日々

今年夏版 巻頭

スペシャルムービー公開中!

WBS 放送

ふつうの日々

これからも、電気のあるふつうの日々があたりまえであるために。

短時間で学べる

エネルギーアカデミー

長時間忘れない

エネルギーアカデミー

江戸時代から現代までのエネルギーの歴史を学べと教育コンテンツ

ひらめき!ピカールくん

電気のことを基礎からわかりやすく解説します。

ひらめき!ピカールくん

電気のことを基礎からわかりやすく解説します。

性格タイプ別

節電術診断

性格タイプ別節電術診断

20の質問に答えて、あなたにあった節電術をご紹介します!

特設サイト

能登半島地震による各原子力発電所への影響について

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

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?? ? · 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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Paragraph 28 = A La Carte Menu

28. Further recognizes the need for deep, rapid and sustained reductions in greenhouse gas emissions in line with 1.5 °C pathways and calls on Parties to contribute to the following global efforts, in a nationally determined manner, taking into account the Paris Agreement and their different national circumstances, pathways and approaches:

<ul style="list-style-type: none"> ✓ (a) Tripling renewable energy capacity globally and doubling the global average annual rate of energy efficiency improvements by 2030; ✓ (b) Accelerating efforts towards the phase-down of unabated coal power; ✓ (c) Accelerating efforts globally towards net zero emission energy systems, utilizing zero- and low-carbon fuels well before or by around mid-century; ✓ (d) Transitioning away from fossil fuels in energy systems, in a just, orderly and equitable manner, accelerating action in this critical decade, so as to achieve net zero by 2050 in keeping with the science; 	<ul style="list-style-type: none"> ✓ (e) Accelerating zero- and low-emission technologies, including, inter alia, renewables, nuclear, abatement and removal technologies such as carbon capture and utilization and storage, particularly in hard-to-abate sectors, and low-carbon hydrogen production; ✓ (f) Accelerating and substantially reducing non-carbon-dioxide emissions globally, including in particular methane emissions by 2030; ✓ (g) Accelerating the reduction of emissions from road transport on a range of pathways, including through development of infrastructure and rapid deployment of zero- and low-emission vehicles; ✓ (h) Phasing out inefficient fossil fuel subsidies that do not address energy poverty or just transitions, as soon as possible;
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28.????1.5????(call on Parties)

- a. 2030????3????2????
- b. ?????
- c. ?????
- d. ?????2050????10????transi
tion away from fossil fuels)
- e. ?????
- f. 2030????CO2????
- g. ?????
- h. ?????

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??8????CCUS????CO2????CCUS????

????8????8????

????2030????

????COP????COP28????2023?12?14????

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 ???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。



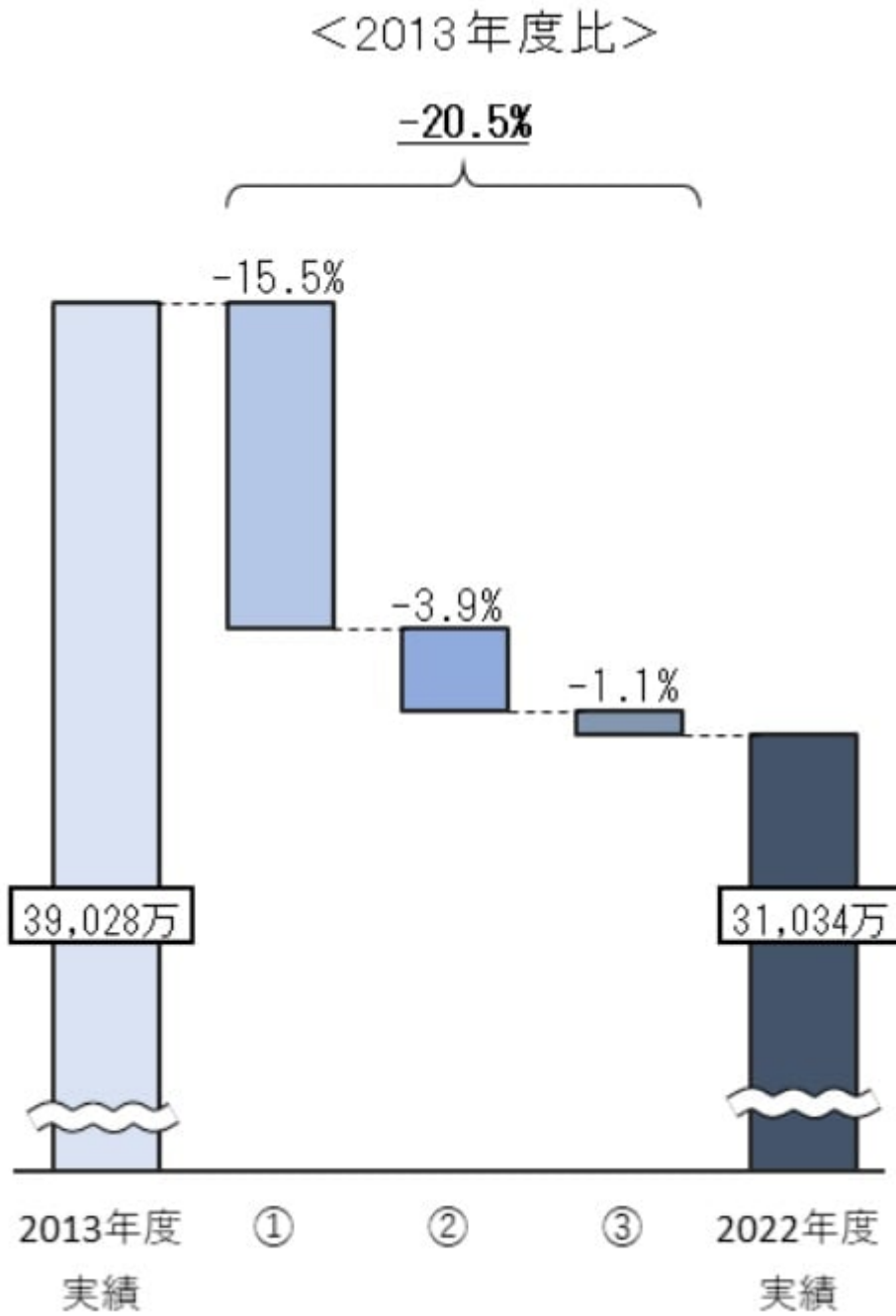
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? CO2????????????????

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

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

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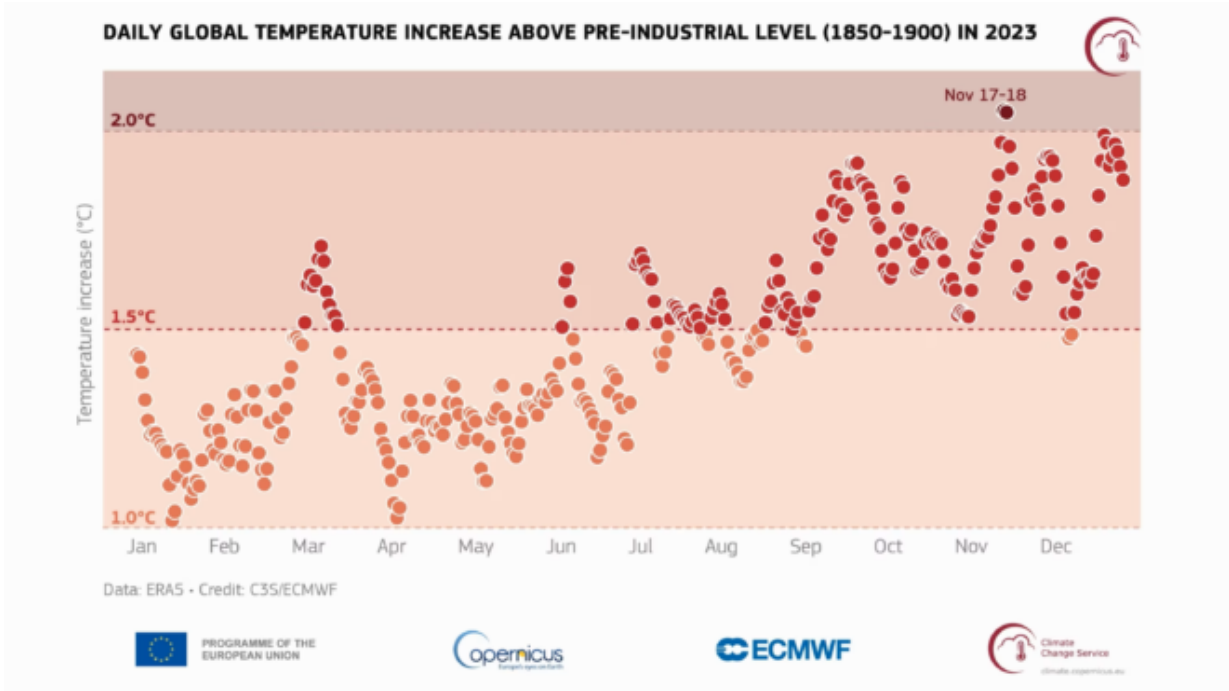
Posted in ??????????, ??, ????? | No Comments »

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

?? ?? · Wednesday, January 10th, 2024

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

????????1.5????????????????0.02????????????1.5????????????
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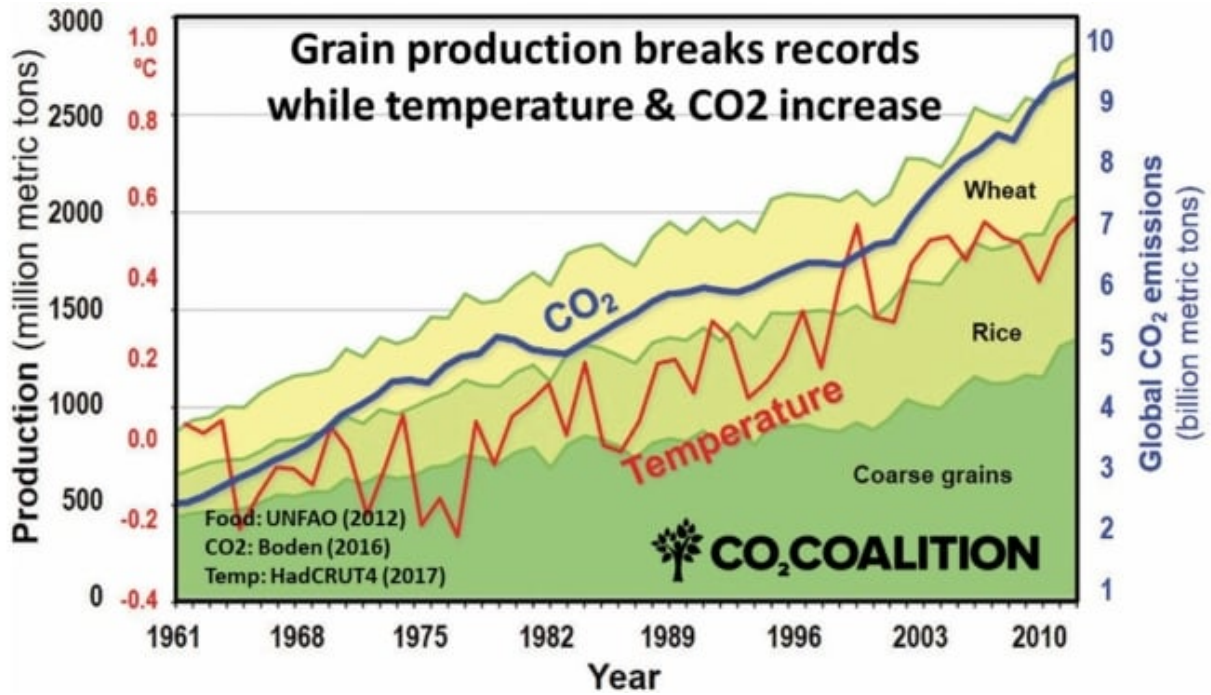
????1.5????(ABC News)

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

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

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CO??



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

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

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??300????????????????????3400????????????????
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Foresight??

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Posted in ??, ????? | No Comments »

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?? ??? ? - Tuesday, January 9th, 2024

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??????22??23??
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??145??18??????????????41??????

??2????????
??CDU????????
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??5000??1?
4??4500????????????????????
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Posted in ???, ?? | [No Comments »](#)

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?? ?? · Sunday, December 31st, 2023



shotbydave/iStock



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???1973????????????????????

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??CO2????
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??OPEC????????????????????????????????
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Posted in ??????????, ???, ????? | No Comments »

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?? ?? · Saturday, December 30th, 2023



CampPhoto/iStock

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21?4????????????????????????????????????28????????????????????????????????????67????????????????
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??1?4????????????????????5?6?7????????? ???? ?????



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- A.
2020?9?????B????ID?????????????????A????ID????????????????????????????????
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- B.
2021?3?16??
????????????HD????????????????2021?4?14????????????????HD????????????????
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Wikipedia???

??A????????????????????????????????????2015????27?8????????????????????????????
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??B??
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Wikipedia??

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

COP28???????

?? ? · Tuesday, December 26th, 2023



Heiness/iStock

12????????COP28????????????????????????????????COP??????

??NDC??
????????????????????????????

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????1.5????2050????????????????????IPCC?6????????????????2025????????2030??43????2035?
??6??1.5??
??????????????

??????¹²??1.5????????????2025????????2035????60????????????????26?27????2025????????
?NDC?????1.5????????????????????????47??

????????????1.5????????????????????IPCC????????2025????????2035??60????????????????
????????????????????????????recognize????????????2025????????????????????????????
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??NDC??2025????????20
35??60????????????????????????????????????2025????????2035??60????????????????????
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COP28????????????????????????????????1.5????????????????????????????????
????????????????????????CO2????????????????????????????????

????????????28????1.5??
????????????????????????????????8????????????????????????????2050??
????????????10??transition away from fossil
fuels)????????

2030 3 2 CCS 29

COP CCS

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3

COP28 OPEC

12 UAE

NGO COP

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2030 5.8 5.9 67 2050 2030 4 3,000 2050 75 68 69

1.5 1000

1.5?????

1.5

2021 1.5 2030 2010 45 2021 2022 2023 3

1.5 COP

1?https://unfccc.int/sites/default/files/resource/cma2023_L17E.pdf

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

????????SINO?Science in name only?

?? ?? · Saturday, December 23rd, 2023



metamorworks/iStock

1. COP28???

11?30????2??UAE????????COP28??90,000????????????????????

11?21?????She Changes
 Climate????????COP28????????????????????1.5°C????????????????????
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????????????????B.Sc????????????????PhD????????????????MBA????????????????
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 8??

COP28 ?????????????????????

COP28????????????NHK????????????? “?????”????????????? ?????? ?????????????
 ?????????????????????NHK????????????????1.5????????????????

????????2050????????75??Doomsday????
 ?????????????????

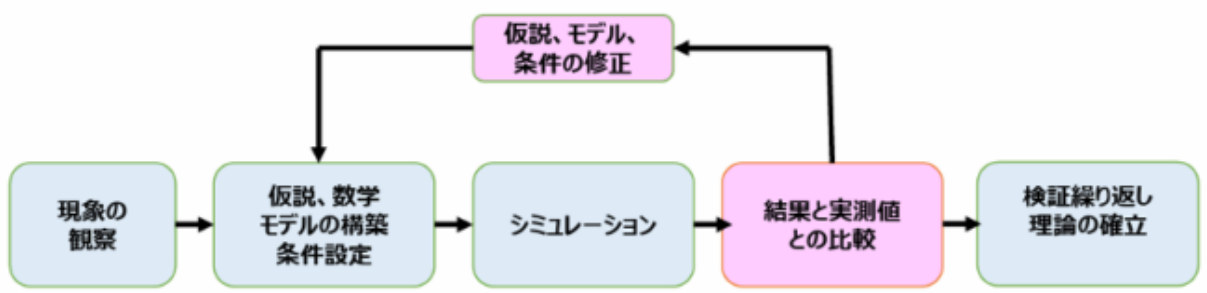
2. 気候変動のシミュレーション

気候変動のシミュレーションは、IPCCの報告書に示されているように、

2009年のClimategate以来、気候変動のシミュレーションは、

気候変動のシミュレーションは、気候変動のシミュレーションは、

気候変動のシミュレーションは、気候変動のシミュレーションは、



1975年以降、気候変動のシミュレーションは、

1990年代から2030年までの気候変動のシミュレーションは、

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

????????????????COP????????????

?? ?? · Friday, December 22nd, 2023

????????COP28????????COP????????????????????????????????????

????????(phase out)????????????????????????????????????(phase down)????????(transition away)????????????????????

COP????????

COP????????????????????????????????????(UNFCCC)????????1994????????1997COP3????????

????6????????1????????

????2015????NDC????2????1.5????2016????

????COP????1.5????EU????2021COP 26????

????COP????COP27????1.5????

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

????COP????

????COP????1????U AE????11????

????1.5????EU????CO????

