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??NHK????????????????

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<https://agora-web.jp/archives/230107011846.html>

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??200?350?????500????
??10?15????????????????????????
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??CO2????????????????????
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 ?????????46?/kW????????29?/kW????????????????????????????97.3?/kWh?10???20.9?/kWh??
 ?????????23.5?/kWh?20???12.9?/kWh??

????????????????????????????23.5?/kWh????????????????????????

??10?/kWh????????????????????2030????????????????1
 3.6?/kWh????????????????4.3?/kWh????????10?/kWh????????????????????

????????????????????????????????CO2????????????????????2?1????????CO2?1????????????
 ???5000??????

???GX????????????????????2040????????????3000????????CO2????6000????????????2
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Posted in ?????????, ??? | No Comments »

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?? ??? ?? · Friday, February 10th, 2023

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??????Fridays for
future??EU????????????COP????????
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andriano_cz/iStock

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??RWE????????????????RWE????????????
??RWE????2030????????????????
???2017????????????

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????????????CO2????????????2020????????????2038????????????Kohleverstrom
ungsbeendigungsgesetz)????????AfD????????????CDU????????????
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??3????????????100????????3
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https://www.t-online.de/tv/klima-und-nachhaltigkeit/id_100114224/war-greta-thunbergs-festnahme-inszeniert-.html

??? 16????????????????????????????????“?”??
“?”????????RWE????????????????

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

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?? ?? · Tuesday, February 7th, 2023



LeMusique/iStock

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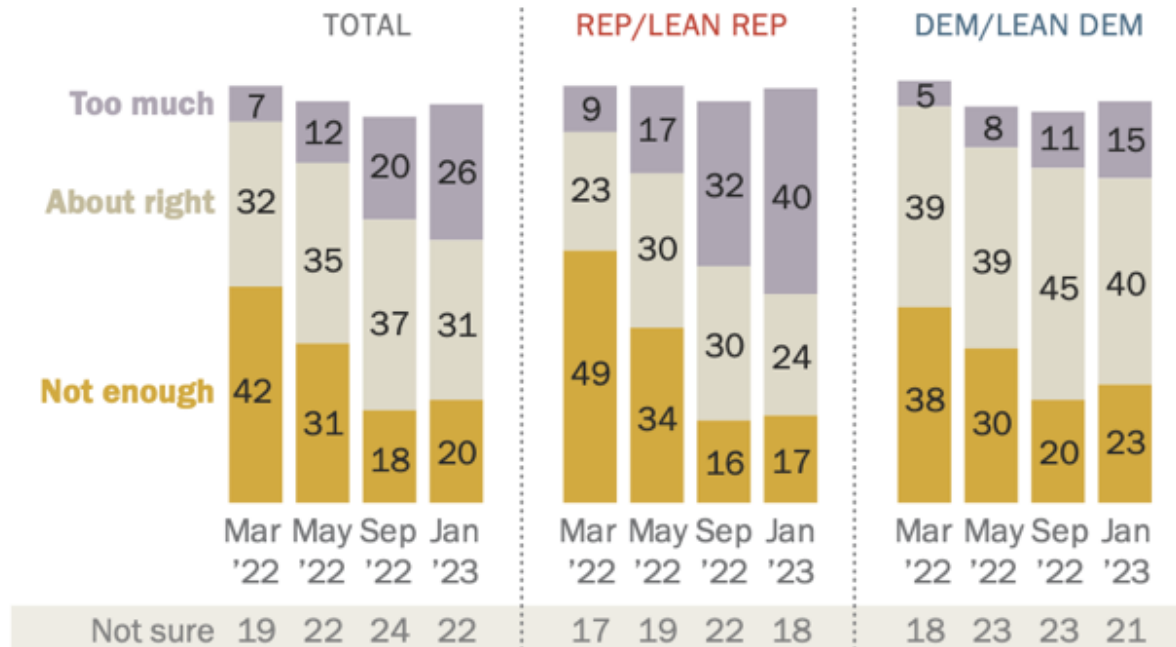
????????????????????2????????????

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????????????????????1?23????????????40????????????Too
much????????????15%????

Share of Republicans who say the U.S. gives too much aid to Ukraine has steadily increased since March

% who say, when it comes to Russia's invasion of Ukraine, the U.S. is providing ____ support to Ukraine



Note: No answer responses not shown.

Source: Survey of U.S. adults conducted Jan. 18-24, 2023.

PEW RESEARCH CENTER

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??1????????????????????(Avoiding a Long War)?????

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

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?? ?? · Saturday, February 4th, 2023



peeterv/iStock

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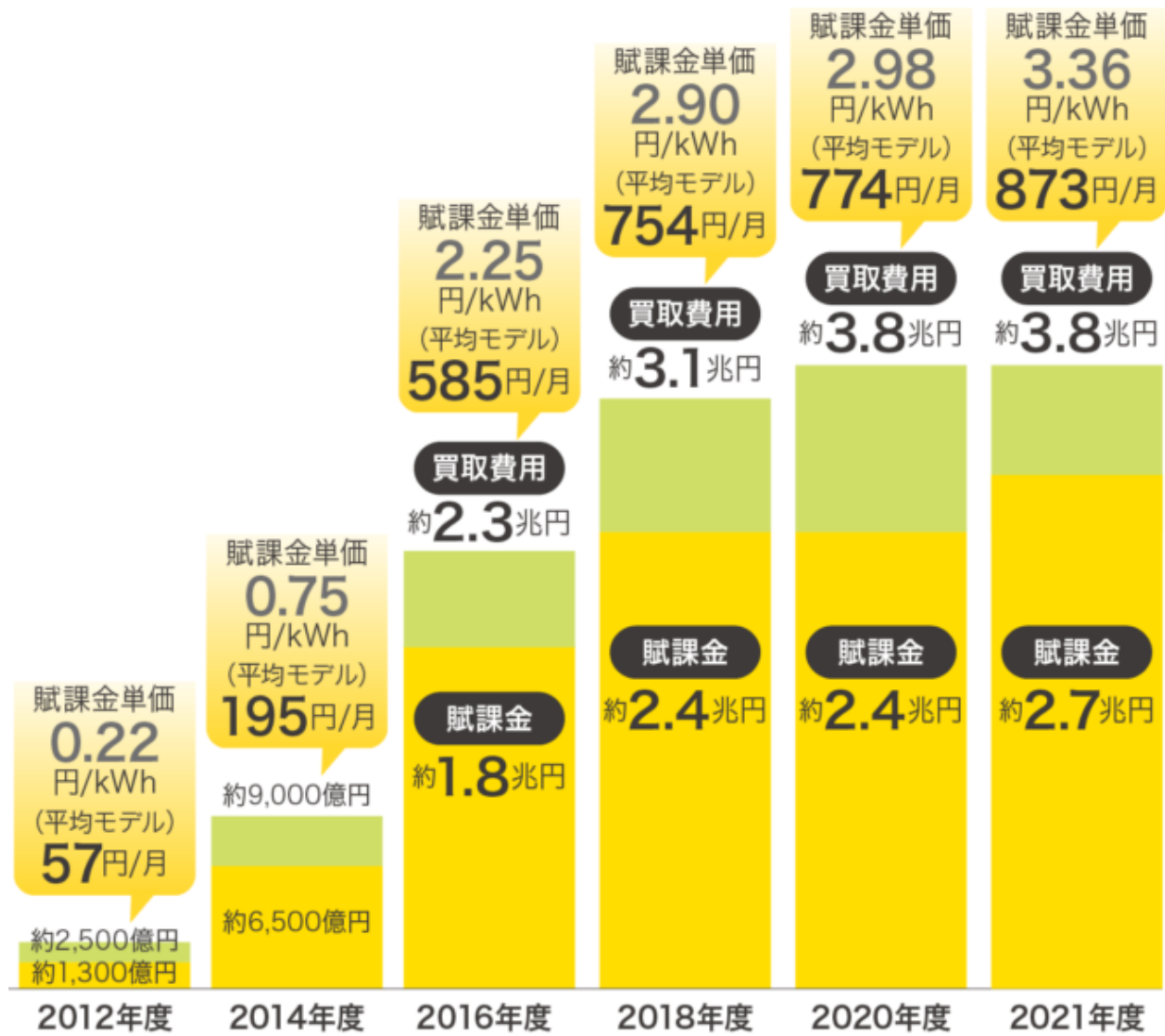
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電力会社	原子力比率	23 年 6 月料金
北海道	0%	9899
東北	0%	9462
東京	0%	9917
北陸	0%	7488
中部	0%	7369
関西	28%	5677
中国	0%	8608
四国	7%	8300
九州	36%	5526
沖縄	0%	10500

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??2023?6???

???2?????????

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?3?????6????????873????????1????????????????5????????????????????????????????
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Posted in ??????????, ???, ????? | No Comments »

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?? ? · Saturday, February 4th, 2023



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3.4. BEVs????

BEVs????????ICEVs??UHC?unburned hydrocarbons????????NOx?nitrogen oxides????????????????UHC????????PM2.5????????????

????????????????BEVs????????????????????????????????????

????????????????NOx??
????????BEVs????????????????ICEVs??20?30????????????BEVs????
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????????CO2????????????LCA????BEVs????CO2????????
BEVs????????????????????????????????????BEVs????????
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????????CO2????????????????????????

3.5. ??ICEVs????????????

????BEVs????????ICEVs????????2030????ICEVs????????
????2031??ICEVs????????????????????????????????
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BEVs??
???BEVs????????????ICEVs?HEVs?FCVs????????????

????????????LCA????????????????

4. ?????????????

??1.1?
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??NASA????35????????CO2????CO2????
????CO2????

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????????????????36???BEVs?1000????????CO2????4.9%????????
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Posted in ???, ????? | No Comments »

????100%????????????

?? ?? · Thursday, February 2nd, 2023



BrianAJackson/iStock

????100%????????????????????3????????????
????????????2????????

?100%????????

100%????????????????

????????????????????²¹⁾????????????110????????50????????????????????????????????
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????????????????CO2????????????????????????????100%????????????????????????

3????????????????????100%??
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????????????????????100%????CO2??
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????CSR??
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脱炭素施策	順守事項
サプライヤーへの脱炭素要請	【優越的地位の濫用】独禁法、下請法、行動指針、調達基準
中国製太陽光パネルの利用	【人権侵害、強制労働】行動指針、人権宣言、SDGs
「再エネ 100%」表示	【優良誤認】景表法、環境表示ガイドライン、行動指針

1????????

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1????CSR????????????????????ESG????????

2??

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?SDGs????????

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

????4????????????????????

?? ?? · Wednesday, February 1st, 2023



NHK??

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??1?30????????????????4????????????

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3????

??3????????

- 1. ?????????????????????
- 2. ????????

3. ????

????SNS??
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1. ?????????????????????????????????

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

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??2????????????????????????????????????
??1?26???

3. ??????

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??26??
???2??
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??TMI????
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??GX??SRZ?1200?BWRX?300????????????????
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Posted in ???, ????????? | [No Comments »](#)

????100%????????????????

?? ?? · Tuesday, January 31st, 2023



Planet Flem/iStock

???????100%??
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 ???????CSR??
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2050 2030 46%

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P8

100% CO2

h)

P15

k)

NOx CO2

P16

100%

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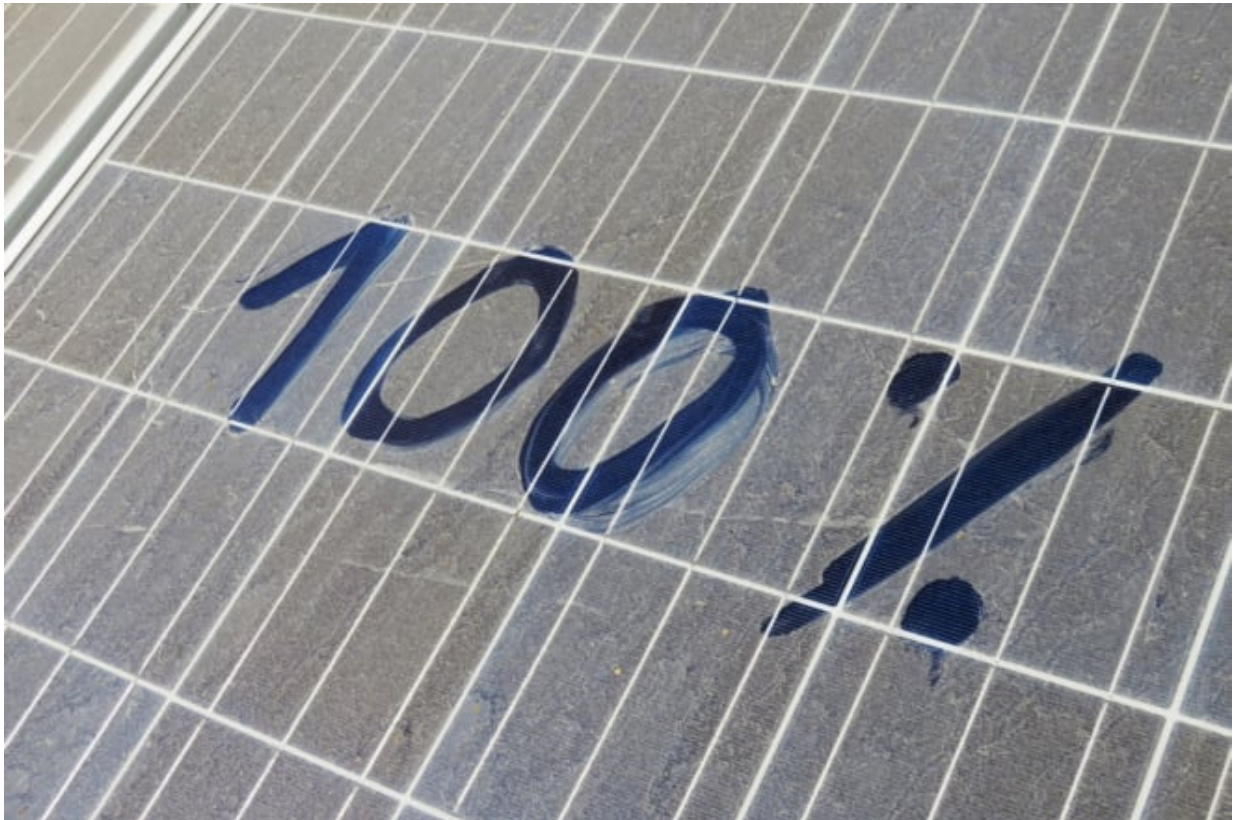
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Posted in ??????????, ??? | No Comments »

????100%????????????????

?? ?? · Monday, January 30th, 2023



tzahiV/iStock

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3????????????100%??
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脱炭素施策	順守事項
サプライヤーへの脱炭素要請	【優越的地位の濫用】独禁法、下請法、行動指針、調達基準
中国製太陽光パネルの利用	【人権侵害、強制労働】行動指針、人権宣言、SDGs
「再エネ 100%」表示	【優良誤認】景表法、環境表示ガイドライン、行動指針

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

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????2????????100????????????????1915????????????

????2????????????????????????????100????????????????????????????
????18????????????????????1915????????????

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????????????????????????????CO2????????2021?6????????????????????
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????100%????????????CO2????????????????????

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A????????80%????????????????????100%????????????

????????2????????PPA????????8????CO2????????????????
????100%????????????????????????????

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??ESG?SDGs????

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?SDGs????

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?? ? · Sunday, January 29th, 2023

??1?17??
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??10????????????
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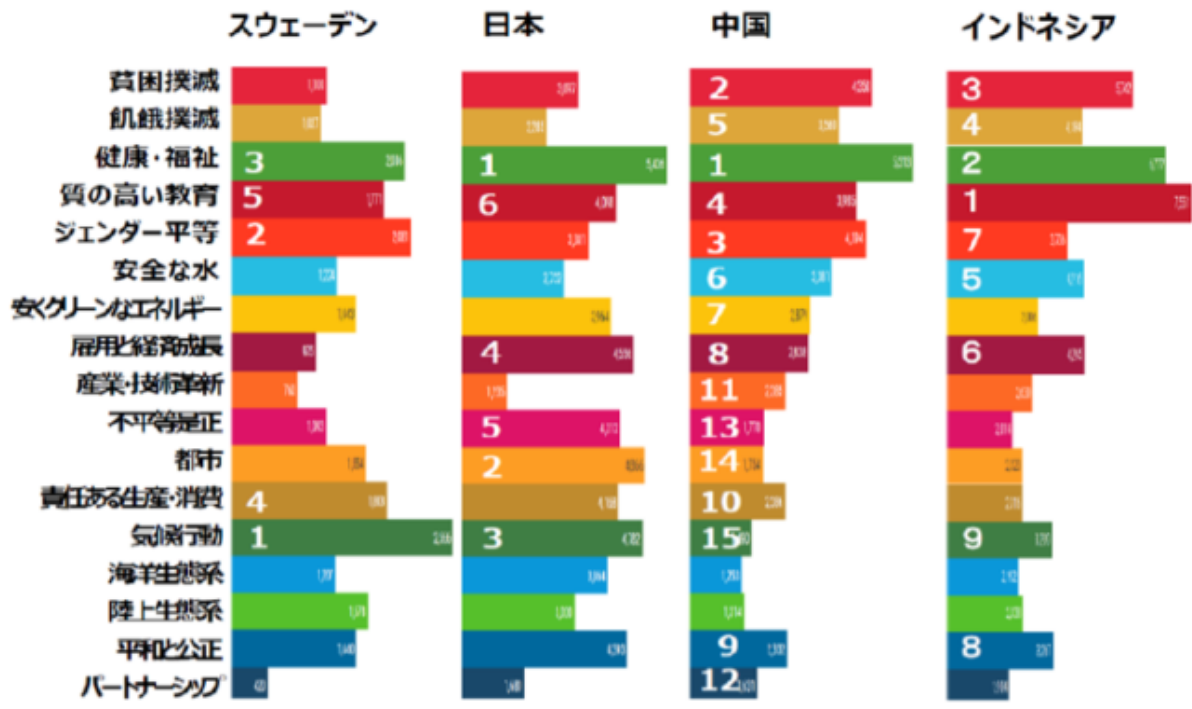
??2019??2019?????
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??How dare
you!??

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2015????????????????????My World 2030
????????????????????SDG??5??
????????17SDG????????????????1????????????????15????????9???????



???United Nations My World 2030 ??????

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????????3??E????????Energy Security????????Environmental Protection????????Economic Efficiency????????????

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2022?3????????Vervox????????54????????42????????

????????2021?6????????12??????

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????2022?6????????2????????

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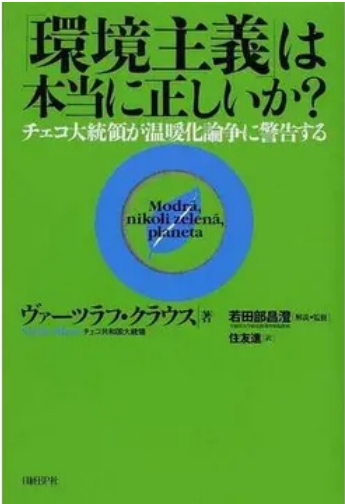
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Posted in ???, ????? | No Comments »

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????????2007????????BP?2010??????



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??CO2????????????????????????????????????
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[illegible][illegible]

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??????16????????????????2015?12????????????????????2008??12????????????????
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?2????????????????0.1????????????????????2006????????????????
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Posted in [????????](#), [???](#), [?????](#) | [No Comments »](#)

?? ??? ? · Sunday, January 22nd, 2023

[illegible][illegible][illegible][illegible]

Global Energy Policy Research | GEPR
- 33 / 86 -
11.02.2023

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12?21????????????????????????????????76.7??

????????????1????????????????????60.3????2????????42.6%???3????????????????41.8%?????
??1????????46.2%???2????????????????30.6%???3????????19.4%???

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1?19????????????????????2????????7??

??? ? Long
Covid??
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??Long
Covid??Post-Vac-
Syndrom????????????

2????????????19??

Long Covid: Protestaktion vor dem Bundestag

??6000????????

??1????????
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????SDGs????????????????

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

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?? ? · Saturday, January 21st, 2023



Kolonko/iStock

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3.1.???????BEVs??????

????BEVs(?????)?CO2??BEVs????????????????????CO2?????
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????????????????????????CO2????CO2????????????????????????BEVs?ICEVs????????????????
????????CO2??ICEVs????????????????????

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analysis?????LCA??
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???????honest assessment????????????????????????????????????

???BEVs???????CO2????????????CO2????????CO2????????????????????
????????????????????????????????????LCA????????

????????????????????CO2????61?106kg-
CO2/kWh????1kWh????61?106kg?CO2????

????????70????????125kg-
CO2/kWh????60kWh????BEVs????7.5t?CO2????125kg/kWh×60kWh?
7500kg)?

? ????S???BEV????100kWh????12.5t CO2???

????CO2????BEVs?CO2???ICEVs????????????????????
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????????????????????HTP?human toxicity
potential????????BEVs????HTP?ICEVs????3
5????BEVs????

????????????????????Ecological
Rucksack????1????500????500????
????500????7500????35????

????500????40kWh?300kg????150t????
????40kWh????

????100????

3.2.????

????22????BEVs????200????2030
????80?180????160?/?1?2800??2?8800????

???BEVs????2?9????ICEV????1?4????
????2030???BEVs?ICEVs????
????BEVs????

LCA????BEV????ICEVs??30????
????BEVs????BEVs????ICEVs????BEVs
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????3600???LDVs????2021????BEVs?36???1%????2030???1
000????LDVs?28????10?100????

????1????7kW????100???7GW??700? kW????2????

? ?????2014????

????22?5???EV????BEVs????

????16????25????9????35

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??55????????????????????
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[AFEELA????????](#)

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????????????????????????EV????????????????500????????????????????????????????

3.3.????2030????BEVs????????????CO2????????

????????????????????LDVs????????????70????????????12????????BEVs?LCA????C
O2????????????????ICEVs????????????25????????????????IEA????????

????????????2030????BEVs?1000????????LDVs?28????????????4.9%????
?LDVs????70????28?BEVs?BEVs?CO2????25?0.7×0.28×0.25?0.049??

21???36????BEVs?30????1000????????????ICEVs?70????????
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????CO2?4.9%????BEVs?36????1000????????????BEVs????
????????????LDVs????????ICEVs????????????

????????????HEVs????????????BEVs????
????????BEVs????????

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

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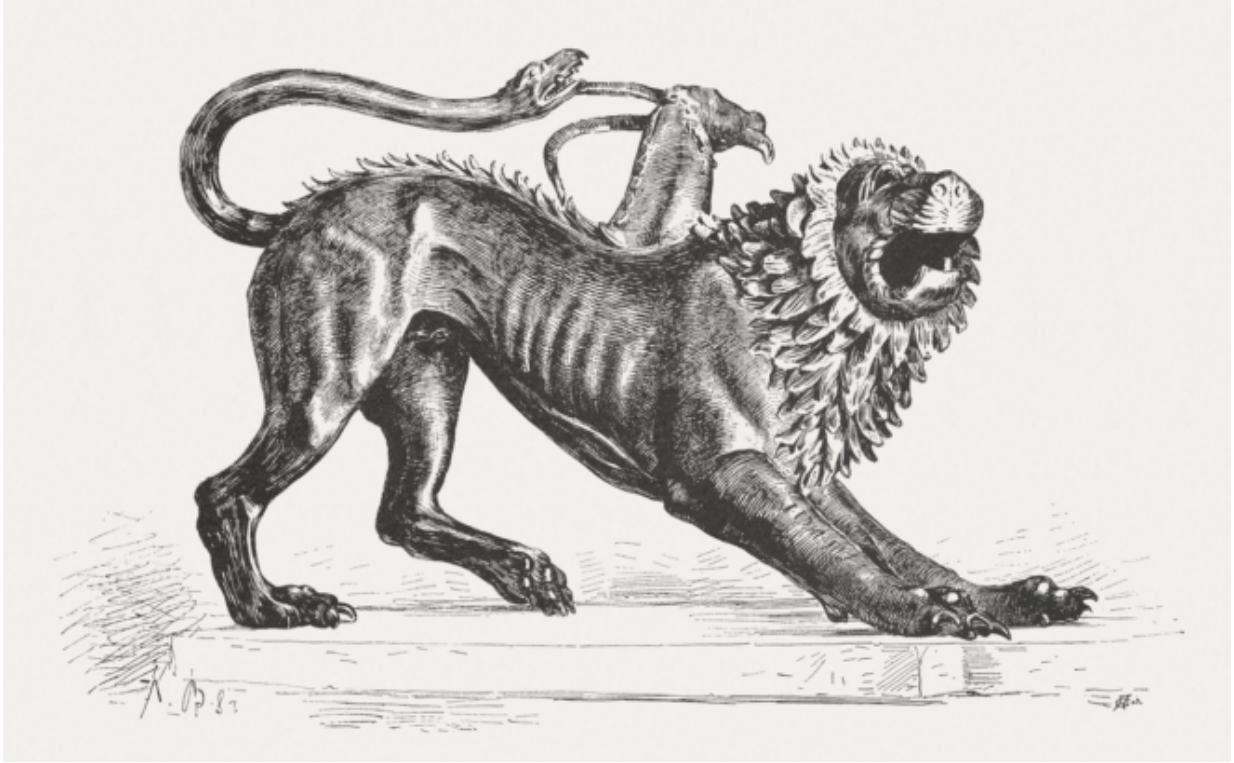
?? ?? · Saturday, January 21st, 2023



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Wikipedia

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ZU_09/iStock

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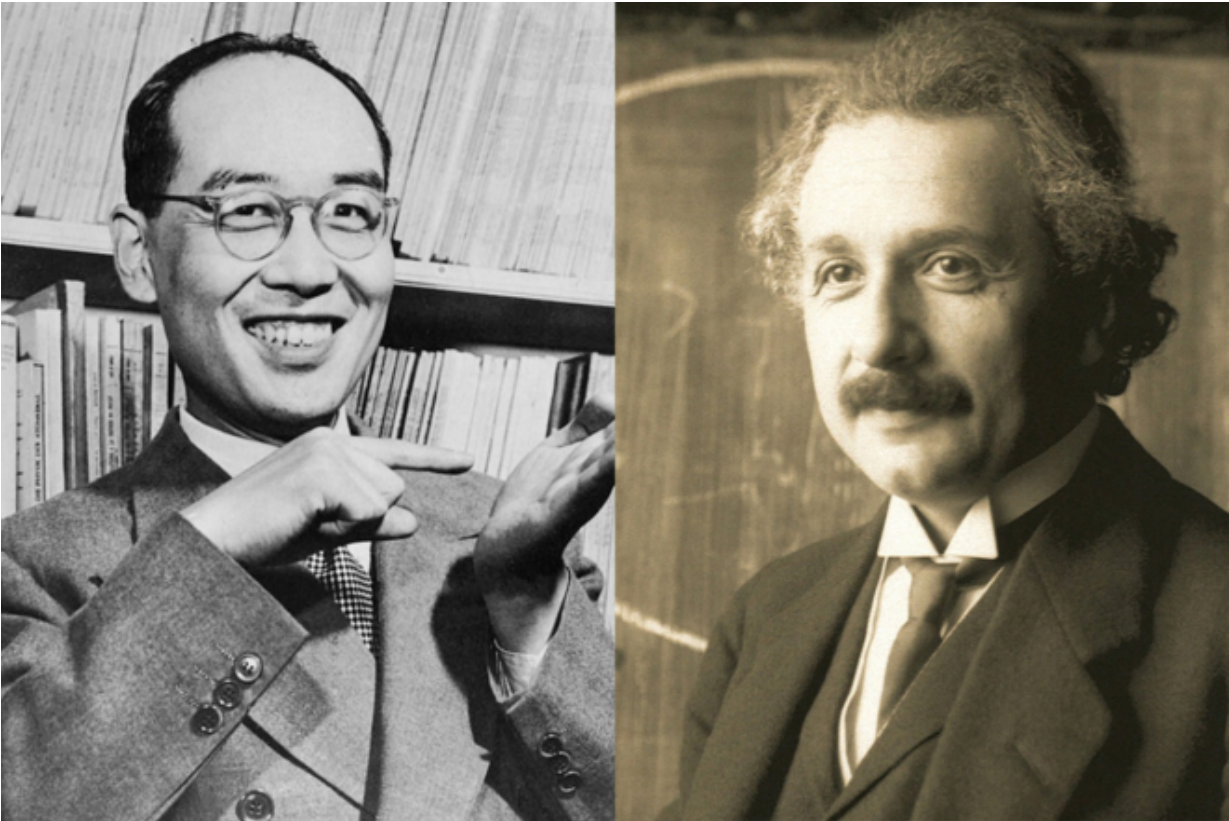
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3000????????????10????????????????????
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1920??????
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<https://www.yomiuri.co.jp/kyoiku/kyoiku/news/20230112-OYT1T50041/>

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1970??

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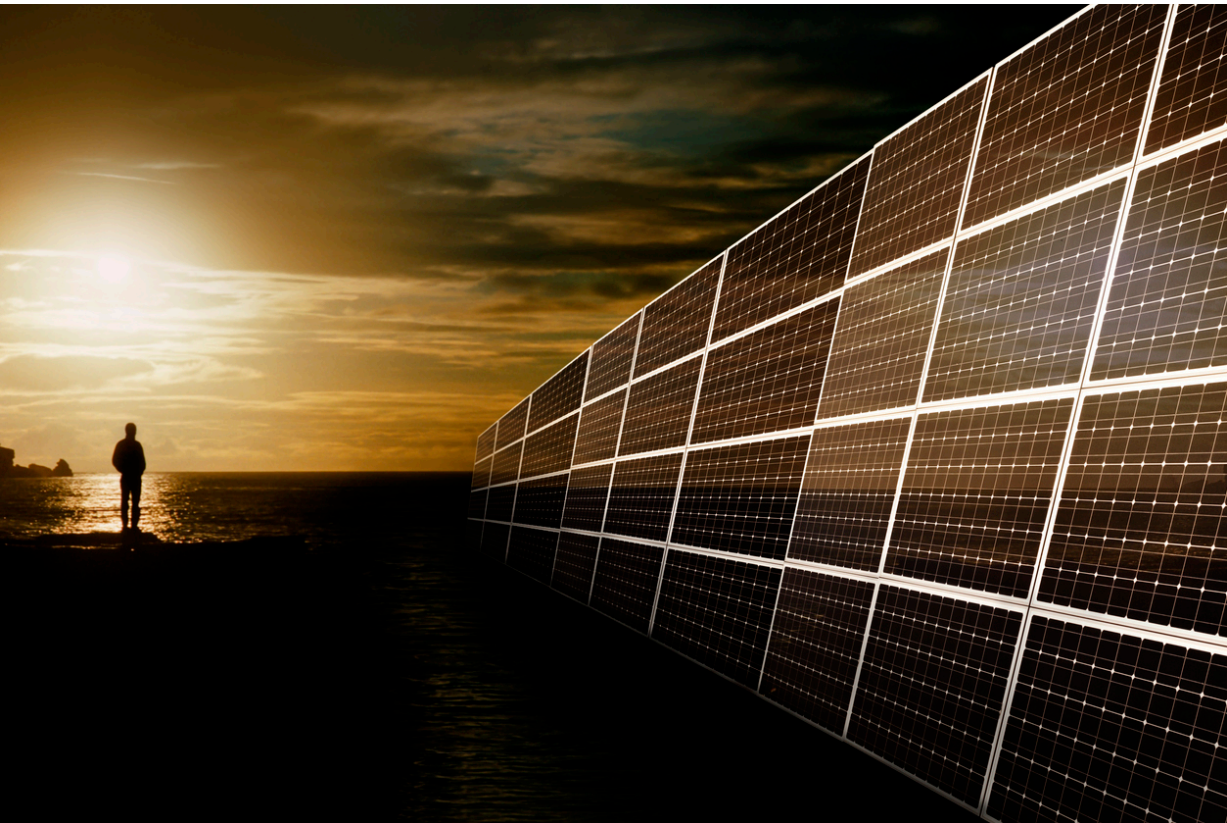
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Posted in [???](#), [?????](#) | [No Comments »](#)

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?? ?? · Tuesday, January 10th, 2023



HadelProductions/iStock

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2021?6??G7????????10??G7????????????????????????????2022?6????????
????9??EU????????????2022?8????????????????????????

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????????2022?2????????12????????????????????????????
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????????????????????????????SDGs????????????????
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??CSR????
??2022????????50????????????????????1????

調査項目	公表数
① 行動指針、行動憲章など	50 社（100%）
② 人権（強制労働をしない、など）	50 社（100%）
③ 公正な取引（優越的地位の濫用をしない、不利益を与えない、など）	43 社（86%）

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

??50????43?86%????
????????????????????²⁾?

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????????????????7????????????????

??2023?1?7
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????????2022?G7????????2022?G7????2022?G7??
????????2021?G7????????
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?????12??
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?1?????CSR?????????????????????????????ESG????????????

?2????????50??CSR????500????
??1????10?30????????50????????????????

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?SDGs???????

Posted in ???, ????? | No Comments »

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

?? ?? · Monday, January 9th, 2023



NicoElNino/iStock

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????????????????????????????????2????????

2050????2030?CO2????????????????2022?2????????40????????????????7??
 ?????CO2????????????????????????????????

????2000????????????²¹⁾??
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2023?1??
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- CO2????????
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??2050????2030?CO2????????????
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Posted in ???, ????? | No Comments »

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

?? ?? · Monday, January 9th, 2023



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H M Shahidul Islam/iStock

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

Sky New????????????????????

BBC????????????????????

???"experts say..."????????????????

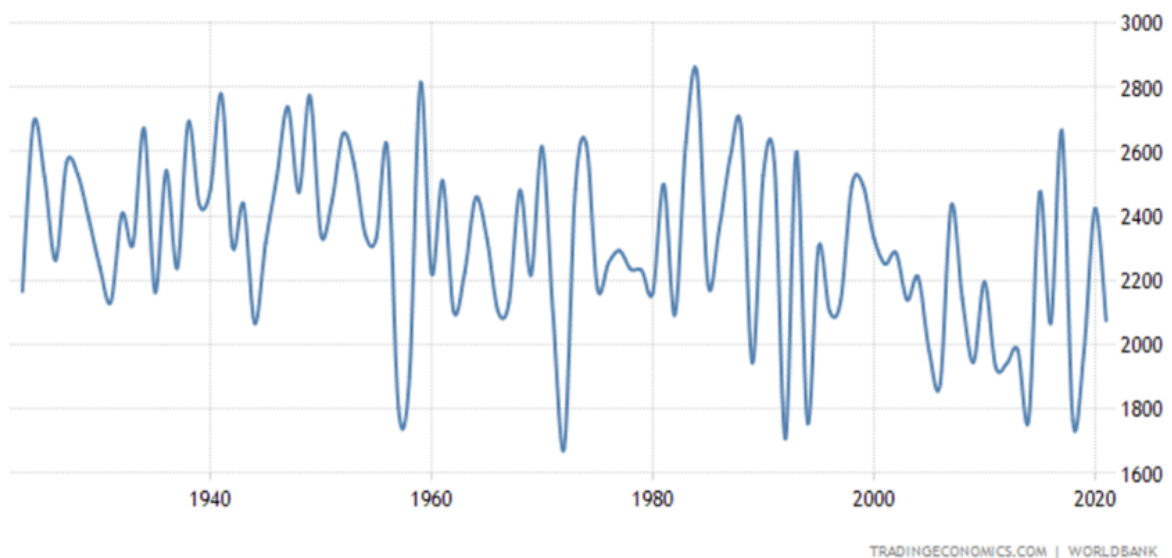
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[illegible]

1962018

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eme weather ?floods????????????????????



OurWorldInData.org/natural-disasters • CC BY

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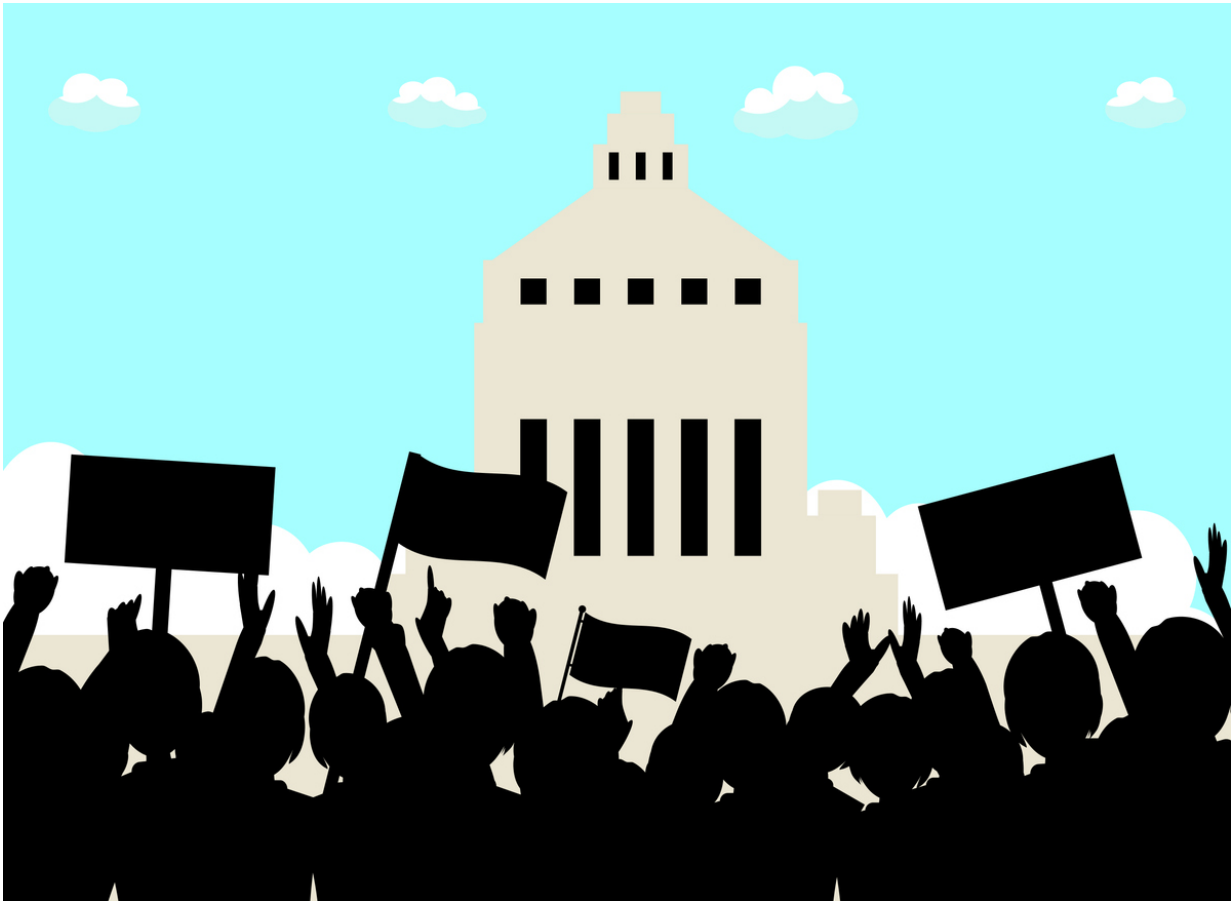
Posted in ???, ????? | No Comments »

???????????GX??????????????

?? ?? · Sunday, January 8th, 2023

?GDP?2????????????????????????3??
????????1????????????????????????????????

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kid-a/iStock

GX????????

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GX???HP

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?GX?????(?)?????(?)?
?GX?????(?)????????

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????GX????????2022????3????????
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そのため、化石エネルギーへの過度な依存からの脱却を目指し、需要サイドにおける徹底した省エネルギー、製造業の燃料転換などを進めるとともに、供給サイドにおいては、足元の危機を乗り切るためにも再生可能エネルギー、原子力などエネルギー安全保障に寄与し、脱炭素効果の高い電源を最大限活用する。

????????

安定的で安価なエネルギー供給は、国民生活、社会・経済活動の根幹であり、我が国の最優先課題である。今後 GX を推進していく上でも、エネルギー安定供給の確保は大前提であると同時に、GX を推進することそのものが、エネルギー安定供給の確保につながる。

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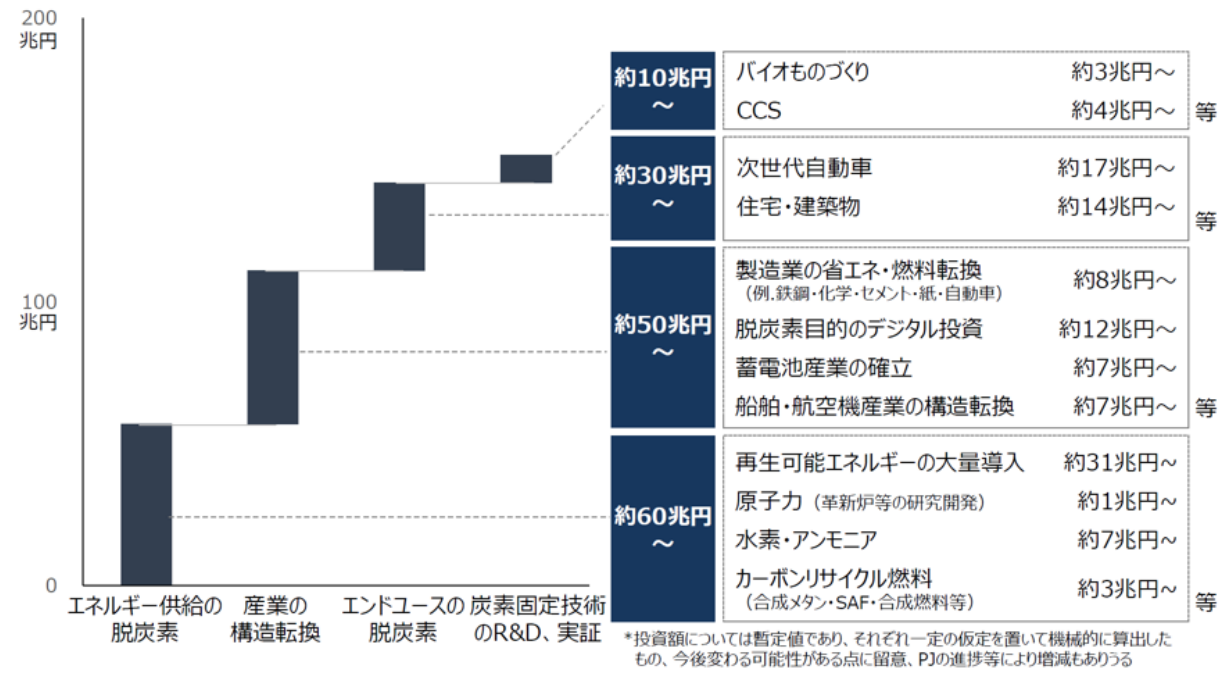
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??31??

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【参考】 GXを実現する官・民の投資のイメージ



??GX????4????

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????????????????????CO2????????????????????RITE????2030??46%????????????????30??
GDP????????????RITE??p8?

GX????????????????

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???GX??????

?10??150????GX????????20??GX????????????????

「GX 経済移行債」(仮称)

国として長期・複数年度にわたり投資促進策を講ずるために、カーボンプライ
シング導入の結果として得られる将来の財源を裏付けとした 20 兆円規模の「GX
経済移行債」(仮称)を、来年度以降 10 年間、毎年度、国会の議決を経た金額の
範囲内で発行していく。

GX????????????????????????????

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????????GX??
????GX????????????????????????????????

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????GX????20??
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??GX????????????

④ カーボンプライシングの実施等を担う「GX 経済移行推進機構」（仮称）の創設

排出量取引制度の運営や負担金・賦課金の徴収等（先行投資支援の一部を含む）に係る業務を実施する機関として、「GX 経済移行推進機構」（仮称）を創設する。排出量取引制度と炭素に対する賦課金制度との「ハイブリッド型」のカーボンプライシングを導入するため、両制度に関する調整・管理及び徴収業務を、本機構が一体的に実施する。また、2026 年度の「排出量取引制度」本格稼働に向けて、本制度に係る各種実務を円滑に進め、中長期にわたり産業競争力強化と効率的かつ効果的な排出削減の両立が可能な形で制度を安定的に運営するため、排出実績や取引実績の管理、有償オークションの実施、取引価格安定化に向けた監視等を実施する。

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??GX??

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????????GX????????????????10???150????GX????????????????????????????????????

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今後 10 年間で 150 兆円を超える GX 投資を官民協調で実現していくためには、国として長期・複数年度にわたり支援策を講じ、民間事業者の予見可能性を高めていく必要がある。そのため、新たに「GX 経済移行債」（仮称）を創設し、これを活用することで、国として 20 兆円規模の大胆な先行投資支援を実行する。その投資促進策は、新たな市場・需要の創出に効果的につながるよう、規制・制度的措置と一体的に講じていく。

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????????????????150???20??

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10???150????????15????GDP?3%????????2%????????????????????????????????

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?GX????????????????????

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したがって、支援分野の優先順位付け、支援対象事業の選定等においては、技術や市場の見通し、事業の効果などの要素を検討するとともに、定期的に支援事業の進捗評価・分析を行い、支援継続の要否などを確認するためのチェック機能を設ける。支援対象については、こうした機能を通じて柔軟に見直しを行う。

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????????????????GX????????????????

- ?GX????GX??
- ?????????????????????????
- ?????????????GX????????????

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世界規模で異常気象が発生し、大規模な自然災害が増加するなど、気候変動問題への対応は今や人類共通の課題となっている。カーボンニュートラル目標を表明する国・地

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

2022????????????100????98????

?? ?? · Saturday, January 7th, 2023



Devrimb/iStock

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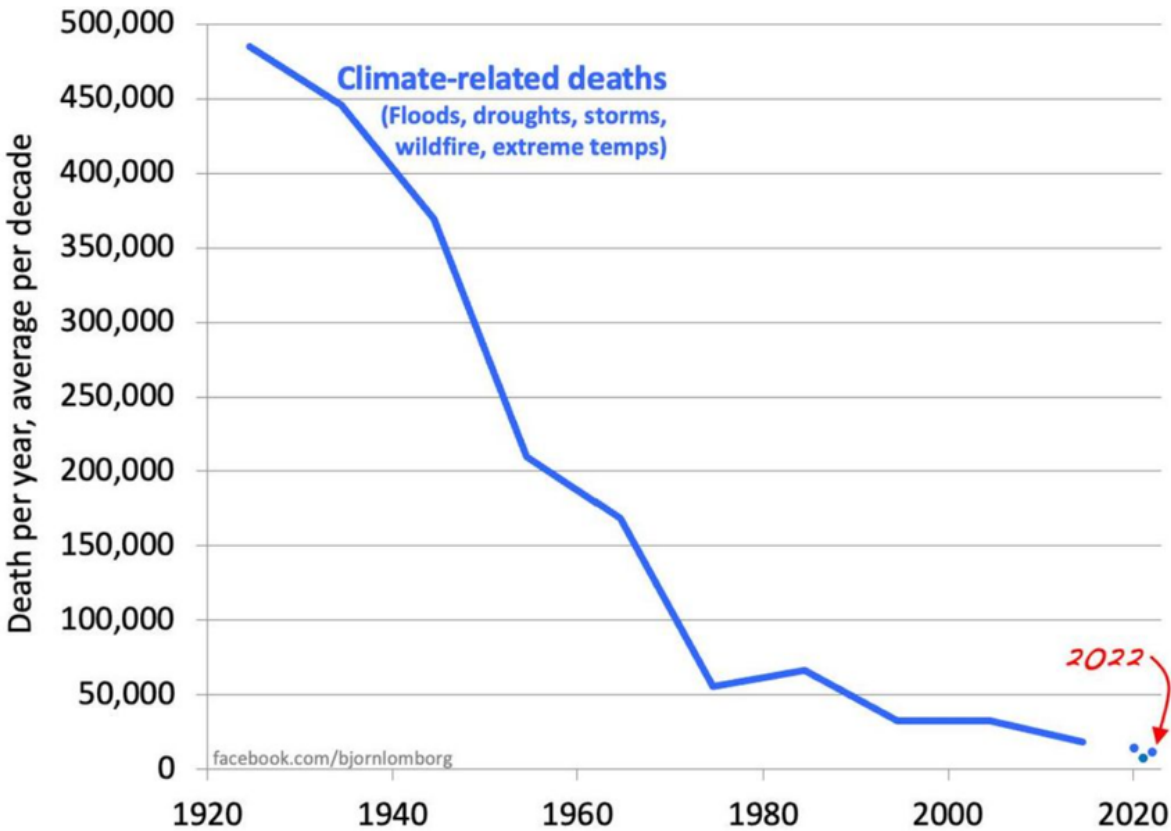
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????????????????1920???29????????????2010???2019????????????????3????????

Climate-related Deaths: 1920-2022

Deaths have declined precipitously because richer and more resilient societies reduce disaster deaths and swamp any potential climate signal



OFDA/CRED International Disaster Database, <https://public.emdat.be>, deaths averaged over decades 1920-29, 1930-1939, ... 2010-2019 placed at decadal midpoints (1924.5, 1934.5 etc), with annual data for 2020, 2021, and 2022, accessed January 1, 2023. Likely database will be updated further, so the current 2022 estimate is probably low. 2022 at 14,920 dead, 2021: 7,705, 2022: 11,873. Update of Fig. 17 from <https://www.sciencedirect.com/science/article/pii/S0040162520304157>.

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2022??2022??

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Posted in ???, ????? | No Comments »

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?? ? · Saturday, January 7th, 2023



Natali_Mis/iStock

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2.3.???

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????????2040??
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????Typhoon????????????21t???4t????????????????????49MWh????????????????????
????????180Wh/kg????????????????13??272

t????????49×10⁶Wh/180×10³Wh/t?272.2t????????????????

????????TV??
70??=272/4??
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????????6.2m×?2.5m???4667kg?300????????????S????????2100kg?100kWh????300?
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????????2.2????????220kWh??1m²?1
50W????6.2m×?2.5m????????95????220kWh/(0.15kW/m² × 6.2m × 2.5m)?94.6
h????95????????1????????????

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????????????????BEVs??
????FCV??1100????????????????

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????????????????????EV?PHEV??
??700????????????FCV????
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??BEVs????????????????????????????????LDVs?light duty
vehicles????????????????45??
????????????????????????????????

????????A320??19????????????????

????13??LDVs????2040????17?19????????????????????3600??LDVs????2021????B
EVs?36???1%????????????????LDVs????????????100????????????LDVs????????
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2021????????1250??(???)BEVs????70????????????????????????????????
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Posted in ??, ???? | No Comments »

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?? ?? · Friday, January 6th, 2023



runeer/iStock

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??50??5??????

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Our climate is heating rapidly. Floods, droughts, heatwaves, extreme storms and wildfires are going from bad to worse, breaking records with ever alarming frequency. Heatwaves in Europe. Colossal floods in Pakistan. Prolonged and severe droughts in China, the Horn of Africa and the United States.

There is nothing natural about the new scale of these disasters. They are the price of humanity's fossil fuel addiction. The number of weather, climate and water-related disasters has increased by a factor of five over the past 50 years.



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Wikipedia??

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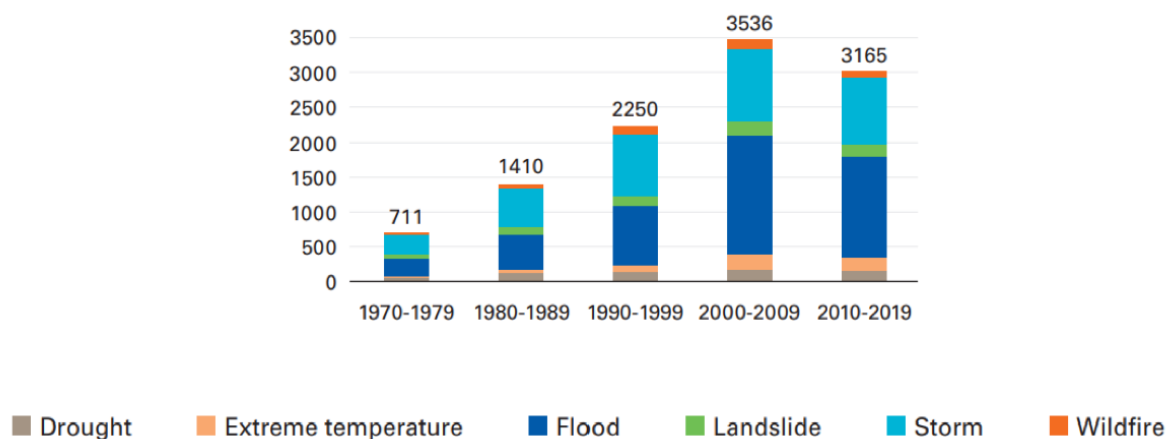
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(a) Number of reported disasters
Total = 11 072 disasters



??(United
Science)??

in

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Posted in ???, ????? | No Comments »

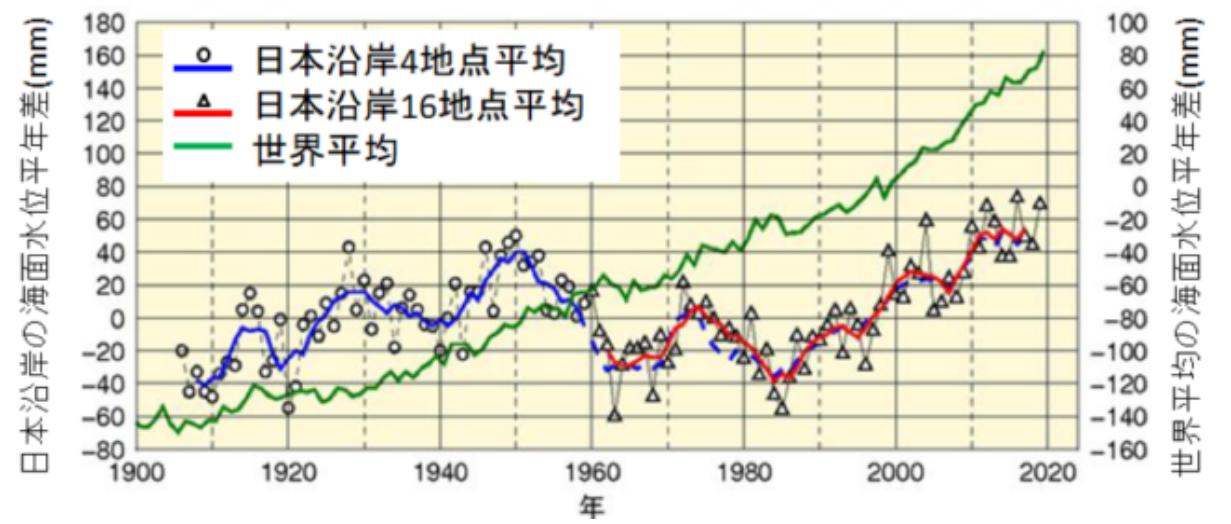
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?? ?? · Tuesday, January 3rd, 2023

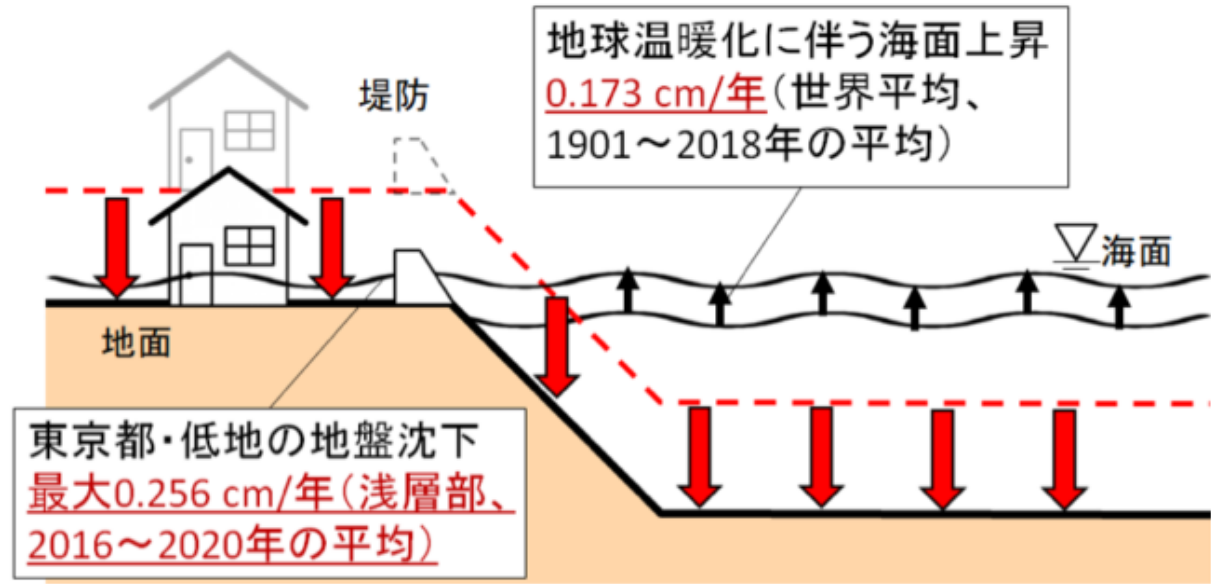


gyro/iStock

2022?11?7????????????????????1.4
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190620192020



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202241IPCC
61

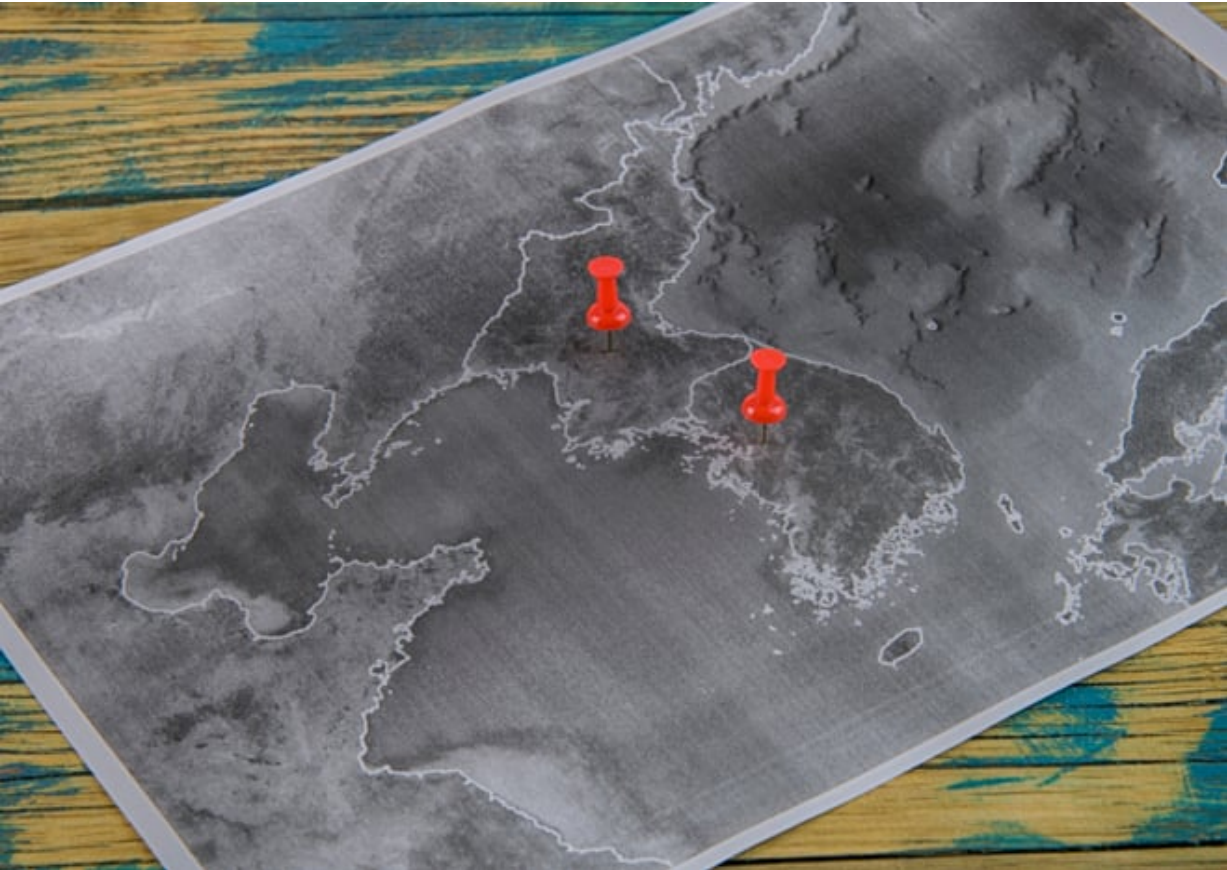
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Posted in , | No Comments »

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?? ?? · Wednesday, December 28th, 2022



Perytskyy/iStock

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dzika_mrowka/iStock

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

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

?? ?? · Sunday, December 25th, 2022



gremlin/iStock

WEF????????????????????????????????2050????????????????????????????

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?????6,000??40??80????????????????????????????
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??200????????????????????
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ESG????????

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

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?? ?? · Saturday, December 24th, 2022

EU????????????12?18?????EU??EU????????????????
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????EU?CO₂??????4????EU-
ETS????????????2030????????43??62????????????????????????????????????
????????????????????2026????????????????????

????26??2.5??????27?5.0??28?10??29?22.5??30?48.5????????2034??100????????????
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Galeanu Mihai/iStock

??EU????????????CO₂????????
??EU????????????
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??EU????????????
????????????CBAM????????????

CBAM??EU??CO₂??EU??ETS????????

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??WTO????????????
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????????2023?10??25????15??202
6????????????????EU??26??
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??EU????????????????????????????2026???EU????????????

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?? ? · Friday, December 23rd, 2022



Artur Nichiporenko/iStock

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2.1. ?????????????????

????????1????????489.7 EJ??60??CO2??

Table 1. Primary energy and electricity sources in exajoules, EJ (10^{18} joules) and installed wind and solar capacity in GW for 2021 [7]. Electricity generation converted to EJ from TWh. 1 EJ= 277.8 TWh.

Country	World	China	U.S.A	India	UK
Oil, EJ	184.21	30.6	35.33	9.41	2.5
Natural Gas, EJ	145.35	13.63	29.76	2.24	2.77
Coal, EJ	160.1	86.7	10.57	20.09	0.21
Total fossil fuel, EJ	489.66	130.93	75.66	31.74	5.48
Actual delivered Wind, EJ	6.7	2.36	1.38	0.245	0.232
Actual delivered Solar, EJ	3.72	1.177	0.594	0.246	0.045
Nuclear, EJ	25.31	3.68	7.4	0.4	0.41
Hydro, EJ	40.26	12.25	2.43	1.51	0.06
Other, EJ	29.5	7.253	5.306	1.289	0.953
Total Primary Energy, EJ	595.15	157.65	92.97	35.43	7.18
Electricity Generation					
Installed wind capacity, GW	824.9	329	132.7	40.1	27.1
Installed Solar Capacity, GW	843.1	306.4	93.7	49.3	13.7
Total electricity generated, EJ	102.47	30.72	15.86	6.173	1.116

Other includes bioenergy, geothermal etc.

?1

??1 EJ=277.8 TWh ??? 1 kWh=860.6 kcal=3597kJ??

????????1kWh=2074kcal=8669kJ????????????????MJ????????kJ????????????????????????????

????????????860.6

kcal????1kWh????????????1kWh????????????2074kcal????????????????????????????????1 kWh=860.6kcal????????????????2.4????????????????????????????????2????????17%? 34%??

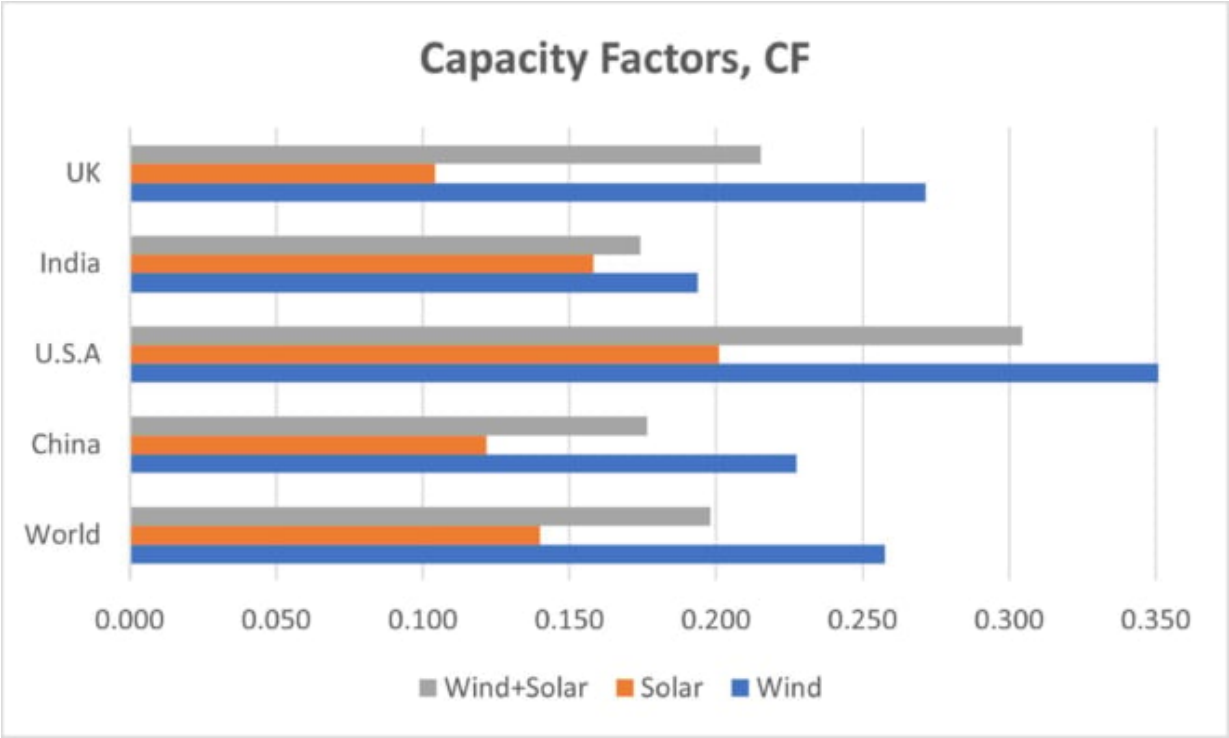
??2?3????????????????????????????????????

489.7EJ??60??=293.8EJ??CO2????????????????????????????????60??CO2????
40??CO2????????????????
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293.8EJ????????????????????9320GW????????????????????????????1????????
824.9
GW????843.1GW????1668GW??102.47EJ????????????1668GW/102.47EJ ×
293.8EJ?4782GW????????????????????2????????2????????1/2????
????????

9320GW??3GW??3110????????GW?100?kW????100?kW????3????311
0????????2021????????436????396GW????????

Capacity
Factors????25????40????9320/0.4?23300
GW????824.9 GW??28????



4

60??
??
4000?6000??/kW????4000??/kW????279GW????1????
????
640MWh??2????????8GW?5????
?
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2.2. ?????????????????????

????????????23300GW????????????????????????????????

- ??25???2500×10⁶ tons?
- ???????120???12000×10⁶ tons?
- ??0.7???70×10⁶ tons?? 2021???????0.21???
- ?????????1.63???163×10⁶ tons?
- ?????????2.20???220×10⁶ tons?

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

????????????23300GW????????????60%????????????
????????CO2????????????????????????????CO2????
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????20?25????????????????????????????????
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2.3. ?????????????????????

????????CO2????????CO2????e-
fuel????44????44????
?????

?2?Jet/Kerosene????1???0.0379EJ????1????14EJ????44??e-
fuel????14/0.44?31.8?32EJ????1000GW????0.4????2500
GW????

	Million barrels of oil equivalent, MBOE	Energy, exajoules, EJ	Volumetric lower calorific value, MJ/litre	Fuel Volume, billion litres
Gasoline	26.26	0.1607	32.5	4.94
Diesel/Gasoil	28.12	0.1721	36	4.78
Jet/Kerosene	6.2	0.0379	35	1.08
Residual Fuel Oil	6.2	0.0379	38	1.00
Other	32.75	0.2004		
Total	99.53	0.6091		

1668GW102.47EJ32EJ1668/102.47×32520.9
GW2

e-fuel

e-fuelCO2e-fuel

e-fuel

e-fuel

e-fuel

13CO21920.12ha36401
haCO28.80.12ha31ha253

216.2 MBOE2263 MBOECO29.90990×10⁶
tons

0.12 ha × 990×10⁶ t/ ÷ 3 t/ 39.6×10⁶ ha

(489.66 EJ)2.8%(35.7×10⁶
ha)3

11

Posted in , | No Comments »

CO2

· Wednesday, December 21st, 2022

CO210CO2CO210

2030CO2

CO27.1

HTTHTT

5kW?PV4kWh

	導入コスト	自家消費	年間メリット	試算諸元	回収年
PVシステム	150万円(5kW) 家庭用のPVシステム導入費30万円/kW、出力5kWと仮定。 ^[1]	30% 現在の住宅用太陽光発電の平均的な自家消費率実績 ^[2]	FIT期間中 12万円/年 FIT以降 6万円/年	資源エネルギー庁「地域活用要件について」(R1)に準じて試算 出力5kW×8,760h/年×設備利用率14% ^[2] =発電6,132kWh/年 ①自家消費分のメリット 6,132kWh×30%×系統単価24.76円/kWh ^[3] =45,548円/年 ②売電分のメリット(FIT期間中:~10年) 6,132kWh×70%×FIT単価(R1)21円/kWh=90,140円/年 ③売電分のメリット(FIT終了後、電力会社と個別に契約) 6,132kWh×70%×想定買取価格8円/kWh ^[3] =34,339円/年 ④運転維持費(定期点検・パワコン交換1回) ▲3,490円/年・kW ^[3] ×5kW=▲17,450円/年	15年
+蓄電池	75万円(4kWh) システム導入費18.7万円/kWh ^[4]	+20% ^[5]	3万円/年	①追加の自家消費分のメリット(充放電効率は90%と仮定 ^[6]) 発電電力量6,132kWh/年×充放電効率90%×自家消費20%×系統単価24.76円/kWh=27,329円/年 ②ピークカット+調整力運用のマルチユースを行った場合のメリット想定:2,400円/年(600円/年・kWhと仮定 ^[7]) ※夜間へのピークシフト運用は併用が難しいとして考慮せず	25年

???????????

??????????CO2?????1kWh????177kg-CO2???????Kawamoto????3??

???5kW????????CO2?????

177×5=885kg

????????????CO2????????????????????2.19kgCO2/Wp????5kW?????????

2.19×5=10.95tCO2

????

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

0.885/10.95=8.08%

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CO2????????8.08%???????

????????CO2????????7.1???????

7.1×(1+8.08%)=7.7

????????????????????CO2????????7.7?????

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

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

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?????Orthosie/iStock

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

????CO2??????10??????

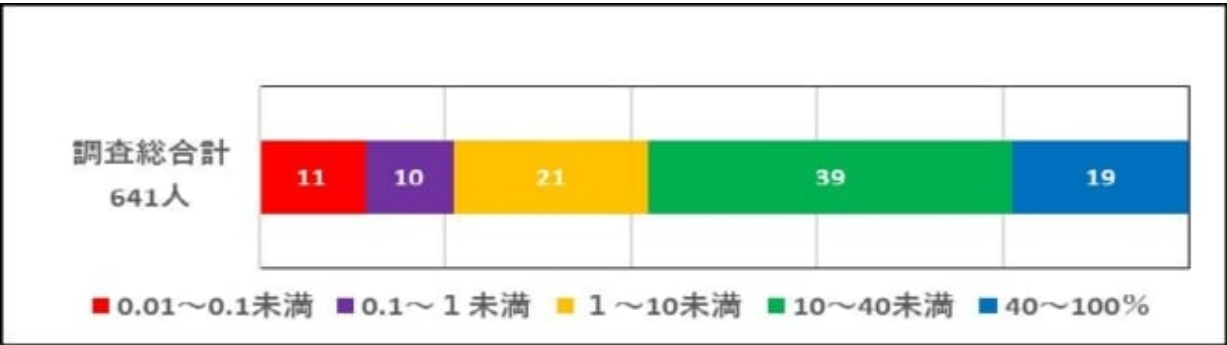
?? ?? · Tuesday, December 20th, 2022



artisteer/iStock

CO₂????????10????????10????????

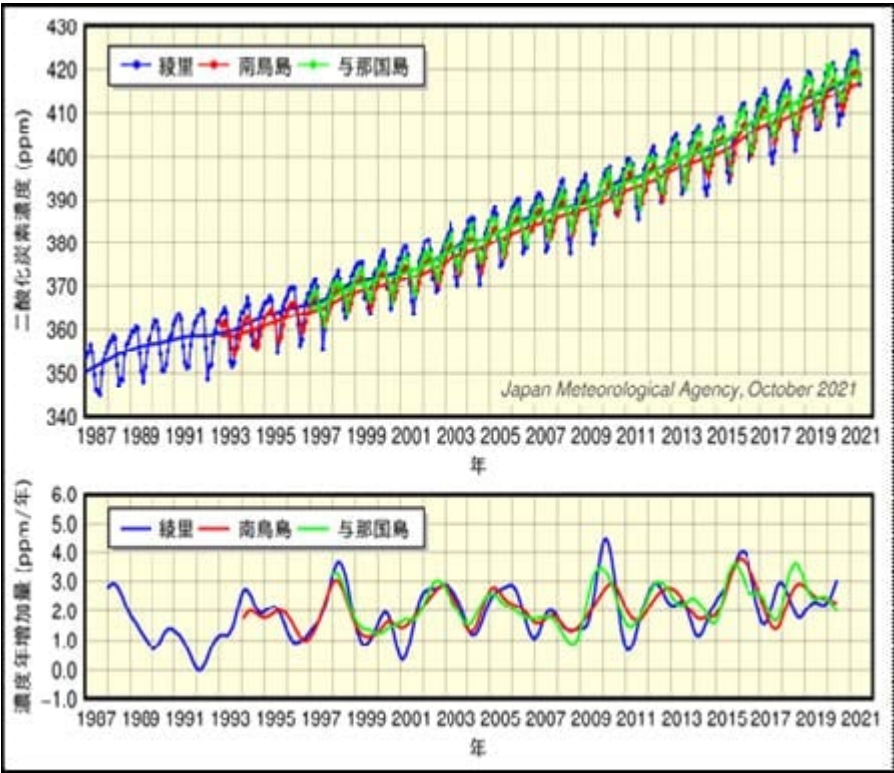
2021?22????????222?????????641????????????????????11?0.1????????????
????CO₂???10????????58????????



????????80????20????????????????????6????????78????21
??CO₂1????0.04????

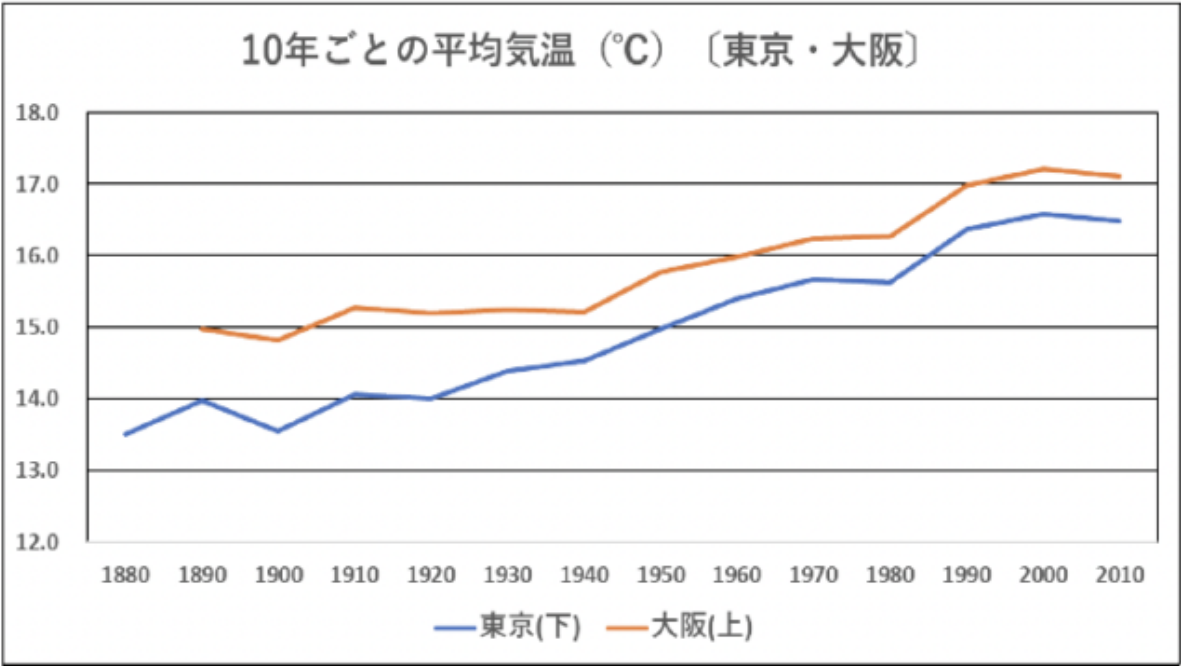
??CO₂????????
????????????

2000????CO₂????????????????????



????JMA?HP????3????????????????CO₂?1987????????????????????
????1958????????63???1958?2021???99ppm?316?415ppm????????1.57ppm/?
????30???CO₂????????

????????????????HP????>????>????????????????10???
00?09????????????



????1940??2000????????1980??1990????????2000????????
????5????????

????????CO₂????????????????????????????????CO₂????????????
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????????????????????????????????“??”????????????????????????????
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??”??”????????????

????????Spiral **of**
Silence??
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????????1980????????????????????????????????OPEC????????????
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2000????IPCC????????????????????COP????????????????????
????????????????????????????????

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

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?? ? · Monday, December 19th, 2022

????????COP????????NGO????????????????COP????????????

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

COP25????????????????????????????????
????????????1????????????NGO????????????N
GO????????????

????????????2????????????
????????NGO????????

COP27????11?9????????????NHK????



NHK??

<https://www3.nhk.or.jp/news/html/20221110/k10013886821000.html>

COP27??

- 11?9??
- 11?10??
- 11?11??UAE/?GECF????????????Energy Transition Accelerator????
- 11?12????????????
- 11?14????????2024????
- 11?15????2030?BAU????30????
- 11?16????1????
- 11?17????
- 11?18????EU????Colossal Fossil????

??
???NGO????????????COP26????????????

??G7????????NDC????????
????????????COP27????????????????????????????????

????NGO????????NGO????????NGO????????NGO????????NGO????????NGO????
????????????

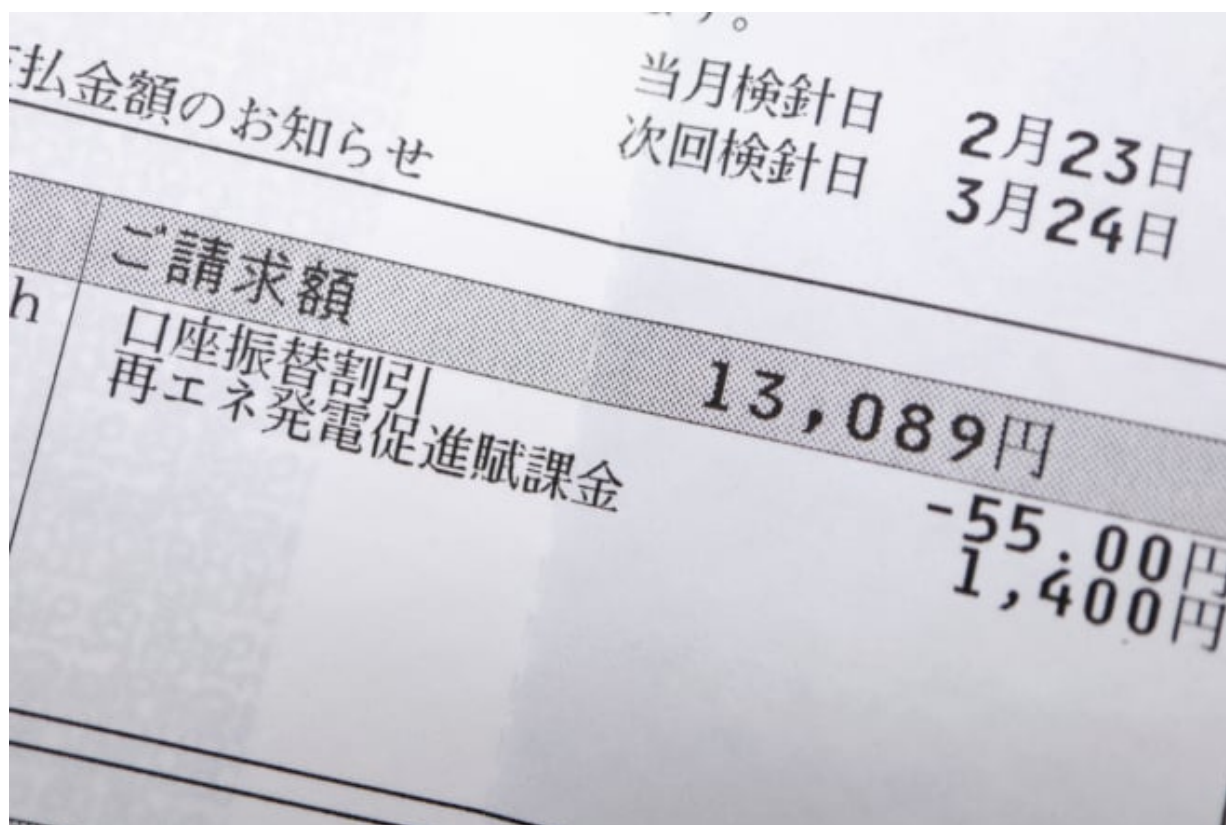
??NGO????NGO????????????????????????NGO????????NGO????????NGO????
????????

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?? ??? · Thursday, December 15th, 2022



Yusuke Ide/iStock

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???CO2??FIT????????????????????????????????????2012????
 ?????????????????????????????????????2021????????????????16.3????????????0????????????1
 3????????????????

[illegible]

電気ご使用量のお知らせ		電気料金領収書	
エネ庁 タロウ 様		エネ庁 タロウ 様	
●●年×月分		●●年×月分	
ご使用量 000 kWh	ご請求予定額 0,000円	請求金額 0,000円	
基本料金 000円	基本料金 000円	基本料金 000円	
電灯料金 000円	電灯料金 000円	電灯料金 000円	
電圧 000円	電圧料金 000円	電圧料金 000円	
	再エネ賦課金 0円	再エネ賦課金 0円	
再エネ賦課金		検針票サンプル	

再エネ賦課金

電気料金

+

再エネ賦課金

=

月々の電力会社へのお支払い

〈再エネ賦課金の算定方法〉

(2022年5月検針分の電気料金から適用される単価)

再エネ賦課金

=

ご自身が
使用した電気の量(kWh) × 3.45円/kWh[※]

※ただし、大量の電力を消費する事業所で、国が定める要件に該当する方は、再生可能エネルギー賦課金の額が減免されます。

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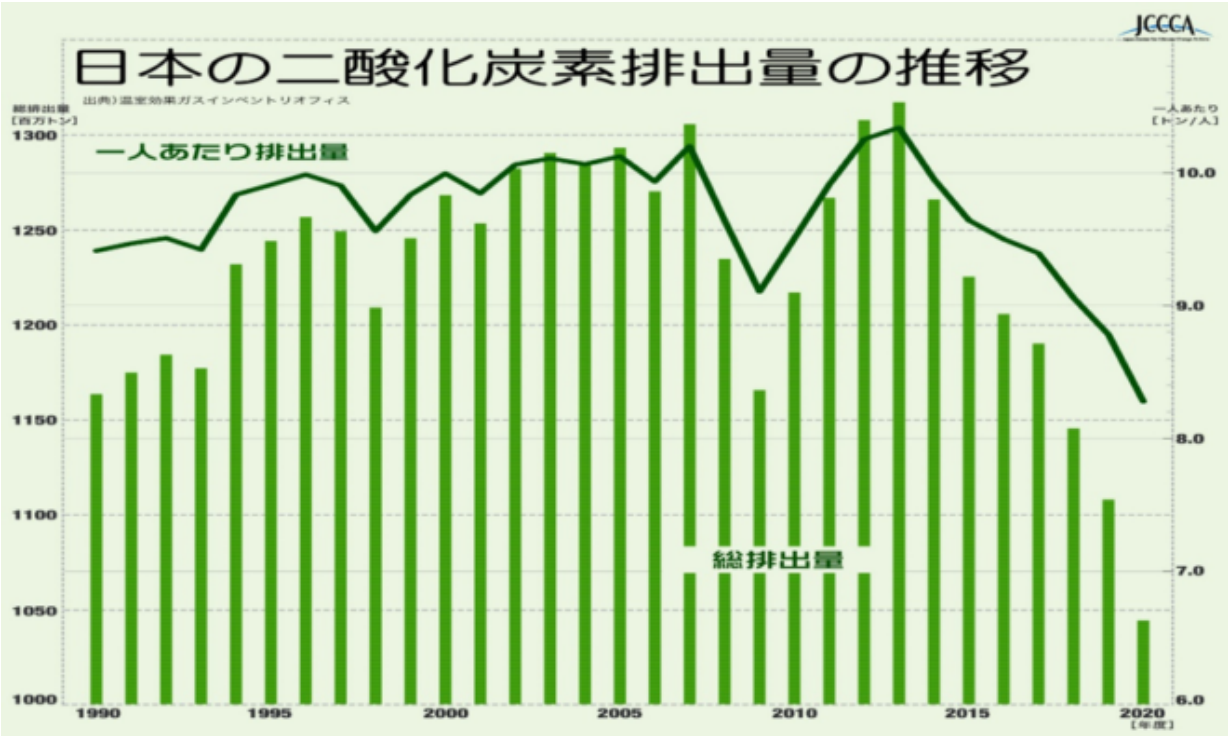
??2021????????????6000?kW????500?kW????????????????????2?6000?kW??25????????????????????????????????????2021??10.2???

????????

????????FIT????????????????CO2????????COP26????CO2????????

????CO2????1990????????????11?6000????2019??11?1000????????4????

??



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

???2020????????????????CO2????????????2019????????

????FIT??

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????????????????????????100??CO2

??

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???

????????????10????????????????????CO2??

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