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Posted in ???, ????? | No Comments »

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?? ?? · Saturday, September 24th, 2022



halbergman/iStock

米インフレ抑制法の気候変動対策支出内訳

(¥140/\$)

	億ドル/10年	億円/10年
グリーン電力投資・生産税控除	1,603	224,420
再エネ	651	
CCS	32	
原子力	300	
技術中立	621	
クリーン燃料税控除	234	32,760
クリーン自動車税控除	155	21,700
自家用車(最大\$7500/台)	89	
商用車	36	
郵便公社	30	
クリーン製造業税控除	403	56,420
多排出事業者向け補助金	95	13,300
建築物クリーン化補助金	453	63,420
農業再エネ化支援	126	17,640
気候対策農業支援	153	21,420
その他	293	41,020
	3,515	492,100

(7月27日CBO分析ベース: 成立法とは異なる)

出典: 電力中央研究所 上野貴弘氏レポート <https://criepi.denken.or.jp/jp/serc/discussion/22007.html>

????????????????15????????????2230????????????1????????740????????????2650????????
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EU??
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??2005??
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CNN???????????



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2006??60????????????????????

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Posted in ???, ????? | No Comments »

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?? ? · Friday, September 16th, 2022



ayhan turan/iStock

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???8????????????????????
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1991??(???)????????1970?80????????????????????80????????
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????????CO2????????COP????CO2????????CO2????

CCS

CO2

12 CO2

10 15 CO2

FIT

13 CO2

(EV) EV

CO2

2050

14

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Posted in ???, ????? | No Comments »

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?? ?? · Thursday, September 15th, 2022



igorartmd/iStock

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Posted in ???, ?? | No Comments »

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?? ?? · Wednesday, September 14th, 2022

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CEO??EU????????????????????50????????????????????
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herraez/iStock

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CEO??

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Posted in ???, ?? | No Comments »

??21????????????????ESG????????????

?? ?? · Saturday, September 10th, 2022

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

????????????????????SDGs??ESG??SDGs????????????????????
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?????ESG??



LumerB/iStock

8?16????21????????????SEC????ESG????????????SEC????????????
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8?23????????????????????????ESG????????????

8?24????????????????????????????????10?350????????????6????????13??
????????????ESG????????????????

????13????????????????????

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????????????????????8?24????????????????????????????1000??
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350????????ESG????????????????????UBS????????????

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audioundwerbung/iStock

6 LNG
 LNG
 LNG

8 23 EU

2025

EU

CO2

EV

CO2

CO2

????CO2??2030????1000?kW????????????
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??253????????????????
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??LNG????10????????????????????????????
??8?26????

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

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?? ? · Saturday, September 3rd, 2022



ayhan turan/iStock

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????7????????????????14???



??????372????2420????????????????????176????1650????????????????????

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????????1958?2022?4????CO2????????????????????

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

CO2 CO2 150 ppm

1 30 0.2 0.3

2 IPCC

3

3 80 60

HP 10 1950 60 1993 30

4 CO2

1000

() CO2

5 CO2

NHK

6
CO2 1850

CO2 100 23 mm

CO2 CO2

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7
CO2 CO2 CO2

170 2000 42
CO2 CO2 CO2

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Posted in ??, ??? | No Comments »

LCOE

?? - Thursday, September 1st, 2022



vchal/iStock

IRENA J.P.Morgan

IRENA

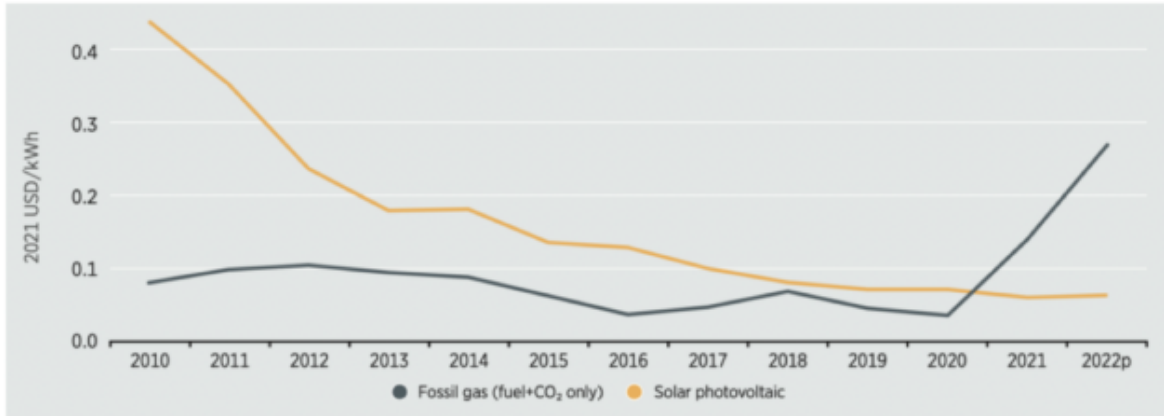
2022 13 IRENA 2021

Renewable Power Generation Costs in 2021 – Executive Summary (irena.org)

IRENA

- 2021 163GW LCOE G20
-
-

Figure ES.3 The weighted average LCOE of utility scale solar PV compared to fuel and CO₂ cost only for fossil gas in Europe, 2010-2022



?????2021?8?????????????2030????????????????????

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2. J.P.Morgan?????

?????5?J.P.Morgan????????????????????

12th Annual Energy Paper | J.P. Morgan Private Bank (jpmorgan.com)

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- ???

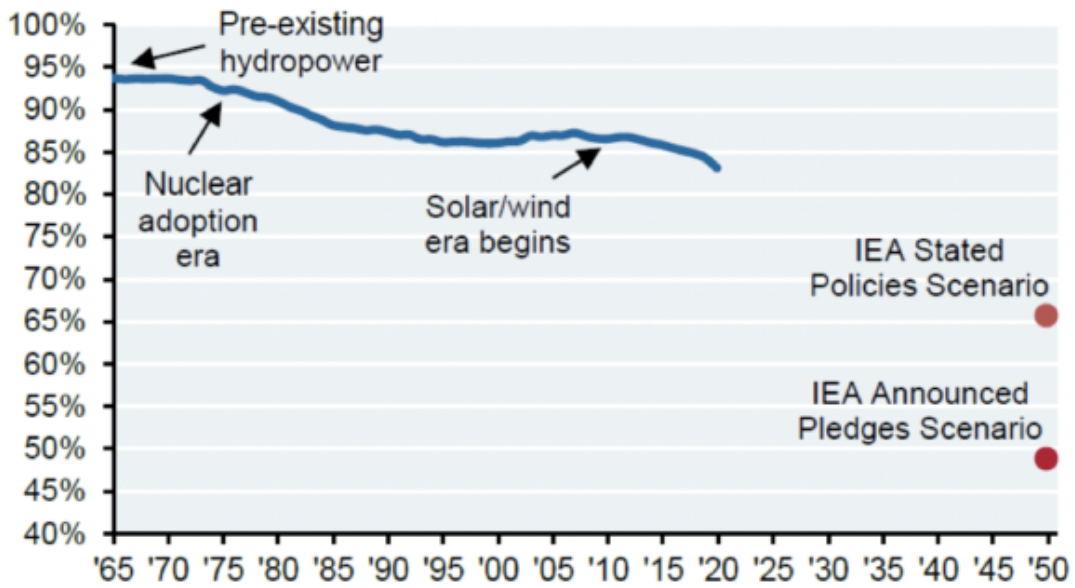
?2050??????

IEA?????????????????????????????2050?????????????66?????

???10????????????????????????????
?????????????????70???

The world uses fossil fuels for ~83% of its energy

% of global primary energy consumption from coal, oil and nat gas



Source: BP Statistical Review of World Energy, IEA, JPMAM. 2021.

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????????????LCOE??LCOE????????????
????????????????

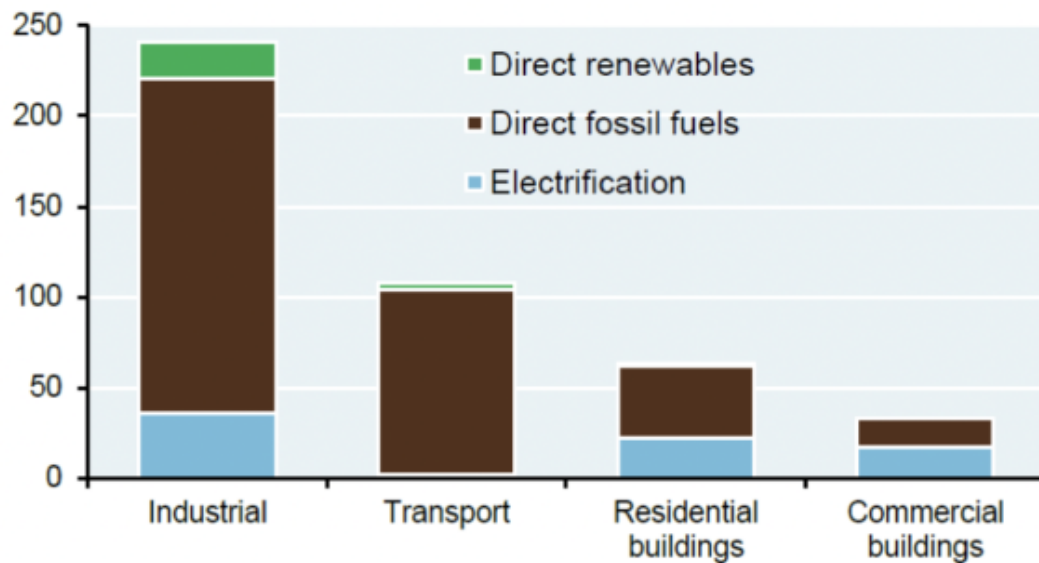
LCOE??i)????????????????????????
ii)????????????????
iii)??

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Low levels of electrification in global industry and transport

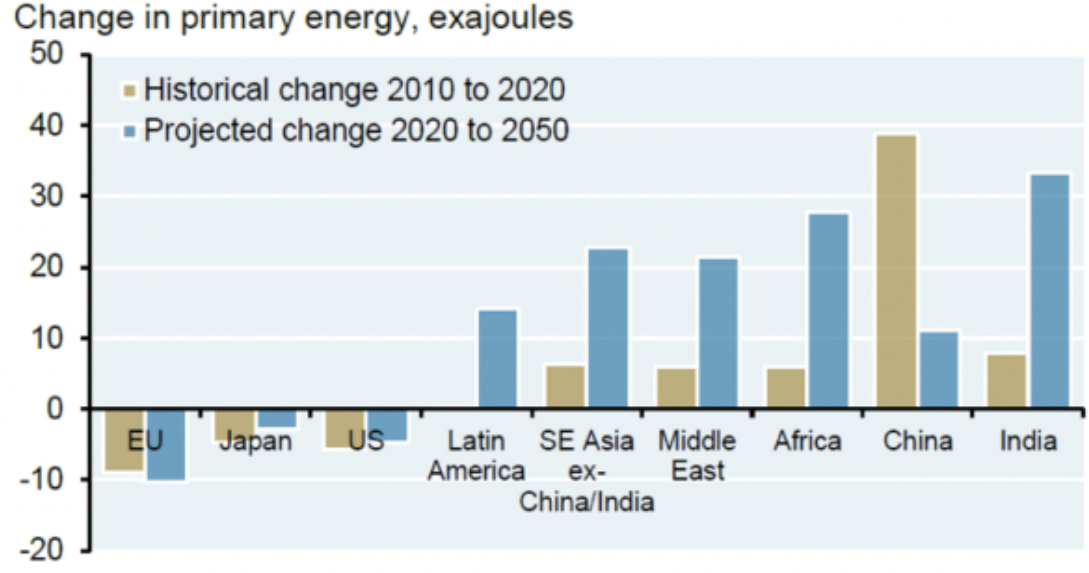
Quadrillion BTUs of final energy consumed by sector



Source: Energy Information Administration, JPMAM. 2021.

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??25??
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China is the only EM country projected to slow primary energy consumption growth over the next three decades



Source: International Energy Agency Stated Policies Scenario. 2021.

????????????????CO₂??
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3. LCOE??FCOE?

????LCOE??
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LCOE??
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????LCA????????????????FCOE?Full cost of electricity????????????????

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

COP27????????????????????????????

?? ?? · Monday, August 29th, 2022



imagedepotpro/iStock



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 ??????????200?????????11??
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????????????????????COP?????????1997??COP3????????????????????????????COP3?1997??12?????????
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COP??
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COP?????26????????????????????????????COP?????????????????2015??COP21????????????

??1.5????????????????????????????NDC?????????????????????5?????????
 ?????????????????????

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

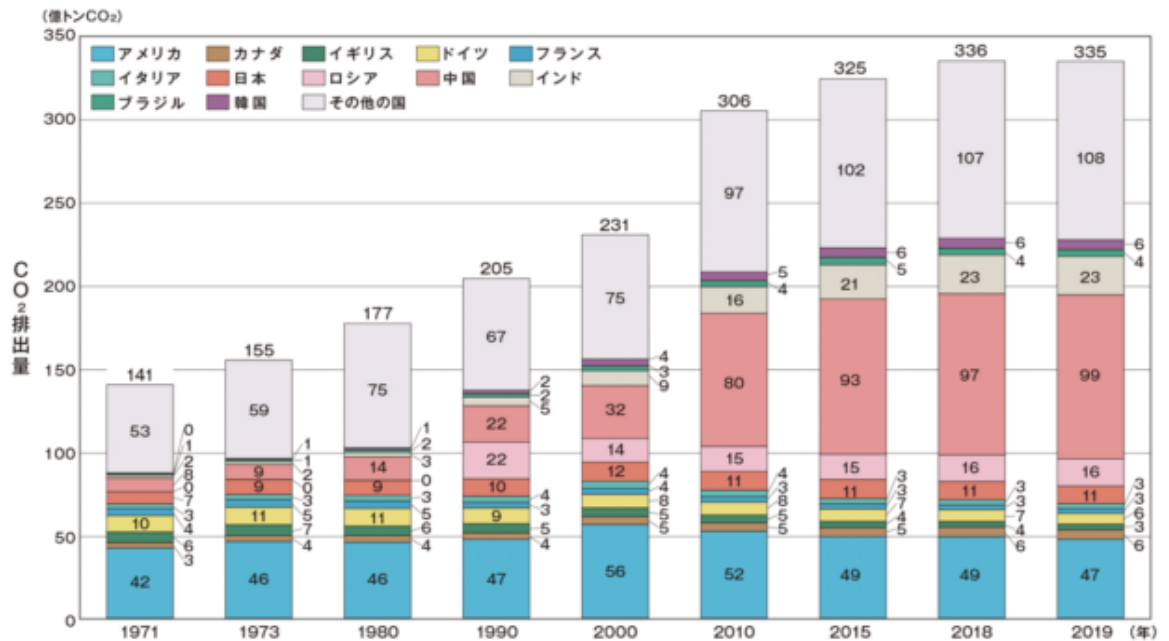
COP????????????????????????26??

??CO₂????????????????CO₂????????????????????????????????????
 ?????????????????????????COP??

CO₂????????????????????????????????

????CO₂????????2000?230????2019???1.5?340????????????

世界のCO₂排出量の推移



(注) 四捨五入の関係で合計値が合わない場合がある
 ロシアについては1990年以降の排出量を記載。1990年以前については、その他の国として集計

出典：(一財)日本エネルギー経済研究所「エネルギー—経済統計要覧2022」より作成

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????CO₂

?CO₂????COP????????CH₄????????CH₄????????CO₂?80????20????GWP-20????C
 H₄????????2030????????????30????????????????????

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 ?COP27????????????????????1000????????????????

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??2030????5800????????????

2?????COP27??
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Posted in ??, ???? | No Comments »

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

?? ?? · Sunday, August 28th, 2022



marrio31/iStock

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8?24????2?GX(????????????)????????

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?6??26????

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passive safety??????

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In-Vessel Retention(?????)?????????Ex-Vessel Retention(?????)?????

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???1/???????

Safety by design????

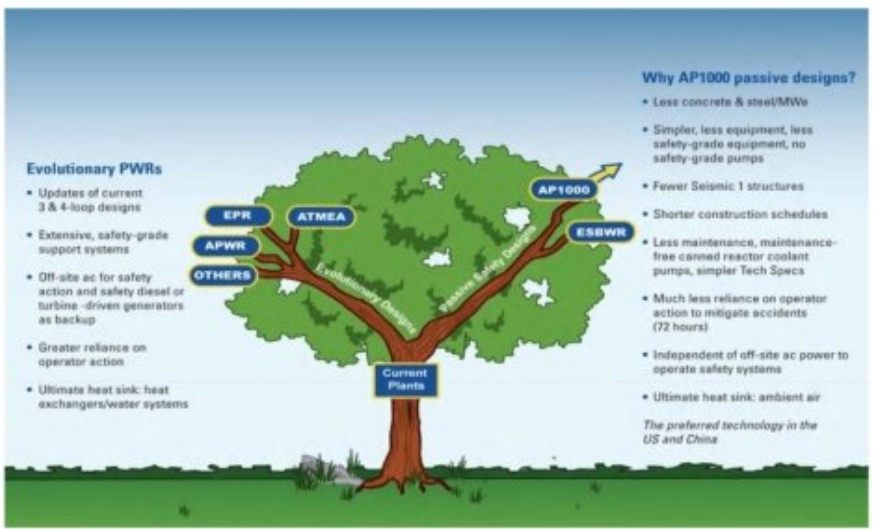
?Safety by design????????????1980????????????????????????????????????1979?????????TMI?????????????by
design???
Safety by
design???

TMI???
safety by
design???
1980???

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AP1000: Generation III+ & Evolution



©Westinghouse Electric Corporation.

Current Plants safety by design passive safety
AP1000 ESBWR
ATMEA EPR APWR ABWR
AP1000

ABWR APWR ATMEA

ABWR APWR
ABWR 6 7 3 11

ABWR ABWR

4 3 4 PWR APWR
APWR safety by
design ATMEA

Posted in , , | No Comments »

· Friday, August 26th, 2022

GX

7 10

	【新規建設に向けた方針等】	【既設炉の運転延長に向けた方針等】
 アメリカ	<ul style="list-style-type: none"> エネルギー省「革新的原子炉実証プログラム」等 2 炉の建設支援、8 炉型の研究開発支援 (2020) 老朽石炭火力をSMR等で置換可能と分析 (2022) 	<ul style="list-style-type: none"> 運転期限なし (40年+20年単位延長) 現時点で80年までの運転延長認可は6基 さらに9基について審査中
 イギリス	<ul style="list-style-type: none"> ジョンソン首相「エネルギー安保戦略」(2022/4) 2050年までに発電割合を25%に、24GWの導入 1基/1年に建設ペース加速へ、支援を抜本拡充 	<ul style="list-style-type: none"> 運転期限なし (10年ごとに安全審査) 2035年に40年となるサイズウェル原発で 20年延長を検討中
 フランス	<ul style="list-style-type: none"> マクロン大統領「新規原子炉計画」(2022/2) 2050年へ大型革新軽水炉14基を建設・検討 建設・運営主体の電力会社EDFを完全国有化 	<ul style="list-style-type: none"> 運転期限なし (10年ごとに安全審査) 56基中20基が40年超運転へ 運転延長も対象にグリーンファイナンス検討中
 オランダ	<ul style="list-style-type: none"> 新連立政権「政策協定」公表 (2021/12) 新たに2基を建設する方針を表明 	<ul style="list-style-type: none"> 運転期限は法律で規定 (期間のルールなし) 60年運転認可済の原発の再延長方針を表明
 韓国	<ul style="list-style-type: none"> 尹大統領「エネルギー政策の方向性」(2022/7) 2030年原発割合30%以上、国内2基建設等 	<ul style="list-style-type: none"> 運転期限なし (10年ごとに安全審査) 既設炉の継続運転手続きの迅速化を表明

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??3?????ABWR??
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????ABWR????????6?7????????2????????5????????BWR????????????
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??ABWR????????

SMR?????7?kW??

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??SMR????????????

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

?2035????????EV????????????????

?? ?? · Friday, August 26th, 2022



Naeblys/iStock

2025????1000????????????????????????EV????????????????????????

????2035????????EV????????????????????

??EV????????????????????????
60??CO₂????????????

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?10??20????????????EV????????????????????????????????

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??3????????4?3????????

??35????????50?
70????????90????????????

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6??2022????3????
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????????????????????EV????????????????????????????????????

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

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

?? ? · Thursday, August 25th, 2022

??Wedge
Online????????????????????????????????

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poco_bw/iStock

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1.5????????????????????????2050????????????????????2030?45????????????????????????????
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??2030????????????2030??45????????????????????????

??1.5????????????????????????????????????
everybody's business is nobody's business ????????????

????????????1.5????????????????NDC????????????????2060??2070????????????????????
????????????????????????????1.5??

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

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?? ?? · Wednesday, August 24th, 2022



mirza kadic/iStock

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??8????1????????25
0????3??120????1.65????????????????

????????7??2.7????372????????????30????????????
??10?1????????????????????????????????
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??1kWh????2.419????????33????????????????
????2kWh????????????????75?8????????????

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??LNG????????????????????

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Welcome to Japan!

“Welcome to Japan!”

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

2035?????EV????????????????????

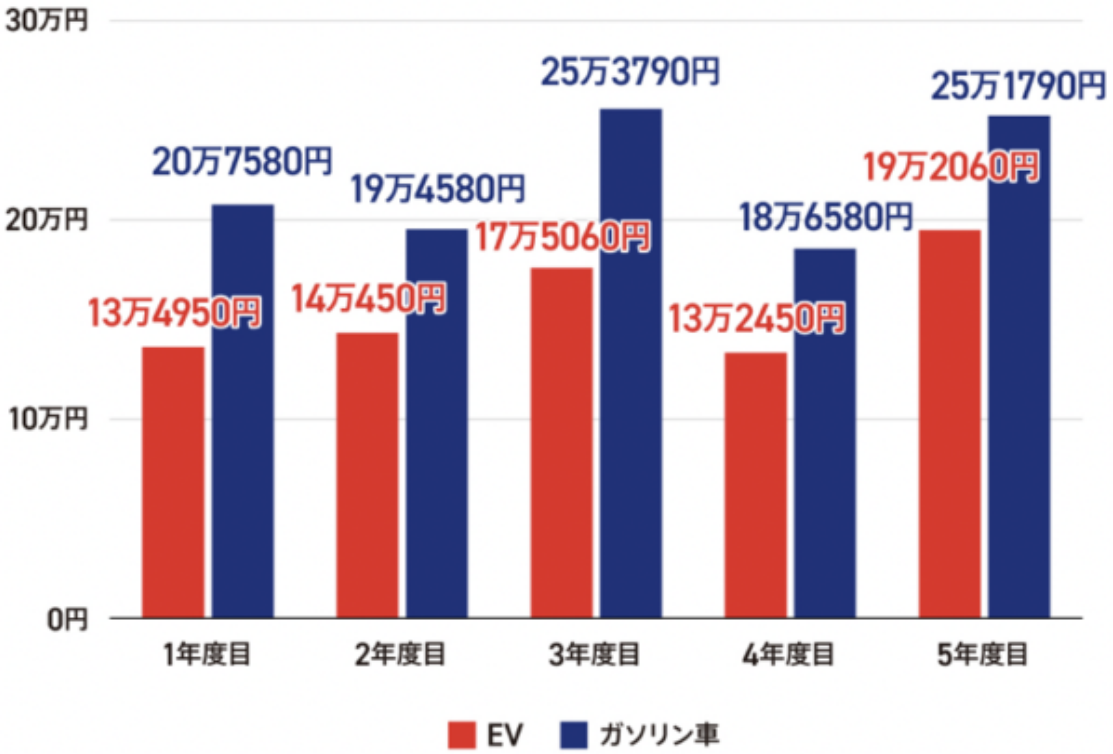
?? ?? · Tuesday, August 23rd, 2022



deepblue4you/iStock

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2020?10??2050????????????
??????2035????????????????EV????????????????

????EV????????????????????1??



?1 EV?????????????
 ???TEPCO

????????CO₂????????EV????????

????????ICV????????EV????????2????????2????????????????????
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 ?CO₂????????

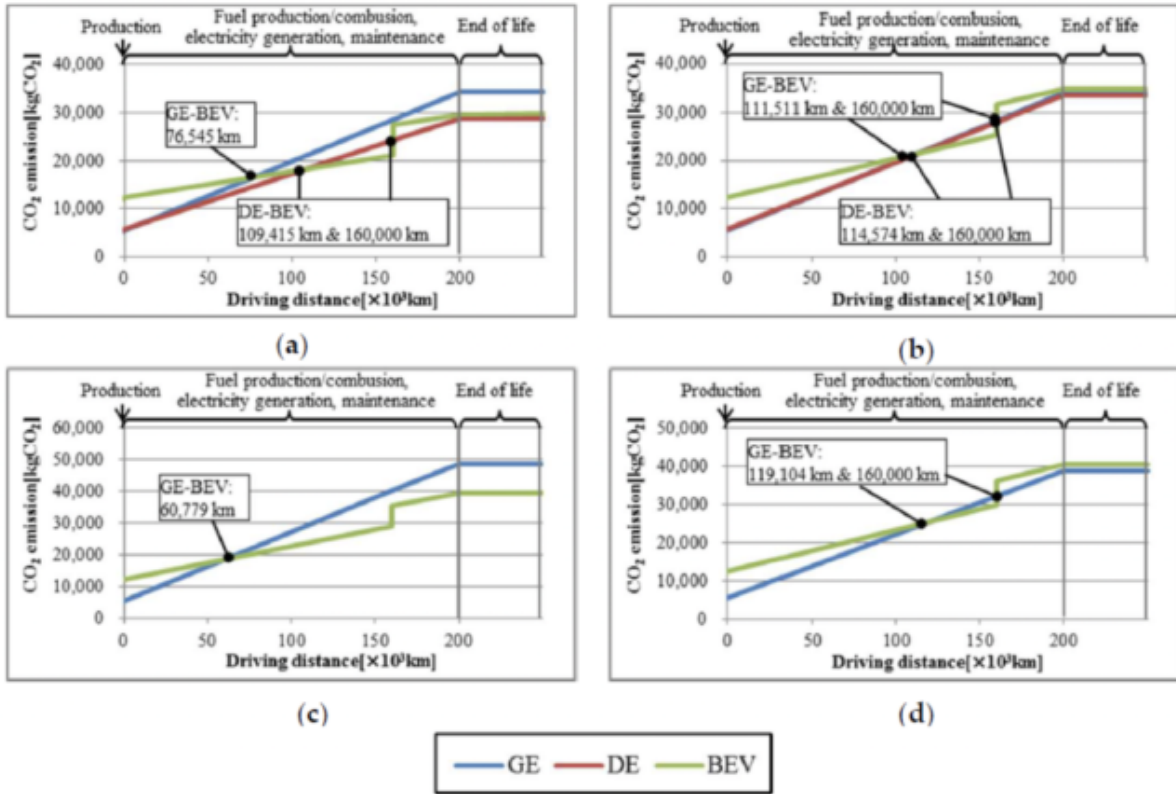
???EV????????CO₂????????ICV????????EV????????

EV??
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????????????????40????30????????CO₂????????EV????????
 ??125,000km????????13,500km????????EV????????9????????60,000km????????
 ?EV????????????????????????????????EV????????????????

???2019

????????????????????GE????????DE????????BEV????CO₂????????BEV?CO₂????
 177kg- CO₂/kWh??GE?DE?BEV????????????DIP: Distance of Intersection Point????????



2 CO2 emissions during life cycle for GE, DE, and BEV.

(a) EU; (b) Japan; (c) US; (d) China

GE?DE?BEV?CO₂?BEV?CO₂?BEV?

(a)EU?DIP?109,415km?BEV?DE?109,415km?16?km?16?km?BEV?

(b)DIP?111,511km?BEV?GE?16?km?BEV?

(c)GE?DIP?60,779km?BEV?GE?GE?

8?16?km?1?km?EV?8?EV?70?100?CO₂?

EV?8?BEV?CO₂?2035?EV?550?EV?

CO₂?EV?

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

ESG??????????

?? ?? · Sunday, August 21st, 2022



Pict Rider/iStock

????????????SEC????????????????????

[FT]????????SEC?ESG????????



SEC?5?ESG??

SEC????ESG??
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??MFA????????????????

?????MFA?SEC?????ESG?????????????????????ESG????????????
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ESG??SEC?????????????

ESG??SDGs?????????

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?????????????????CSR?????????50?????????????????????????????????200??300????????????????????
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ESG??SEC????????????????????????????
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?SDGs????????????????????????????????

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

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?? ? · Saturday, August 20th, 2022

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?1?Full cost of electricity “FCOE” and energy returns “eROF”, Dr. Lars Shernikau, Prof. William Hayden Smith, Prof.
Rosemary Falcon (Vers. 05/2022)

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

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?? ??? ?? · Tuesday, August 16th, 2022

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2020????????????????1MW??30.47????????7????????????????????????????????????
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Santje09/iStock

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Posted in ???, ?? | No Comments »

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?? ?? · Sunday, August 14th, 2022

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Highwaystarz-Photography/iStock

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<https://www.pref.kanagawa.jp/osirase/0502/kouhyou/2015j/2015j0124-2.html>

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PPA?Power Purchase Agreement??
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Posted in ???, ????? | No Comments »

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?? ?? · Tuesday, August 9th, 2022



Petmal/iStock

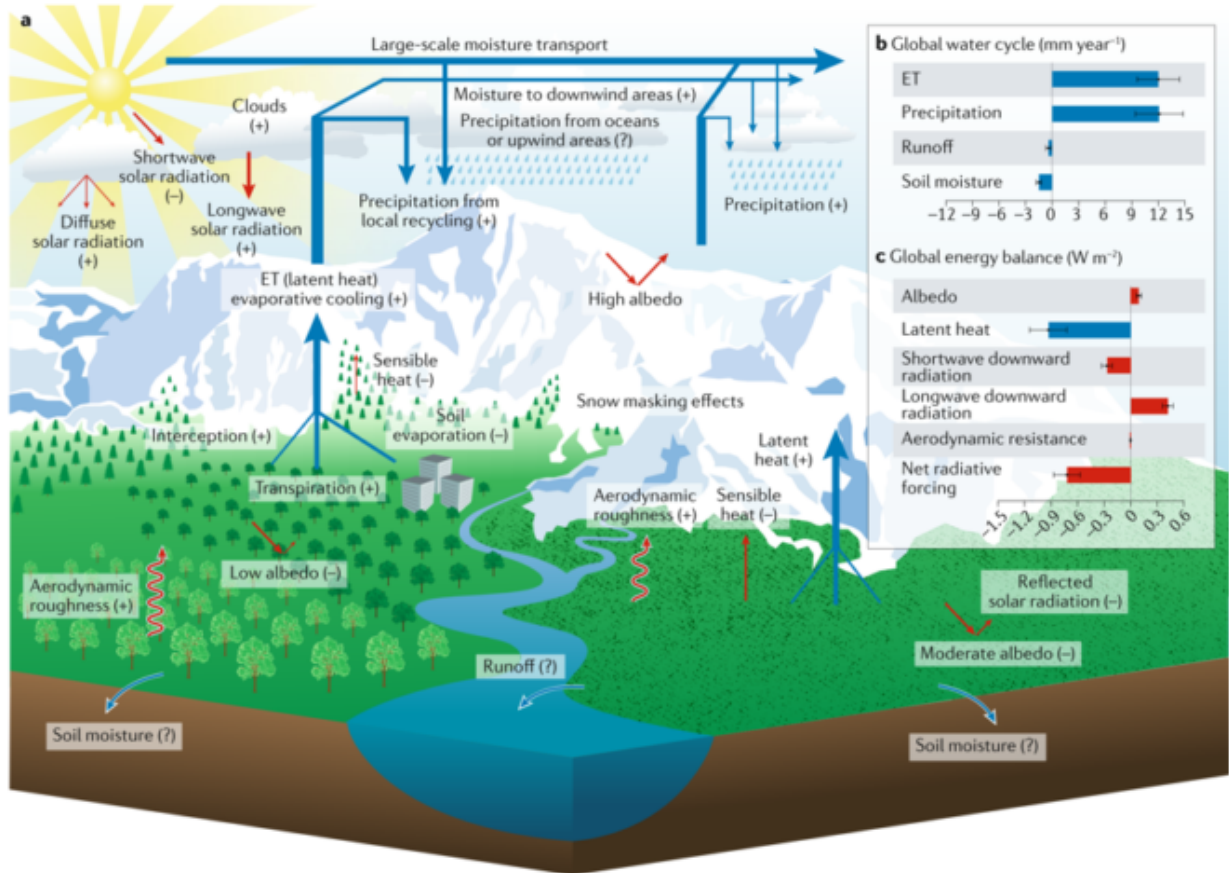
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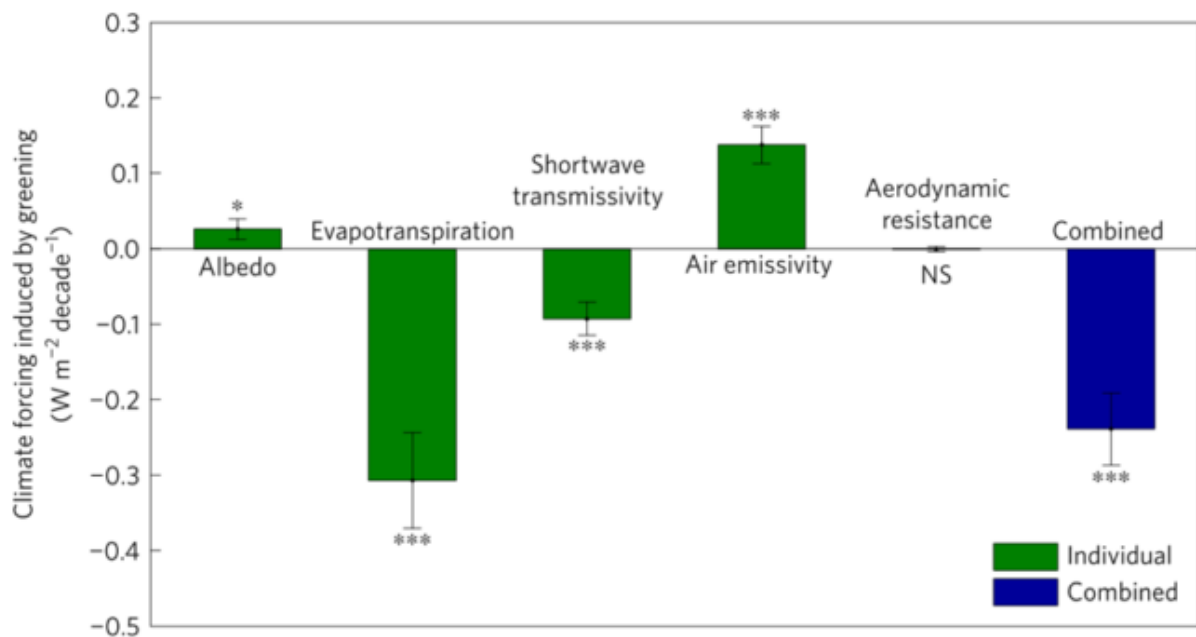
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???Piao, S., Wang, X., Park, T., Chen, C., Lian, X., He, Y., Bjerke, J. W., Chen, A., Ciais, P., Tømmervik, H., Nemani, R. R., & Myneni, R. B. (2020). Characteristics, drivers and feedbacks of global greening. *Nature Reviews Earth and Environment*, 1(1), 14–27.

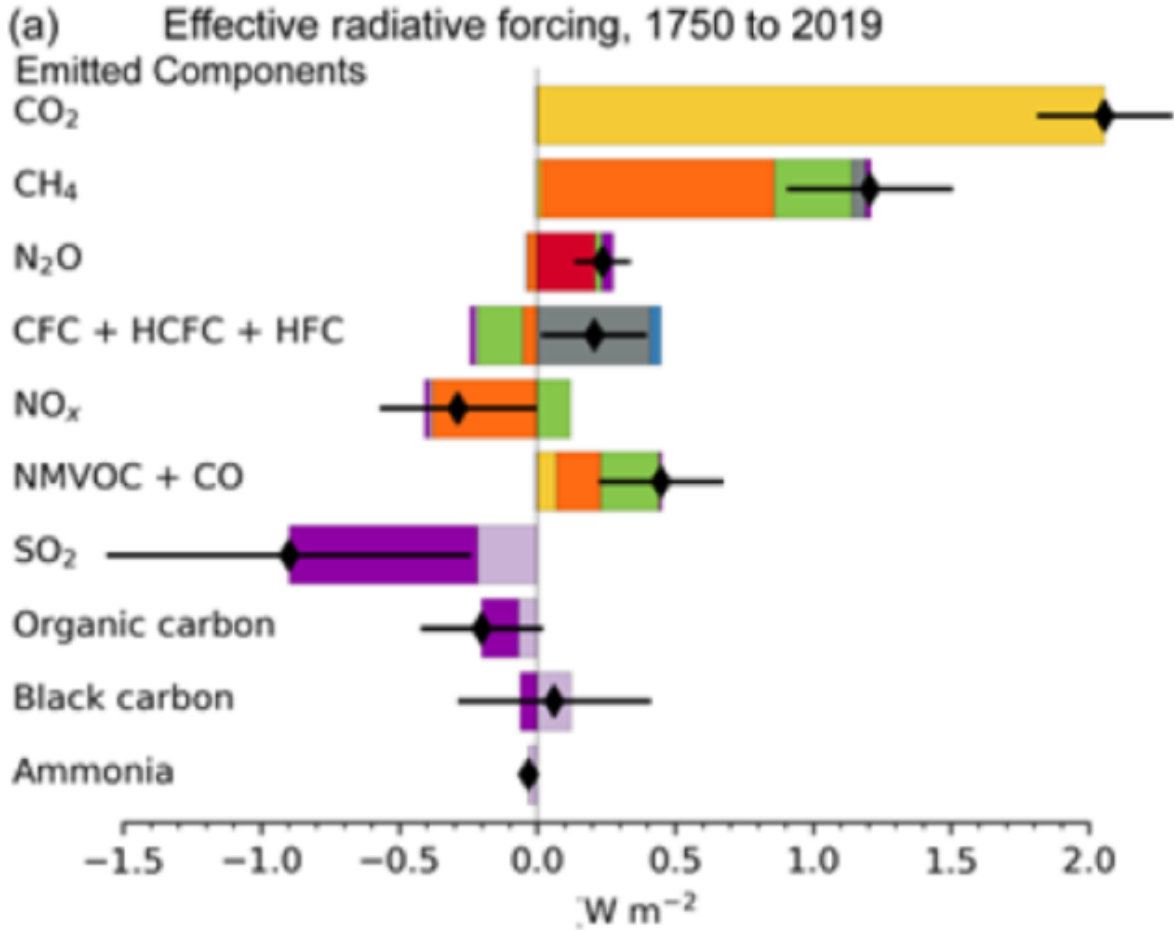
??10?????0.24W/m²?????????



???Zeng, Z., Piao, S., Li, L. Z. X., Zhou, L., Ciais, P., Wang, T., Li, Y., Lian, X., Wood, E. F., Friedlingstein, P., Mao, J., Estes, L. D., Myneni, R. B., Peng, S., Shi, X., Seneviratne, S. I., & Wang, Y. (2017). Climate mitigation from vegetation biophysical feedbacks during the past three

decades. Nature Climate Change, 7(6), 432–436.

0.24W/m²????????????40????????1W/m²????IPCC????1750????CO2????????2W/m²????
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IPCC AR6 Fig. TS.15

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Posted in ???, ????? | No Comments »

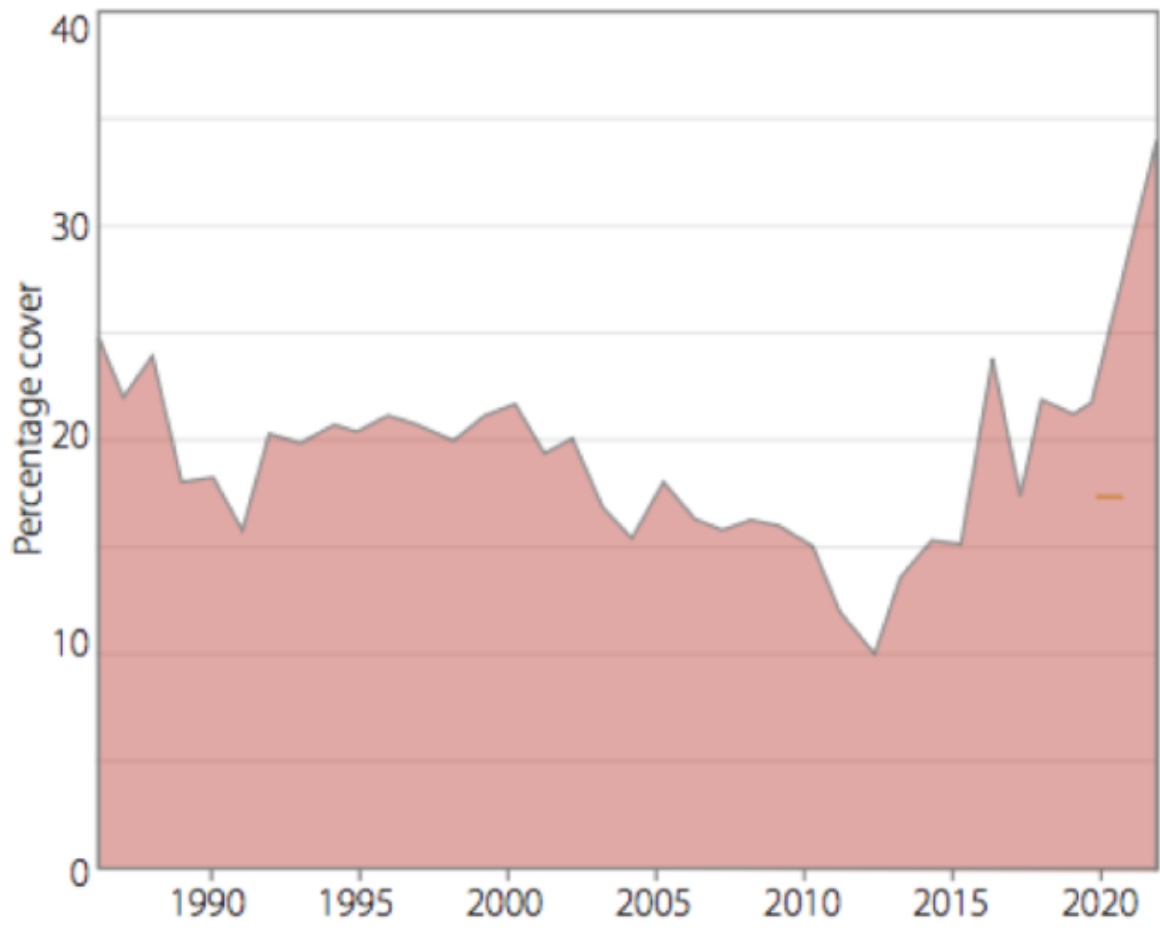
IPCC?????60????????????????????

?? ?? · Sunday, August 7th, 2022



Maerie/iStock

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2022????5%??10%????????????????????????????
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Without significant changes to the rates of disturbance and coral growth, coral cover in the central and southern regions of the GBR is likely to decline to **5–10% by 2022**. The future of the GBR therefore depends on decisive

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Great Barrier Reef is damaged beyond repair and can no longer be saved, say scientists

By Helena Horton
29 May 2017 • 1:17pm



Helena Horton, Daily Telegraph, 29 May 2017

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Posted in ???, ????? | No Comments »

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?? ? · Friday, August 5th, 2022



Zhenikeyev/iStock

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Posted in ???, ????? | No Comments »

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?? ?? · Thursday, August 4th, 2022



blew_i/iStock

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Q&A??

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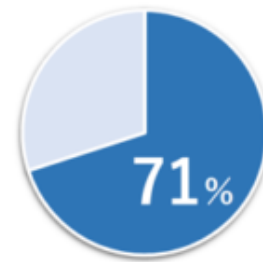
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Q18 国内市場における太陽光パネルの状況について 28
住宅用の太陽光パネルの国内市場はどうなっているのでしょうか？

**A 18 国内市場の住宅用の太陽光パネルにおいては、
 日本企業が7割のシェア占めています。**

- (一社) 太陽光発電協会によると、国内市場における太陽光パネルの日本企業のシェアは、住宅用・産業用等を含めた全体で43%である一方、住宅用では71%を占めています。
- 同協会へのヒアリングによると、日本企業のシェアが大きい理由は、日本の小さい屋根にも載せられる工夫や、保証・アフターサービスの点で、ハウスメーカーに選ばれていること等があげられます。

〔国内市場の太陽光パネル出荷量(住宅用)に占める日本企業のシェア (2021年度)〕



- ✓小さい屋根に対応
- ✓保証・アフターサービス業務

※直近実績 2019年度：76.1%
 2020年度：70.8%
 2021年度：71.3%

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Q19 人権問題について 29
太陽光パネルの生産は中国に集中しており、新疆ウイグル自治区における人権問題が懸念されていますが社会的な問題はないのでしょうか？

**A 19 住宅用の太陽光パネルのシェアが多い国内メーカーのヒアリングによれば、
 当該地区の製品を取り扱っている事実はないとの回答を得ています。
 引き続き、国や業界団体等と連携しながら、SDGsを尊重した事業活動を
 推進していきます。**

- 都は、ヒアリング等を通じ、国内太陽光パネルメーカー等の状況把握に努めています。
 また、業界団体である太陽光発電協会では「持続可能な社会の実現に向けた行動指針」を掲げ、会員企業、太陽光発電産業に係る事業者に人権の尊重を順守した事業活動を行うこと等を推進しています。
 都はこうした関係団体と連携を図りながら、国が策定する「サプライチェーンにおける人権尊重のためのガイドライン」も踏まえ、SDGsを尊重した事業活動を推進していきます。

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

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?? ?? · Wednesday, August 3rd, 2022



HowardPerry/iStock

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Posted in ???, ????? | No Comments »

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?? ?? · Monday, August 1st, 2022



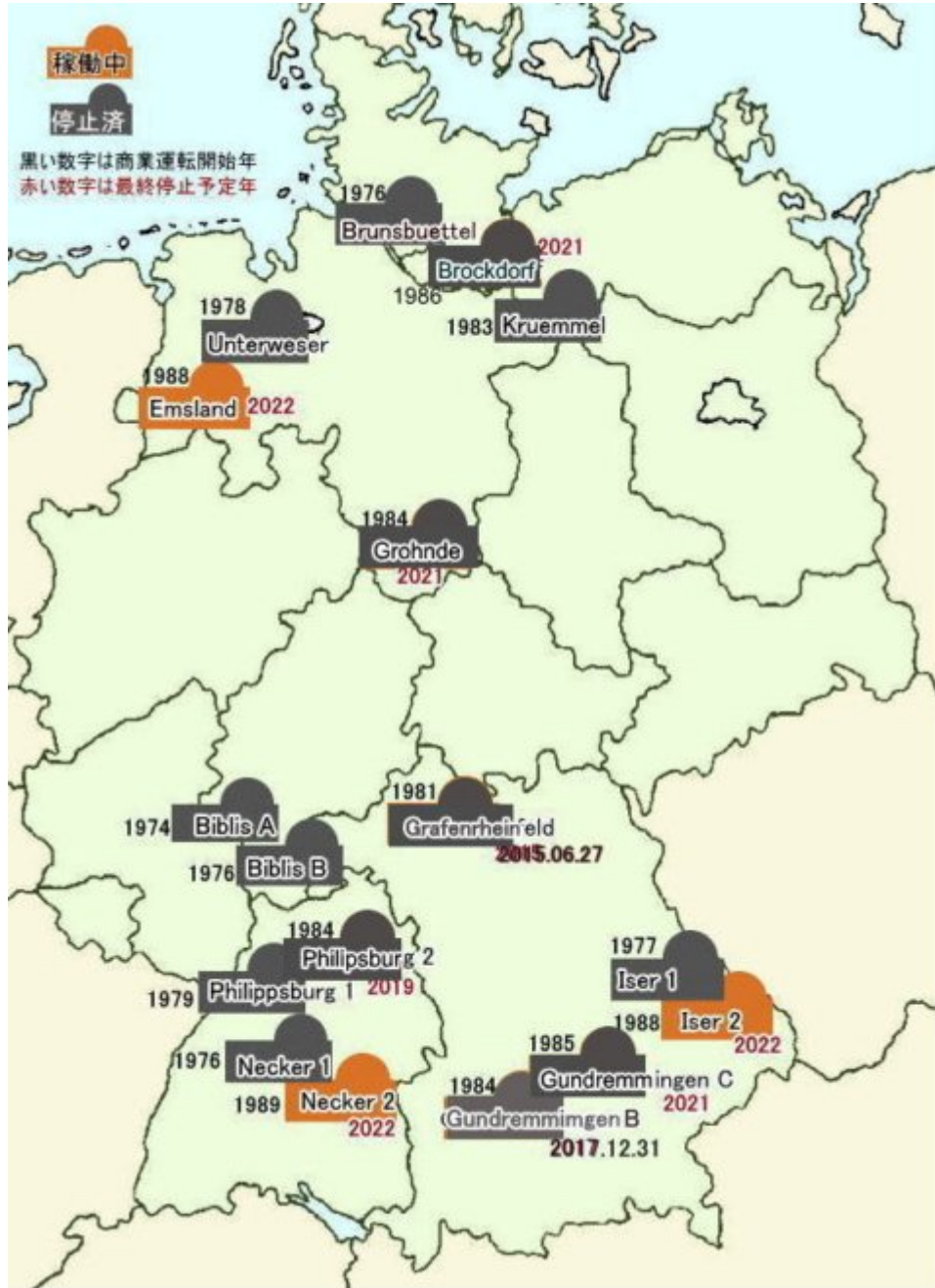
Yamko/iStock

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

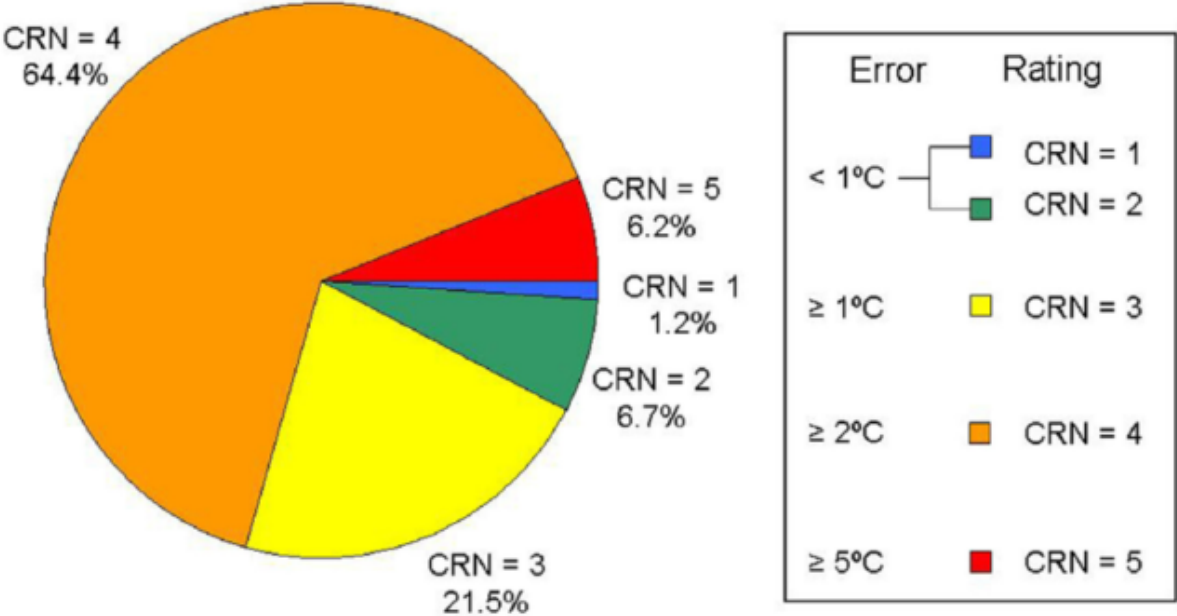
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?? ?? · Monday, August 1st, 2022

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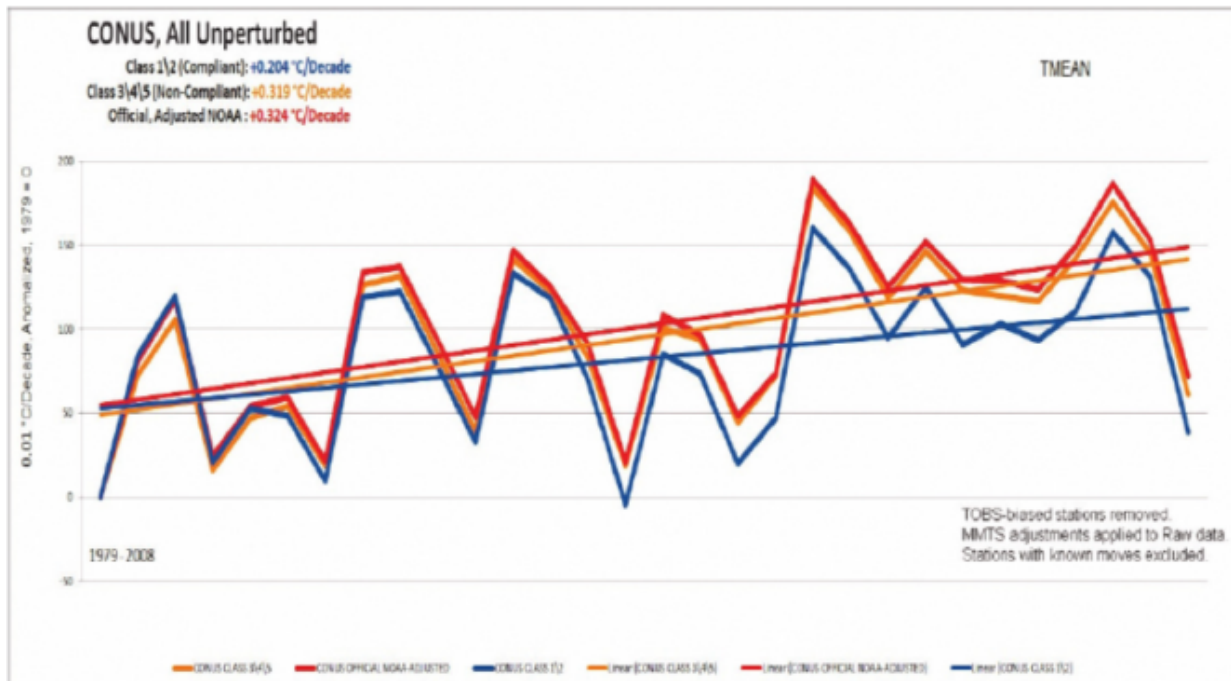


Figure 8: Top: placement of CRS in parking lot at University of Arizona Atmospheric Sciences Department on July 21, 2007. Lower left: detail at ground level of CRS placement on July 21, 2007. Lower right: detail at ground level of CRS after removal on November 23, 2007. Source: Warren Meyer, Bob Thompson.

????????NOAA????????10????0.324????????????????????????????

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????CRN=1,2 ?????????????10????0.204????????????????????6???????



????????????????????????(US Climate Reference Network)????????????????????????2005??



Posted in ???, ????? | No Comments »

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?? ?? · Wednesday, July 27th, 2022



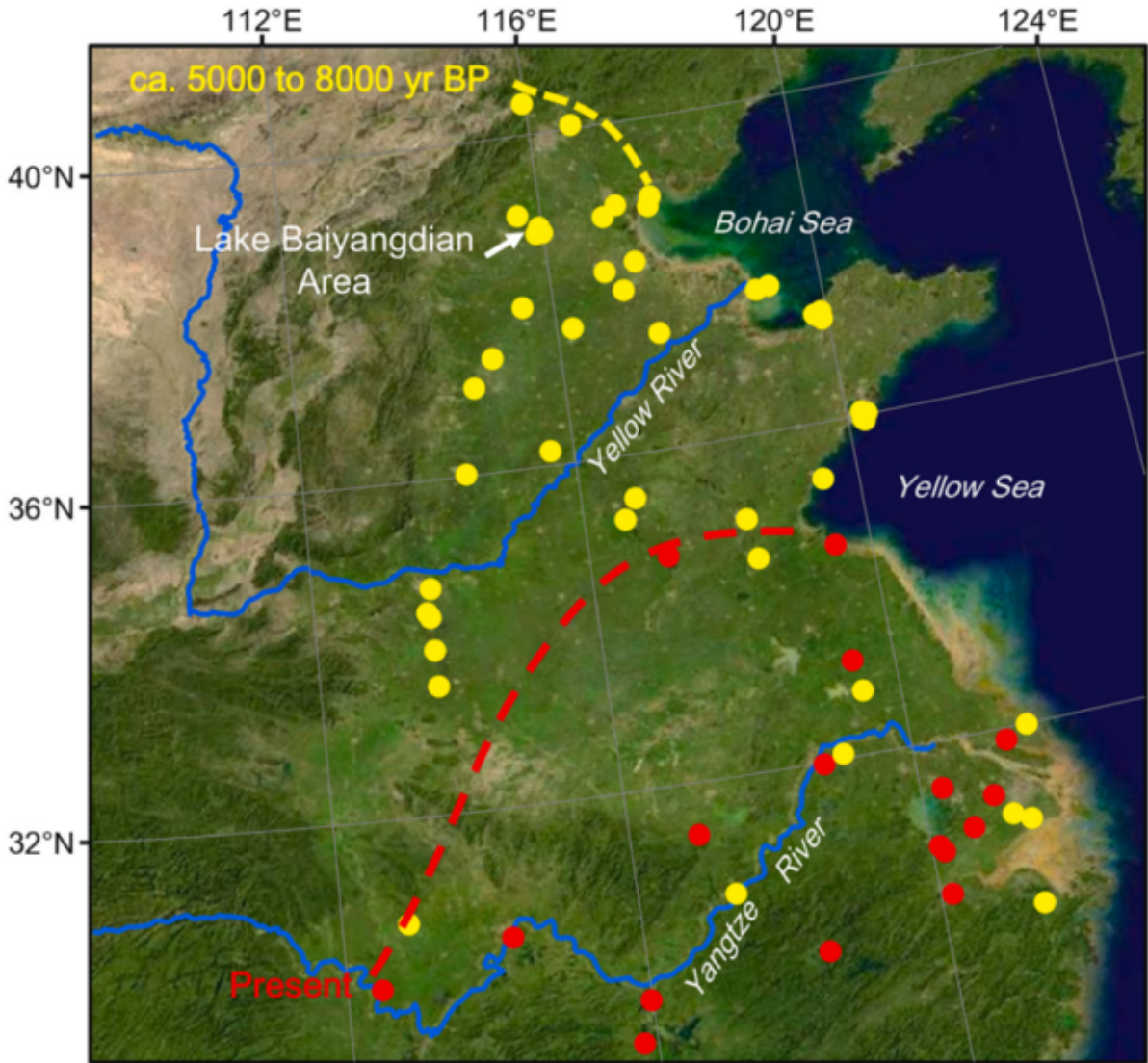
Yuriy_Kulik/iStock

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Posted in ???, ????? | No Comments »