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

????1.5°C?? ???? ???????????10?2??10??

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1.5?????	1.5????????????	1.5????????????
46?????	46????????????	46????????????
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?1??1.5????????????????????????????2030?46????????2050????????1.5??
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?1.5????????????ASEAN????1.5????????

?2????????2000????????4????

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

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

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

?? ?? · Thursday, September 29th, 2022

2050????????????2030?CO2??ESG????????
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xijian/iStock

ESG?E??CO2????????????????????????????????
??CO2????????????
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??ESGS?S??SDGs????????????????????????????????????
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??2021?10????????????????G7????????????????????????????
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??2012??2010??2019??10??????????????22
%????????25%????????????2022??

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??????2021?10?22??A?????agricultural, solar and garment
sectors??2021.11.04????????

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?SDGs????????????????????????????????

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

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?? ?? · Monday, September 26th, 2022

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small smiles/iStock

????2030????????????4??1????????????56?????1?????100????????????48??
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Posted in ???, ????? | No Comments »

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



halbergman/iStock

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8?16??

??3.5????????????Build Back
 Better(?????)????????????????????????????????????10????7370????????4370????????????????????????3690
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??2030????????2005????????????40????????????
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Posted in ??????????, ??, ?? | No Comments »

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?? ?? · Sunday, September 18th, 2022

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

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?? ? · Friday, September 16th, 2022



ayhan turan/iStock

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1991????????????????????????????????????(???)????????1970?80????????????????80????????
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12 CO2

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FIT

13 CO2 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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??????Fertilizers Europe?????????EU????????????????????????????????????

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

??40%????
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??2.5????????????
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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????????????????

????????????????????????????????????13????????????
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????????????10????????????BNP????????????UBS ????????

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350????????ESG????????????????????UBS????????????

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audioundwerbung/iStock

??6????????????????????LNG????????????????
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8?23??EU?????
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??2025????????????????

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

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????CO2??2030????1000?kW????????????
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????9?5????????????????????????????????3????????2????4????????????????????????????
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??EU????????????????
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Posted in ???, ?? | [No Comments](#) »

????????????14????????

?? ? · Saturday, September 3rd, 2022



ayhan turan/iStock

????5??3???????

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



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

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

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ppm??

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??2?IPCC????????????????
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??3????????????????????????????????????
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??3????????????????
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????????????????????????????HP????????????????????????10??1950?60????????1993??
????30??
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??4????CO2????????????
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??5????CO2????????????
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NHK??
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6
CO2 1850

CO2 100
mm

CO2
CO2

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7
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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

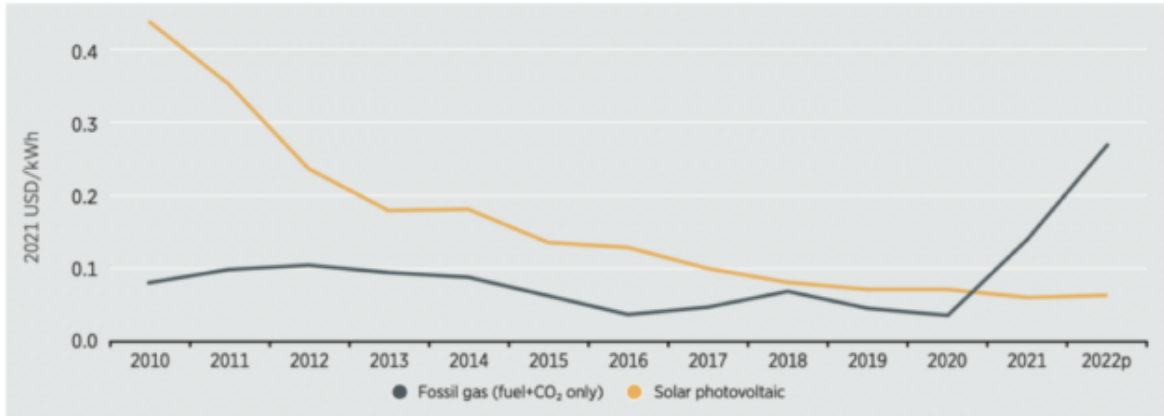
2022 13 IRENA 2021

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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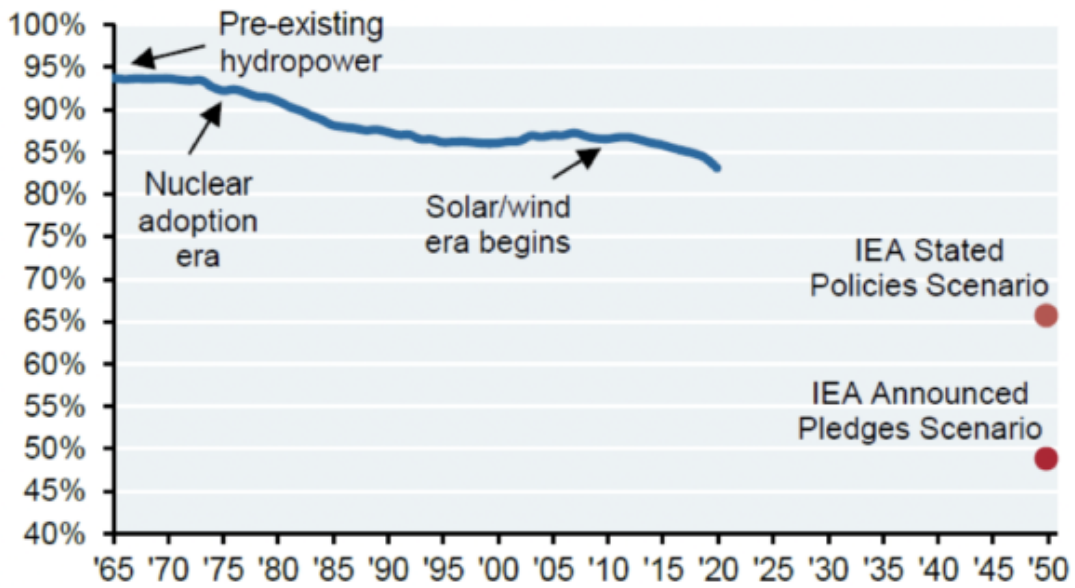
?2050??????

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

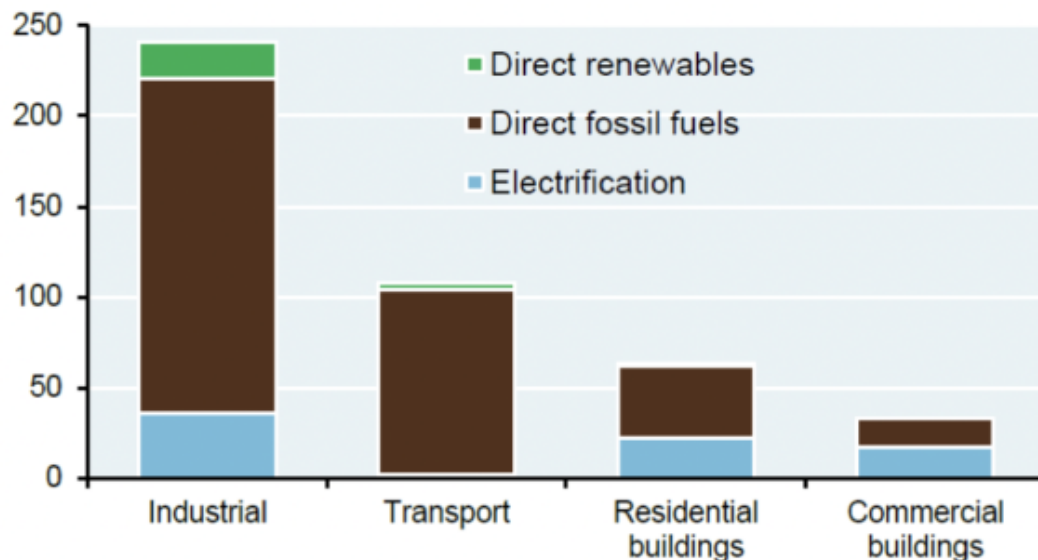
LCOE??i)???????????????????????????? ii)????????????????
 iii)??

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Low levels of electrification in global industry and transport

Quadrillion BTUs of final energy consumed by sector

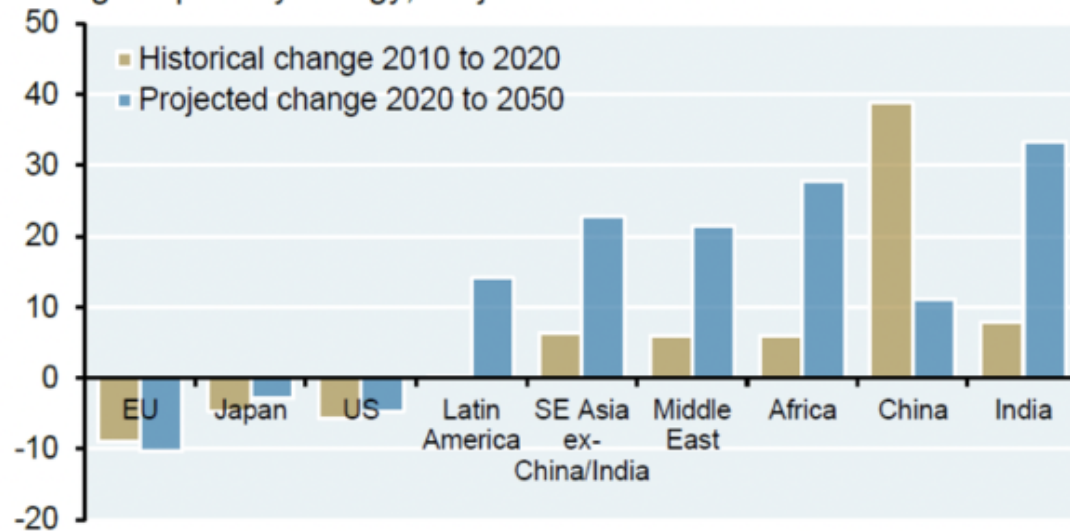


Source: Energy Information Administration, JPMAM. 2021.

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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

Change in primary energy, exajoules



Source: International Energy Agency Stated Policies Scenario. 2021.

????????????????CO₂??
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????????????????IRENA????????LCOE????????LCOE????????????????????????????????????

3. LCOE??FCOE?

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

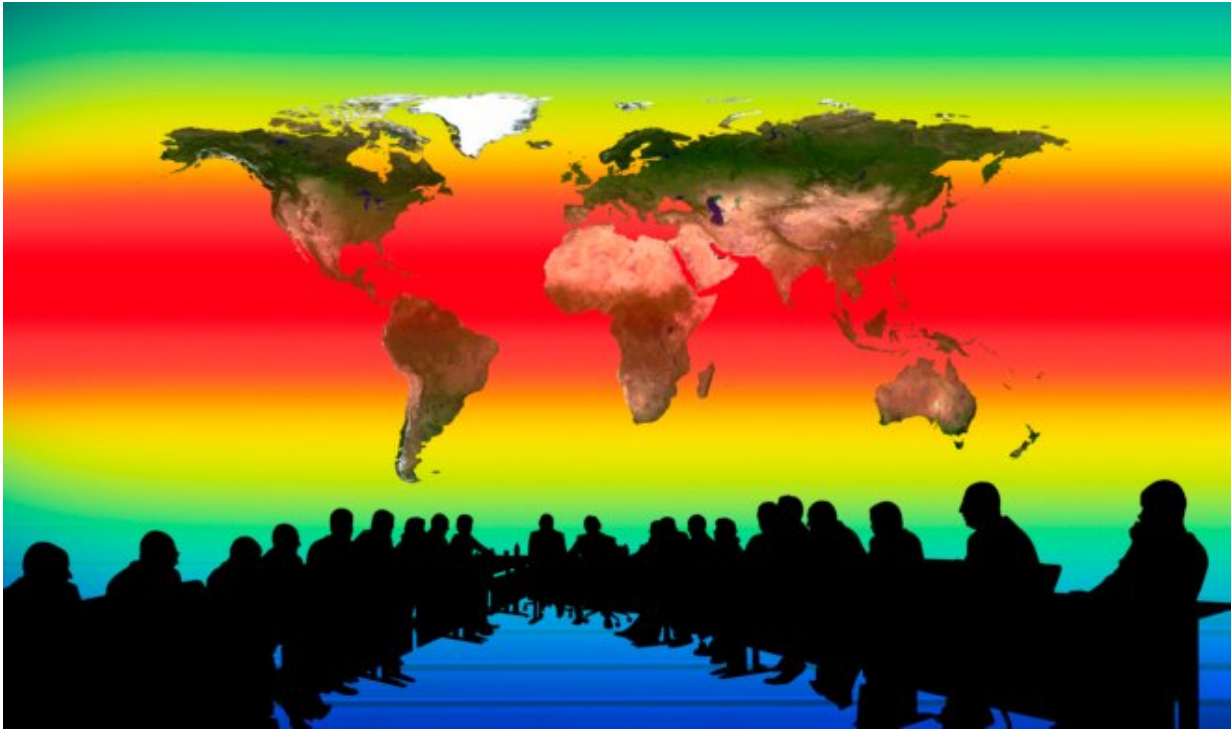
LCOE??
??????????????5??10????????????????????2050????????????????????????????????

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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??CO₂????????????????
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??????? 8? Reuters?

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

????????????????????????????1.5????????????????????????NDC????????????????????5????????
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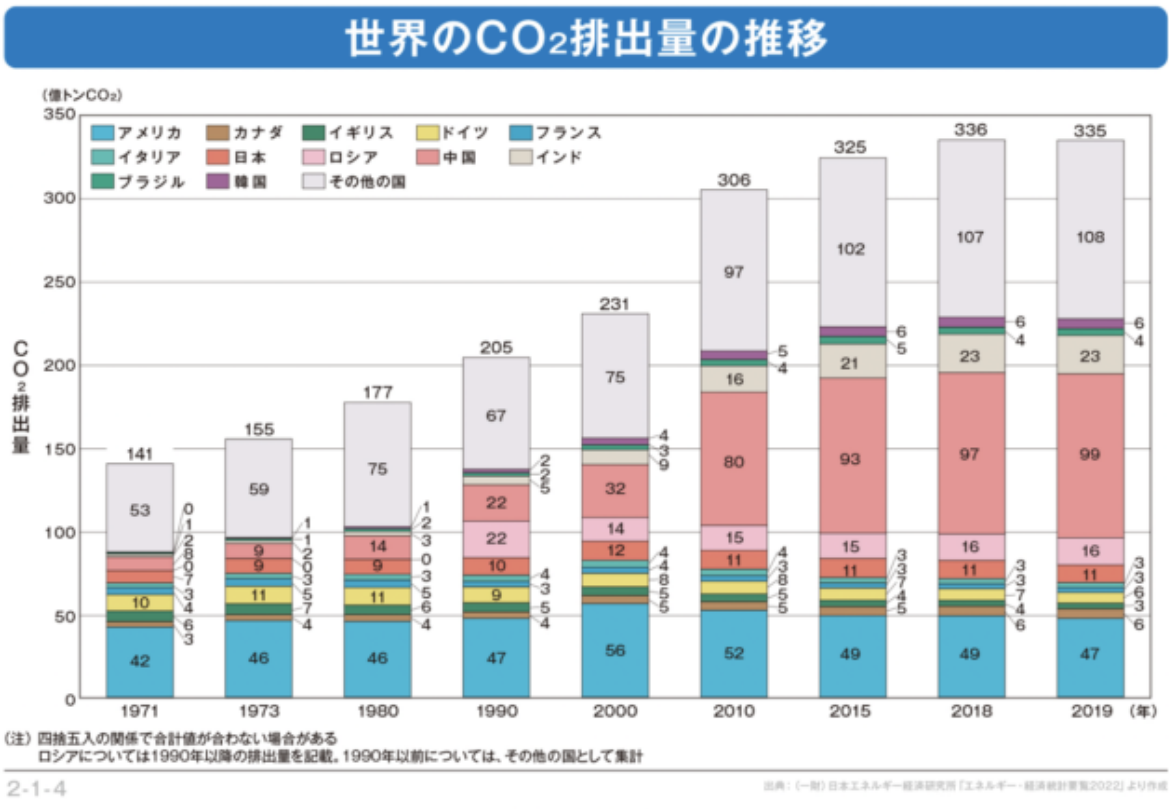
????????????????????????????CO₂??
????CO₂????????????????????

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

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CO₂????????????????????????????????

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



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CO₂????COP????CH₄????CH₄????CO₂80????20????GWP-20????C
H₄????2030????30?????????

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????2020????1000????

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

2?????COP27??
????????????????????????????????????

Posted in ??, ???? | No Comments »

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

?? ?? · Sunday, August 28th, 2022



marrio31/iStock

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

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

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- ?????????????????????????????
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?6??26????

©Westinghouse Electric Corporation.

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

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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 »



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?? ?? · Friday, August 26th, 2022

GX

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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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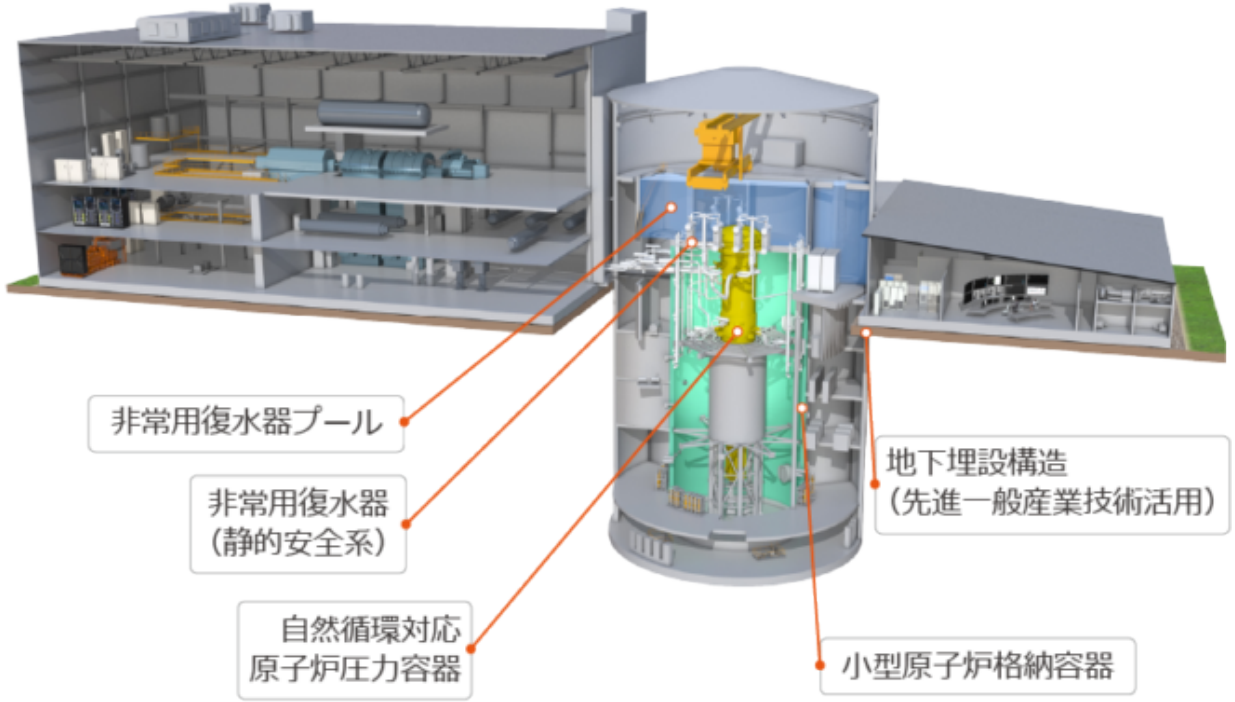
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??APWR????????????????
??ABWR????????????

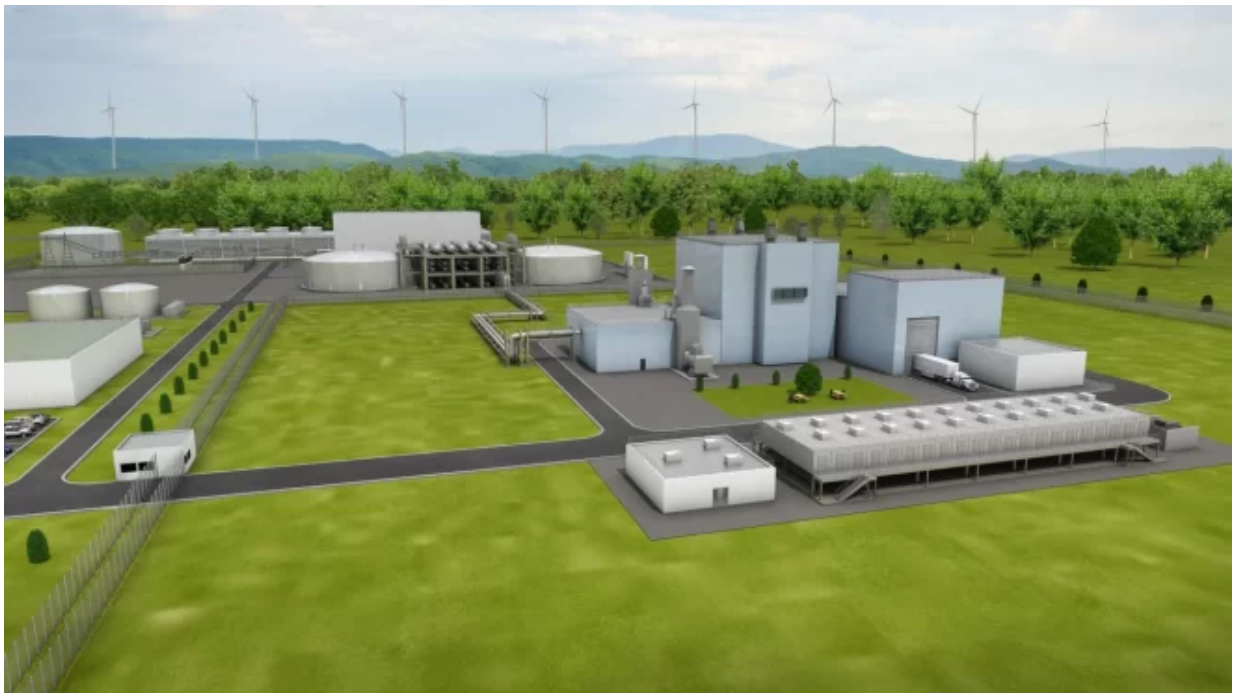
SMR?????7?kW??

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BWRX-300??????????

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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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????????IEA????????????????????????????????????2040????????6????????????????????
??3????????4?3????????

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

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6??2022????3????
????EU????????????

??2????????????????????
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????????????????????EV????????????????????????????????????

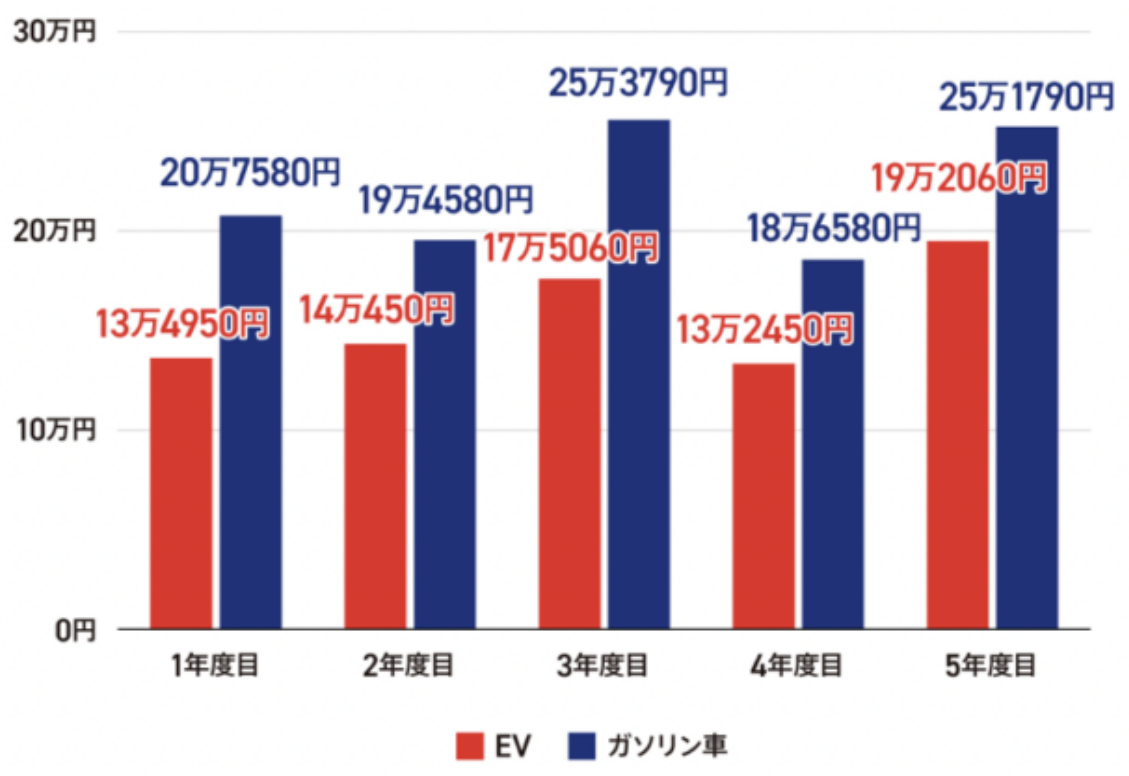
Posted in ??????????, ??? | No Comments »

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

?? ? · Thursday, August 25th, 2022

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

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

????????CO₂????????EV????????

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

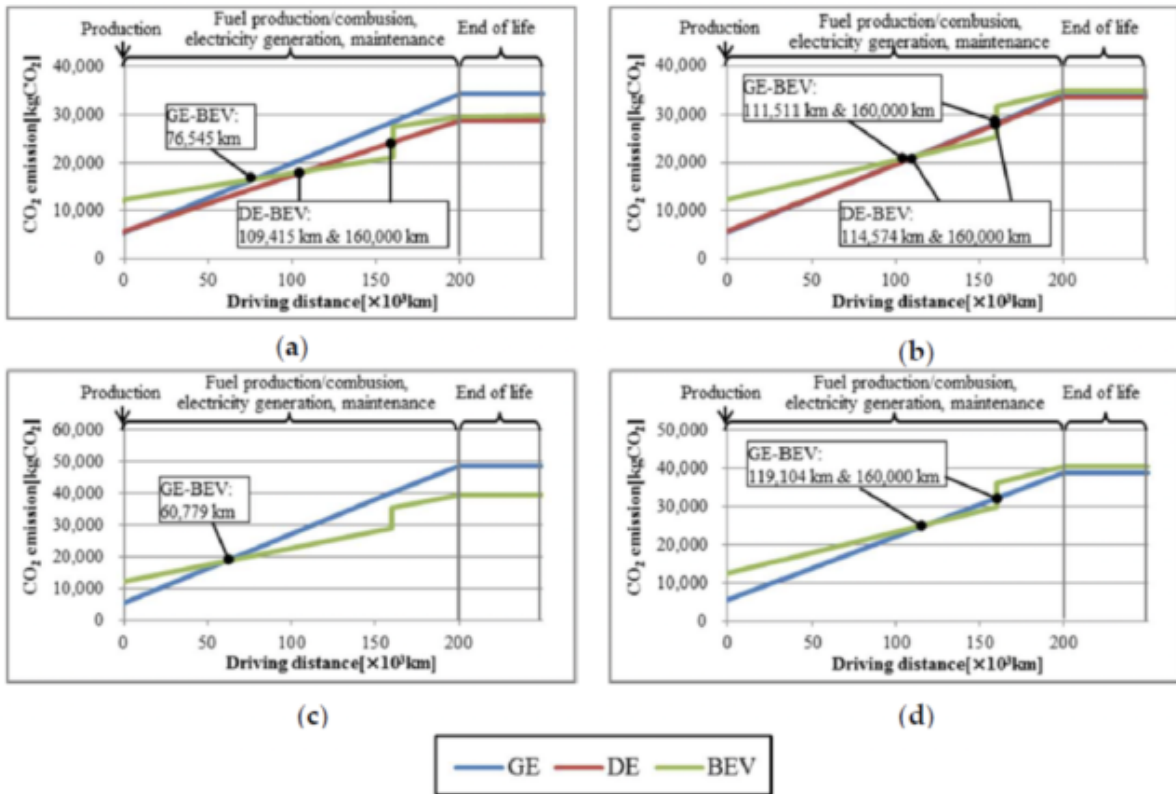
???EV????????CO₂????????ICV????????EV????????

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 emissions during life cycle for BEV, CO₂ emissions during life cycle for BEV, CO₂ emissions during life cycle for BEV

(a) EU: DE: 109,415 km; BEV: 109,415 km; BEV: 160,000 km; BEV: 160,000 km; BEV: 160,000 km

(b) Japan: BEV: 111,511 km; GE: 111,511 km; BEV: 160,000 km; BEV: 160,000 km; BEV: 160,000 km

(c) US: GE: 60,779 km; BEV: 60,779 km; GE: 160,000 km; GE: 160,000 km; GE: 160,000 km

CO₂ emissions during life cycle for BEV, CO₂ emissions during life cycle for BEV, CO₂ emissions during life cycle for BEV

CO₂ emissions during life cycle for BEV, CO₂ emissions during life cycle for BEV, CO₂ emissions during life cycle for BEV

CO₂ emissions during life cycle for BEV, CO₂ emissions during life cycle for BEV, CO₂ emissions during life cycle for BEV

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Posted in [Global Energy Policy Research | GEPR](#) | 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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?????SEC?????ESG??

?SEC?ESG?????????????????



?????????SEC?25?ESG??
?????????????ESG?????????????ESG????????????????????????????



ESG??SEC?????????????

ESG??SDGs?????????
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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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?? ?? · Tuesday, August 9th, 2022

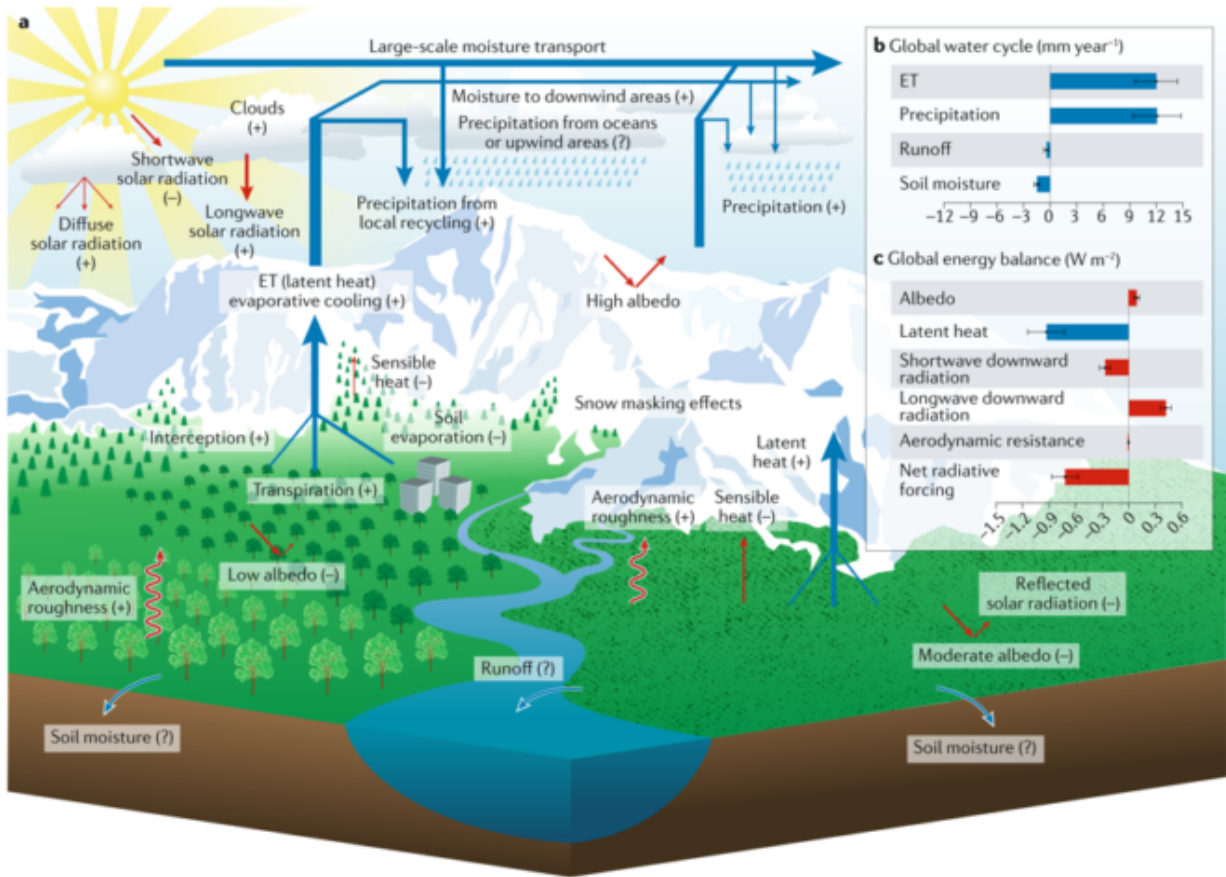


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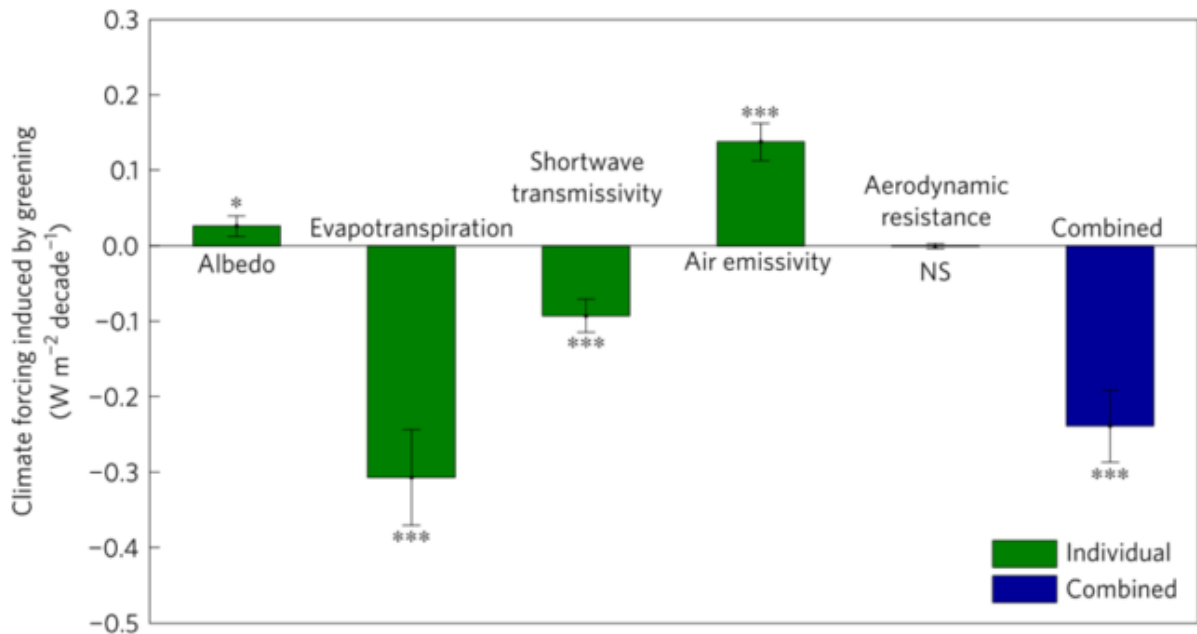
???????LAI???30???8% ????CO2???

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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.

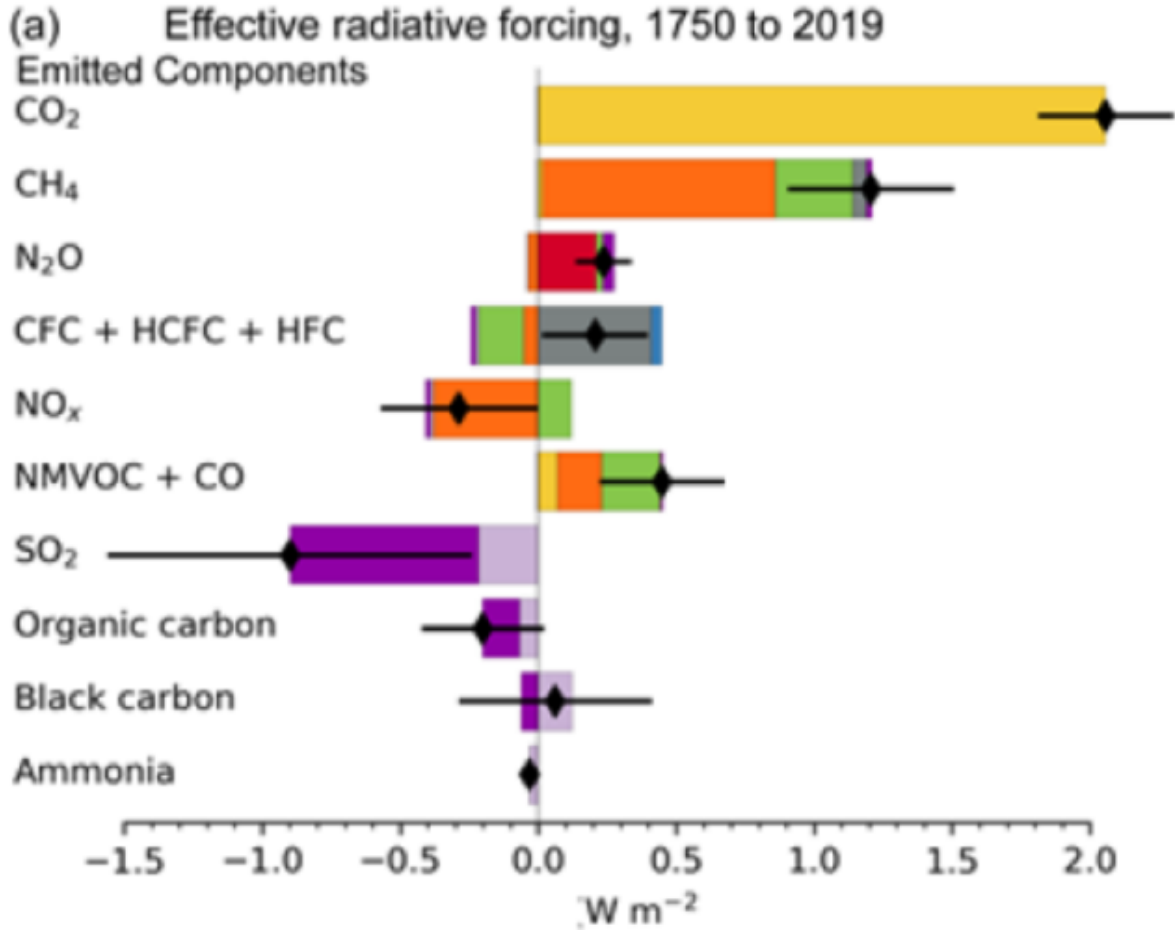
??10????0.24W/m²???????



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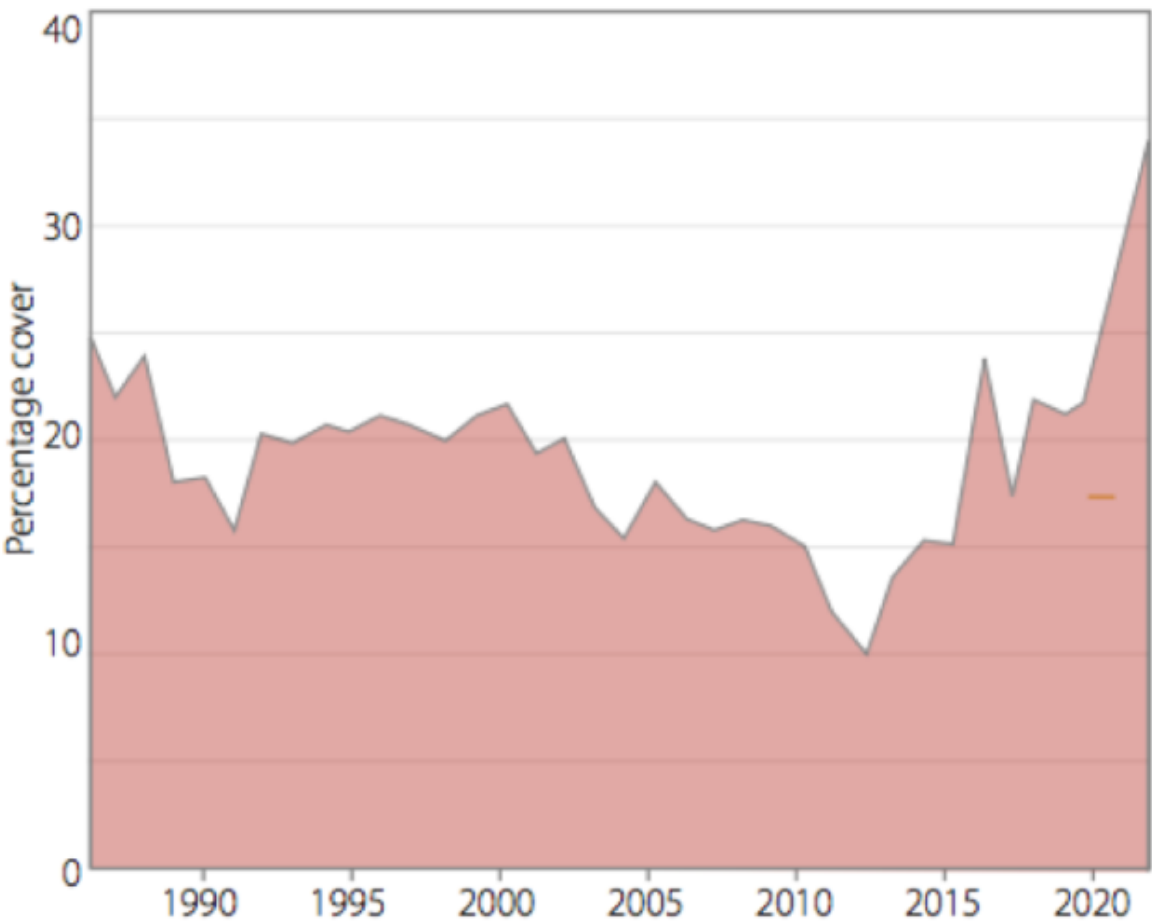
IPCC?????60????????????????????

?? ?? · 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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?? ? · Friday, August 5th, 2022



blew_i/iStock

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HowardPerry/iStock

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