



allanswart/iStock

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

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?? ?? · Tuesday, October 4th, 2022



Daniele Mezzadri/iStock

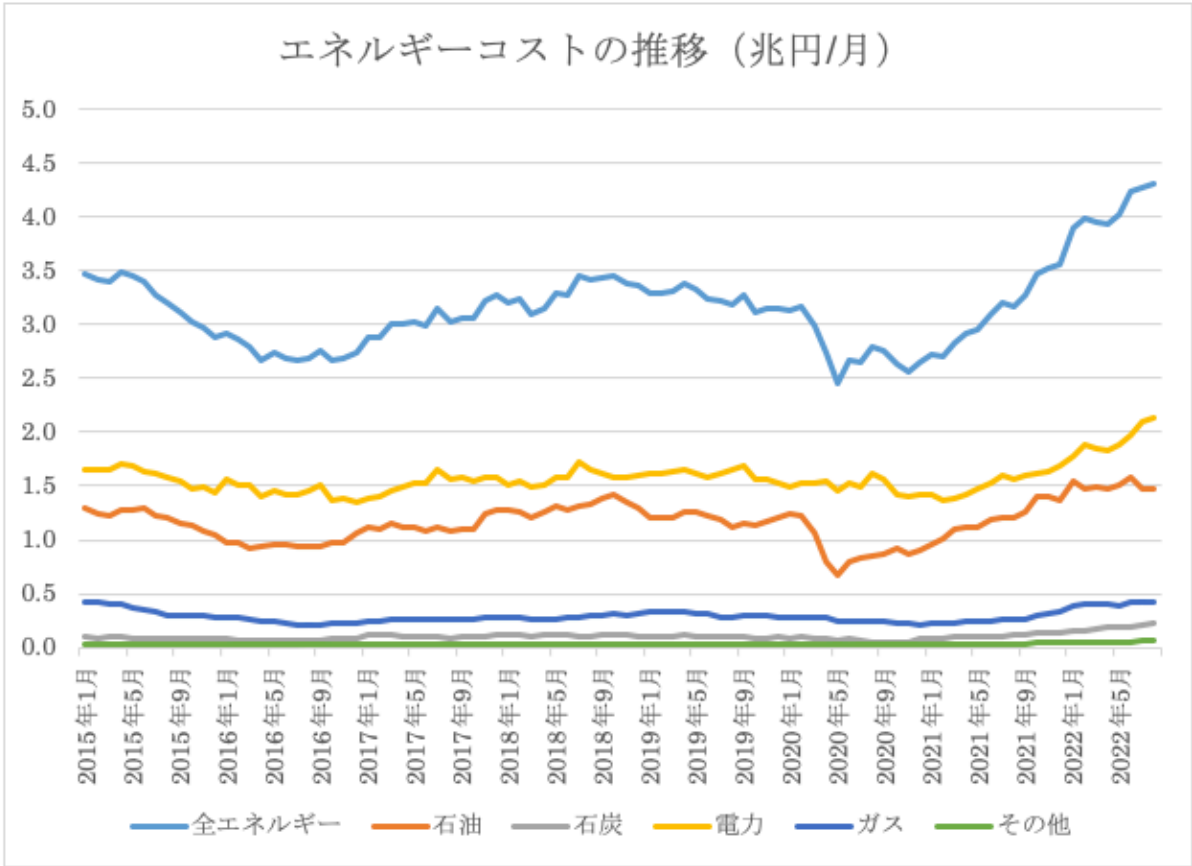
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Posted in ??????????, ??? | No Comments »

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?? ?? · Monday, October 3rd, 2022



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

??????SRZ1200????

?? ?? · Sunday, October 2nd, 2022

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

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

?? ?? · Sunday, October 2nd, 2022



???NHK??
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?2020??CO₂????????????

??28.4??14.7??6.9??4.7??3.2??2.1??1.8??3.7??

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2021??8??2030????????????????????????????2030????????1kW
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small smiles/iStock

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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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CO2

12 CO2

7 10 15 7 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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herraez/iStock

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Posted in ???, ?? | No Comments »

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

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

ESG??
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LumerB/iStock

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

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

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ESG

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8?24????????????????????WV????????????????ESG????????????????????

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??12????????53????????????????
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Posted in ???, ?? | [No Comments](#) »

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?? ??? ?? · Friday, September 9th, 2022

????????SPD????????????????????8?22????????2025????

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????CO2??2030????1000?kW????????????
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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??



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CO2 CO2 150 ppm

1 30 0.2 0.3

2 IPCC

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HP 10 1950 60 1993 30

4 CO2

1000

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5 CO2

NHK

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CO2 CO2

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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

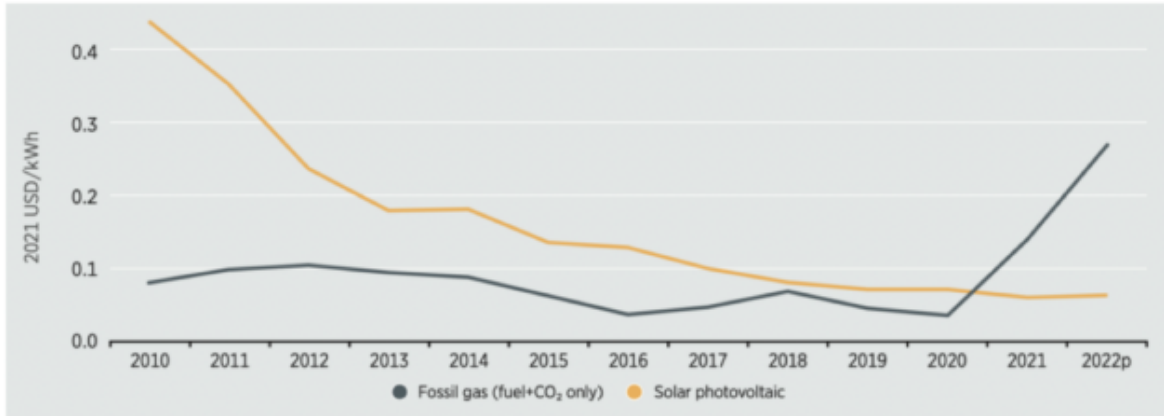
IRENA 2021

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

IRENA

- 2021 IRENA 163GW LCOE G20
- IRENA
- IRENA

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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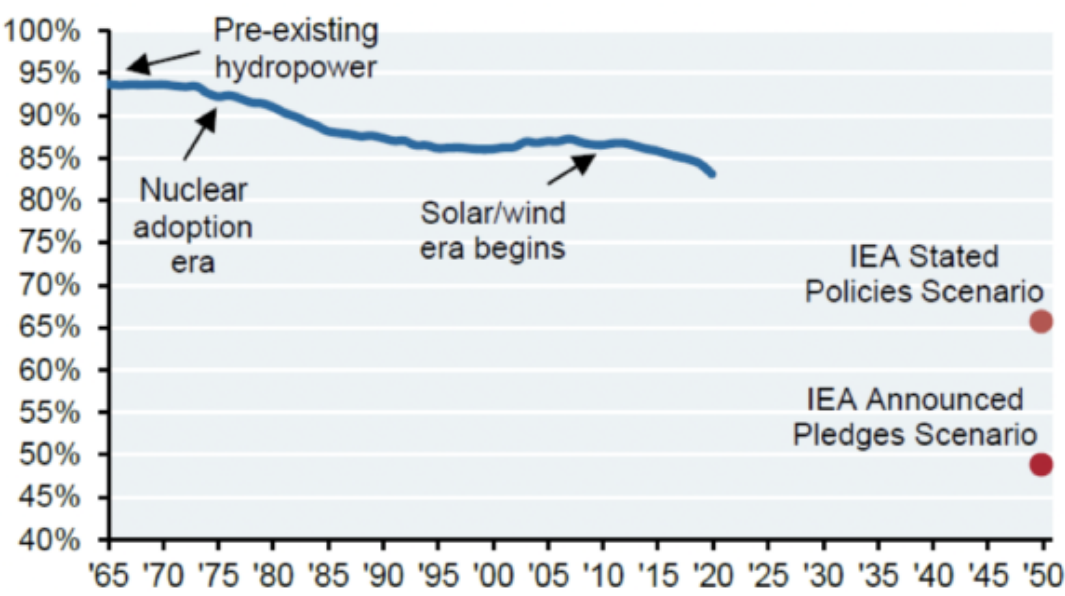
?2050??????

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

??10????????????????????????????
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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????????????
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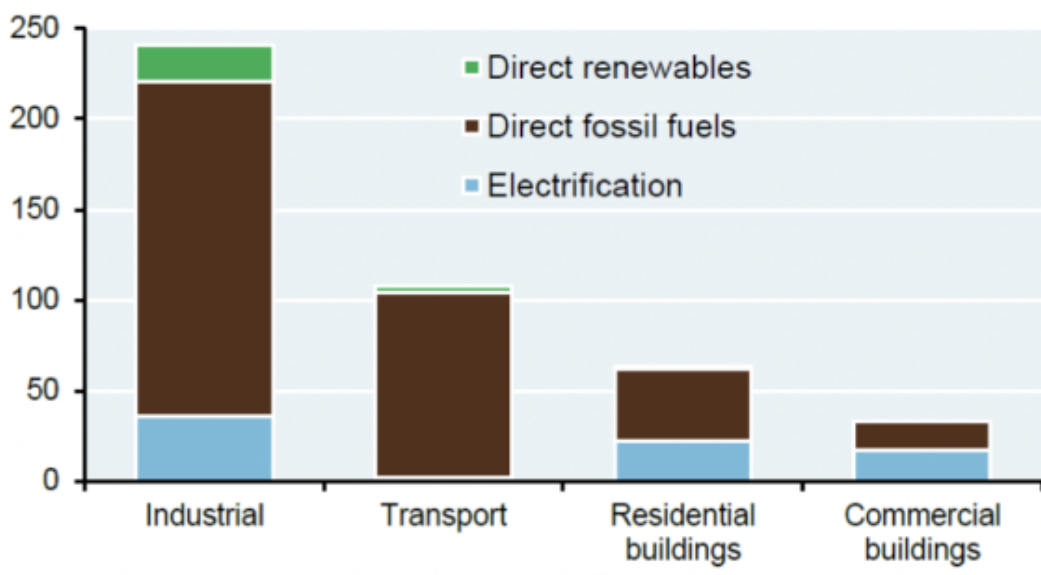
LCOE??i)???????????????????????????? ii)????????????????
iii)??

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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.

??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????

©Westinghouse Electric Corporation.

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

ABWR APWR ATMEA

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

ABWR APWR ATMEA

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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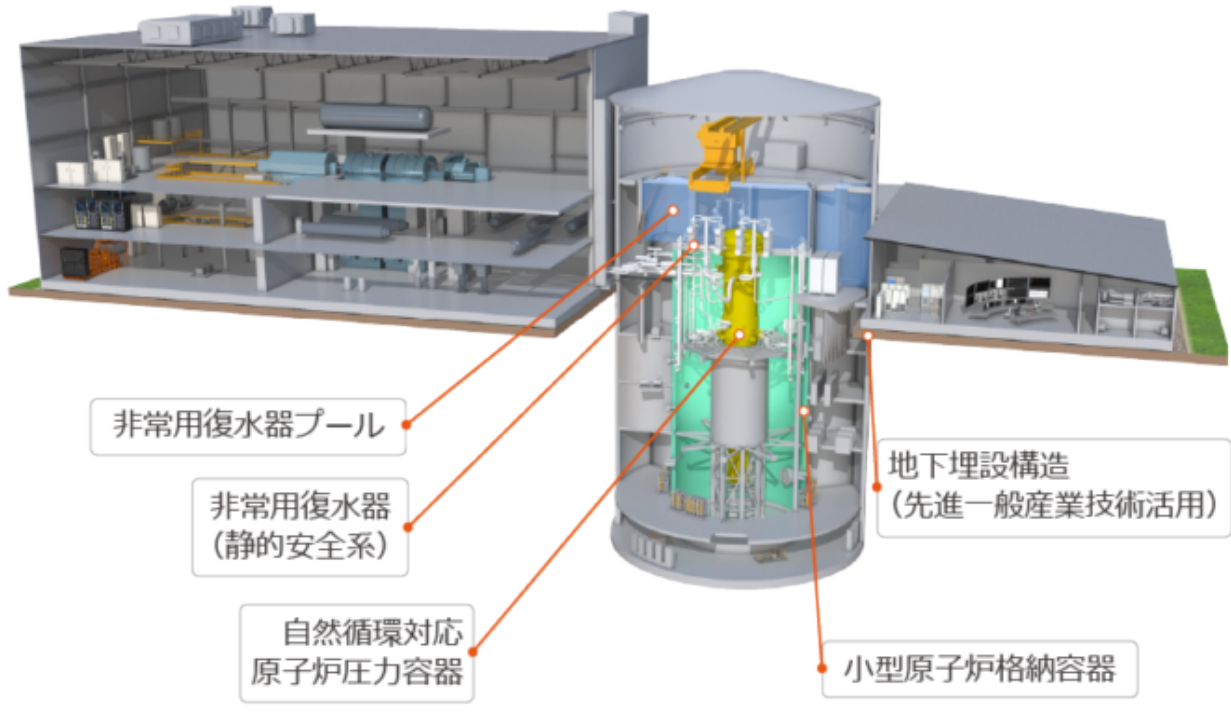
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??APWR????????????????????3????
??ABWR????????????

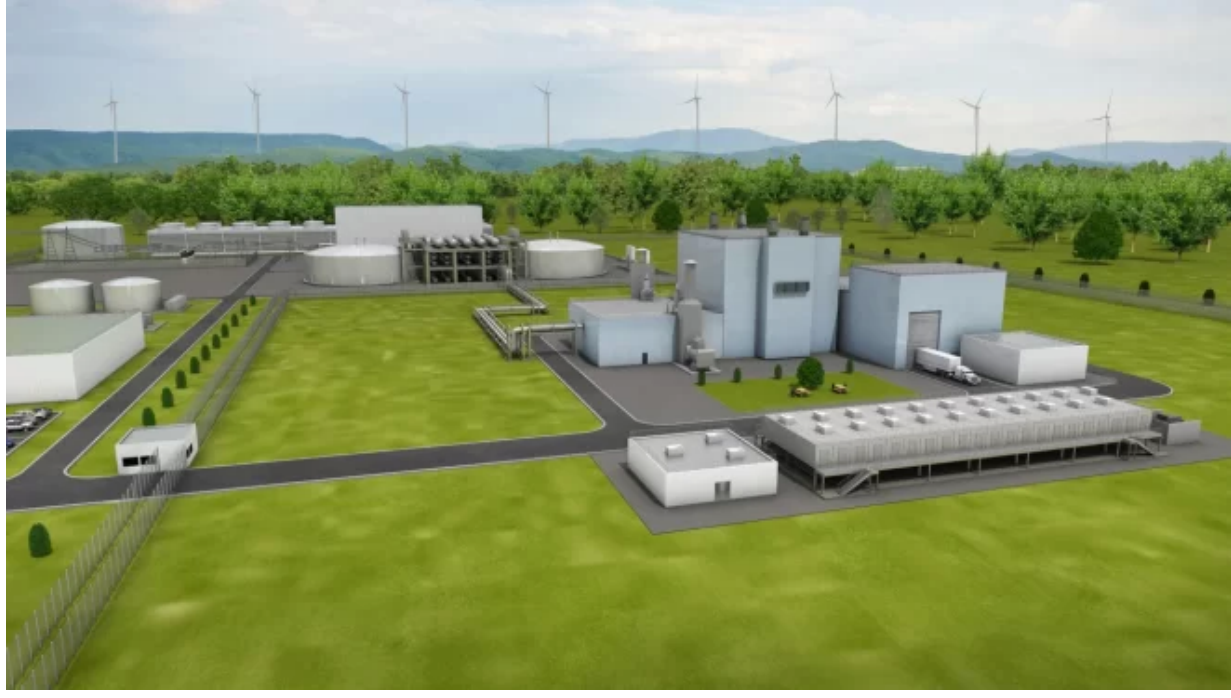
SMR?????7?kW??

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

??EV????????????????CO₂????????????6????12.5?km????????????????????????
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6??2022????3????????
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Posted in ??????????, ??? | No Comments »

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

?? ? · Thursday, August 25th, 2022

??Wedge
Online??

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

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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?????????3??120?????1.65????????????????

????????7??2.7?????372????????????30?????????????
??10?1????????????????????????????????????
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??1kWh????2.419?????????33????????????????????????????
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Welcome to Japan!

“Welcome to Japan!”

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Posted in ???, ?? | No Comments »

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

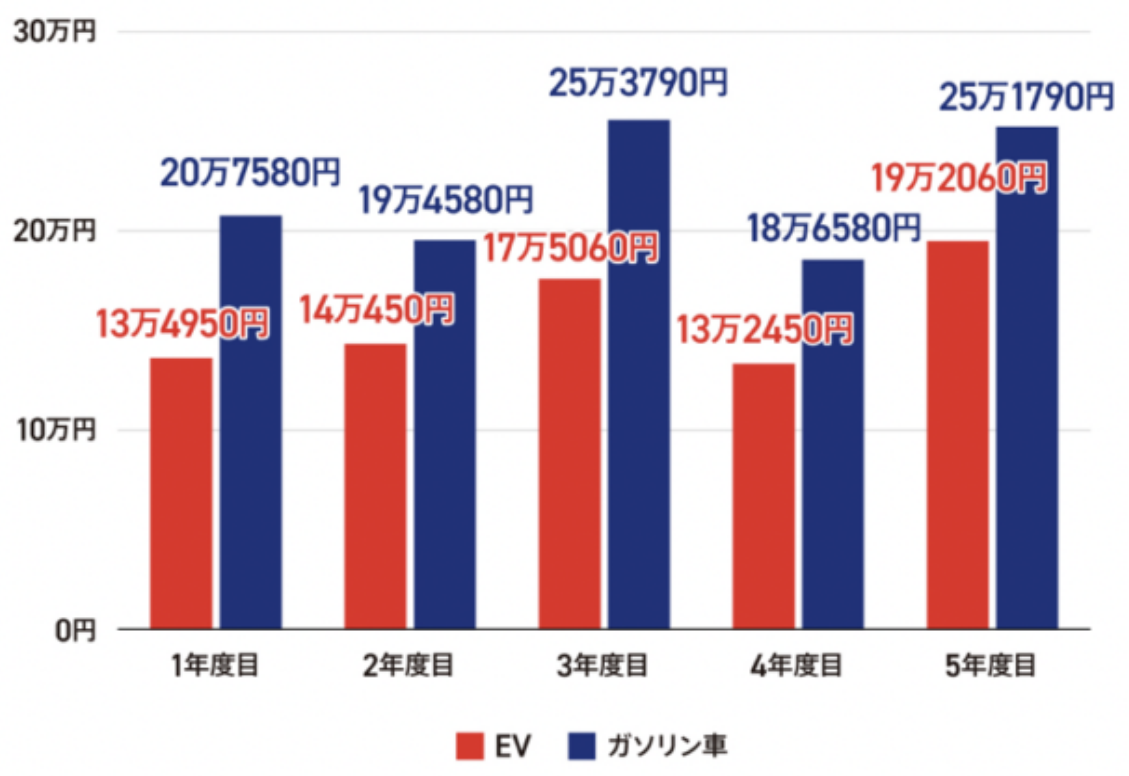
?? ?? · Tuesday, August 23rd, 2022



deepblue4you/iStock

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

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



?1 EV?????????????
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 ?CO₂????????

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EV??
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 ??125,000km????????13,500km????????EV????????9????????60,000km????????
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???2019

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

ESG??????????

?? ?? · Sunday, August 21st, 2022



Pict Rider/iStock

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[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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ESG??SEC????????????????
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?SDGs????????????????????

Posted in ????, ?? | No Comments »

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?? ? · Saturday, August 20th, 2022

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Posted in ???, ????? | No Comments »

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?? ?? · Thursday, August 18th, 2022



artJazz/iStock

2021?8??2030??LCOE?Levelize
d cost of electricity??

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???2030?????26.1????????????????????

2030年の電源別発電コスト試算結果

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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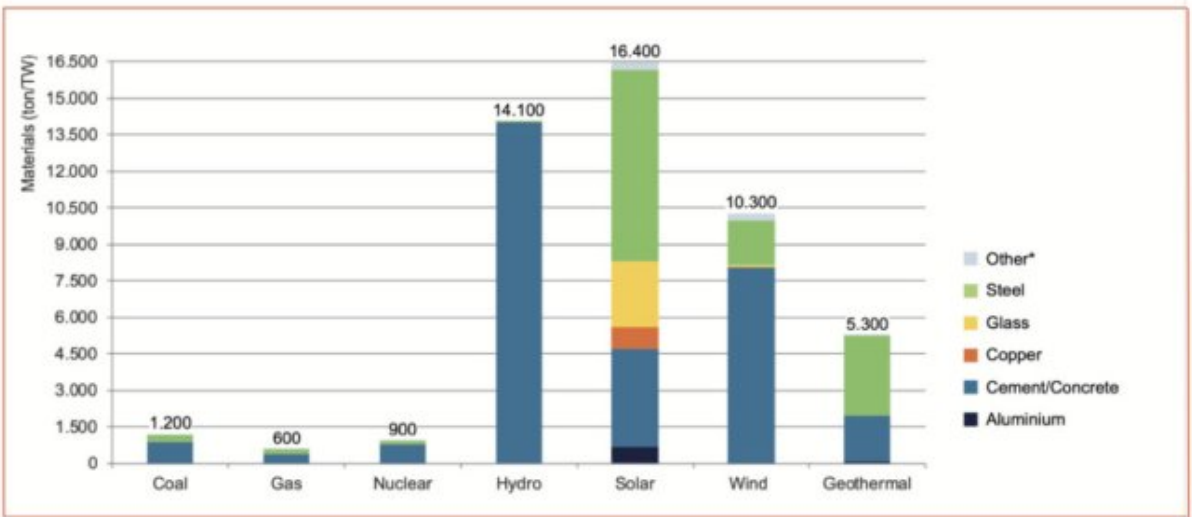
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?Journal of Management and Sustainability?6??

2021???EU??

LCOE??10?

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



1TW??????????? ?Other: iron, lead, plastic and silicon, ???????????

???eROI??



Santje09/iStock

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??12????????????????1????????????????????????
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??6????????????????????????????????????
??CO2????????????????????????????

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Zeit????????5????????????????????????????????????
????????????????6????????????????????????????????????

??1????????8?14??die
Welt??
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??2022????
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??CO2??
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??5????
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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>

????????????????GDP?2??
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??LED????????????????

??PPA?Power Purchase
Agreement??
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?? ?? · Tuesday, August 9th, 2022

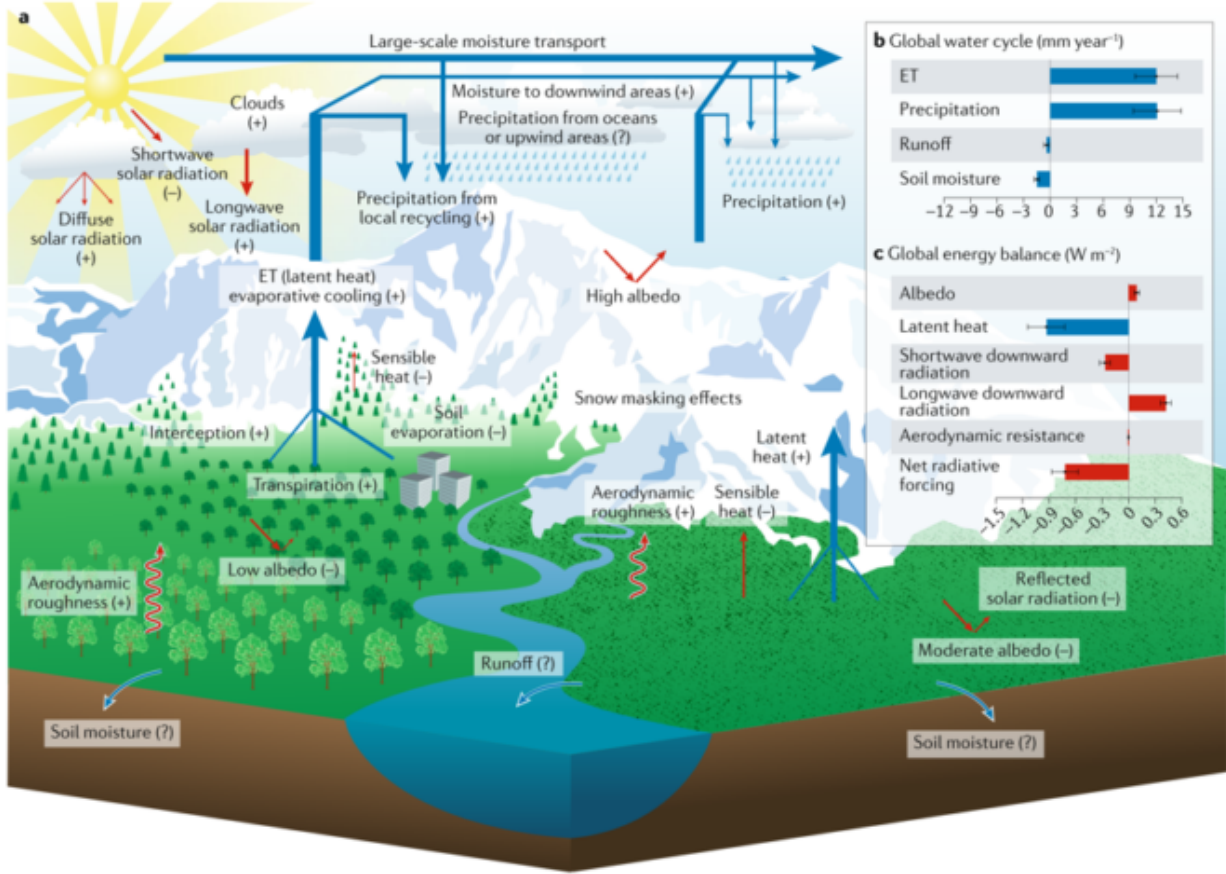


Petmal/iStock

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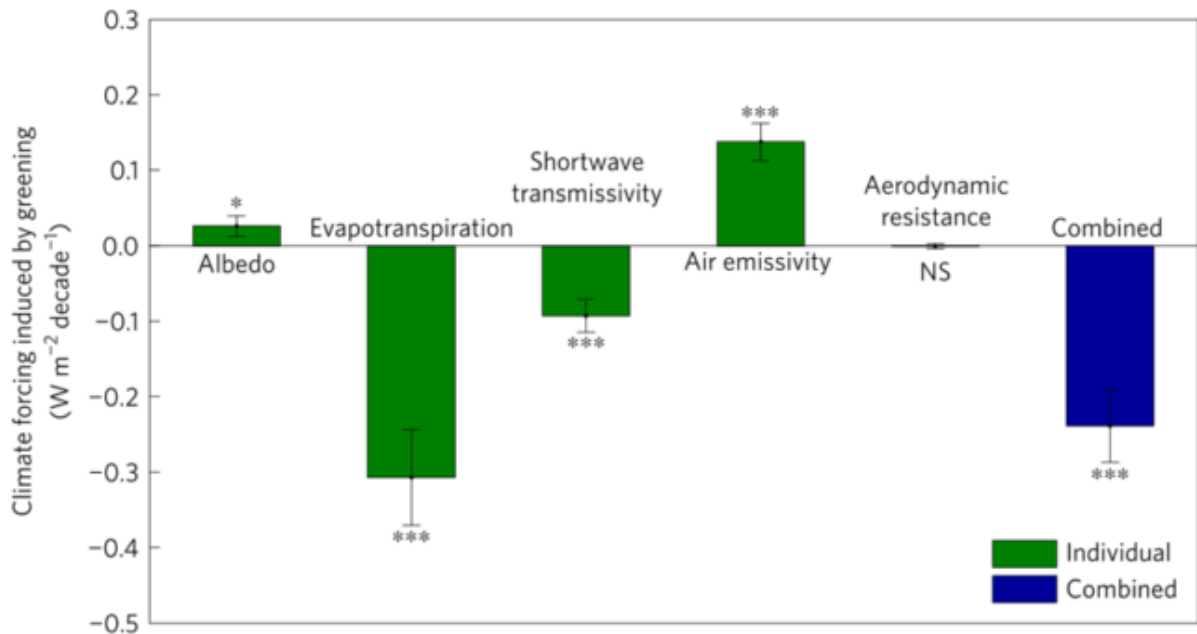
????????LAI????30????8% ?????????????CO2??
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Piao, S., Wang, X., Park, T., Chen, C., Lian, X., He, Y., Bjerke, J. W., Chen, A., Ciais, P., Tømmervik, H., Nemani, R. R., & Myneni, R. B. (2020). Characteristics, drivers and feedbacks of global greening. *Nature Reviews Earth and Environment*, 1(1), 14–27.

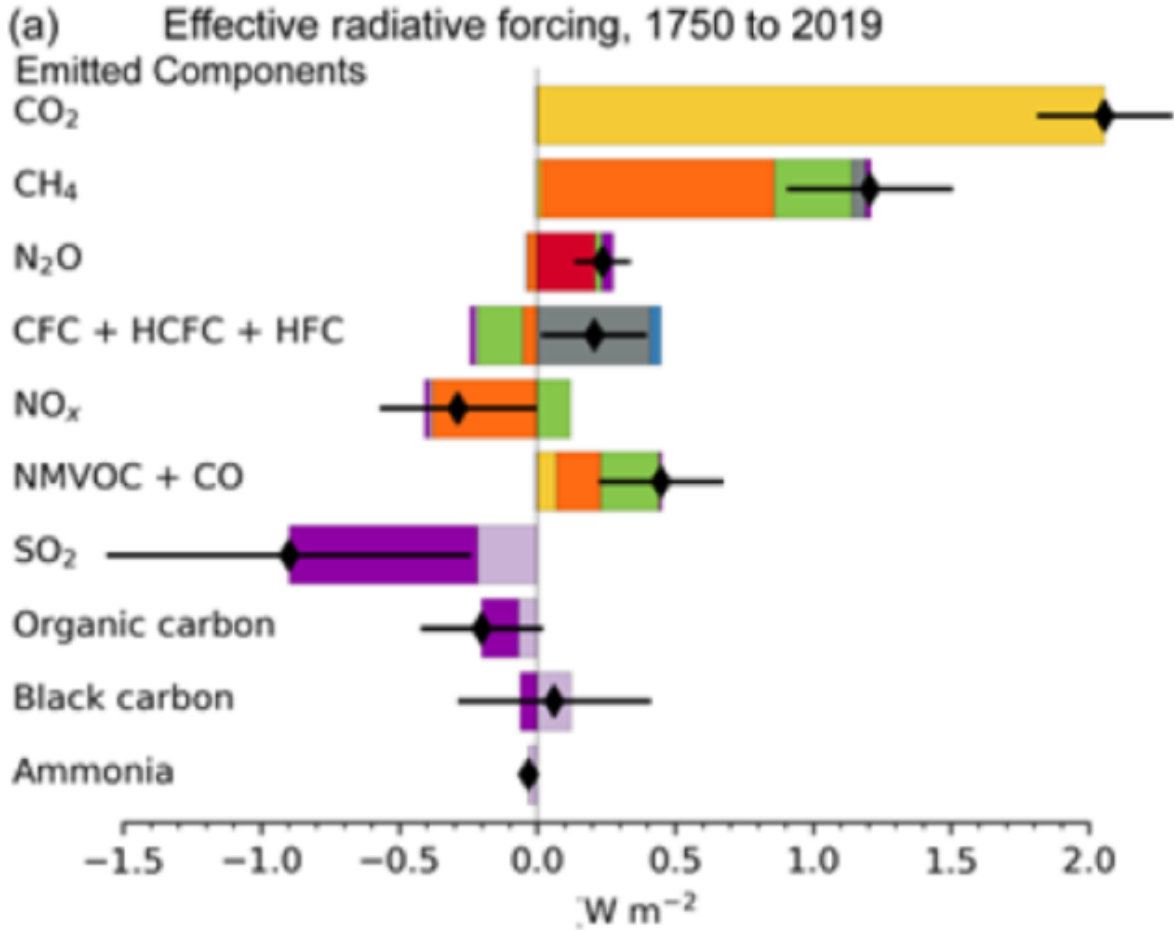
??10????0.24W/m²???????



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



IPCC AR6 Fig. TS.15

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