Global Energy Policy Research | GEPR

GEPR??http://agorajp.com/???

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?? ?? · Wednesday, July 22nd, 2026



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

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?????????????16%?2024????????????????????38%?2023??
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2???????????100?????????

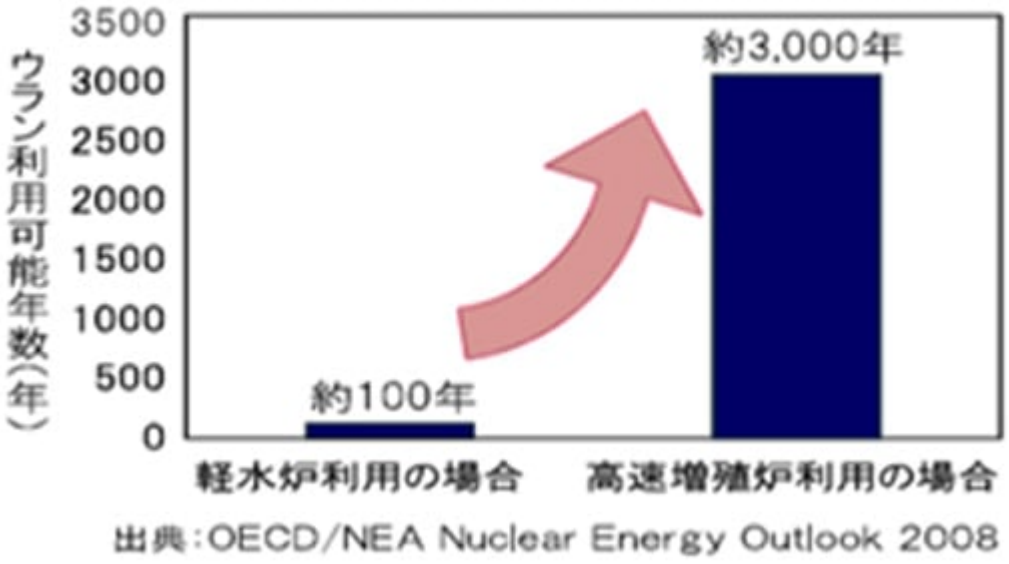
???????????100??

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??????????4?6???????????????????PFBR?50?kWe??

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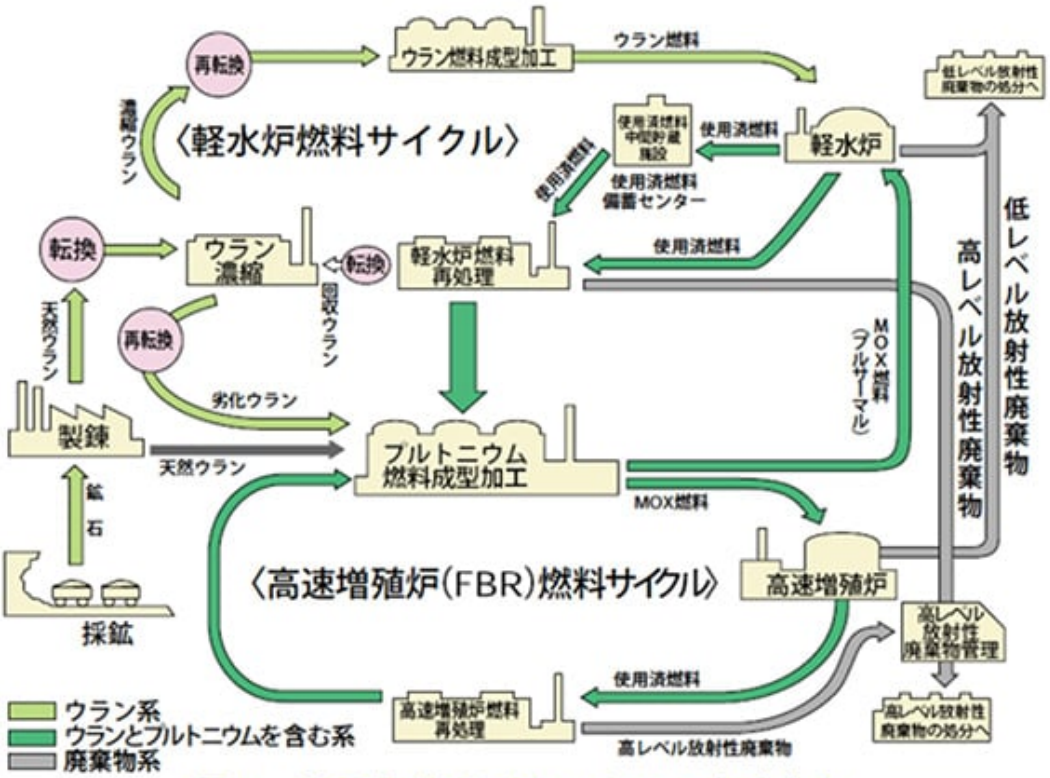


図１　原子燃料サイクル（ＦＢＲを含む）

[出典]（財）日本原子力文化振興財団：「原子力・エネルギー」図面集 2007、7-5（2007年2月）、p.149、電気事業連合会HP：http://www.fepc-atomic.jp/library/zumen/pdf-data/all07.pdf、5/29

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

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主な岩石などのウラン濃度

高品位ウラン鉱床(20%)	200000	ppm
一般的ウラン鉱床(0.1%)	1000	ppm
リン鉱石(0.01%)	100	ppm
花崗岩	4	ppm
地殻中の平均濃度	2.8	ppm
海水中の濃度	0.003	ppm

出典：小野章昌、「ウランは十分あるか？」、Global Energy Policy Research (2016年10月25日)

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

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1951?12?20??????????????????????????????????????EBR-1????1,000 kWt?????200 kWe?????

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21?????????????????????????4???????Gen-IV??????????????4??????????????????GIF??????SFR??????????????????????

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????????????Rapsodie????Phenix????Super Phenix???????MOX?????????????????????????

? ? ? S u p e r Phenix?120?kWe???????????SFR??1998??????????

???????ASTRID?60?kWe??

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????1959????SFR???????BR-5/10?BOR-60??????BN-350?BN-600??????2016??????BN-800?????????2035??????BN-1200????????????????????????????

??????????UO2?????????????UO2????MOX???????????????MOX???

BN-600???????????21????????????12??????????????????76%??

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???21?????????????????????2010?????CEFR?2.5?kWe??????????2017??2020?????????????????CFR?60?kWe×2???????????2030????????CFR?100??120?kWe?2??????????????

?????????UO2????????MOX??????????????????????????????????

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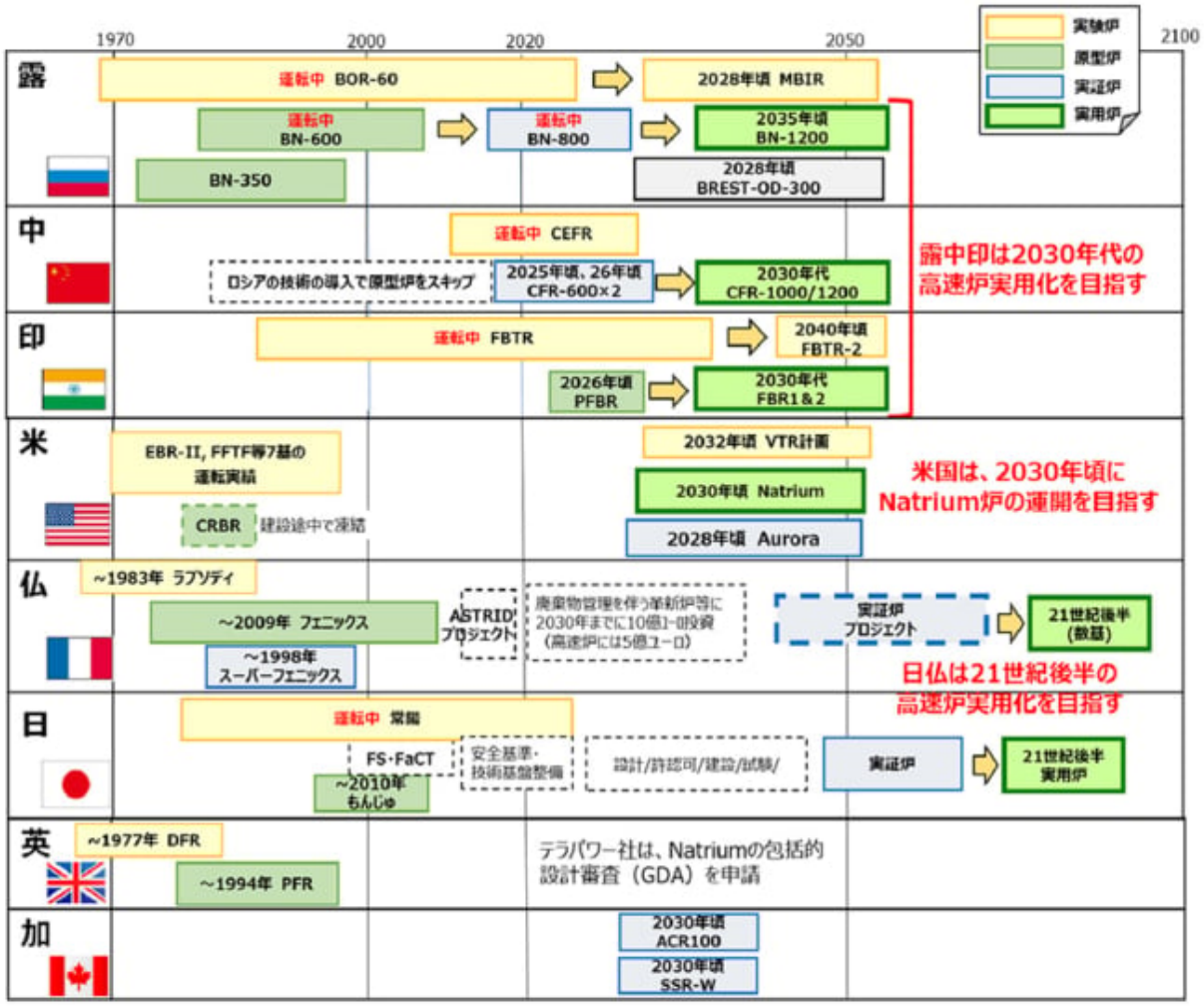
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P F B R ? ? ? ? ? ? ? ? ? ? ? F B R 1&2?50?kWe????2???Pu??????????????MOX????????????????????Pu????????????????????????3????????????????????????????

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

??250??????????????????????

?? ?? · Tuesday, July 21st, 2026



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

2026?7?4??????????????????????250??3????????????????????????2025???5?????????

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

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

??2026?2??

??Valar Atomics??

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

??250??

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5. ????????????????????????

??1970??

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?Whole Earth Catalog??

6. ?????????????3???

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7. ????——????????

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

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?? ?? · Monday, July 20th, 2026



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$$C_batt = (L_day \times N_auto) / (DoD \times ?_inv)$$

C_batt????????????kWh?
L_day????????kWh/day?

N_auto?????????????????
DoD?????????????????????50?80??
?_inv?????????????????????

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??2??????????????????????2?????7???7???????????
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N_auto?1?2??????????????????????????5?7??

????????N_auto?5?7??

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$$E\_area = G\_avg \times ?\_module \times ?\_sys$$

E_area?????????????????????kWh/m²/day?
G_avg?????????????????????3.8 kWh/m²/day?
?_module?????????????????????20??
?_sys???????????????????????????????????80??

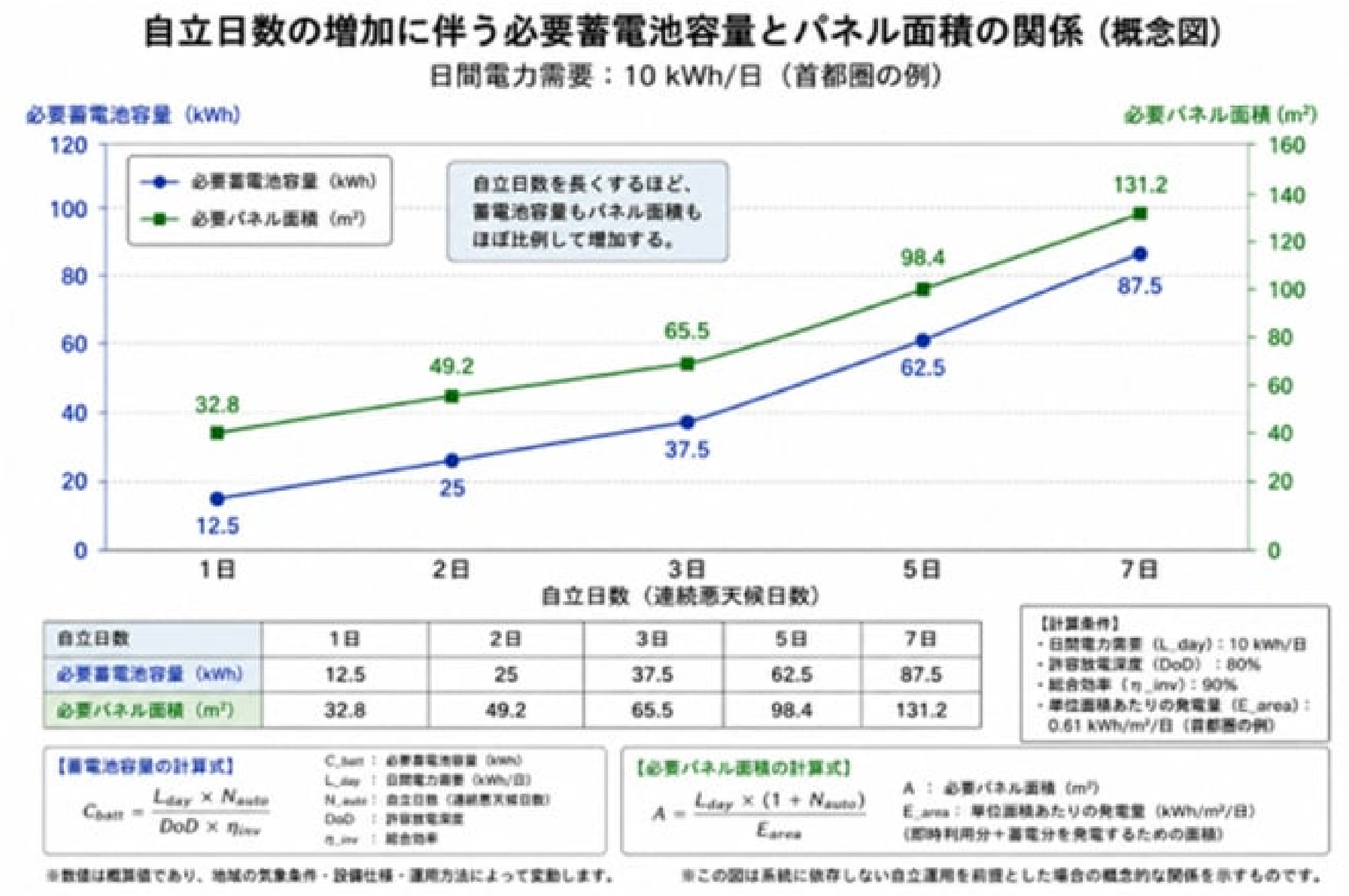
? ? ? ? ? ? ? ? ? ? ? E _ a r e a ? 0 . 6 1
kWh/m²/day????????10kWh?????????????????????????16.4m²????????????????????????????2???????????
?????49m²????????7???????????131m²??

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???E_area??????????????????????
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?????????573kW/km²????????????????????FIT???
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Posted in ???????????, ??? | No Comments »

RE100?????????????

??? ?? · Sunday, July 19th, 2026



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??????????????????????100??RE100?Renewable Energy 100?????

RE100??????????????????????100??2018???????????????????????RE100??

RE100??

RE100??

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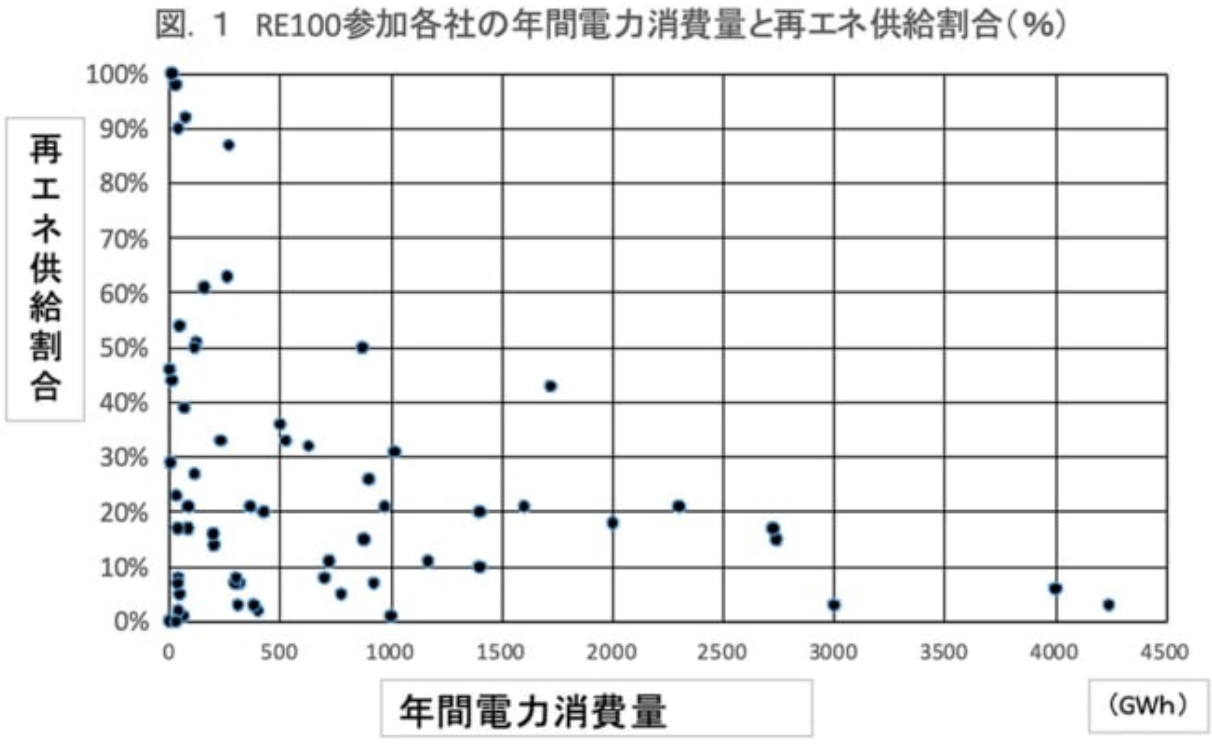
??????????RE100???????2025??????????443?????95????????????????????RE100????????????????
??RE100?????????????44TWh???????????????36???????????RE100????????????????????????????
15.8TWh??????

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???1.8????????????????????????????????

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?1?RE100????????????????????????

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RE100????????100??RE100??????????J-??

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CO2??CO2??CO2??

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環境省	
事業名	RE100との関連性
地域脱炭素推進交付金	地域の再エネ設備導入・PPA・蓄電池等を支援。RE100企業の再エネ調達環境の整備に寄与。（補助金ポータル）
建築物等のZEB化・省CO?化普及加速事業	RE100企業のオフィス・工場・商業施設の省エネ・再エネ導入を支援。（環境省）
脱炭素技術等による工場・事業場の省CO?化加速事業（SHIFT）	製造業の省エネ設備更新・CO?削減投資を支援。RE100参加製造業との親和性が高い。（環境省）
Scope3排出量削減のための企業間連携による省CO?設備投資促進事業	サプライチェーン全体での脱炭素化を支援。RE100企業のScope3対策を後押し。（環境省）
中小企業を含むバリューチェーン全体の脱炭素経営高度化事業	サプライヤーの脱炭素経営・情報開示を支援。RE100企業の調達先対応に関連。（環境省）
グリーンファイナンス普及・拡大促進事業	RE100企業のGX投資・再エネ投資を金融面から支援。（環境省）
ESGリース促進事業	省エネ設備・再エネ設備の導入をリースで支援。（環境省）

経済産業省	
事業名	RE100との関連
省エネルギー投資促進・需要構造転換支援事業費補助金	工場・事業場の大規模省エネ、電化・脱炭素燃料転換、EMS導入を支援。RE100参加企業の設備更新を直接支援。（エネルギー庁）
省エネルギー投資促進支援事業費補助金	高効率設備、空調、ボイラー、コンプレッサー、EMS等への更新支援。（省エネ・非化石転換補助金）
再生可能エネルギー導入拡大に向けた分散型エネルギーリソース導入支援事業	蓄電池・エネルギーマネジメントシステム（EMS）等の導入支援により、再エネの有効活用を促進。（エネルギー庁）
FIT・FIP制度の運用	RE100企業による再エネ調達市場の形成を支える制度。2025年度の買取価格等が設定。（経済産業省）
※chatGPTで検索	

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RE100??ESG????????????????????????ESG??

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

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?? ?? · Saturday, July 18th, 2026



??????????????????????????HP???????????592,000???????11?7,268????????????????????????

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原子力損害賠償のご請求・お支払い等実績

2026年7月3日現在

	個人	個人（自主的避難等に係る損害）	法人・個人事業主など ※2	
ご請求について				
ご請求書受付件数（延べ件数）	約1,295,000件	約2,074,000件	約592,000件	
本賠償の状況について				
本賠償の件数（延べ件数）	約1,140,000件	約2,004,000件	約504,000件	
本賠償の金額 ※1	約3兆5,634億円	約4,488億円	約7兆5,582億円	
これまでのお支払い金額について				
本賠償の金額 ※1			約11兆5,705億円	①
仮払補償金			約1,563億円	②
お支払い総額			約11兆7,268億円	①+②

※1 仮払補償金から本賠償に充当された金額は含んでおりません。
※2 除染等費用を含んでおります。

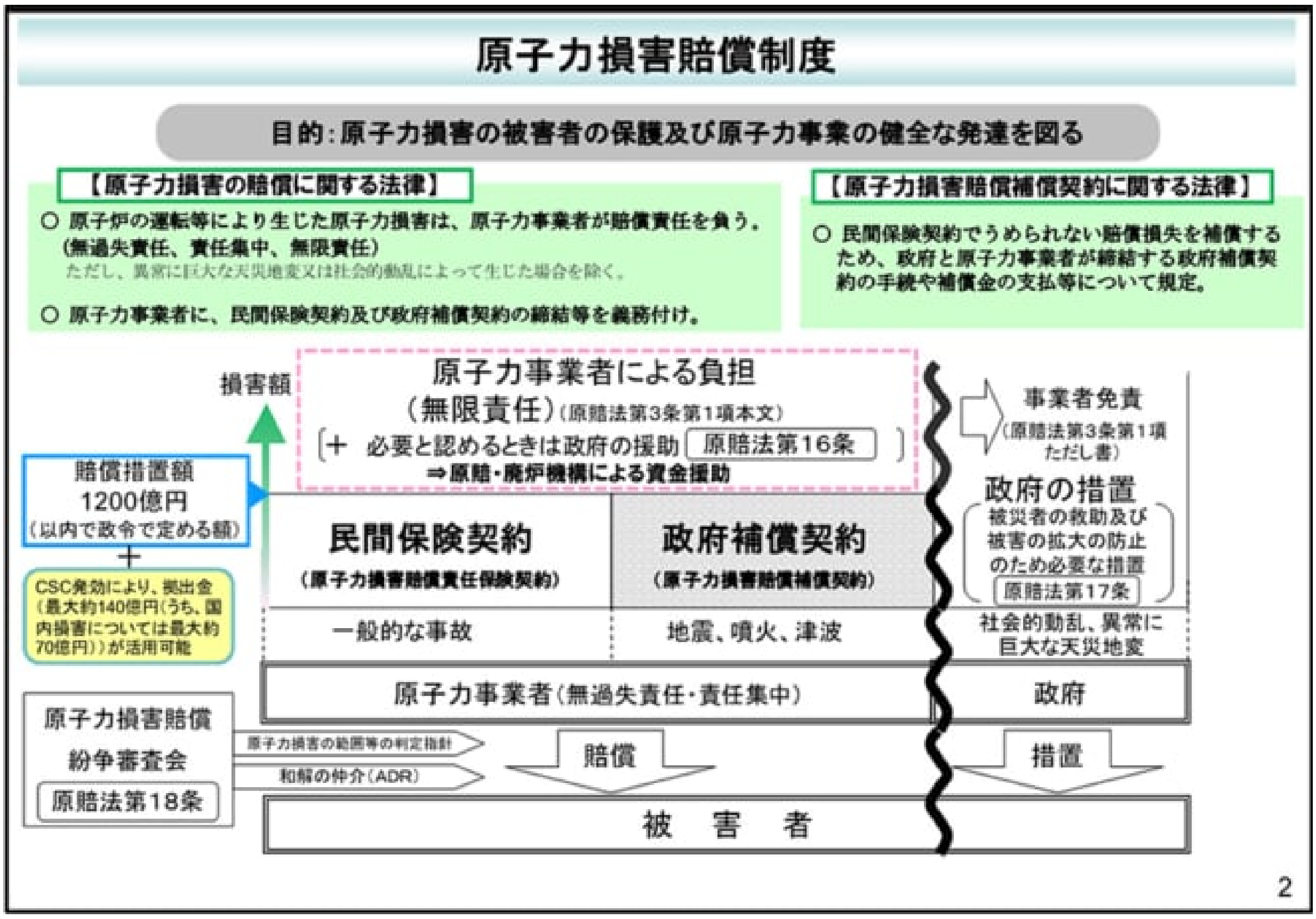
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?1966?1?16?????5????1961?6?8??????1962??3?15??

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2015?5???????????1?????????????????????2018?10???21???

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2015?5?21??????????????????????????p.2??

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- ??7???

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- ??17???

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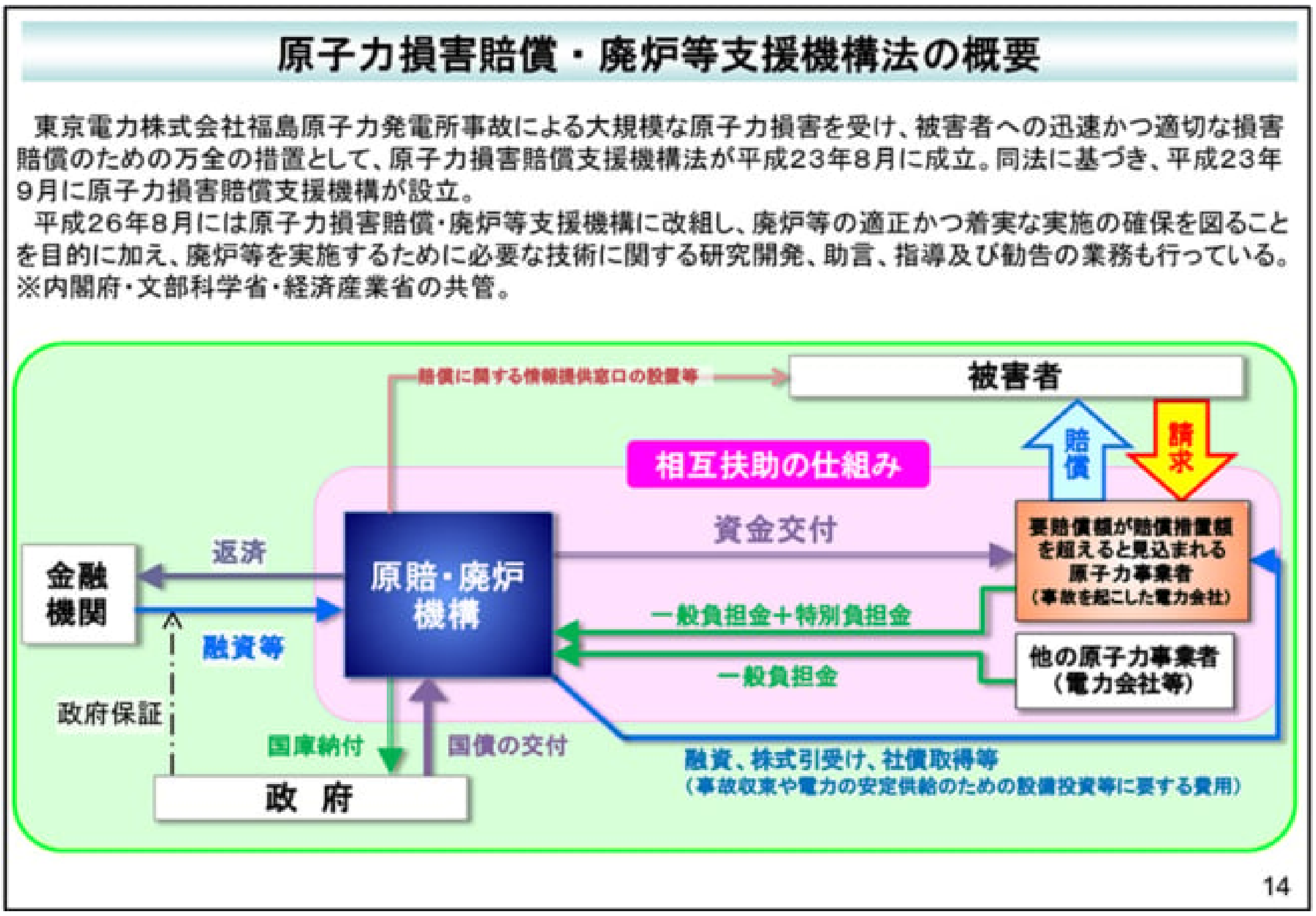
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2015?5?21??????????????????????????p.14??

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??????	7.9??	7.4??

??	????	METI???
?????????	5.6??	3.3??
???	2.3??	2.24??
??	**23.8??**	**15.7??**

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

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

?? ?? · Friday, July 17th, 2026



?HYBARI????????????JR???????????????
Wikipedia??

JR????2027??????????????????????????HYBARI????????????????????????????????

JR??????????????HYBARI??27????????30?????? – ??????

1??????70km?????????CO2??

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HYBARI??CO2????????????????????????????

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??1kg??????CO2????????5.5kg??????

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? ????800?900?????????????????????
? ???????????
? CO??????
? PSA?????????

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?????HYBARI?????????????????????????????1??????20kg??224Nm³??????????????180?240kg?CO
2???????????????

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???????????224Nm³???????????????56Nm³??40kg??
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1?????????70km?????????????????????????????????????

Well-to-Wheel???????????

??Well-to-
Wheel???????????????????????????????

IEA?JH2A??
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JR??HYBARI?????????????
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Posted in ???????????, ???, ??????????? | No Comments »

???????????JBS???????????

?? ?? · Thursday, July 16th, 2026



inga/iStock

??????????????????????????????????JBS?????2040?????????????????????????????CO2??????????
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???????????JBS?2030??????1?????2?CO2??????30%?????????????????????2050????????CO2??
????70%?????????????2030????2050????????2019????????3???????????????

ESG Today?????JBS??????????????????????????3????????????????????????

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> JBS??**2040?????????????????????**????????????????????????JBS?2019?????**2030?**
> **???????1???2?????????????30%??**??
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> ???????????????2040????????**100%?????????????RE100**????????????????????????
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2030?????????1?2???????30%?????????10???2040????????????????????3????????CO2??????????
????100%?????????????????

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??????JBS??????????1?2???????2030??30%???2050??70%????????????????????????????????????
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> ??????????????????CO2??
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Posted in ???, ????, ????? | No Comments »

????AfD?????????????????????????????

?? ??? ?? · Tuesday, July 14th, 2026



Konoplytska/iStock

1?????????????? AfD?????????????????????????????????????

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???G7???

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???????1??????????AfD????

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??600??????????????????????????????1000??????????????????

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fD??????????????????????????????

?????7?4???100???1926??SNS???
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????100???A
fD??????????????

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?? ?? · Monday, July 13th, 2026



Yuliya Taba/iStock

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分野・対策の種類	件数	寿命 1 年延長当たり費用の中央値	医療を 1 とした倍率
医療	310	1 万 9,000 ドル	1
事故・傷害防止	133	4 万 8,000 ドル	2.5 倍
有害物質管理全般	144	280 万ドル	**147 倍**
環境部門の有害物質管理	124	420 万ドル	**221 倍**

?A???????1????????
??144?????????????????1993????????????

???Tengs et al.?1995?, Table I[21?]?

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??????????????280???????????420??????????????????150???221?????

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規制機関	主な対象	件数	寿命１年延長当たり費用の中央値	FAA を１とした倍率
FAA	航空安全	4	2万3,000ドル	1
CPSC	消費者製品安全	11	6万8,000ドル	3.0倍
NHTSA	自動車・道路交通	31	7万8,000ドル	3.4倍
OSHA	職場の安全衛生	16	8万8,000ドル	3.8倍
EPA	環境・化学物質	89	**760万ドル**	**330倍**

?B?????????1????????
???????FAA???????CPSC???????????NHTSA?????????OSHA?????????EPA??????????????

???Tengs et al.?1995?[212]?

EPA?????????????1????760???????????????????330??????????????112????????????97??????????
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対策	寿命１年延長当たり費用	シートベルト着用義務を１とした倍率
喫煙する妊婦への禁煙助言	0ドル以下（費用節約）	–
シートベルト着用義務	69ドル	1
飲料水の塩素消毒	3,100ドル	約45倍
住宅用煙感知器の設置（一つの推計）	21万ドル	約3,000倍
原子力発電所の放射線排出基準（一つの推計）	**1億ドル**	**約145万倍**

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???Tengs et al.?1995?, Appendix A[212]?

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HERP???? ???1???? ÷ ?????TD50 × 100

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1992???Science??

区分	原表における平均的な日常曝露	評価対象物質と推定摂取量	HERP
天然化学物質	コーヒー13.3g（約3杯）	カフェ酸 23.9mg	0.1%
	レタス 14.9g（約67分の1個）	カフェ酸 7.90mg	0.04%
	香辛料中のサフロール	サフロール 1.2mg	0.03%
	オレンジジュース 138mL	d-リモネン 4.28mg	0.03%
	黒コショウ 446mg	d-リモネン 3.57mg	0.03%
	マッシュルーム 2.55g	ヒドラジン類の混合物	0.02%
	リンゴ 32.0g（約17分の1個）	カフェ酸 3.40mg	0.02%
合成農薬残留物	DDTの平均的食事曝露（1972年禁止前）	DDT 13.8μg	0.002%
	EDBの平均的食事曝露（1984年禁止前）	EDB 420ng	0.0004%
	カーバリルの平均的食事曝露（1990年）	カーバリル 2.6μg	0.0003%
	DDE／DDTの平均的食事曝露（1990年）	DDE 659ng	0.00008%
	ジコホルの平均的食事曝露（1990年）	ジコホル 544ng	0.00002%
	クロロベンジレートの平均的食事曝露（1989年）	クロロベンジレート 6.4ng	0.0000001%
	キャプタンの平均的食事曝露（1990年）	キャプタン 11.5ng	0.000000006%

?D???????????????HERP??
?????Table 3??????????????????????????????????

???Gold et al.?1992?, Table 3[?22?]?

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?1?Tengs, T. O., Adams, M. E., Pliskin, J. S., Safran, D. G., Siegel, J. E., Weinstein, M. C., and Graham, J. D. (1995), "*Five-Hundred Life-Saving Interventions and Their Cost-Effectiveness*," Risk Analysis, 15(3), pp. 369–390. ?DOI???PDF?

?2?Gold, L. S., Slone, T. H., Stern, B. R., Manley, N. B., and Ames, B. N. (1992), "*Rodent Carcinogens: Setting Priorities*," Science, 258(5080), pp. 261–265. ?DOI???PDF?

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?? ?? · Sunday, July 12th, 2026



asbe/iStock

6?29????????????45%??

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???45%??????????ESG??45%??????????????????????
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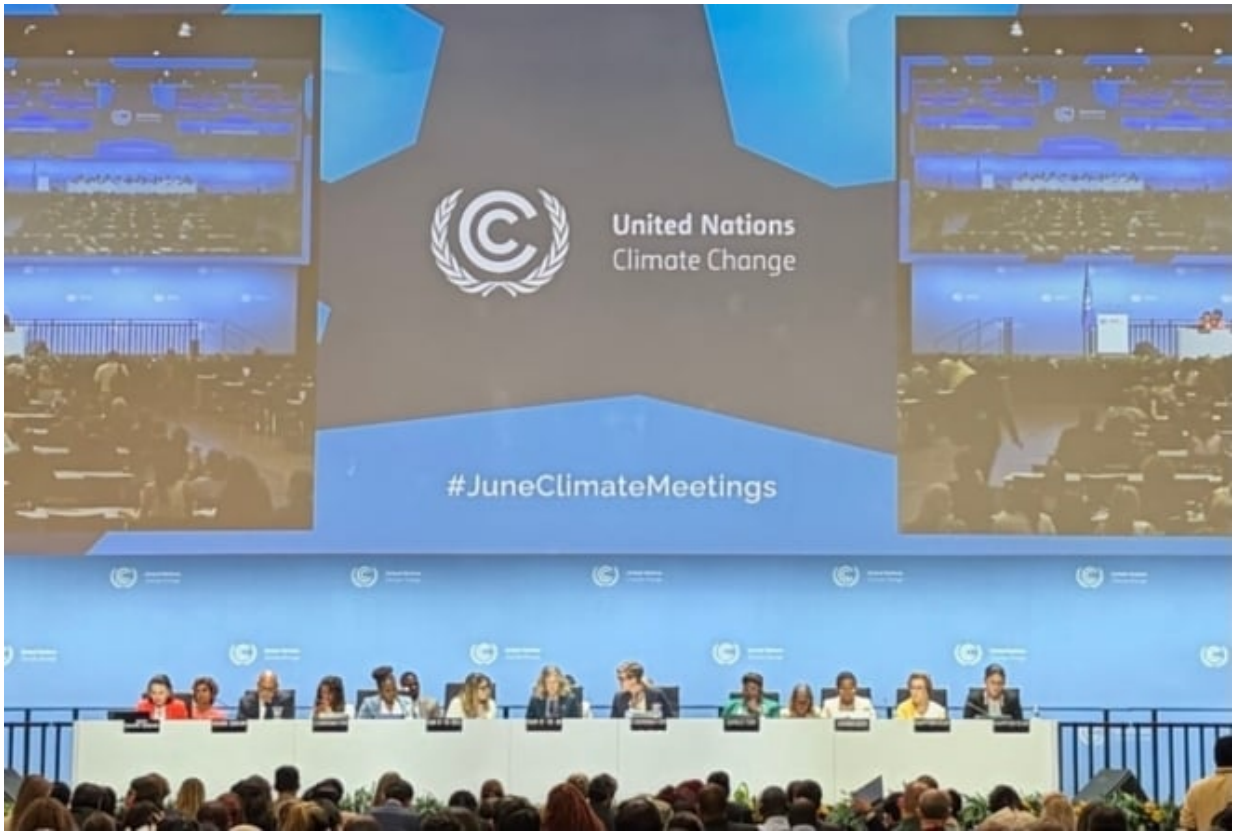
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?? ?? · Saturday, July 11th, 2026

2026?6????????????????????????UNFCCC???????11??????????????????COP31??????????????????

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1. ??
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?? ?? · Wednesday, July 8th, 2026



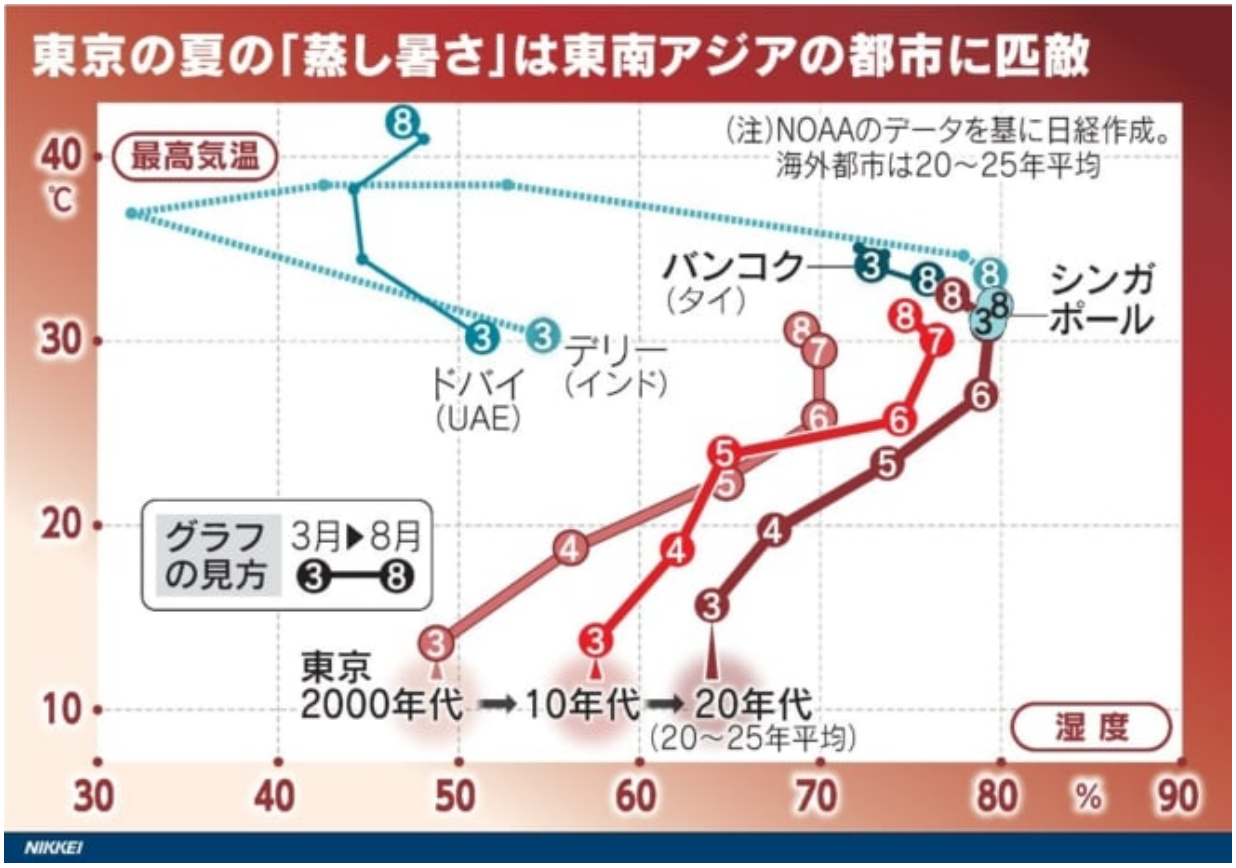
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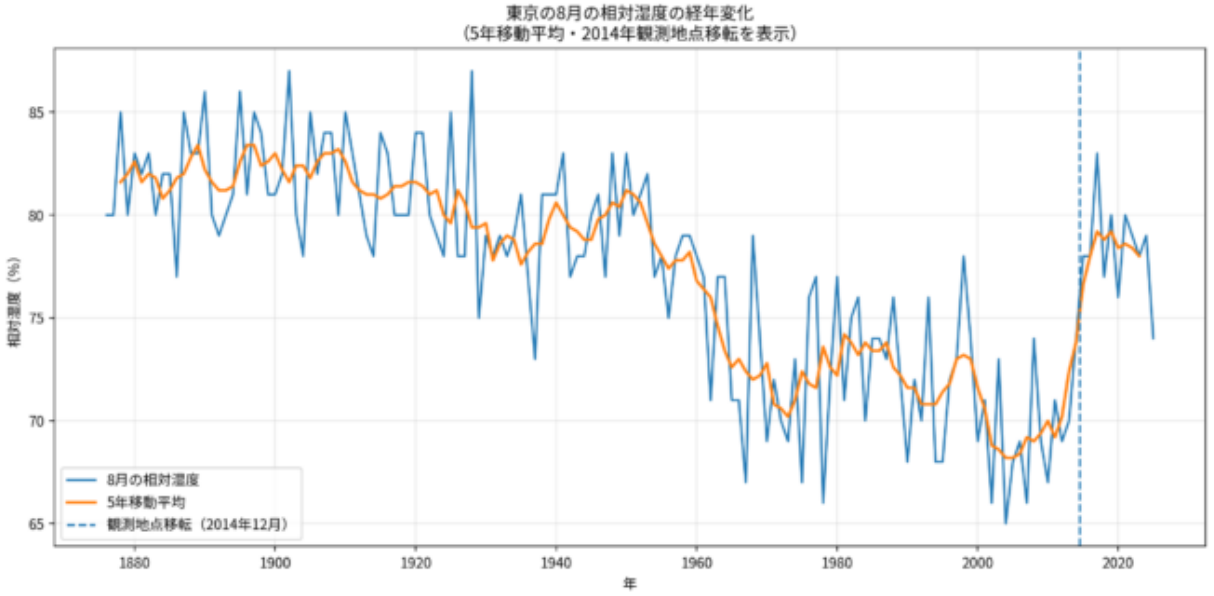
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?? ?? · Tuesday, July 7th, 2026



Liudmila Chernetska/iStock

EU-ETS????????????

E U ? E U - ETS??????????????????????????????????????2050??

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ETS??????????????????????[?1?]???3??????????????????????????6??

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E U - ETS????2026??**??100??**???2026???97.5???????????????????2.5????????????????????????????????????27?95??28?89.1??29?77.5??30?52.5??31?39??32?26.5??33?14????????????????????????8????2034????????????????????????????????CO2??EU????????????????????

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3?????EU-ETS??????????49??????2005?2023???**???????????????????**????**?????????**?**???????????????**?**?????????CCfD?**?**CCS????**?**????????????**??????**??????????????????????????**?

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- **ETS??????????**??CEO??
- **??**?ETS???
- **??????????????????????**??????????????????????????????

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??8????2034????????????????EU-ETS????????????????**?????????????**??3????????????

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??EU-ETS??EU-ETS????????????????????????

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?1?ArcelorMittal, thyssenkrupp Steel and voestalpine call for pragmatic ETS reform, to secure the competitiveness of European steelmaking and help to accelerate decarbonisation

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?? ?? · Monday, July 6th, 2026

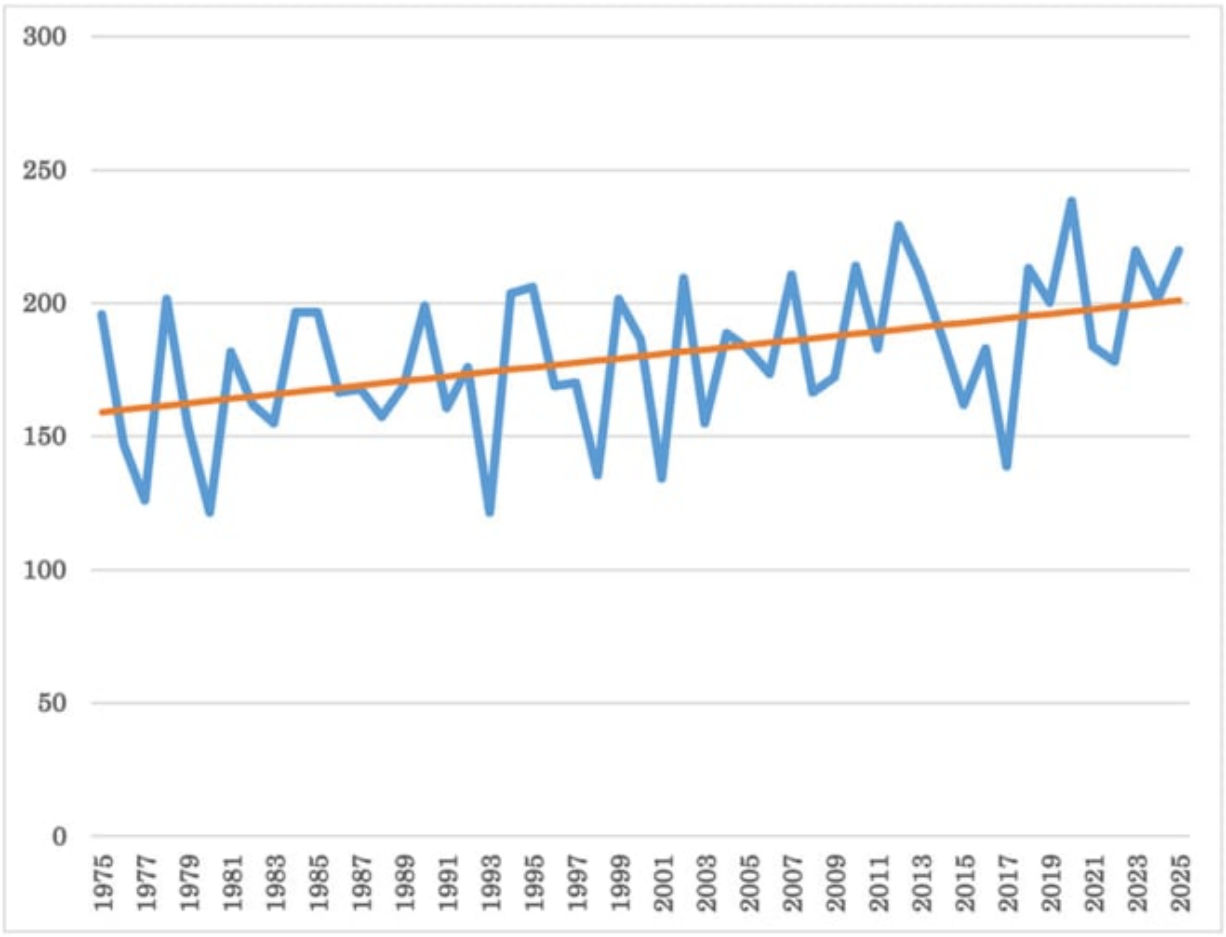


gyro/iStock

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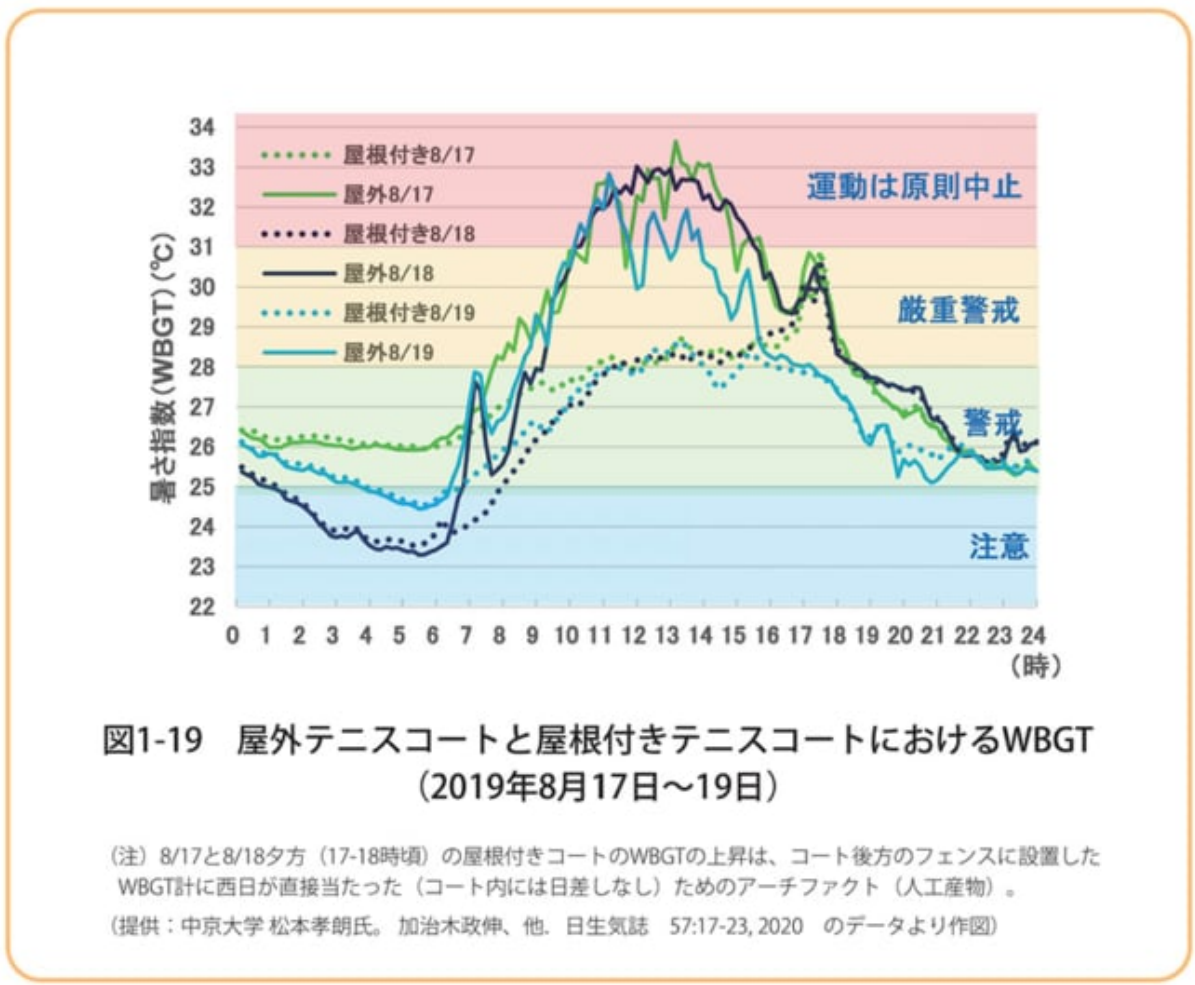


図1-19　屋外テニスコートと屋根付きテニスコートにおけるWBGT
（2019年8月17日～19日）

（注）8/17と8/18夕方（17-18時頃）の屋根付きコートのWBGTの上昇は、コート後方のフェンスに設置したWBGT計に西日が直接当たった（コート内には日差しなし）ためのアーチファクト（人工産物）。

（提供：中京大学 松本孝朗氏。 加治木政伸、他. 日生気誌　57:17-23, 2020　のデータより作図）

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?? ?? · Saturday, July 4th, 2026



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2. ???????????????
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?????????????1????????176kg???823kg?????N??3H??2NH????????????????????????????????????
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???????CAPEX?????????????????????????4?5????????????????????????????????2?2.5?????????????
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?1???????????630?900???????720?????????????7???????

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??8?12??
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0?500????????????????????????????????2?2.5?????????????

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58?/Nm3????????2030????????1.9???2050????????2.9??????????

?????58?/Nm3????????????????????????????????????CIF?????????????????CIF????????????????????
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FCOE??

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JamesBrey/iStock

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?? ?? · Thursday, July 2nd, 2026



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??6??????2,760??????????????????4??????????????????14??????????????????????????

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?? ?? · Wednesday, July 1st, 2026



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項目	主計算の値
土地利用密度	2.5ha/MW（=0.40MW/ha）
設備利用率	18.3%
過積載率	130%
メガソーラーの発電コスト	10.9 円/kWh
系統電力の排出係数	0.250kg-CO2/kWh

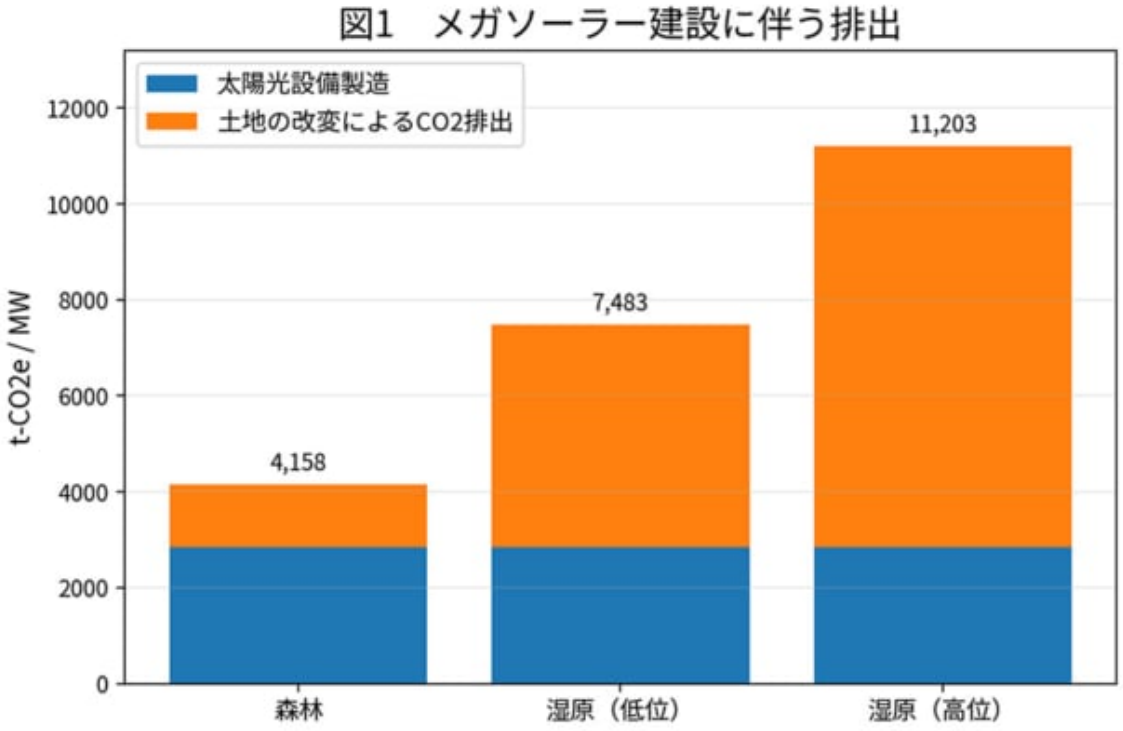
?1??????????????

??????1??????????????????????2.5ha/MW?????1ha???0.40MW??????????????????18.3%??????130%??

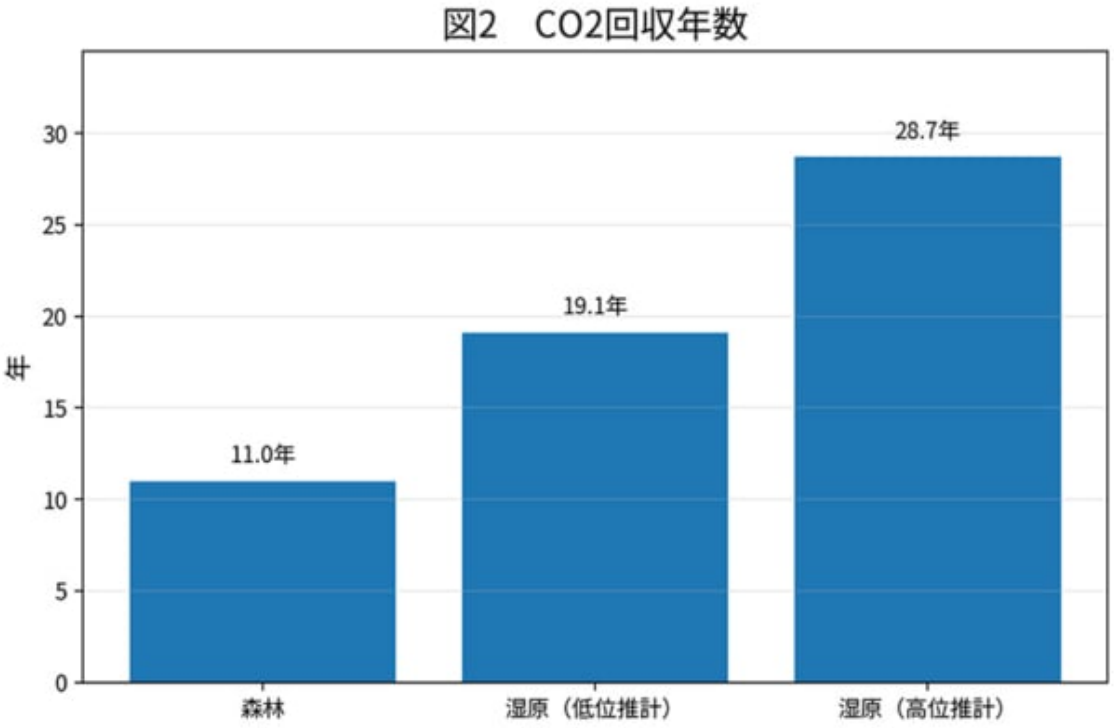
??CO2????????????????????1MW???2,845??CO2??

??1,313??CO2????????????????????????????????4,158??CO2????

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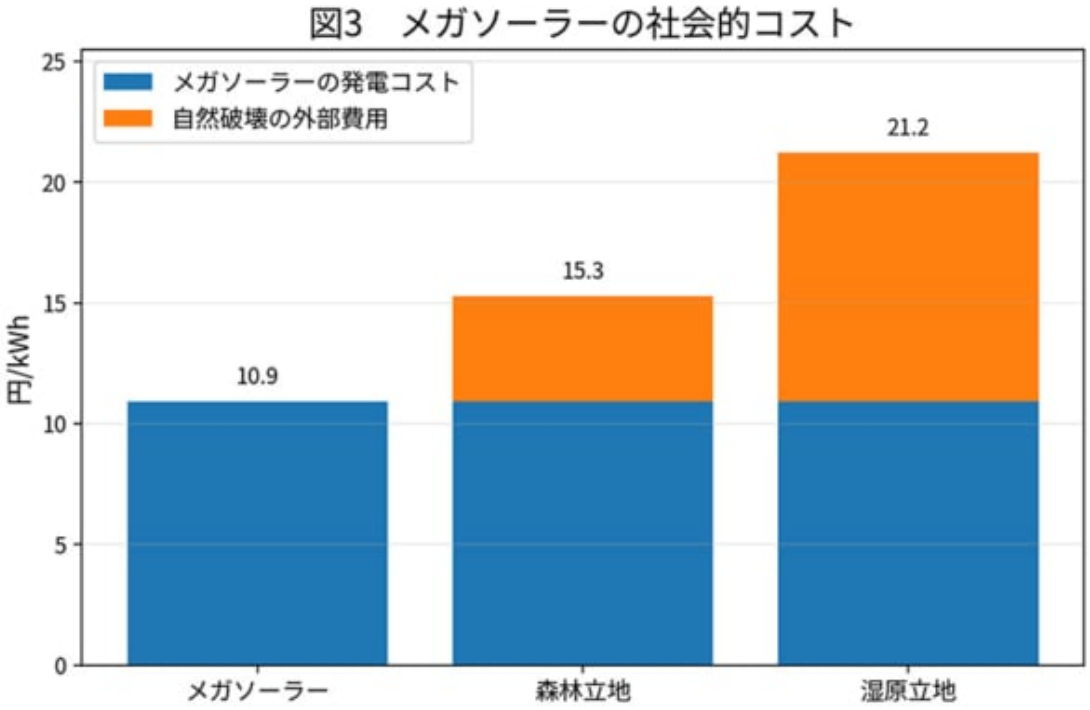
??????????????????????????CO2????????????????????????CO2?????????????2????????????2030???
??????????????11??????19?29??????



??????????????????????????????????280.8??/ha/????????ha????????????????????4.38?/kWh???
??????????????????????????????661.8??/ha/???????????ha?????????????????10.32?/kWh????

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



??CO2???
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1. ?????2026??????????????????????? CIGS Working Paper Series No. 26-006J???2026?5?29????2026?6?29??
2. ?????2026??????????????????????? CIGS Working Paper Series No. 26-009J???2026?6?23????2026?6?29??
3. ?????2026???????????????????????????CO2??? CIGS Working Paper Series No. 26-0010J???2026?6?15????2026?6?29??
4. ?????2026???????????????????????????CO2??? CIGS Working Paper Series No. 26-0011J???2026?6?15????2026?6?29??

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

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??? ?? · Monday, June 29th, 2026



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A big fat energy zero

https://www.netzerowatch.com/all-news/spanish-blackout-transcripts

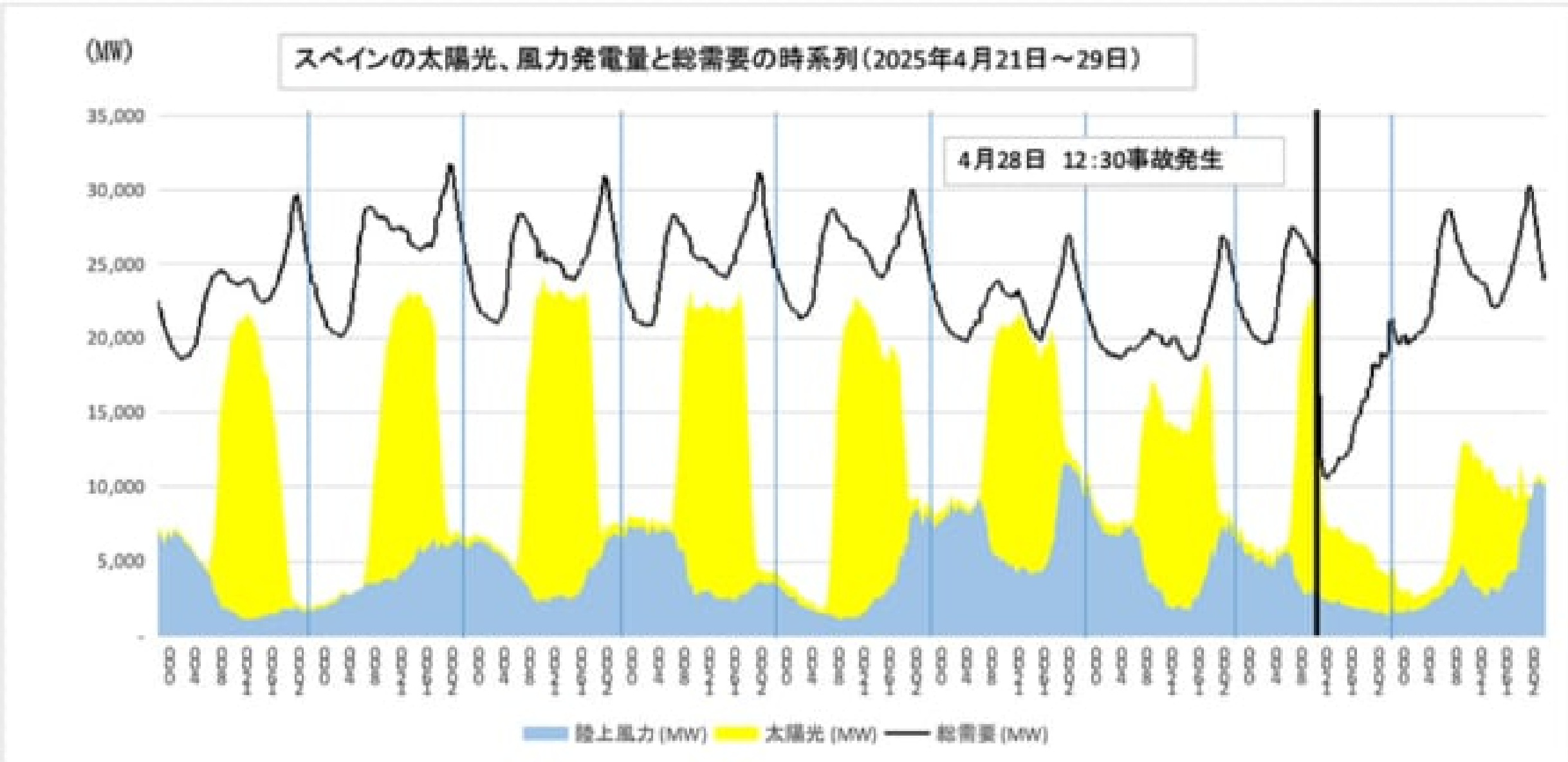
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2025?4?28??????????????????1??

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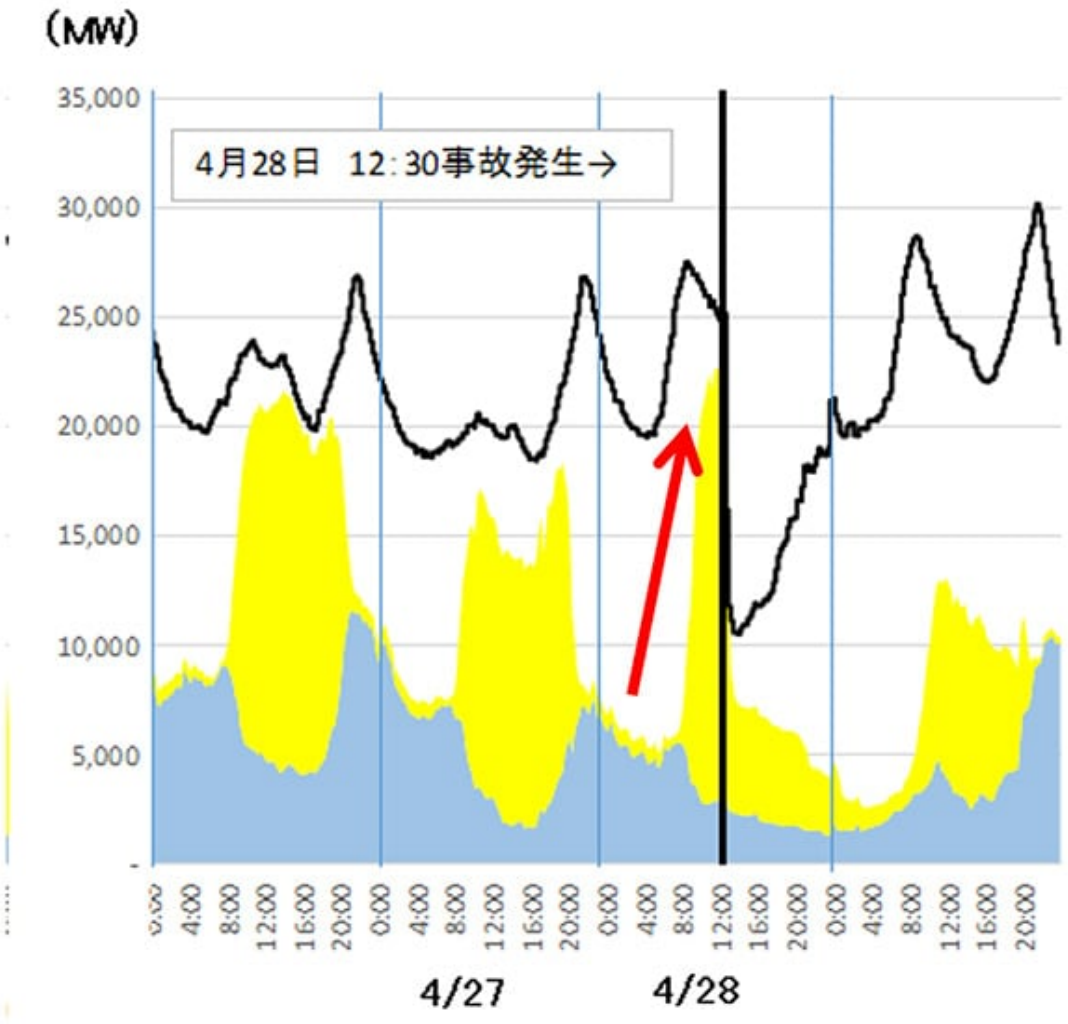


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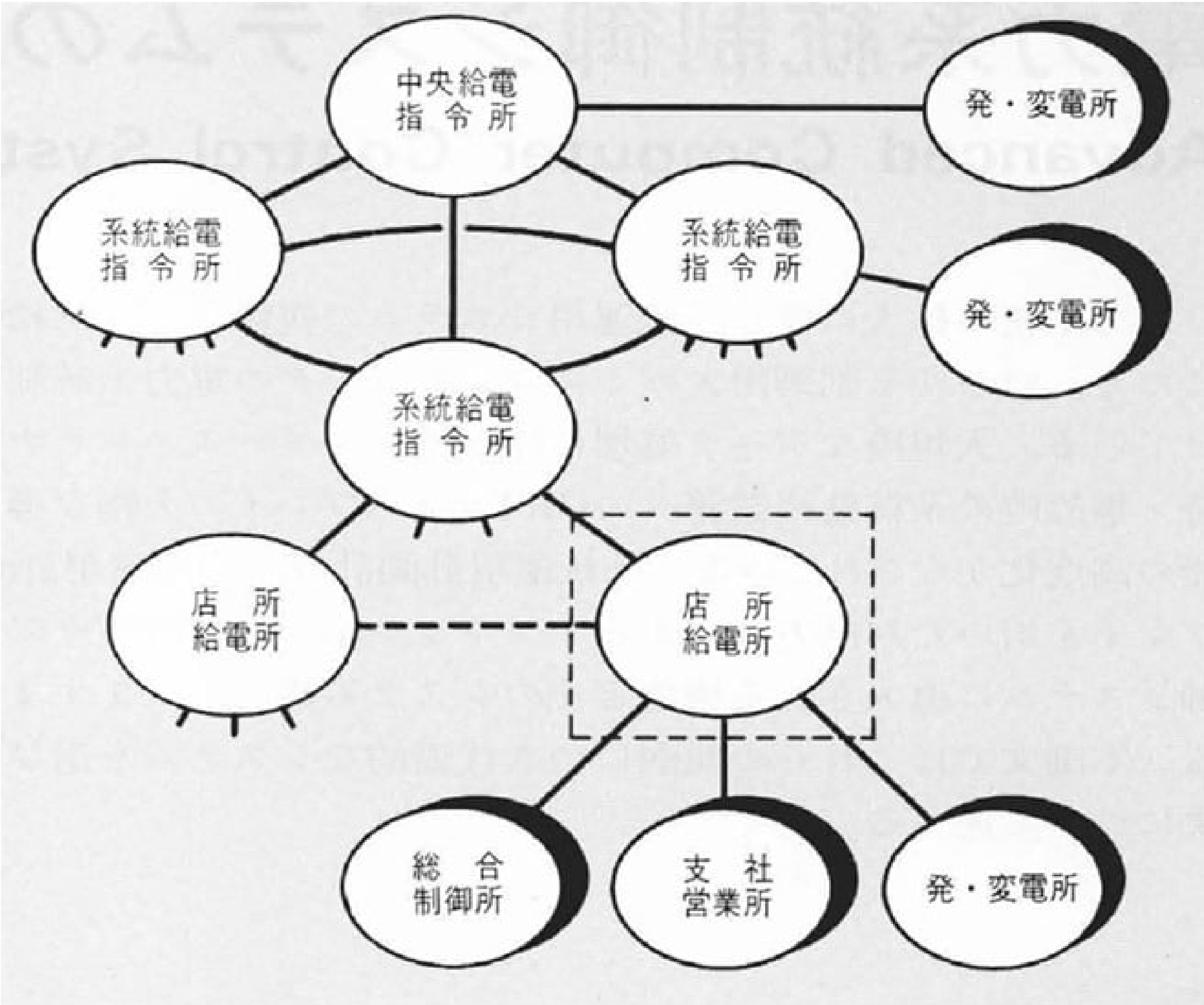
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?? ?? · Sunday, June 28th, 2026



lixu/iStock

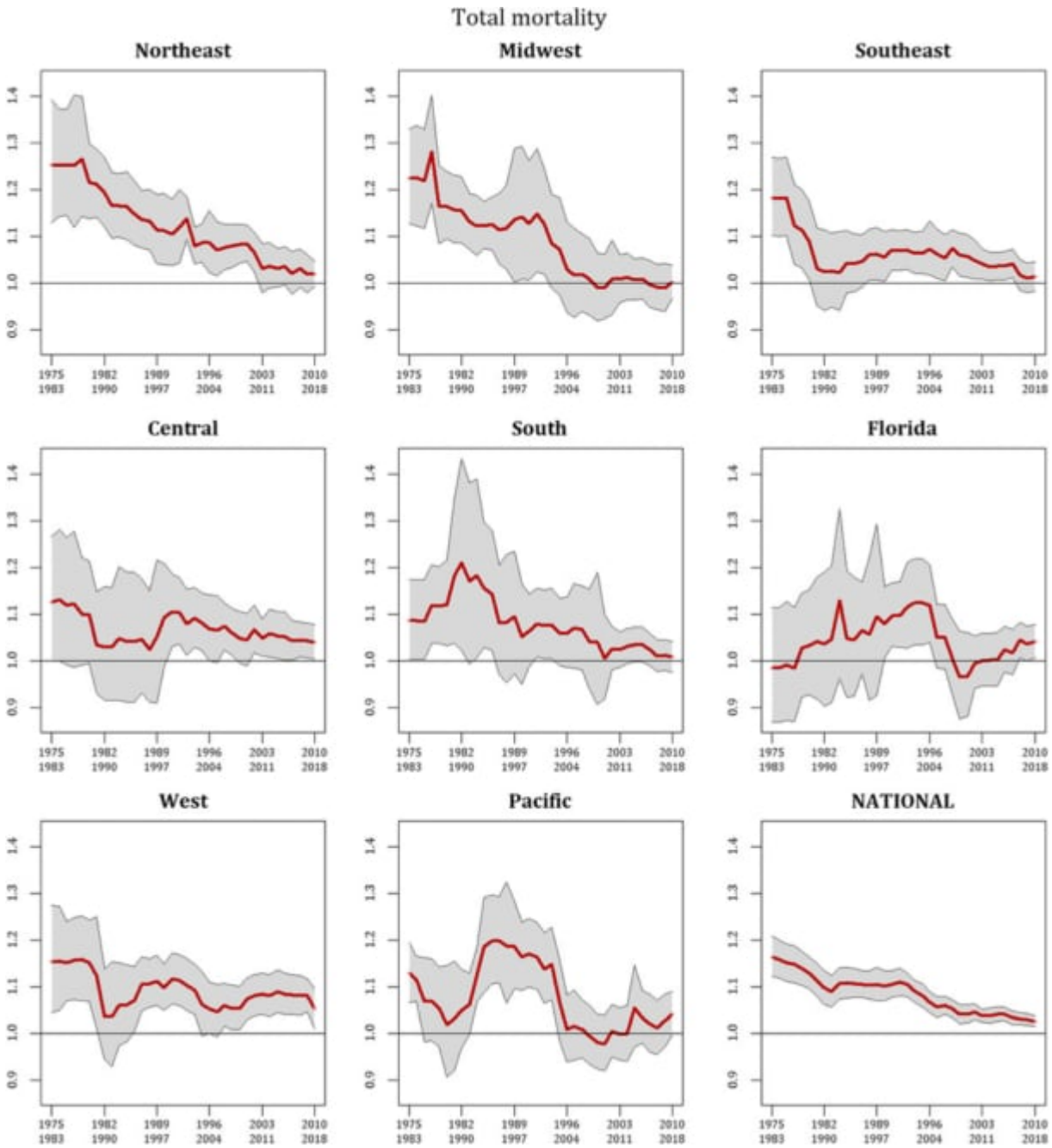
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???Sheridan et al. 2021; Pielke Jr. 2023 ????

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????Sheridan et al. 2021 ??1975?2018????107??????????????10????????????????????[?6?]?

??Barreca et al. 2016
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https://www.fdma.go.jp/disaster/heatstroke/items/r6/heatstroke_nenpou_r6.pdf
?2???????????5????????????????????????????19????6????
?3?Fujibe, F. and Matsumoto, J. (2021). “Estimation of Excess Deaths during Hot Summers in Japan.” SOLA, 17, 220–223. DOI: 10.2151/sola.2021-038.
?4?Roger Pielke Jr. (2023). “Public Health and Climate Change.” The Honest Broker, April 24, 2023.
?5?Roger Pielke Jr. “Europe’s Deadly Aversion to Air Conditioning.” The Honest Broker.
?6?Sheridan, S. C., Dixon, P. G., Kalkstein, A. J., & Allen, M. J. (2021). “Recent Trends in Heat-Related Mortality in the United States: An Update Through 2018.” Weather, Climate, and Society, 13(1), 95–106. DOI: 10.1175/WCAS-D-20-0083.1.
??7?Barreca, A., Clay, K., Deschênes, O., Greenstone, M., & Shapiro, J. S. (2016). “Adapting to Climate Change: The Remarkable Decline in the U.S. Temperature-Mortality Relationship over the Twentieth Century.” Journal of Political Economy, 124(1), 105–159. DOI: 10.1086/684582.
?8???????????????
?9?Fujibe, F. and Matsumoto, J. (2023). “Long-Term Change in Heat-Related Excess Mortality in Japan.”

Geographical Review of Japan Series B, 96(2), 41–49. DOI: 10.4157/geogrevjapanb.96.41.
?10?Sera, F., Hashizume, M., Honda, Y., et al. (2020). “Air Conditioning and Heat-related Mortality: A Multi-country Longitudinal Study.” Epidemiology, 31(6), 779–787. DOI: 10.1097/EDE.0000000000001241.
?11?Vicedo-Cabrera, A. M., Sera, F., Guo, Y., et al. (2018). “A Multi-country Analysis on Potential Adaptive Mechanisms to Cold and Heat in a Changing Climate.” Environment International, 111, 239–246. DOI: 10.1016/j.envint.2017.11.006.
?12????????????????????????7?2025??3????????????

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G7??????????????????????????????

?? ? · Saturday, June 27th, 2026



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ESG??????SpaceX???????????IPO????

?? ?? · Thursday, June 25th, 2026



francescoch/IStock

SpaceX?????????????????

2026?6?11??????????????????MSCI????????SpaceX????ESG???????CCC????????????????????????????
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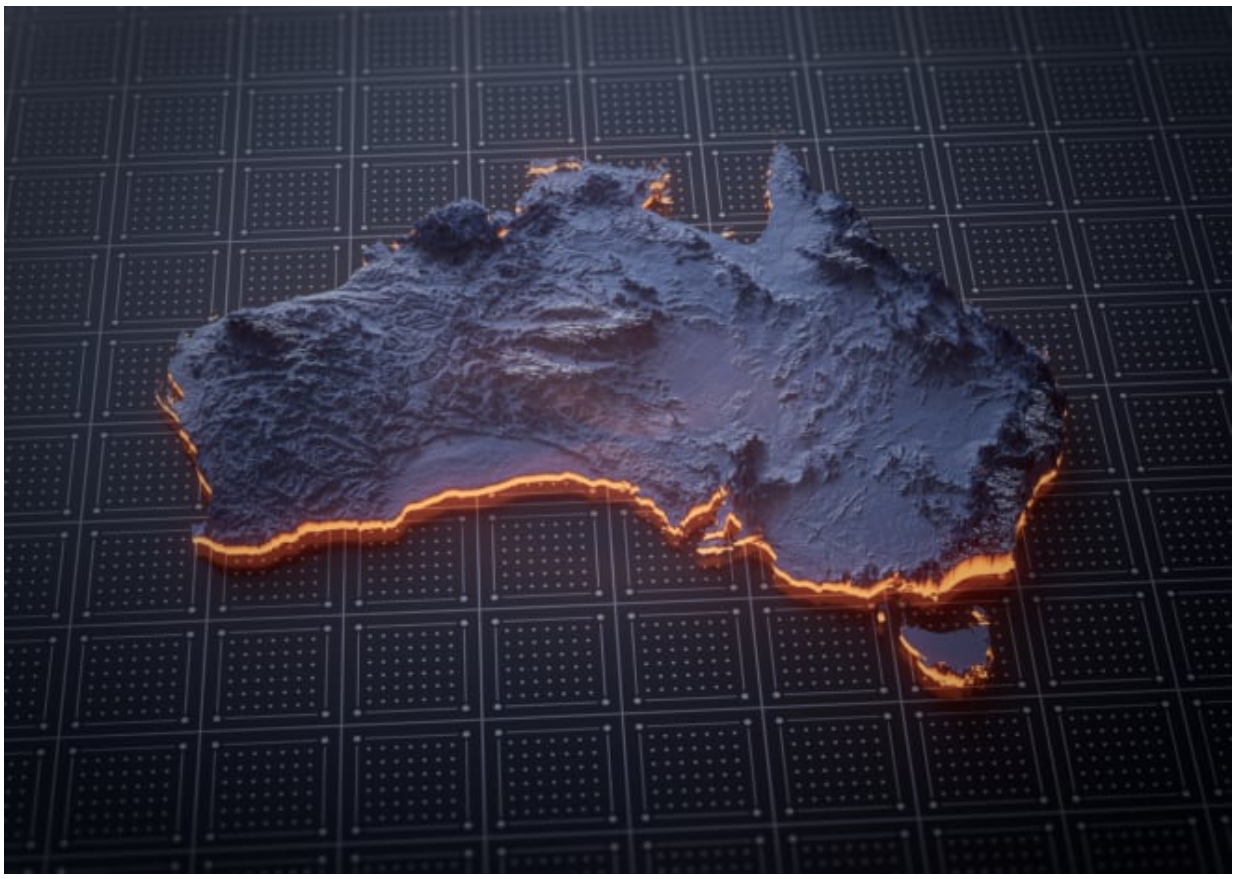
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?? ?? · Wednesday, June 24th, 2026



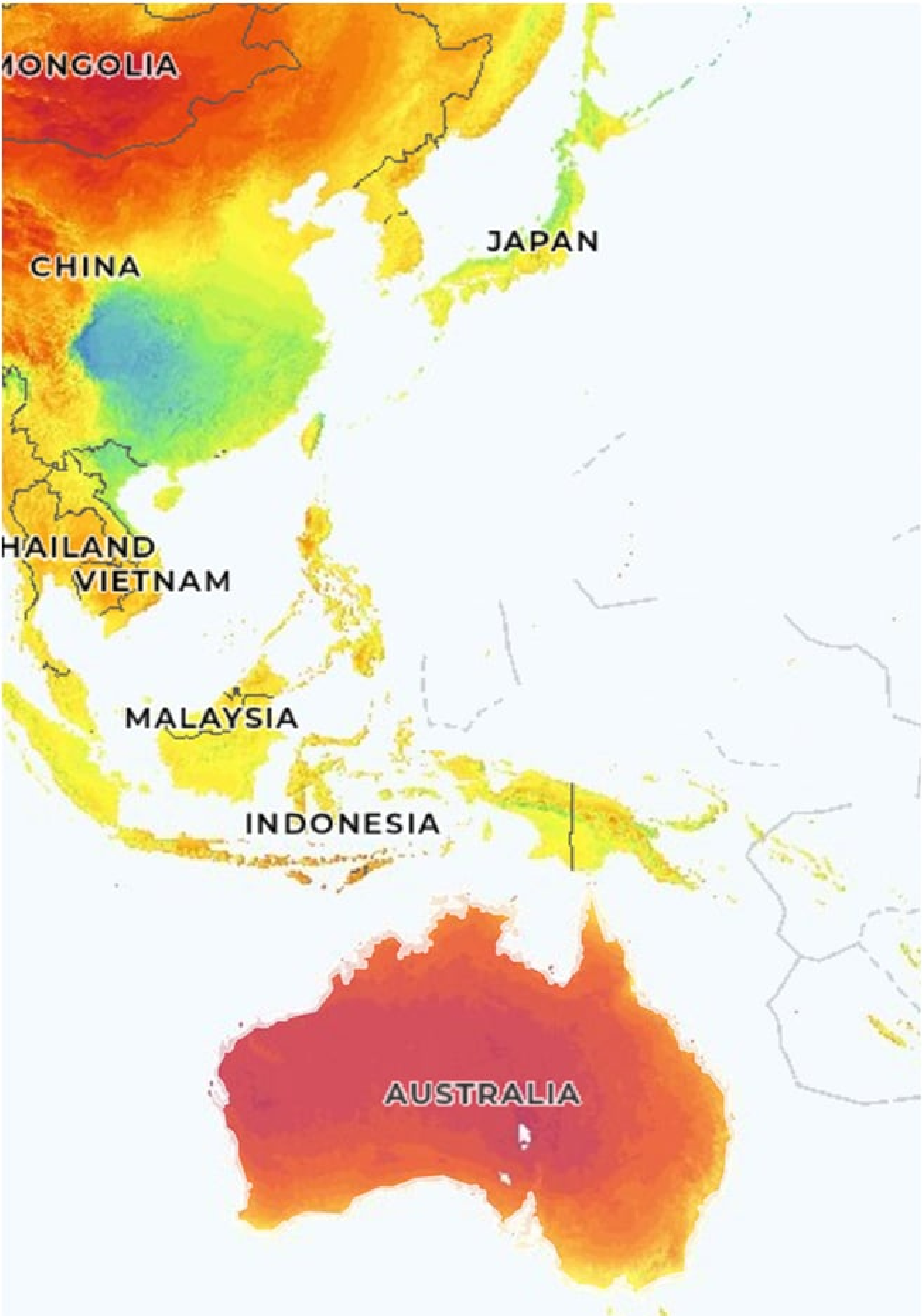
Hammad Khan/iStock

??7?????????????2040?????????????2013???73%??????
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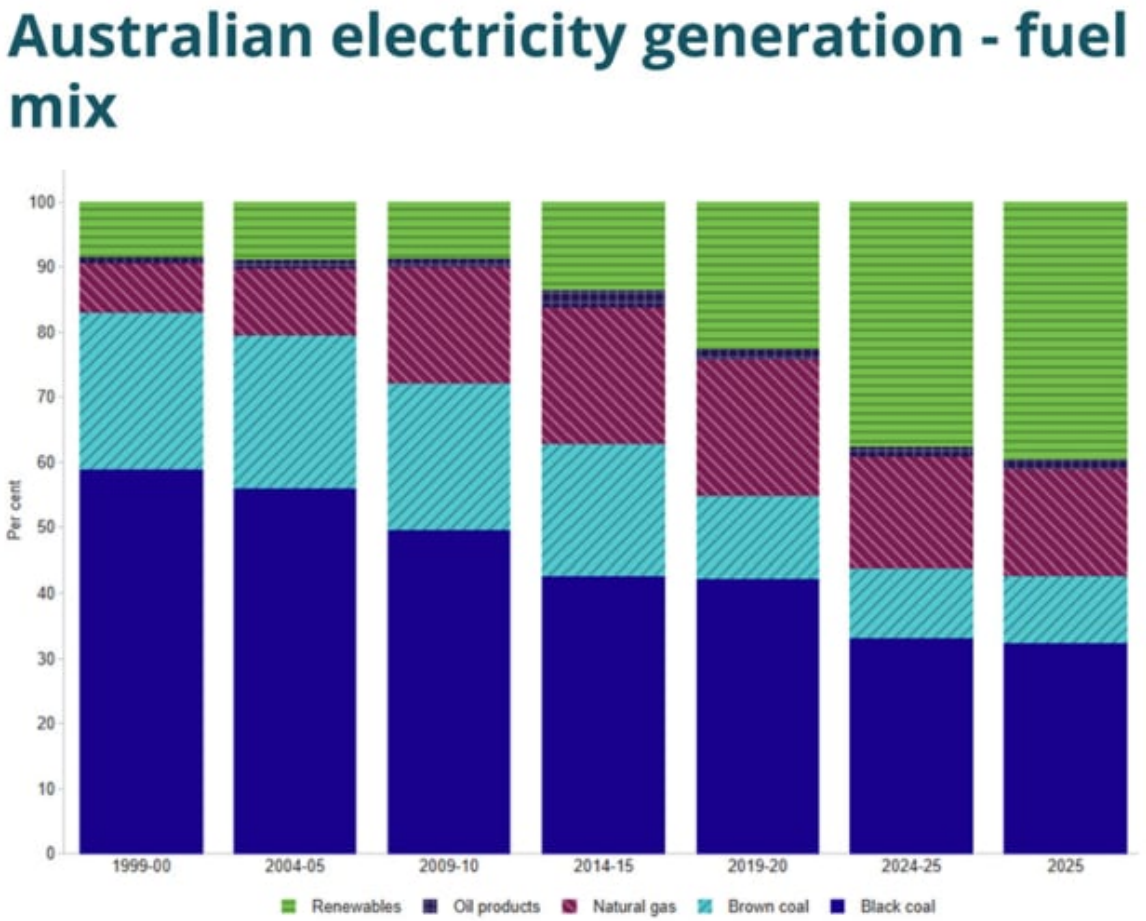
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The figure shows Australian electricity generation fuel mix in shares from 1999-2000 to 2024-25 and calendar year 2025. Fossil fuels contributed 60.5% of total electricity generation in 2025, including coal (42.7%), gas (16.2%) and oil (1.7%). Coal's share of electricity generation continued its long-term decline while the share of gas-fired generation was lower due to increased generation from renewables. Renewables contributed 39.5% of total electricity generation in 2025.

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2007-08	10.7????/kWh
2018-19	17.2????/kWh
2020-21	15.1????/kWh

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S?P?ESG??????????

?? ?? · Wednesday, June 24th, 2026



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S&P Global S&Pグローバルを探る 検索 支援

サステナブル1 解決策 研究と洞察 私たちが仕える相手 イベント 我々は誰か 専門家に相談してください

シェブロン社ESGスコア

S&PグローバルESGスコアは業界を超えて比較することはできません。これは、同じ業界分類内の同業他社と比べた企業の持続可能性パフォーマンスを測定します。詳しくはこちら

会社	産業	CSAスコア	ESGスコア	スコア・アンダー・レビュー	最終更新
シェブロン・コーポレーション	OGXオイル&ガス・アップストリーム&インテグレート	26	28	いや	2026年5月25日


S&P Global S&Pグローバルを探る 検索 支援

サステナブル1 解決策 研究と洞察 私たちが仕える相手 イベント 我々は誰か 専門家に相談してください

エクソンモービル社ESGスコア

S&PグローバルESGスコアは業界を超えて比較することはできません。これは、同じ業界分類内の同業他社と比べた企業の持続可能性パフォーマンスを測定します。詳しくはこちら

会社	産業	CSAスコア	ESGスコア	スコア・アンダー・レビュー	最終更新
エクソンモービル・コーポレーション	OGXオイル&ガス・アップストリーム&インテグレート	29	33	いや	2026年6月1日


S&P Global S&Pグローバルを探る 検索 支援

サステナブル1 解決策 研究と洞察 私たちが仕える相手 イベント 我々は誰か 専門家に相談してください

バレロ・エナジー・コーポレーション ESGスコア

S&PグローバルESGスコアは業界を超えて比較することはできません。これは、同じ業界分類内の同業他社と比べた企業の持続可能性パフォーマンスを測定します。詳しくはこちら

会社	産業	CSAスコア	ESGスコア	スコア・アンダー・レビュー	最終更新
バレロ・エナジー・コーポレーション	OGR石油・ガス精製・マーケティング	37	41	いや	2026年4月7日


S&P Global S&Pグローバルを探る 検索 支援

サステナブル1 解決策 研究と洞察 私たちが仕える相手 イベント 我々は誰か 専門家に相談してください

中国石油化工集団企業のESGスコア

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会社	産業	CSAスコア	ESGスコア	スコア・アンダー・レビュー	最終更新
中国石油化工集団企業	OGXオイル&ガス・アップストリーム&インテグレート	43	46	いや	2026年2月11日

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LONGi Green Energy Technology Co., Ltd. ESG Score

The S&P Global ESG Score cannot be compared across industries. It measures a company's sustainability performance relative to peers within the same industry classification. Learn mor

Company	Industry	CSA Score	ESG Score	Score Under Review	Last Updated
LONGi Green Energy Technology Co., Ltd.	SEM Semiconductors & Semiconductor Equipment	72	72	NO	June 12, 2026

Jinko Solar Co., Ltd. ESG Score

The S&P Global ESG Score cannot be compared across industries. It measures a company's sustainability performance relative to peers within the same industry classification. Learn more

Company	Industry	CSA Score	ESG Score	Score Under Review	Last Updated
Jinko Solar Co., Ltd.	SEM Semiconductors & Semiconductor Equipment	78	78	NO	October 01, 2025

Trina Solar Co., Ltd. ESG Score

The S&P Global ESG Score cannot be compared across industries. It measures a company's sustainability performance relative to peers within the same industry classification. Learn more

Company	Industry	CSA Score	ESG Score	Score Under Review	Last Updated
Trina Solar Co., Ltd.	SEM Semiconductors & Semiconductor Equipment	64	64	NO	January 09, 2026

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> Xinjiang Daqo New Energy

> Xinjiang East Hope Nonferrous Metals
> Xinjiang GCL New Energy Material Technology
> XPCC?Xinjiang Production and Construction Corps?
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> ??????Xinjiang???????????????????

UFLPA Entity List | Homeland Security

Hoshine Silicon Industry Co., Ltd. ESG Score

The S&P Global ESG Score cannot be compared across industries. It measures a company's sustainability performance relative to peers within the same industry classification. Learn mor

Company	Industry	CSA Score	ESG Score	Score Under Review	Last Updated
Hoshine Silicon Industry Co., Ltd.	CHM Chemicals	19	19	NO	June 12, 2026

Xinjiang Daqo New Energy Co.,Ltd. ESG Score

The S&P Global ESG Score cannot be compared across industries. It measures a company's sustainability performance relative to peers within the same industry classification. Learn more

Company	Industry	CSA Score	ESG Score	Score Under Review	Last Updated
Xinjiang Daqo New Energy Co.,Ltd.	SEM Semiconductors & Semiconductor Equipment	24	24	NO	June 15, 2026

GCL Energy Technology Co.,Ltd. ESG Score

The S&P Global ESG Score cannot be compared across industries. It measures a company's sustainability performance relative to peers within the same industry classification. Learn more

Company	Industry	CSA Score	ESG Score	Score Under Review	Last Updated
GCL Energy Technology Co.,Ltd.	ELC Electric Utilities	21	25	NO	February 11, 2026

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First Solar, Inc. ESG Score

The S&P Global ESG Score cannot be compared across industries. It measures a company's sustainability performance relative to peers within the same industry classification. Learn more

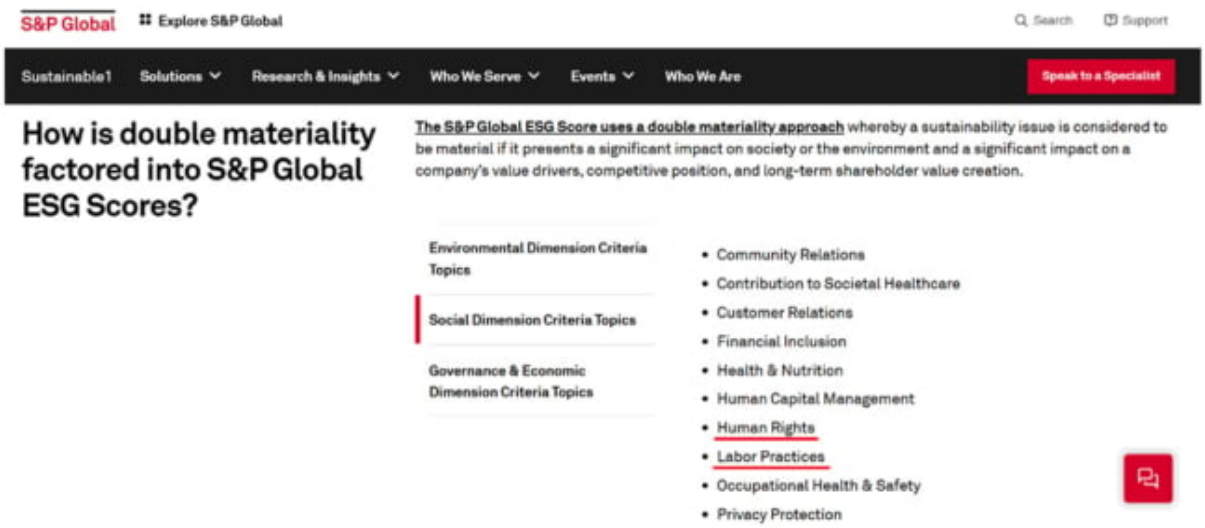
Company	Industry	CSA Score	ESG Score	Score Under Review	Last Updated
First Solar, Inc.	SEM Semiconductors & Semiconductor Equipment	38	44	NO	September 01, 2025

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JFE?46?
Alphabet?32?
Apple?33?
Meta Platforms?24?
Amazon?22?
Microsoft?51?

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?? ?? · Monday, June 22nd, 2026



rudall30/iStock

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発表日	参加国数	代表国	主な内容
2020 年 10 月 6 日	39 か国	ドイツ	・新疆ウイグル自治区での大規模拘禁への懸念 ・香港国家安全維持法による自由の制限への懸念 ・チベットへの自由なアクセス要求 ・国連人権高等弁務官の新疆訪問を要求
2021 年 6 月 22 日	44 か国	カナダ	・新疆での恣意的拘禁への懸念 ・監視社会化と宗教弾圧への懸念 ・香港における民主的自由の後退を批判 ・新疆への意味ある国際調査を要求
2021 年 10 月 21 日	43 か国	フランス	・新疆での大規模拘禁継続への懸念 ・香港国家安全維持法の運用拡大を批判 ・人権擁護者・ジャーナリストへの弾圧を批判
2022 年 6 月 14 日	47 か国	オランダ	・新疆における強制労働への懸念 ・家族分離や宗教的抑圧への懸念 ・女性への人権侵害や強制不妊の指摘 ・国連人権高等弁務官報告書公表を要求
2023 年 10 月 18 日	50 か国	英国	・新疆での「人道に対する罪の可能性」への言及 ・強制労働と文化的同化政策への懸念 ・中国政府に具体的改善措置を要求
2024 年 10 月 22 日	15 か国	豪州	・新疆・チベット・香港の人権問題を継続提起 ・宗教・文化・言論の自由の制限を批判 ・国際人権義務の履行を要求
2025 年 11 月 21 日	15 か国	共同代表	・新疆での強制労働と恣意的拘禁への懸念 ・チベットにおける宗教・文化弾圧を批判 ・香港の自由と法の支配の後退を批判 ・越境的弾圧（Transnational Repression）への懸念

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参加回数	参加国
7回	オーストラリア、日本、リトアニア、英国、米国
6回	アルバニア、カナダ、デンマーク、エストニア、フィンランド、フランス、ドイツ、アイスランド、ラトビア、オランダ、ニュージーランド、ノルウェー、パラオ、スウェーデン
5回	オーストリア、ベルギー、ブルガリア、クロアチア、チェコ、アイルランド、イタリア、リヒテンシュタイン、ルクセンブルク、マーシャル諸島、モナコ、北マケドニア、ポルトガル、サンマリノ、スロバキア、スロベニア、スペイン

7?????????????????????5????????????????????????????????2024??

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2024????2025??

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??2022??????????????UFLPA??

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?? ?? · Friday, June 19th, 2026



TebNad/iStock

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2025?8?????????????????????1??????????????????2021?????11.99?16.49?/kWh??????????????????3???
??500????????????????????????

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??2????????????????
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??2050??????????????
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??2023??AR5??5??????????£44/MWh??????????????????
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Drought??????????2021??????????????????60????????????????????????????????2020?9????????18%??
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??Ossian?3.6GW??????????????
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??BP??

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AR5?2023??????£44/MWh????????????AR6?2024????66%??????£73/MWh??????????????????
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??G7????????????47?/kWh?????CfD??????????????????????
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??ESG????????????????????????????
??????????Ossian???????????FID??????????1.9????????10????????????????????

0.006????????????

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0.006??????GX????10??150??????????????????2??

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??CfD??????????????????????GX
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?? ?? · Thursday, June 18th, 2026



RapidEye/iStock

??2026?4?22??????????????????????????????23?????????????????????S&P????????3?????????ESG????????????????????????????????

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

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> 1??
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> 2??
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> a. ??

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b. ??S&P??IEA??????????????????2050???????????2040????????????????????????

c. ??S&P????????????????????EV??????????????????????????????

d. S&P?S&P?????????ESG??ESG??????????????????????????????

3??

1. ?????ESG??
2. ????????ESG???
3. S&P???????S&P??

4?S&P???????????????????ESG??ESG??ESG???????????????????

5???????15???NRSRO??NRSRO??????????????????????ESG??????????????????UN PRI?????????????????????????????NZFSPA??

6?????ESG??UN PRI?????ESG?????????????????????????ESG??

7????????S&P?????NZFSPA??2050??

8?S&P?S&P??

9??

10????UN PRI??

11????????S&P????NZFSPA????????????????????????????????????

12????UN PRI???????NZFSPA??

13??

1. ???UN PRI????ESG??
2. ???????S&P????NZFSPA??

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3. ??
4. S&P?S&P??
5. ??????????????????S&P???ESG??
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6. ???ESG?????????????????????????????ESG????????????????????????????????
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14??????S&P?ESG??
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15??
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16??????????????????ESG??

17????????2024??Nature???????Kotz?Levermann?Wenz????????????????????????
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18??
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1. ??
2. ??IEA????????????????????????
   2050??????????????????
3. S&P??????S&P??
4. S&P?S&P??

19??

1. ?????ESG??
2. ????????ESG????????????????????????????????????
3. S&P??

20??IEA?
?????????????2050?????????????2040?????????????????????????

21?S&P?S&P??S&P???
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22?S&P?S&P??
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23?????/S&P??
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24??

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> 25???2050?????
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> 1. ??
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>   i.??????????????NRSRO????6??????????????????????
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> 26????ESG??
> ???????????????EBITDA??
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> 27??????????ESG????????????????????????UN
> PRI???????????????ESG????????????????????????????????

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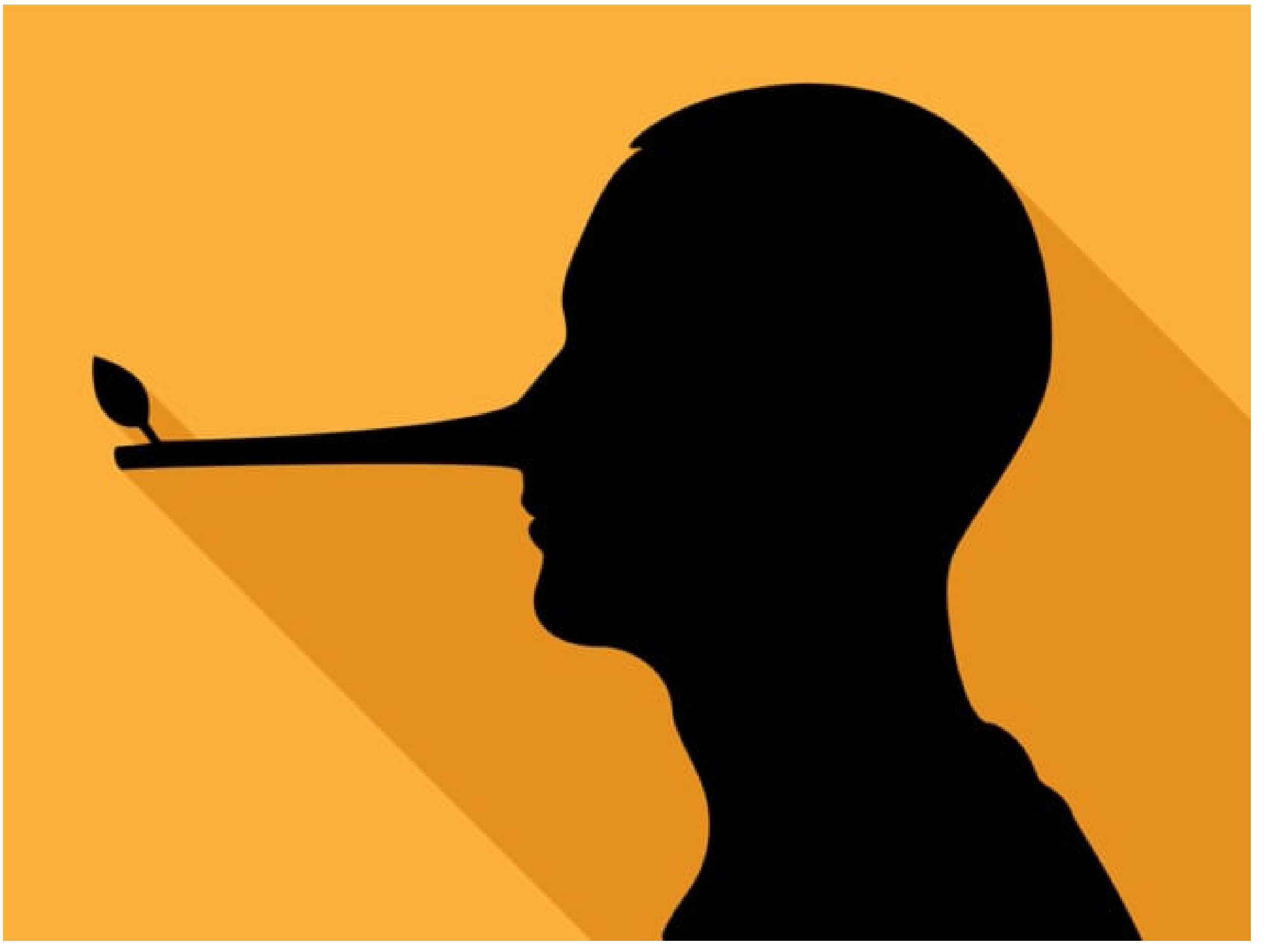
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?? ?? · Tuesday, June 16th, 2026



A Mokhtari/iStock

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

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??CO2????????????????7,000??9,000??????????????????????U.S. Steel??????????????????

????JERA?????????????JAPEX???CO2????????????1.5???2??CO2??????????????????????????3?????????

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1. ???

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?????U.S. Steel	?7,000??9,000???	????????????????????????
??????????????	?1.5??2???	??????????????CO2????
??????????????	?3.0??3.6???	????????????????????????????????????CO2?

2. ??????

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??	??????AI?????????????????9.2GW????NextEra?????????????????????????10GW?????19GW????
????	????????0.435kg-CO2/kWh?
???	??GW × 8.76TWh/GW? × ??? × 0.435Mt-CO2/TWh?

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

???	??CO2??
60%	?4,400???
80%	?5,900???
90%	?6,600???

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3. U.S. Steel

??	CO2??	????
??U.S. Steel Scope 1+2	?2,560???/?	2024??Scope 1?2,283????Scope 2?278??????2,561???CO2e?
??????????	?100??600???/???	????????????????????????????????

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4. ???????

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JERA Haynesville	0.5?1.0Bcf/?	?1,000??2,000???
???? Aethon	2.1?2.6Bcf/?	?4,200??5,200???
????? ?????	1.2?1.4Bcf/?	?2,400??2,800???
JAPEX DJ Basin	5?boe/???	?500??800???
??	—	?8,000??1.1???

??????????1Bcf/?????????2,000???CO2??????????

5. ????????

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??	Texas GulfLink??????????????????100?????????????????????
??????	?0.43??CO2/????
???	100????/? × 365? × 0.43??CO2/????
??CO2??	?1.57???CO2/??
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6. ???????

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

?? ?? · Tuesday, June 16th, 2026



gorodenkoff/iStock

??2026?4?22?????????????????????????????????23??????????????????????S&P????????3?????????
?ESG??????????????????????????????????

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SG???????????????????????????????

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

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3?????????????????????????????????????PRI?NZFSPA??????????????ESG????????????????????????
??????????1?????????????????????????PRI?NZFSPA????????????????????????ESG??????????????
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???????UDAP???????

??ESG????????????????????????????????????UDAP?????
??MBS??
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????????S&P????????ESG????????UDAP?????????????S&P?ESG????????????????????????????????
??S&P????????????????????CPC????????????????????
??????ESG??

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??????????????????????S&P?ESG?????????????28???????33??????41??CPC?46?????????2026?6?7?????CPC????????????
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23???????????????????

1. 90????ESG?????????????????????????????ESG??????????????????
2. 60??????PRI???????????????????????????????????
3. ??????????????ESG???????????????????3?5????????????????????????
4. ESG?????????ESG????????????????????????????????
5. ESG??

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- ??????ESG???????????????? ??
- ESG???????????????????????????????? ??
- 2026??????????? ? 2027???????????????? ??
- Amazon?Apple?GM???????????????????????????? ??
- 2026???????????????? ??

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