

??

??
??

??
??

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

??????????????AI??

??1500????????????????????????????????????9000????????????15?
????????????????²²?

??
??

??????????????????????????????AI????????????????????????????????????

??????AI????????????????????????????????????4????????????10????????????1????????
????????????8????????????????????????????????²³?

????????1????????????????????5000????????²⁴????????????????????????????????
????????????????????????????????1?????????

??
??

??

???AI??

?

?1????????????2026????????????????????????????2027????????????????????????
????????????????
????????????????????
????????????? ??????

?2????????????????????????2025?1?23?

??kW??2030????????1500kW????????????1
????????????6????

?3???National Center for Energy Analysis (NCEA)????????????

?4???????Carbonbrief????????2023????????4740kW????

?



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

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

??

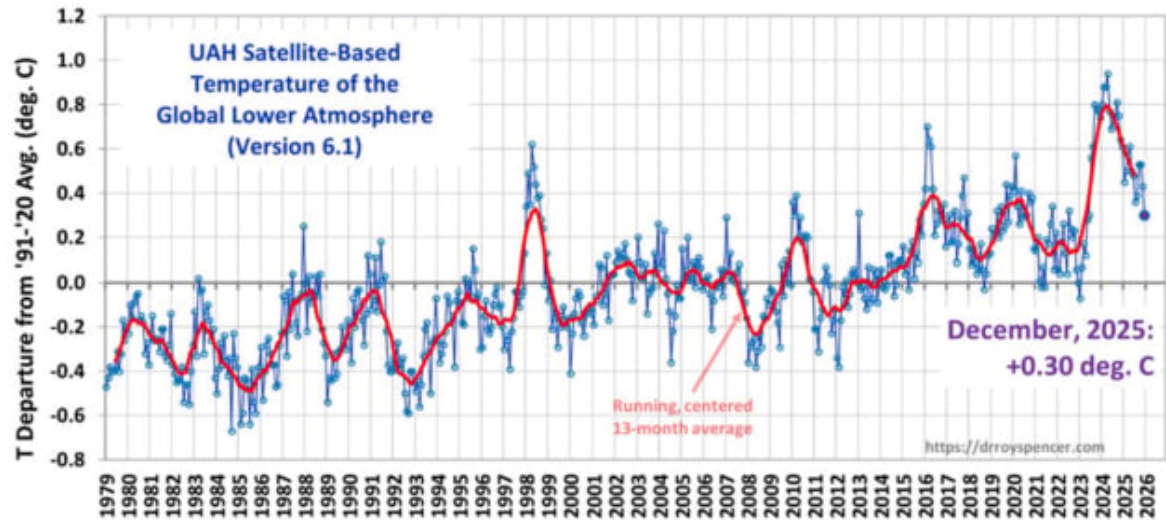
?? ?? · Friday, January 9th, 2026



mesh cube/iStock

2023???24??

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

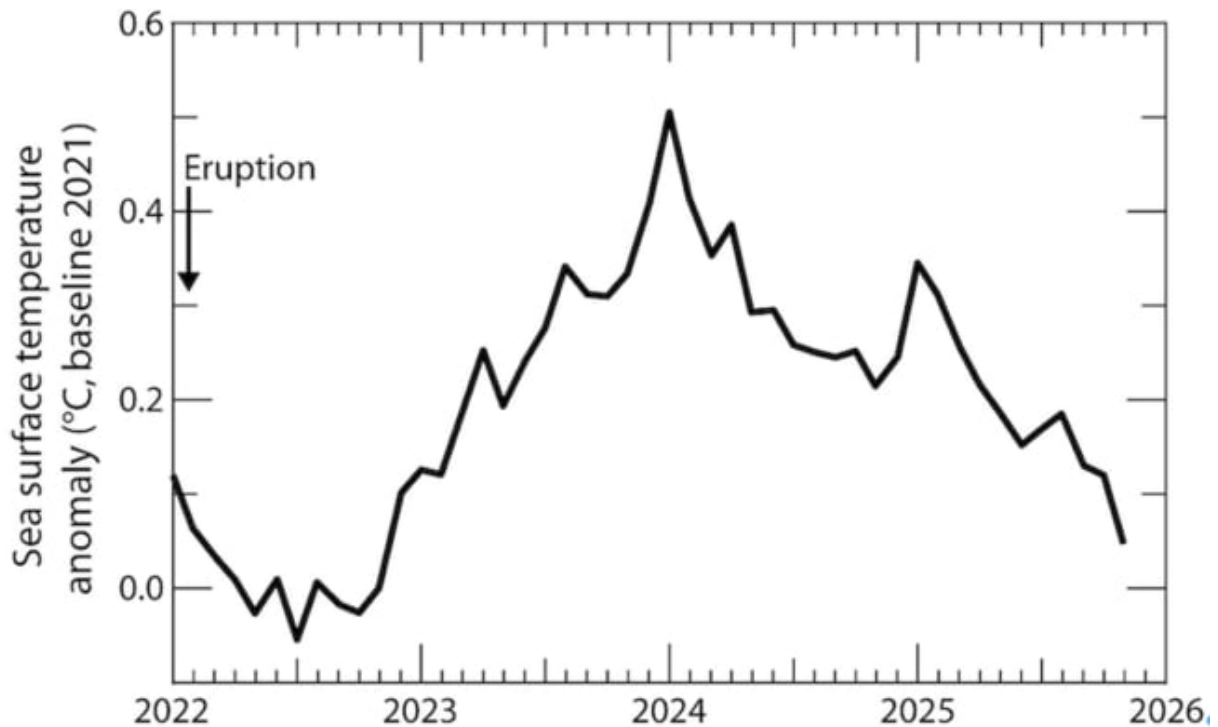


?1????????????????????????LT?

1991-2020????????????2025?12????+0.30????????????13??????

2024??

????????????????????????????2????2024??
 ???????????????



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

????????????NOAA?????60????60????????????2021?????????

?????2022?12????????2025?11????????????

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

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

2023???24????????????2022?1??
 ?????????????????????????????

????????????????????????????5????????????????????????????????

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

??
 ???????

?



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

Posted in ???, ????? | No Comments »

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

?? ?? · Friday, January 9th, 2026

2025????????????????????EU??
 ????

09.01.2026

- HEV????????CO2????????2035????????????
- e-fuel????????????????????????????????
- ?????????????????????????????????

??
?

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

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

?? ?? · Thursday, January 8th, 2026



Halyna Romaniv/iStock

????2026????????GX-ETS????????

2026????????????????????

????CO2????????GX-
ETS??4????????CO2????????????????????
????????????????????????????????????
????????????????

???????GX-ETS????????????????????

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

????2026????GX-ETS????????????????GX-
ETS????????CBAM????????CBAM????????EU????????4%?
??1%????0%????0%????1%??0%????EU????7%??9%??GX-
ETS????400????EU????10%????????

??CBAM?COP30????????CBAM????????

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

???

????????????????GX-ETS????????????????????????????

???

????????????????CBAM????????????

???

????????????????????????CBAM????????

????????????????????CO2????????????????????????GX-
ETS????????????????

?

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

Hamburg rechnet Klimabilanz mit Öfen in Afrika schön, die es nie gegeben hat

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

2025?12?24?

????????????????Atmosfair
????????????????????
????????????2018??2020????100????
????75,000??CO????

???

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

????

??
????????

????

??

??2024????????
??

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

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

??J-
??
??J-
??“?????”????????????????????

??

Verra Rejects Four Forest Carbon Projects In China, Expands Review Of Others

Verra????????????????????4????

2025?12?15?

????????????????Verra??
??Verra?4????????????
??4????????????????????44
2????????????VCU????????

????

Verra????????????????35????????????????????????????????

????

????????Verra????????????VCU????????????????????????

?

Verra????????4????????442????????????????35????????VCU?1,420????????
??

????????????????Verra????????????????

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



2023?5???Verra?CEO?15?????David
Antonioli????????????????Verra????????????CO2????????????
????????

CEO????????????????Verra????????????
???Verra????????????5????????

????????Verra????????90????????????????
????????????????????

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

????????????????????????????????????CBAM????????GX-
ETS????????CO2?????”????”????????

?

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

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

?? ?? · Wednesday, January 7th, 2026



Scharfsinn86/iStock

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

??

??

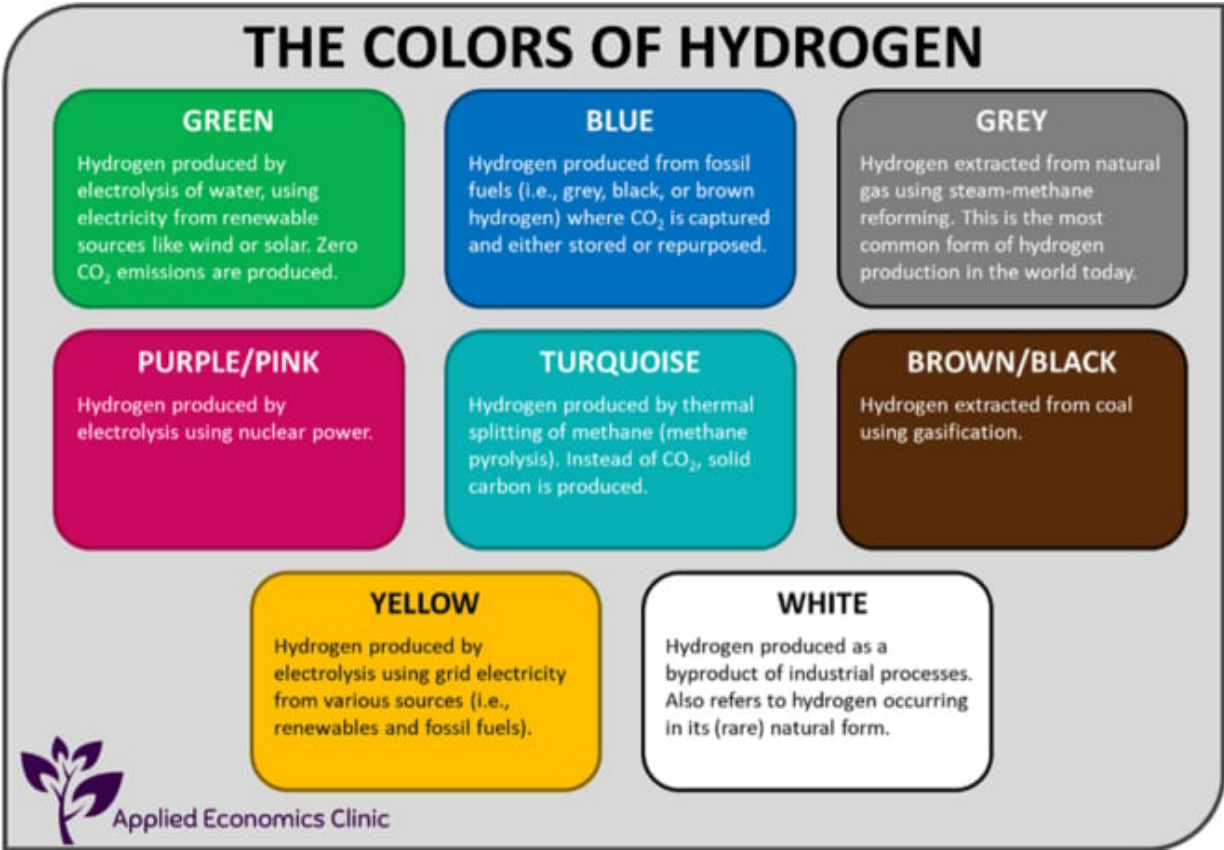
??????????????????

??

??

??
 ?

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



??

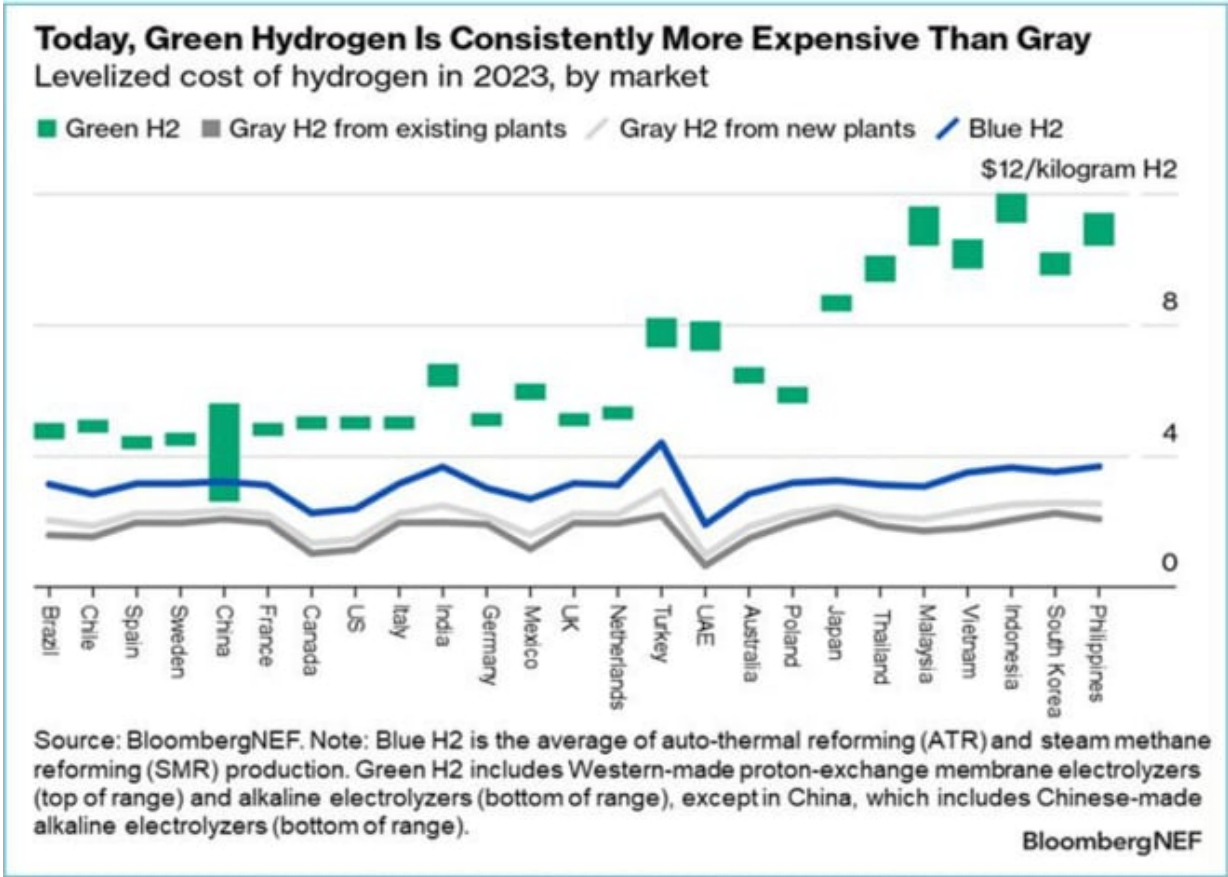
??????????????????

??

????????????????????CO??

??

??CAPEX?????OPEX????????????????????????????????
??



2023??

??2030????30?/Nm³?336?/kg-

H₂????????????2050????20?/Nm³?224?/kg-H₂????????????1???150??????\$2.24?\$1.49/kilogram

H2????

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

??

??

??

??

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

1980??2000??

??

2010??

??

??

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

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

??

??

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

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

??

??

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

??

??

??

??

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

??

?? ?? · Tuesday, January 6th, 2026



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

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

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

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

??

??

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

??
 ??system?
 ??
 ?????
 ??????????
 ???????????

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

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

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

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

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

??

??

??

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

??

??

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

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

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

??

??

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

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

??
???

??

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

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

??

??

??

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

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

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

- ???????????????
- ???????????????
- ?????????????????
- ?????????????????

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

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

????????8700????????

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

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

??????VLS???

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

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

????????????SLBM?VLS????????

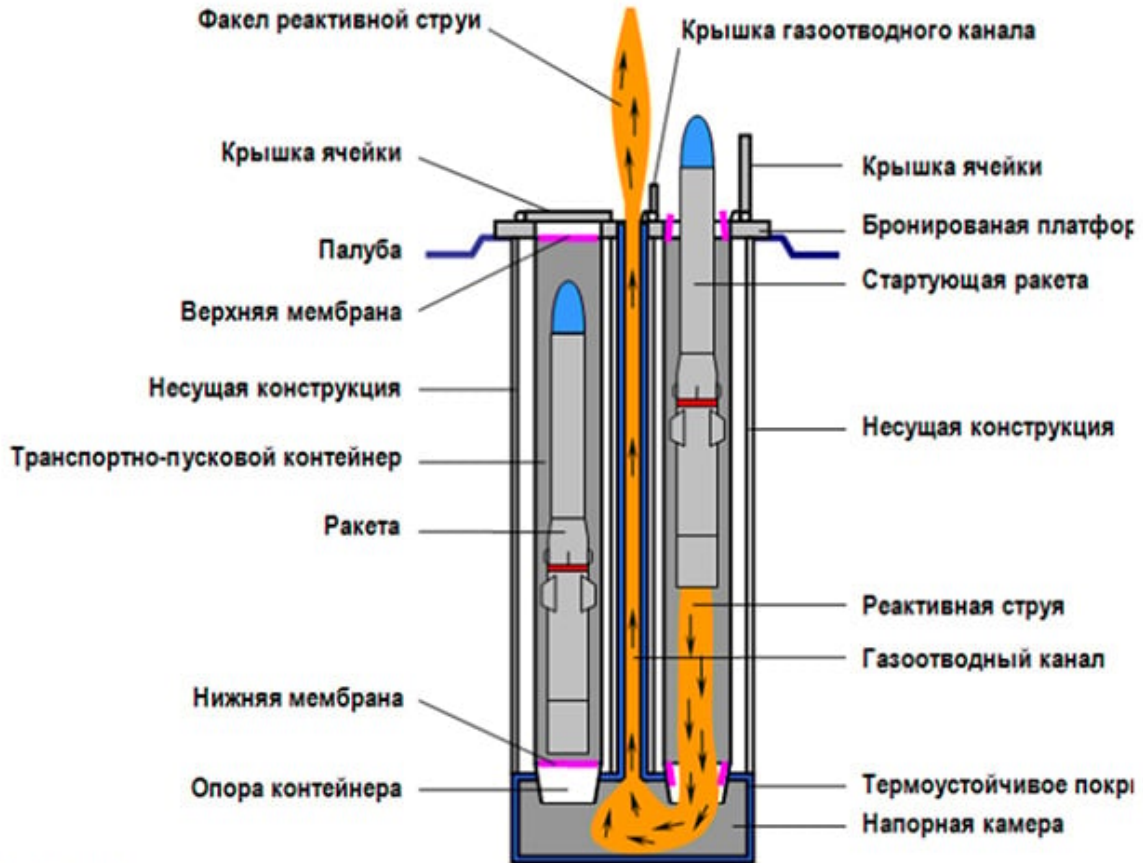
VLS????????????360°????????

????????



????VLS????Mk41?

©Wikipedia



AdmiralHood, vladfotki.narod.ru

Mk41????????????

©Wikipedia

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

??
 ????

??30????????????????????????????QOL????????????
 ??3????????????????????

1960????????????USS????????????????????????????????????84??19??????

????????????????????USS????????2014?1???6????????140????????

2025?7????????????????CSIS????????????????3?????1???2?????????????
??

Lights Out? Wargaming a Chinese Blockade of Taiwan

??
??

??
??

CSIS??LNG?
????10???12????????40???45????????146????????????????????????
??

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

??7????????????????3????????
???????

????????????????????????????????LNG????2????????????LNG????????
????????????????????????????????

??

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

?

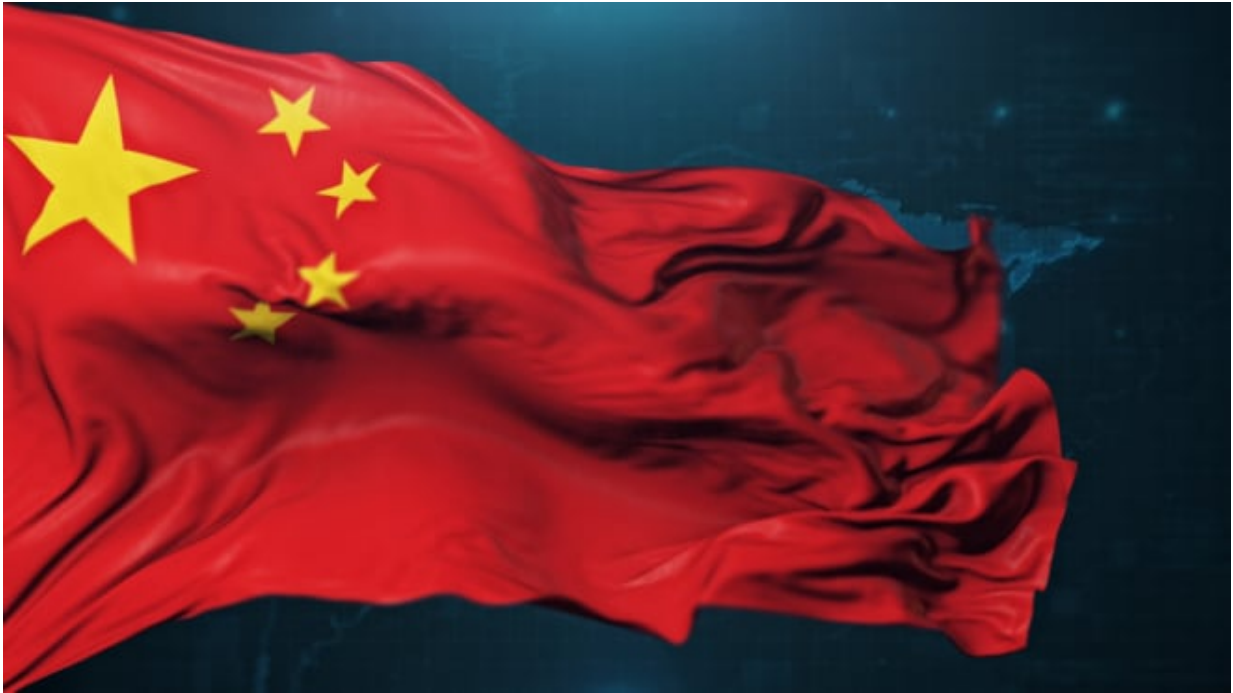


????????????????

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

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

?? ? · Wednesday, December 24th, 2025



da-kuk/iStock

COP30??CCS????????????????????
 ???

??

????????????????????????????????????NGO????????????????????????NGO????????????????????????????
 ???EU??
 ?????????????????????????

??
 ?????????????????????????????????Breakthrough Institute ?”Greenwashing with Chinese
 Characteristics” ???

- ?????2????????????????????IRA??
 ?????????????????????????????IRA??
 ?????????????????????????????????
 ?????????????????????????????????green
 entente??
- ?????????????????????????????????EV????????????????????????????????????
 ???EV????????????
 ???

- ???2024????????????59????????????????????????????
????56??
??LNG????????????????????????????
- EV????????????????????????????????????EV????????????????????????1????????????4????????????
??
????????
- ?????????????????????????????????????EV????????????????????????????????6????????????????????????
??
????????????EU????????????????????
- ?????????????????????????????????????EV??
??
????????????
- ???
????????????????????????????????????
- ???

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

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

?? ?? · Wednesday, December 24th, 2025



metamorworks/iStock

??

??

??4????????C
O2????????????3%??????

??

?



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

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

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

?? ?? · Wednesday, December 17th, 2025

?????????????????????????????????GFANZ????????????????????????????????

??

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



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

[illegible]

Mark Carney's fossil fuel pivot bewilders climate experts and business leaders

??FT????????????????

[illegible][illegible]

?? 2 ????????? ??
 ?????1????100?????????????????????? ?? ?????

[illegible]

??

[illegible][illegible]

???FT????????????????FT??
??

??
??
??

FT????????GFANZ??
??

?



Posted in ???, ????? | No Comments »

????????????????1????????
?? ?? · Wednesday, December 17th, 2025



Supot Sriboonpuan/iStock

????????

???????2027??

?????2027????????????????????????????????????

?

??

????????????????????CFC?HCFC?????HFC????????????HFC???????GWP????????????????GWP?
??R32??

??CO? ?????????????????????

??

1. ??????

??

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

??????

- ????????2.2kW??
- ?????????????

- ???????800?1,000??

??????

- ???R410A?GWP?2,088?
- ???R32?GWP?675?

???????

- ?0.6 kg????????

3. CO???????

??????CO????????CO????????????????????????????????

????

- ?????10?
- ?????????????????25?

????

??	??
???	0.6 kg
GWP??R410A?R32?	1,413
?????	25?
???	$0.6 \times 1,413 \times 0.25 = 212 \text{ kg-CO}_2$

???1?????0.21???CO????????

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

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

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

- ?????????????????????
- ?????????????????????

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

??	??	????????
?????	R410A ? R32	?1,000
????	????????????	5,000?12,000
????????	????????	1,000?3,000

??????????

????????

?500

??????????

????????

1,000?1,500

??

8,500?18,000

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

5. CO??1????????

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

??

??

????

8,500?18,000?

CO???

?0.21 t

????

?40,000?85,000?t-CO?

6. ?????????

????????????????????1????8500??18000??CO2??????4?8.5???t-CO??

????????????????????????????????R410A????????????R32????????????
 ?????????????????????????

??

??

?



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

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

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

?? ?? · Tuesday, December 16th, 2025

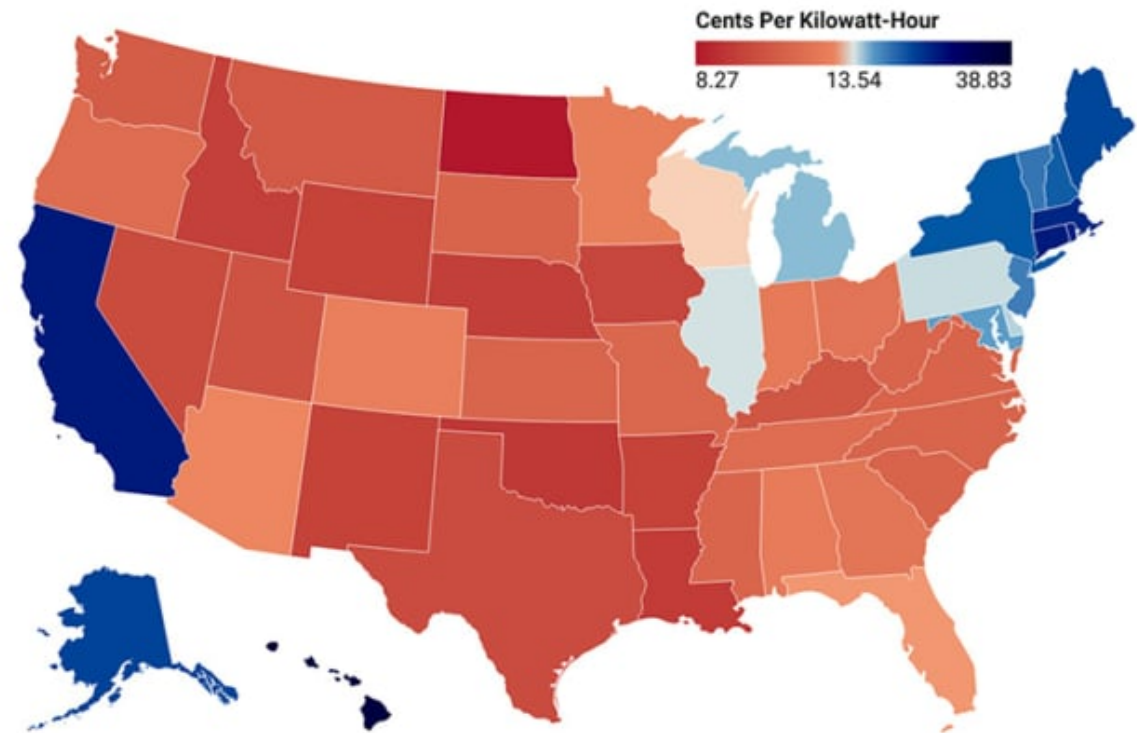


standret/iStock

???Energy Bad Boys??Institute for Energy Research?IER????????????????????

FIGURE 1: STATE ELECTRICITY PRICES VS. U.S. AVERAGE

Blue colors indicate electricity costs are above the national average, red colors show costs are below the national average.



All-Sectors Electricity Prices from the U.S. EIA January 2025 -August 2025
Map: Always On Energy Research and Institute for Energy Research • Source: U.S. Energy Information Administration •
Created with Datawrapper

Figure 1. Liberal states tend to have higher electricity rates than conservative states, largely due to state energy policies.

??

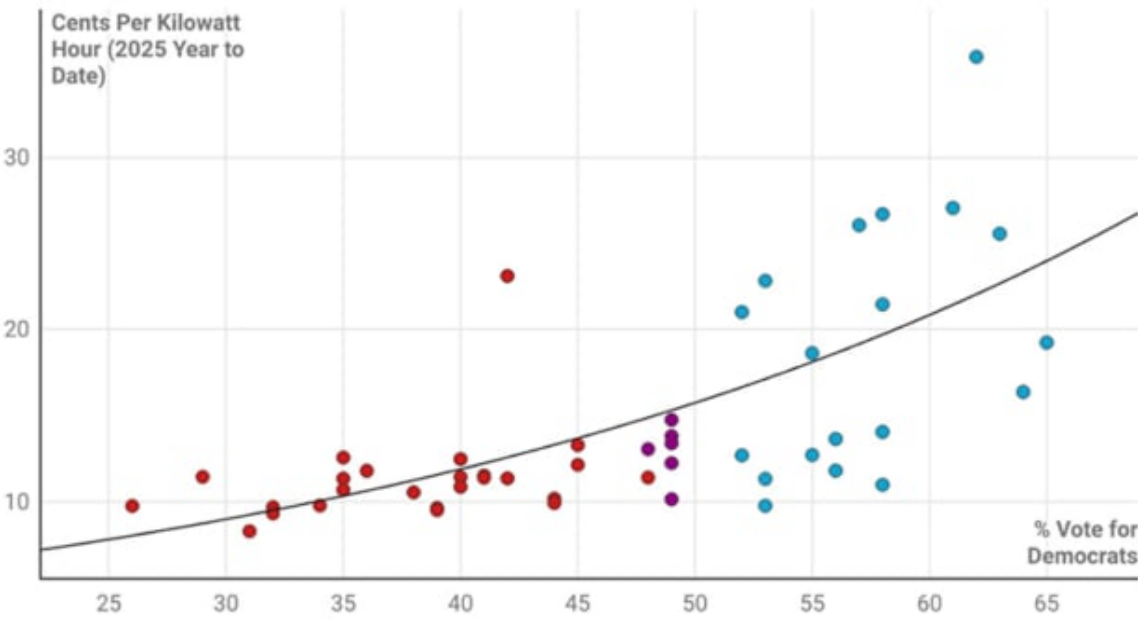
??

??

??

??????????

Electricity Prices Based on Average Percentage Votes for Democrats in Last Two Presidential Elections



Created with Datawrapper

????????????????????2????????????????????????????????????50????????????????????????????????????
????????????????????????????????????

??

??

??

?

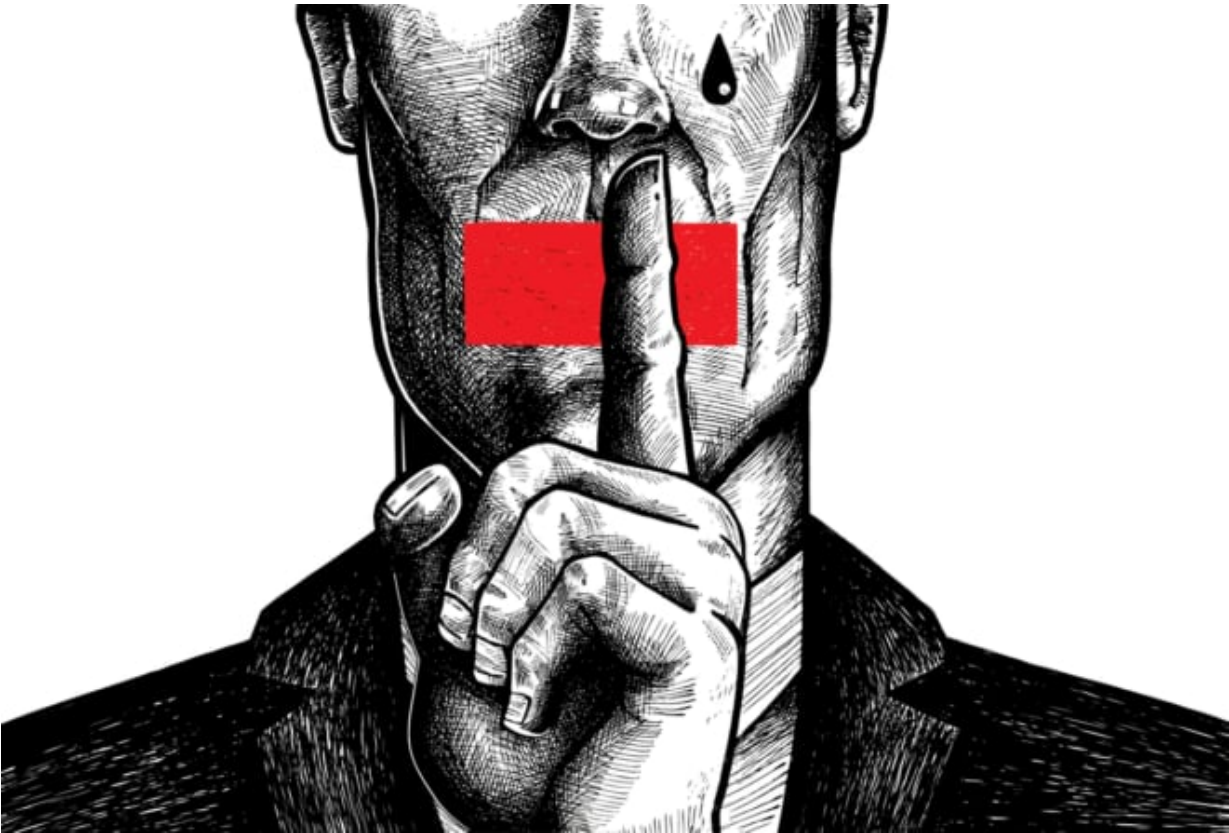


????????????????????

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

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

?? ?? ? · Monday, December 15th, 2025



Man_Half-tube/iStock

????????“????”

2025?10?23????N????????????????????????4????????

?????72????????????????????????????2018??
?

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

??1????????X??10????????

??

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

????????????2????2024?1????taz????????AfD????????????????????X??De
utschland
erwacht????????????????????“wake”????????????????????
????????????

????????taz?????“wake”?????“Deutschland
erwache!”????????????????????????????????

??taz????????????????
??
????????????????????

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

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

????????????????????????X????????????????????????

??
??
??

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

??1????????1
2????????X????????????????????????????????
????

????????

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

????????????????????????????????????1????1
00????????

2021????????????45????4????

????????YouTube????????????
????????

????????

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

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

?????2027????????????????????

?? ?? · Monday, December 15th, 2025



Pavel Vorobev/iStock

??????2027????????????????

??????2027?????2????????????????????

??2????????????????????10????????????????20????????????
 ???

??

????????????????ChatGPT 5.2??2???????

????????????10??1????????????????17?

??10???2.8kW????????????1????????????

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

- 2027????????????????87????????
- 2027????????????????100????????

??????

????????????12.5????JIS????????????????????167kWh????????EP????????????B????????
 ?????????????????????7,200????????????17????????1??

17????????????????????10?15????????????????????????????????????

?1????????10??? ????????

??	???????	???????	?????
???????	115,280?	239,800?	?? 124,520?
???????	913 kWh/?	746 kWh/?	? 167 kWh/?
????????EP?			43.06?/kWh
???????			?7,191?/?
??????			?17.3?

????????????????????160?

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

- ????9??????9???????
- ?????

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

????????????????6????????????????????JIS????????????????????????????????34 kWh??????

????????????????????????1????????????????????????????900????????????????????1 58???160????????????????????????????2??

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

??	????	????	?????
???????	90,640?	230,899?	?? 140,259?
????????JIS?	717 kWh/?	594 kWh/?	? 123 kWh/?
??????			0.278*
??????			?34 kWh/?
??????1?????			26.08?/kWh
???????			?887?/?
??????			?158?

?

????????????JIS??????1?18????????????3????10????????????????????1????????5????JIS????0.28? 5/18????????????????????

???????10????????????

17????????160????????????????????????????????????

- ?????????????????????
- ?????????????????????

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

??

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

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

??
?

?



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

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

????????20????????????????????

?? ?? · Friday, December 12th, 2025



sankai/iStock

????

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

????CO??WSJ????????????????????????????2005???30?????????
 ?????17????????????????????

??WSJ????????????????????20????????????????????
 ?????????????????????????????????

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

????????WSJ??28????????????????????EU??????
 ?????????2????????5????????????

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

??AI?????
 ?????????????????????????????????

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

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

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

??
??

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

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

?????CO??
??

??

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

??

??Just Stop
Oil??

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

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

????????????????????????????????????2050????????????????????????????????FIT?FIP????????
????????????????????????????????????

??
????????????????AI????????????????????????????????????

??

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

????????????CO????????????????????????????????CO????????????????????????????
????????????????????

??AI????????
????????????????????????????????

??

????

?????20????????CO????????????????????????????????AI????????
????????????????

??

??

GPIF?ESG????????NGFS????????????

An illustration showing a large hand in a dark suit sleeve holding a circular sign with a red border and a diagonal red line over a black hand icon. In the background, a small figure of a man in a suit stands on a flat surface, looking up at the sign.

[illegible]

??

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

Jr.??OECD????????????????????????????????
??NGFS????????CO2??
NGFS??

??NGFS????????????????????ESG??????????????

2025 GPIF ?????????????????? ESG ???????????

GPIF?2024????????????????????????????????4????????NGFS Phase 4
Scenarios????????????????????2023??
GPIF????????????3????????????4????? Net Zero
2050????????PnL????????4????????????????

MUFG?Climate Report????????2025

????????NGFS????????????????????Net Zero 2050?Delayed
Transition?Current Policies????????????

????????TCFD?TNFD???? 2024

????????????????????????????NGFS????????MSCI????Climate Value-
at-Risk (CVaR)????????
??
??

SOMPO???????? ?????????2024

??NGFS????????
??MSCI????Cl
imate Value-at-Risk?CVaR????????????????

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

??GPIF????????????????????ESG????????????????????
????????

GPIF????????????????

GPIF??ESG????????????????????
???

???

GPIF??

??ESG??ESG??
??

Rachel Reeves hit with urgent warning as Sweden’s pension disaster exposes huge ‘danger’ in her plans

??

???

??
??

Sweden’s pension disaster rings alarm bells for Reeves

????????????????????????????????AP????????AP2????????????????14?6000????????????1?
1770????????????

????????????5?8000??
????????????????1?9300??

????????????????????????????????CSE????????????WTO????????????AMF??
????????????????19????????????????

???

??
??

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

?

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

????????????????“????”???????

??? ?? · Thursday, December 11th, 2025



Stadtrate/iStock

2025?11?29?blackoutnews????????????????600????????????????

????????????????11?16??
?

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

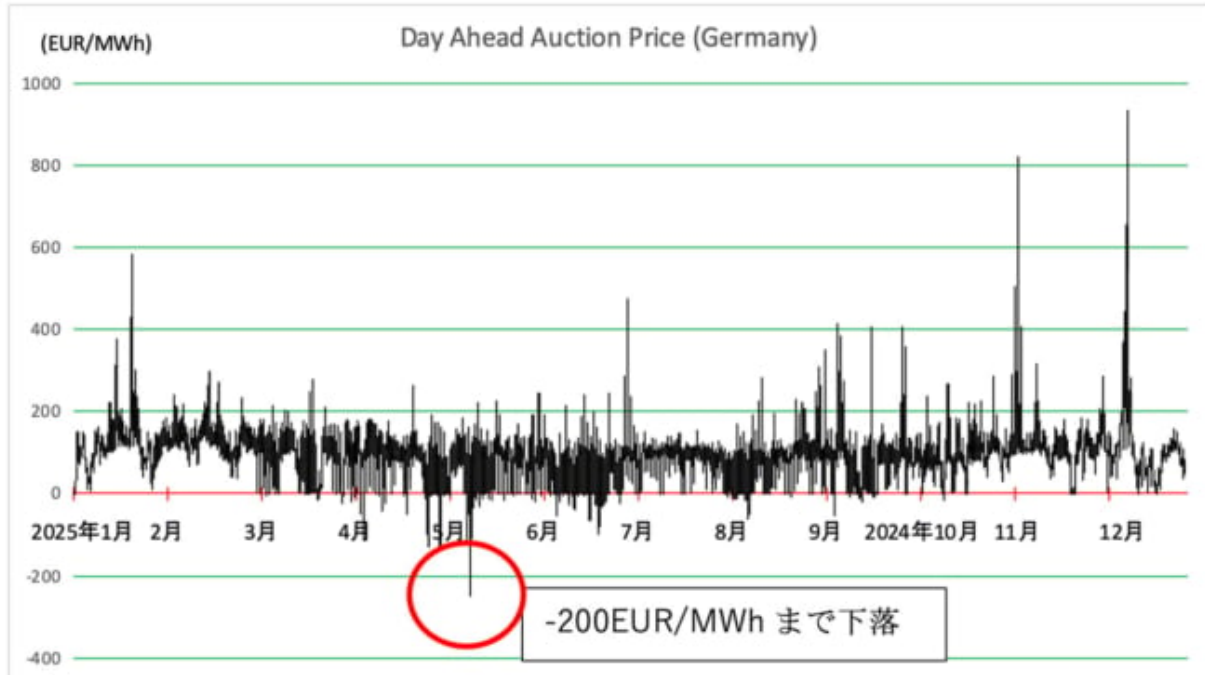
??????

????????????????????600????????????????????????????????????
??
??
??
????????????????

??
??
??
??

????????“600??”????

?1??2024?10??2025?9???1????????????????????????????????????150EUR/MWh????????????3???9
 ?????????????????????????????



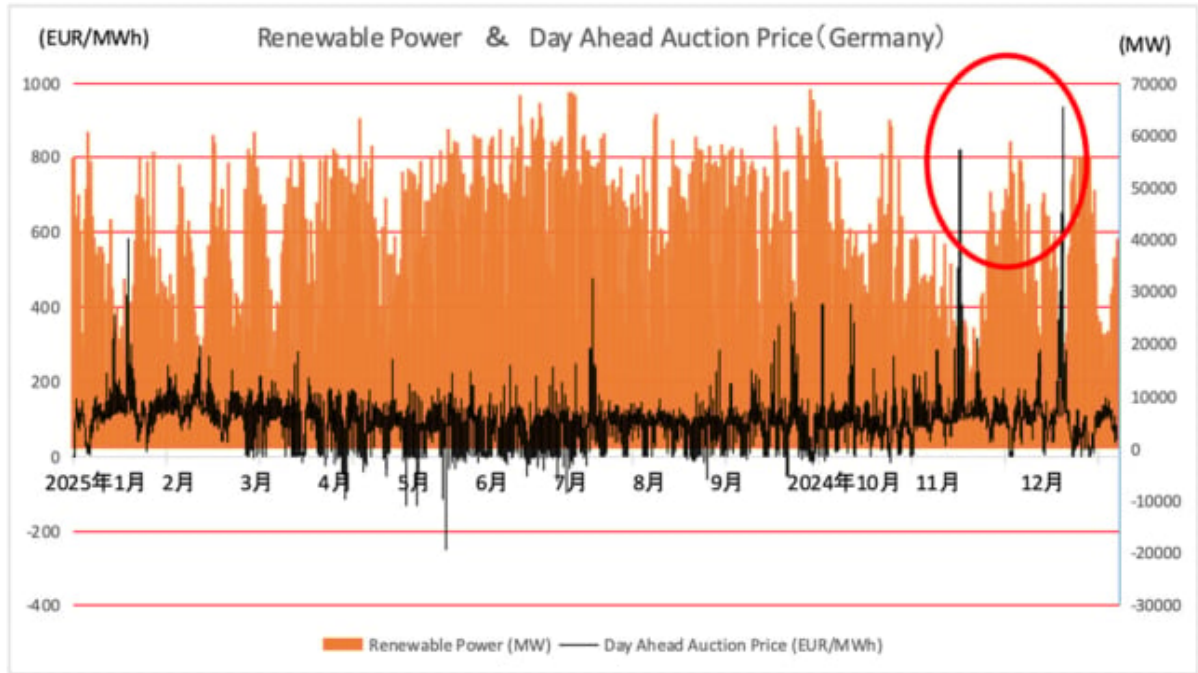
?1????????????????2024?10??2025?9??

????5?11??12??15????????????????????????????????-200
 EUR/MWh????????1????????????????????????????569????????

????????????????????600????????????????????????????

??
 ?????????????????????70EUR/MWh????????????????????“????????”??????

????2????????????renewable power????????????????????????



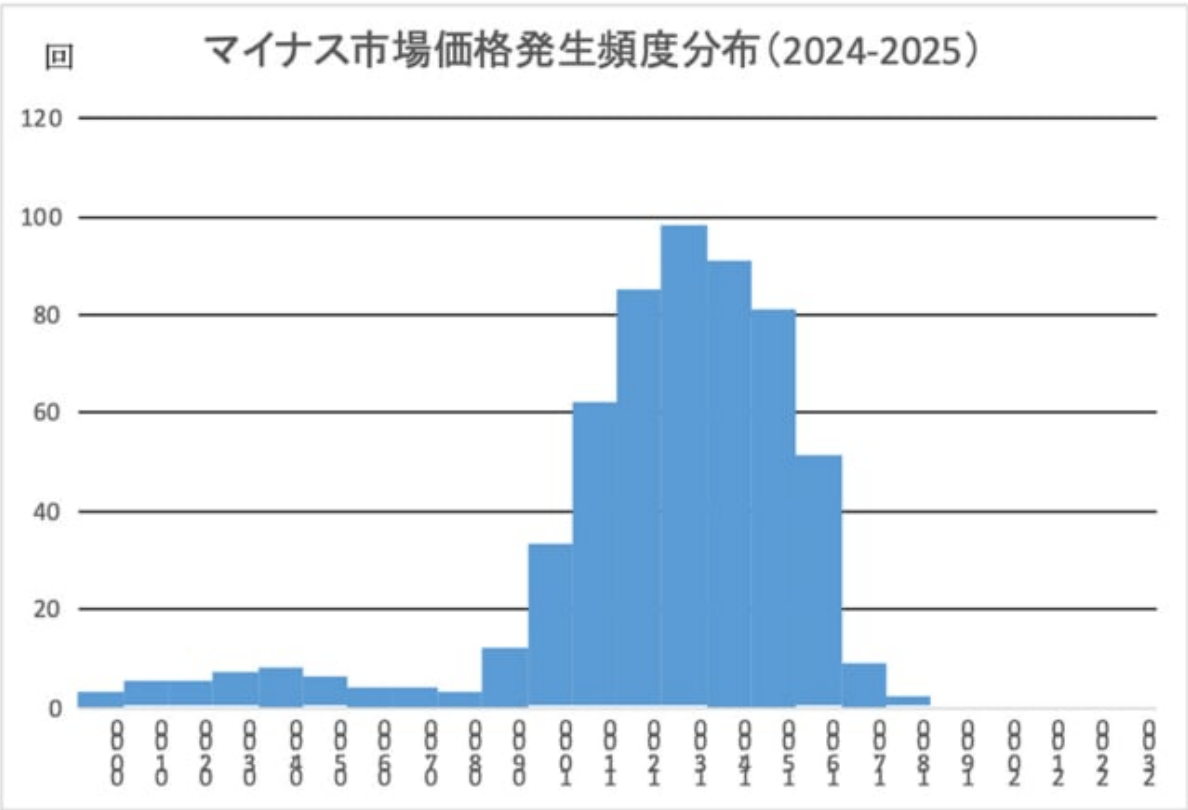
????????????????

4??9????????????? renewable power????????????????????????????????11??12??renewable power??

??
LNG??800EUR/MWh????????????????????????????
??????

“????”????????????

??
??3????



3??????????

????????????????11?15??

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

?????????????—??????????

??

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

11?15??11?15????????????????????????????????

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

??

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

??

??

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

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

?? ?? · Wednesday, December 10th, 2025



Sunshine Seeds/iStock

????????????????????33??

??AI?????????
??

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

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

??
??AI
??
??
????????????????????????????????????

Energy Dominance – Restoring American energy dominance (in oil, gas, coal, and nuclear) and reshoring the necessary key energy components is a top strategic priority. Cheap and abundant energy will produce well-paying jobs in the United States, reduce costs for American consumers and businesses, fuel reindustrialization, and help maintain our advantage in cutting-edge technologies such as AI. Expanding our net energy exports will also deepen relationships with allies while curtailing the influence of adversaries, protect our ability to defend our shores, and—when and

where necessary—enables us to project power. We reject the disastrous “climate change” and “Net Zero” ideologies that have so greatly harmed Europe, threaten the United States, and subsidize our adversaries.

??

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

??

??
??

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

??AfD????????????
??UK????????????????

??
??

??AI????????????????????????????
??

??
??

??

?



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

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

??

?? ?? · Sunday, December 7th, 2025



wildpixel/iStock

9?5????????????????????????????????????

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

????????????????2100?????GDP?6?????????????
2024????2????????

??
??

?????????
Jr.??OECD????????????????????????????????????NGFS?????
???CO2??NGFS????????????????
????????????

??
????????GDP????2???6????????????????????????????????????

?????????????“?????”??

????????????????????NGFS??2026????
????????????????

??
???NGFS????????????

??
?

?



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

Posted in ???, ????? | No Comments »

COP30??????????

?? ?? · Saturday, December 6th, 2025



COP30??????

COP30??1????????????4?5????????COP????????????
??NGO????????????????????
??

?????1????????????????????????3??11?16?19????????????????????????????????

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

???11?16????????????????????COP??
??COP????????????????
??

?????????11?20??
????????????????????????

??
????????????????????????COP??COP????????“Least
Inclusive”????????COP????????????????

??????“????”????????

??COP30??

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

COP30????????10????1.5????

????COP30????????????????????????????????COP????

????????????1????????????????????????????????????2017?21?
????????????2020?11????1????????3?????^{21?}?????????
????COP????????????????????

????????1????????1????????COP30?????????
????3??COP33?4????

????????COP????????????????????????????
?????^{22?}????????????????????????????

????????USCIB????????COP????????
????????

????????COP????????????????????
????????

EU????????

????????COP??1.5????????????E
U????????

????????EU????????
????????
????COP30????????

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

CBAM????EU?“?”

??EU????1??EU????CBAM?????
????????EU?????
OP????

????2028??3????28????COP????
????

C B A M ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? B u s i n e s s
Europe????CBAM????????????????????COP????
????WTO????WTO????CBAM????COP????
????COP????CBAM?COP????

EU??????????10?????

???????COP????????????????????EU??
?????????CBAM???COP??3????????????
???

?EU??
?EU?????????COP??

??????????10??

?

?1????????????2019??11????????????????1????????????????2020?11????
?2??

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

???? vs ?????????????????????

?? ??? · Thursday, December 4th, 2025



Trifonov_Evgeniy/iStock

????

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

????????????????????????????????OMUR?Organic Material Underground Resources????????????

??50????????130????????????????????

??
??

??20????????????????2030?2050????????????7??
??

??
??

??
??

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

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

??

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

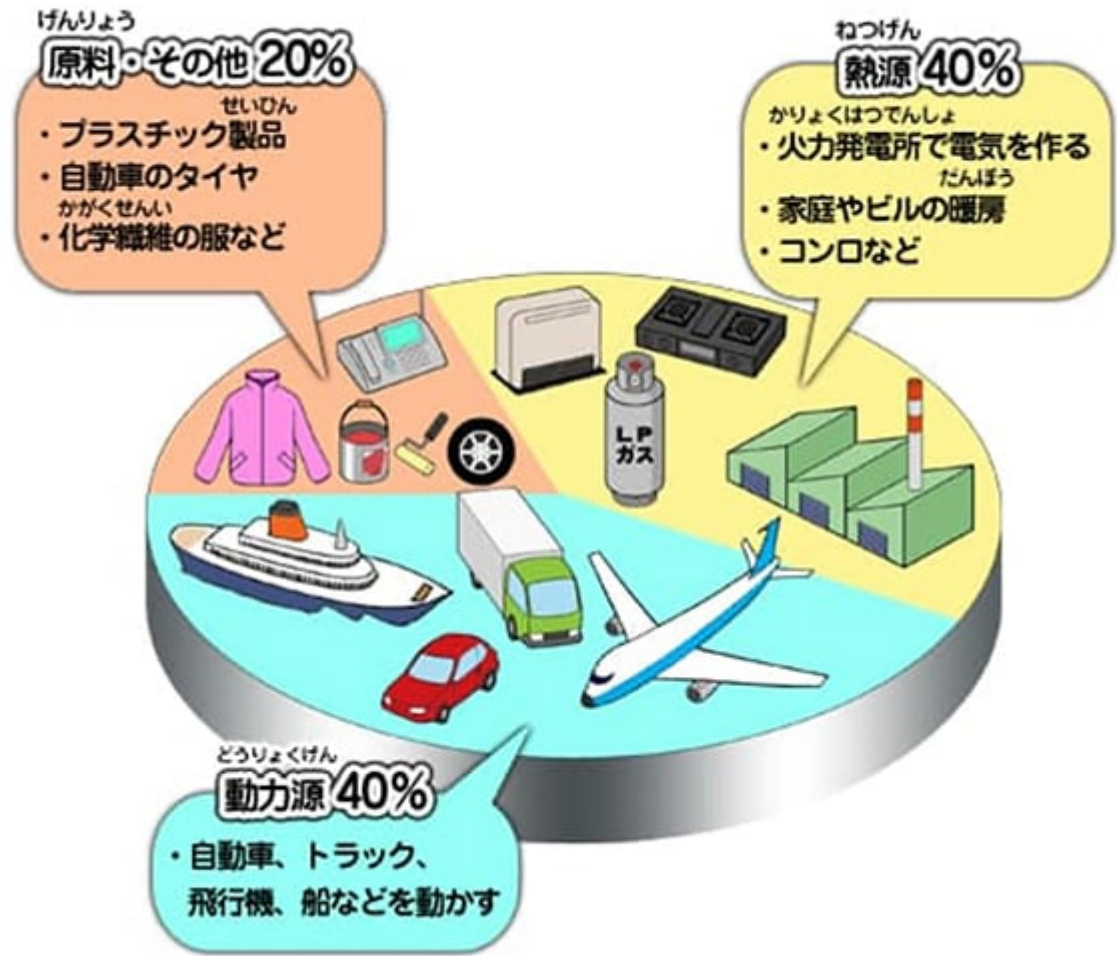
?1????????

?1????????????????????????????????2021?^{21?}

??	?????	??
??	41.7????	?9,000??????1,140????
??	80????	?????50??????
????	4?m ³ ??	??????124?m ³ ?320??

??????????1??????????80????40????40??????????42??????34????????????????????

石油の消費割合



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

BP???2023????????????????????????????2?

?2????????????????????BP?? 2023??

??	??????????
??	?50?
????	?53?
??	?132?

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

??EV????????????????????
????????????????

??20????8??
??
????????????????

??

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

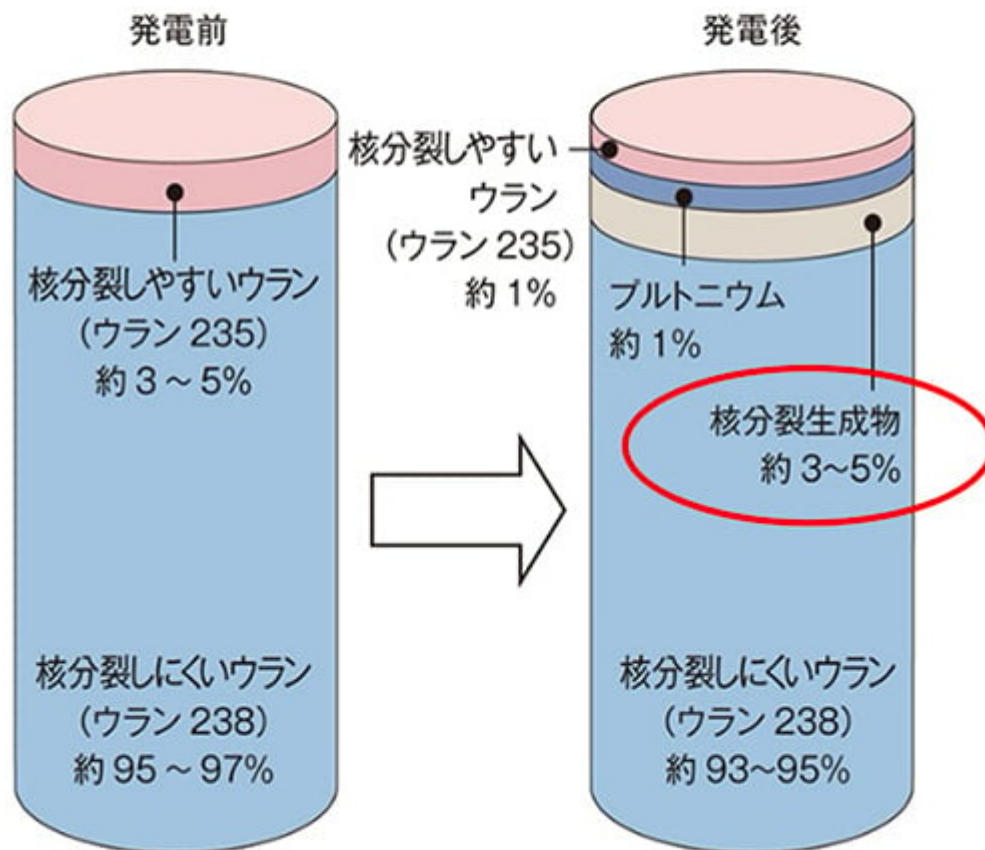
??
 ???????

??
 ???

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

??

②発電前後でのウラン燃料の変化(例)



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

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

???1????????????????????????????????3?5?30?50kg????????????

?3????????????????8,100????????????????243?405????????????????

????????????????????????????????C O????????????????????

??577????2024????????????????1?4,000??1??????

????????????????????????????10????????????????????8?

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

??

???

????????????????10????????????????????300????????????300??????

????????????????300????????????????

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

??

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

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

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

??

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

2030?2050????????????????????7????????????

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

?

?1????????????2023?

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

?3?Beautiful Chart????????2000?2023????

?4?100?kW????1????21????

?5????????IEA?2024????WEO 2024??

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

2026????????????????

?? ?? · Tuesday, December 2nd, 2025



ThomasVogel/iStock

2026??

??
??

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

???

2025?2????????????CDU?CSU????????SPD????????????????????

??
????????????????AfD????????????????CDU?CSU????????????????????

AfD??

	???	AfD
???????	52%	24%
?????????	40%	26%
???	????	????
???????	??	??
?????	??	??
?????????	??	??
????????????		

????????????CDU?CSU?208??SPD?120???????328???630???52?????AfD?152???24?????????INSA????
2025?11???BILD?????????CDU?CSU??24.5??SPD??15.0??????11??AfD??26????????????CDU?CSU?SPD?
??????40????

????

??RN????????????
?????

RN?????????????????????EU??
??????????

2024????????????NFP?????????Ensemble?????????RN????????????????????????????
?????????????????????????????Ensemble?LR??RN????????????

	?????Ensemble?LR?	?????RN?
???????	34%	25%
?????????	27%	35%
????	????	????
???????	??	??
?????	???	???
?????????	??	???
????????????????		

????

2024??
????????????????????????????????

??

???Reform
UK??Reform
UK????????????????????????????

Reform UK??

	???????	Reform UK????
???????	63%	1%
?????????	20%	31%
????	????	????
???????	??	??
?????	???	????????
?????????	??	??
????????????????		

????????????2025????????????Poll of Polls????????????20???Reform UK?30????????20????????

??

??
??

2029?????

????????????????????2026??
????????????????????????????????????

????????????2024????5????????2029????????????????????????????????2027????????????2029????
????????????????????????????2025????4????????????????????????????2029????????????

????????????????????2029??

??2026????2029????????????
??

??

?



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

Posted in ???, ?? | No Comments »

COP30????????10????1.5????

?? ? · Monday, December 1st, 2025



COP30??????

11?15??22????????????????COP30????????????????20???COP????????COP30????????????????

COP30?????

COP30??2025????????10????????
????????80????????????????????????????????1992????????????????????

????????????????????????????????2025?1????????????2????1????????????????????????????
????????????????????????????????IRA??
????????????????????????????????????

????COP??
????????????????????????????????????

??4????????

COP28????????????????COP29????????NCQG????????????????COP30????????
?GGA????COP29????????????????UAE????????????2?COP????????????COP?
????????????

????????COP????????????????COP????????????4????????????
??

????????????1????9?1????????????????????????????????????
????????2?1????????????????????????????????????

- ???NCQG????????????????????????????????
- ???????2????????????9????????9?1????????????
- 2035????????2025????3??

??????

- ???
- 64?2026?6??66?2027?6??68?2028?6????????????WTO?UNCTAD?ITC????????????????
????????2028??
??????????

?1.5??NDC???

- CMA7?2025??CMA8?2026??Global
Implementation
Accelerator????????UAE????????????????????????????????????COP????????1.5????
????????????????????NDC?NAP????????????SB64?2026?6??SB65?2026?11????????
????????????????2026????????????????????????
- CMA6?CMA7?CMA8????????1.5?????????????.????????NDC??NAP????????????
????????????????????????????????????

??????

- ????

????EU??No deal is better than bad
deal???21????????????????????

??10????COP????????????????23????????
????????21????????????????????^{25?}

????????????????????????COP????????????????????????????????I see no
objection????????????????????????????????????^{26?}

??2030????????????
????????????COP31????????????

????????????????Point of Order????????????

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

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

COP30???

COP30????????????????????2023??COP28????????????GST????28????
????8????????????????????????????????

??8?????????
??

??overcome dependency on fossil
fuels??COP28????????????????????????????
????????????????????????????

??
????????????????????????????????COP????????????????

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

??COP????????

??COP??affordability????
??????

AI??energy transition????????????energy
addition??

???11????????????????????????????????ADIPEC????????COP28????????????????????????????AD
NOC????????????1.5????2050?????????????????????????????????????

ADIPEC??
????????????????COP??

???2021??
????????????????????

???COP????????????????????????????????9?1????????????2035????3????????
????????????????NDC??
????????

??
????????????COP29?NCQG????????????????????COP30????????????
????????

????????1.5??

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

????2028????2????????????????1.5????????

??
??⁸⁷

⁸⁷????????

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

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

?

- ?1?Speech by President Lula at the opening of the COP30 Leaders’ Summit in Belém, Pará
- ?2?83 Countries Join Call to End Fossil Fuels at COP30
- ?3?https://unfccc.int/sites/default/files/resource/DT_-cop30-01.pdf
- ?4?https://unfccc.int/sites/default/files/resource/Mutir%C3%A3o_cop30.pdf
- ?5?https://unfccc.int/sites/default/files/resource/cma2025_L24_adv.pdf
- ?6?COP30: Closing Ceremony | UN Climate Change
- ?7?UAE’s Sultan Al Jaber Opens ADIPEC 2025 with Powerful Call for Pragmatic Energy Policies | AQ1B
- ?8?Three tough truths about climate

Posted in ???, ????? | No Comments »

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

?? ? · Thursday, November 27th, 2025



CHUNYIP WONG/iStock



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

??
??
??
???

????????????TOKYO H2???????

????????????2030????????????600????????????????????????????9????????????
?

????????600?50??????????

<https://agora-web.jp/archives/250916072423.html>

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

24????20??——??????“?????”

??1?
????????????????10?23??24????20????????????

????????????????20????????24????????????1????????????????????????????????
??

??24??1????
????????????????

??10????????????????1????1200????????????????420????????1????10????40?
??
??

??“?????”?????????

??
??

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

??

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

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

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

??TV????????????????????????
??

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

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

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

????????????????????????????CCS?CO2??
??INPEX????????????????CO2????????????????????????????

????????CO2????????????????????????????CO2????????????????????CCS????????????
???

??

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

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

????????????????????????60????60????????0.6×0.6?0.36??36????????40????
??24????????1/4?1/3????????

??

????????????????????CO2????????????1????????????????????????
????????????????????????????????????1????????

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

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

????????7????????????????????8????3????7????1????
????????????

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

<https://agora-web.jp/archives/250713110320.html>

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

??

??
??

??????????

??2016???pdf?????

The Feasibility of a “Hydrogen Society”

????10??
 ???

????????CO2????????????????????????CO2????????????????????????????????
 ?????????CO2H2O??

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

??

?? ?? · Thursday, November 27th, 2025

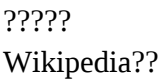


Khanchit Khirisutchalual/iStock

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

[illegible]

CO?????



80??????

[illegible]

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

- CO????????????

CO????????????????????

????CO??

- ?????????????

CO??CO????????????????CO????????????????????
 ?????????????????

- ??????“????”????????

??

??

- ?????????????????

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

????????????????????2050????????????????????????????“?”????????????????????

??

????????CO????????

????????CO????????????????????????????????????

- CO????????
- ???????
- ???CO????????
- CO????????

???CO????????????????????????CO????????????????????

???????? — ?????????

????????????????“?????”????????????????????????????

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

- CO? ? CO????
- CO????????

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

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

????Carbon Symbiosis?——????????

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

- CO????????
- ?????????“????”???
- ?????????????????
- ?????????????????

????????

?????CO??

???CO????????????????????

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

COP30??

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

????????????????“?”????????????

CO?“?”????????????

?????

- CO????????
- ?????????
- ?????????

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

??COP30????????????????????????????????????

?

????????

COP30????????????????????????????????????

??
 ???



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

??????????????????
?? ?? · Wednesday, November 26th, 2025



sommart/iStock

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

??????2050??
??

??

??
??

??2012????????
??

2050??100????????????????????
??????????²????????????

??

??——????????

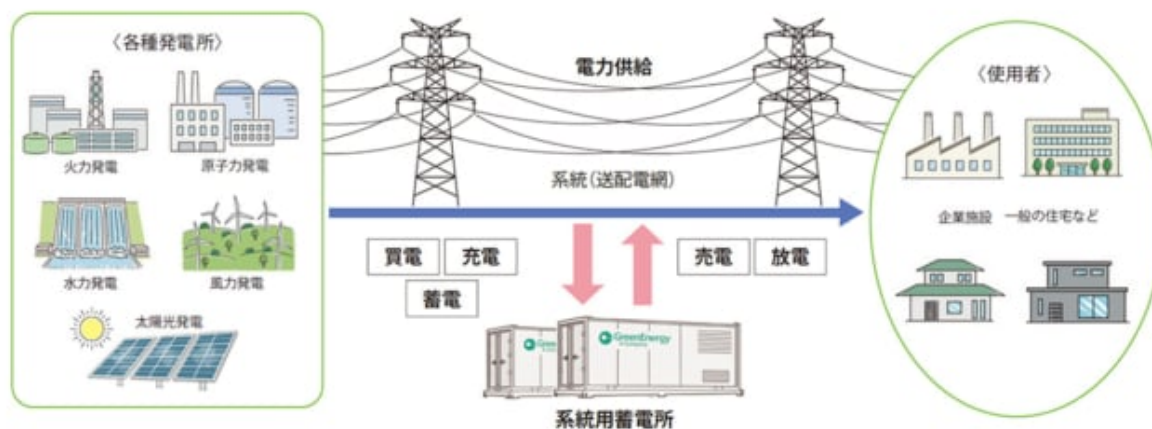
??
??

??
??
?????



??????????

??NAS????????????????
 ?????????????????????????????????????

[illegible]

<https://green-energy.co.jp/service/gxpack-message/>

[illegible]

????????13??18????
©???????

??????2012????????18??
????????????????????2050????????????????????????????????

??????????

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

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

1??????

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

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

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

??

2?????—?????

2024?3?27??



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

https://www.pveye.jp/eye_sight/view/5101/

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

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

??
 ?????????20??????

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

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

??

???????

??

??1??

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

??

??——????????——????

??????????

?

?1??

????????????????????????2025????????1kWh??3.98??

????

????????????2024?5?29? ????????

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

CO???????????? COP30??????????

?? ?? · Wednesday, November 26th, 2025



????

2025?11??30????????????COP30??
????COP30??
????

????????????????????“??Doomsday?”????????????????????????????????
??

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

1. CO????????????????

??
??“?????”??????“????”??????????????

????????CO??

??CO????????????????????????????????CO????????????????????????
???CO??

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

????????CO??
????????????

????????EV??
??

????2050??2050????????????
??CBAM????????????????

??

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

COP????????????????????????????????????

??
????CO????????????????????????????????

4. ?????????Carbon Symbiosis????

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

????????——????????????????????????????????CO??
??

5. ??????????—????

1) ?????????????

??HELE
 ?????????????????SMR??

2) ?????“????”

[illegible]

3) ?????????????????

[illegible]

????

[illegible][illegible][illegible]

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

??CBAM?COP30????????CBAM????????

?? ?? · Sunday, November 23rd, 2025



COP30

HP??

EU????????????????????CBAM????????????????????

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

<https://agora-web.jp/archives/250828061947.html>

[illegible]

?????EU??CBAM????????????????????????????9????????????????

????

??

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

?????????EU??????CBAM??????????

<https://agora-web.jp/archives/251005092737.html>

EU2026?1?1????????????????????????????????CBAM????????????????????????



Leestat/iStock

?????????????????????Ronald Stein???4????????????????????????????????????Armando
Cavanha???????

The true source of civilization's future is energy wisdom

??????????

????

[illegible]

??

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

??

??

[illegible][illegible][illegible]

??

????????????????????????21?????“?????”??????

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

??“???”
??????????????

??
?????????

????????“???”??

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

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

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

??

??

??Energy Wisdom????

??

????????????????????——????????????????Wisdom of
Balance????????????????“?????”????????

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