

Global Energy Policy Research | GEPR

GEPR <http://agorajp.com/>

5

Thursday, August 22nd, 2024

9 10 42% 37%

New York Times 5



Darwel/iStock

1. ????????

4 1

??

????????????????????????????2047????13?8000????CO₂????????????????????3?2800????
????????

??

???????

????????????????????USC?A-USA?IGCC?IGFC????????????

2. ????????

????????????????????4?1????????????????????????????2032????????????????
?EV????????????????????????????????

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

???????

????2020?10????????2050????????????????2035????????EV????????EV????
?????550????????????CO₂????????????EV????10????
????????CO₂????????EV????

3. ????????

????2022????????IRA????????????????10??3700????
????????

EV??

????????IRA????????????????????????????EV????????
????????

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

??

??

???????

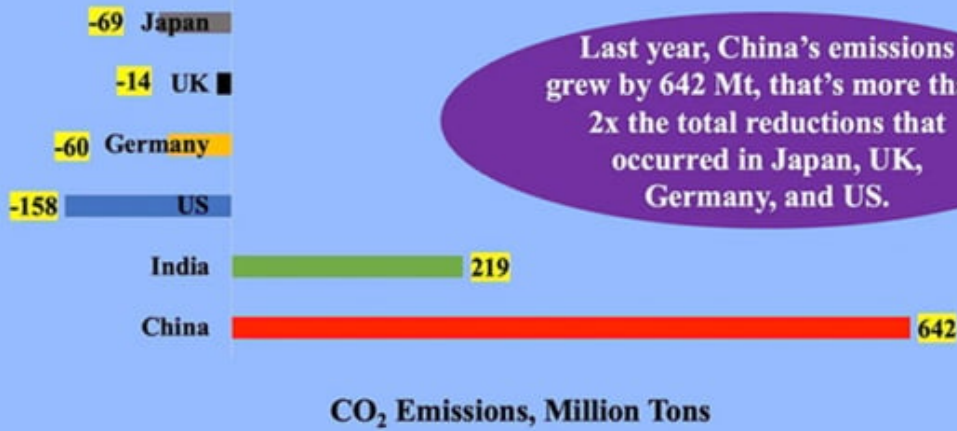
??FIT????????
????????

4. ????????

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

??4????
1300????

Change In CO₂ Emissions In The Six Largest Economies, 2023

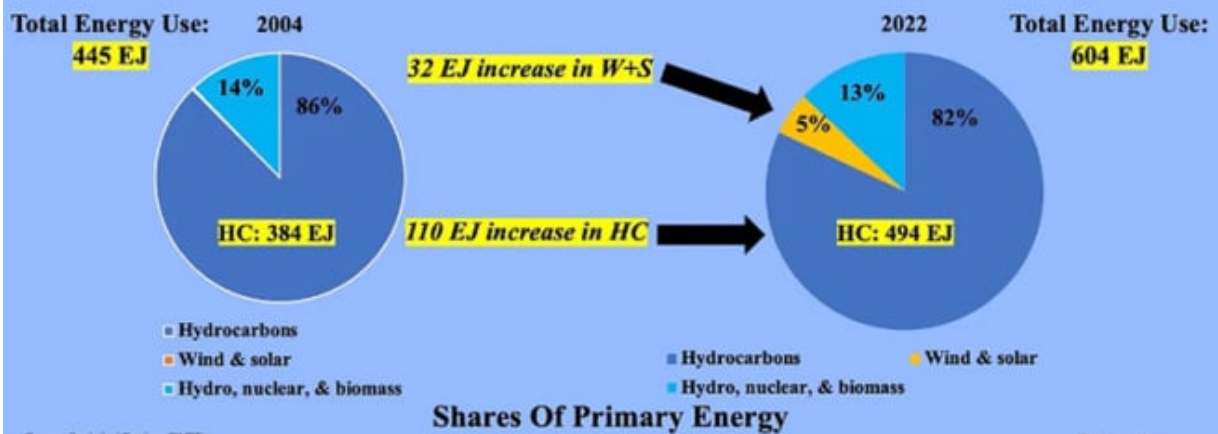


Source: Statistical Review of World Energy 2024

© Robert Bryce

????????????20??GX?3.4????????????????????2023????????????????????
 ?GX??9.5????????????????????

What Energy Transition? From 2004 to 2022, Global Spending On Wind + Solar Totaled \$4.1 Trillion, Yet Hydrocarbon Use Increased 3.4x Faster



Source: Statistical Review, BNEF

© Robert Bryce



Stadtrate/iStock

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

??

??
??

??
??
?????

??
??
???????

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

??
B??

????????????????????23??
????????????????????????????

??

????????1????????10????????????????????????????????2024????????????1??250?????4????????????
??

??
??

????????????????1??24??1????????????????????12????????????????????????

????????????????????OECD????????????????????1????????????????????????????
????????????????????????

??
????????????????12??“??”??

??72????????
????????????????????????????

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

????????????????120????????????????4??1??3????????????????????????????
??400????????120????????
??????

????????120????????20??
??

????????????????????????2015????????????????????????????
????????????????????

????????8?12????????????????????????????????????
????????????????

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

??

GEPR?? · Friday, August 16th, 2024

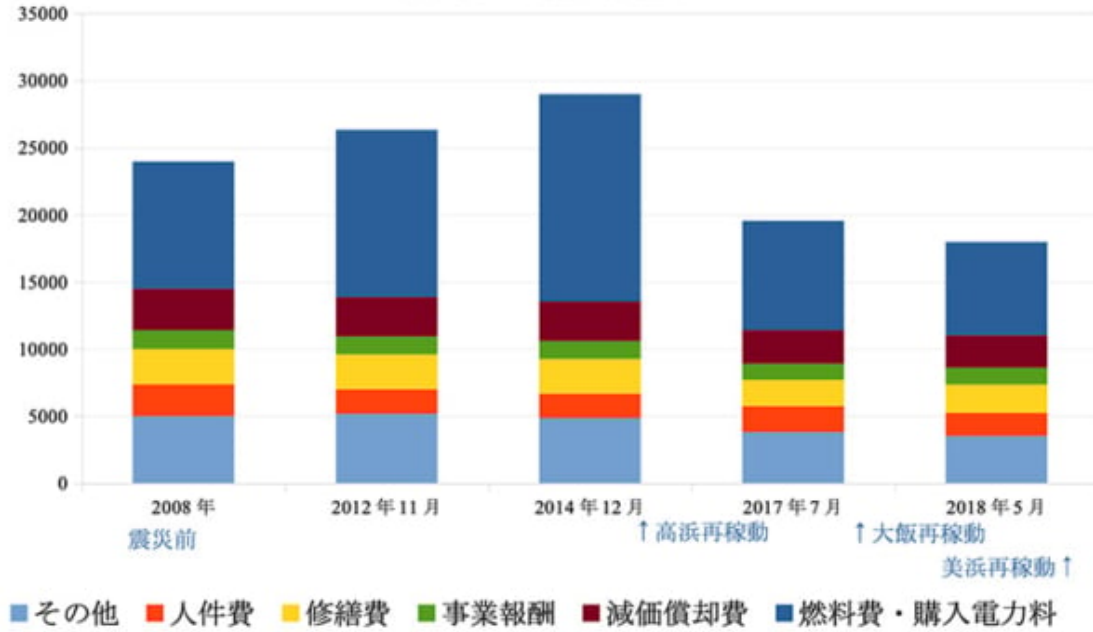


songqiuju/iStock

2024.7.24??

??3????????????????(2023.02.04)????????????????????
????????????????????1??

関西電力電気料金原価推移



2008年と2018年の電気料金原価の比較

2. 関西電力の電気料金原価の構成

関西電力の電気料金原価は、燃料費・購入電力料、減価償却費、事業報酬、修繕費、人件費、その他から構成されています。

燃料費・購入電力料は、関西電力の電気料金原価の最大の構成要素です。

減価償却費は、関西電力の電気料金原価の重要な構成要素です。

事業報酬は、関西電力の電気料金原価の重要な構成要素です。

修繕費は、関西電力の電気料金原価の重要な構成要素です。

人件費は、関西電力の電気料金原価の重要な構成要素です。

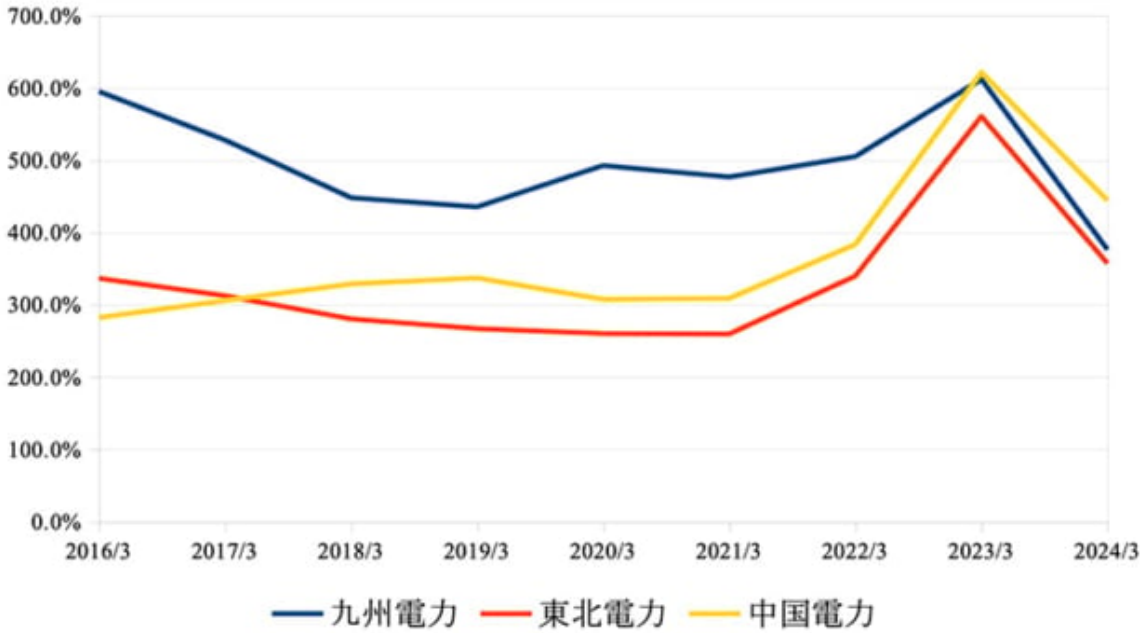
その他は、関西電力の電気料金原価の重要な構成要素です。

3. 関西電力の電気料金原価の推移

関西電力の電気料金原価は、2008年から2018年にかけて推移しています。

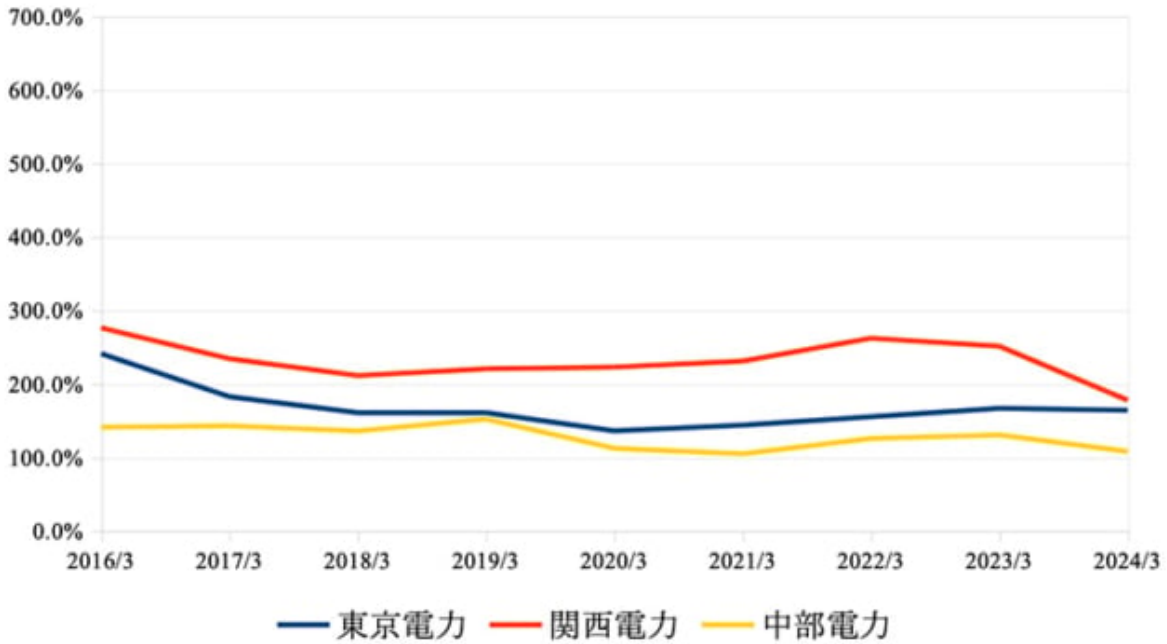
2008年の電気料金原価は約24,000円、2018年の電気料金原価は約18,000円です。

中堅3社 有利子負債比率



??

中央3社 有利子負債比率



??

??

????????????????????????????????2022??
??

2024?3?????3?????????????????????????3?100%????????????????????

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

?

?? ??

1966????1990??

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

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

?? ? · Wednesday, August 7th, 2024



imagedepotpro/iStock

????????????????Climate4you????????????4?”for”????????????????????????????Ole
Humlum??

??
????

????????????????The State of the
Climate????????????????????????????????7?20????????64????????????????????

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

SHORT SUMMARY OF OBSERVATIONS UNTIL JUNE 2024

1: Observed average annual global air temperature change last 30 years is about +0.016oC (UAH). If this change rate remains stable, additional average global air temperature increase by year 2100 will be about +1.2oC.

2: Tide gauges along coasts indicate a typical global sea level increase of about 1-2 mm/yr. Coastal sea level change rate last 100 year has essentially been stable, but with periodic variations. If change rate remains stable, global sea level at coasts will typically increase 8-16 cm by year 2100, although many locations in regions affected by glaciation 20,000 ago, will experience a relative sea level drop.

3: Since 2004 the global oceans above 1900 m depth on average have warmed about 0.037oC. The maximum warming (about 0.2oC, 0-100 m depth) mainly affects oceans near Equator, where the incoming solar radiation is at maximum.

4: Sources and sinks for CO2 are many. However, changes in atmospheric CO2 follow changes in global air temperature, and changes in global air temperature follow changes in ocean surface temperature.

5: There is no perceptible effect on atmospheric CO2 due to the COVID-related drop in GHG emissions 2020-2021, demonstrating that natural sinks and sources for atmospheric CO2 far outweigh human contributions. Therefore, any future reductions in the use of fossil fuels are unlikely to have any significant effect on the amount of atmospheric CO2.

2024?6????????????

1???30????????????????????+0.016??UAH????????????????2100????????????
????+1.2? ??????

2????????????????????1?2mm/????????????????100????????????????????
????????????????????2100????????????8?16cm????????20,000????????????????
????????????????????

3?2004??????1900m????????????0.037????????????????0.2????0?100m????????
????????????????????

4?CO2????????????????????CO2????????????????????????????????

5?2020?2021??COVID??GHG????????????CO2????????????????CO2?????
??CO2????????
??????????

???????????

??4?5??

4??CO2??CO2?????
??

??1000?????????????????????????????
???1000??

??
??
???

TV??

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

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

??????15??5?????????????????????????????
??

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

??1000????????????????????????????????
??

??

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

??
??
??

??Pacific Decadal Oscillation?PDO????????????????????????????????????Atlantic
Meridional Overturning
Circulation?AMOC??PD
O??????????????

??
??

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

??????????5????????????????????IPCC??2021?4????????????????????????????????
CO2?????218.2 Gt-C/????????????????CO2?????215.0 Gt-C/?????????3.2 Gt-
C/?????????????????????2ppm?????????????????????Gt-C/?????????????????10⁹????/??????????

????????????CO2?????8?9 Gt-C/?????????????????????6.4 Gt-
C/????????????????CO2?????2.9%????????????????????????????????????

CO2??2.9%????CO2??2020?2021??COVID????CO2????
????CO2????50????
???

????CO2??200 Gt-C/????????????3?4 Gt-
C/????????????

????CO2?3.2 Gt-C/????CO2?6.4 Gt-
C/????IPCC????CO2????

IPCC????CO2????CO2????
????200????20
21????

????CO2????CO2????
????8/218.2?3.6%????3.2×0.036?0.11 Gt-
C/????2ppm?0.07ppm????

??IPCC????CO2????CO2????(2ppm??4?5
Gt-C)????

????CO2????CO2????150????
CO2????100????
????CO2????CO2????

??CO2?????

????4????CO2????
??CO2????

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

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

???????

????1998?2010?2016?2020????2023????

????2022?2024????2022?1??

????10????

????22?1????23????

????????????1??3?????Polar
Vortex????????????SSW????SSW????2?1????
??23?24????3??SSW????????????

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

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

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

Posted in ??, ???? | No Comments »

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

?? ?? · Tuesday, August 6th, 2024



????????HP??

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

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



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

??

?? ?? · Monday, August 5th, 2024



GX2040????????????????

????HP??

??

??

??

??SAF

??
??

????????????????????????GX????????????10????150????????????????????????????????????
????????????????150????????????120????????????????????????????????????

??

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

????????????8?9?2125????10??1300?

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

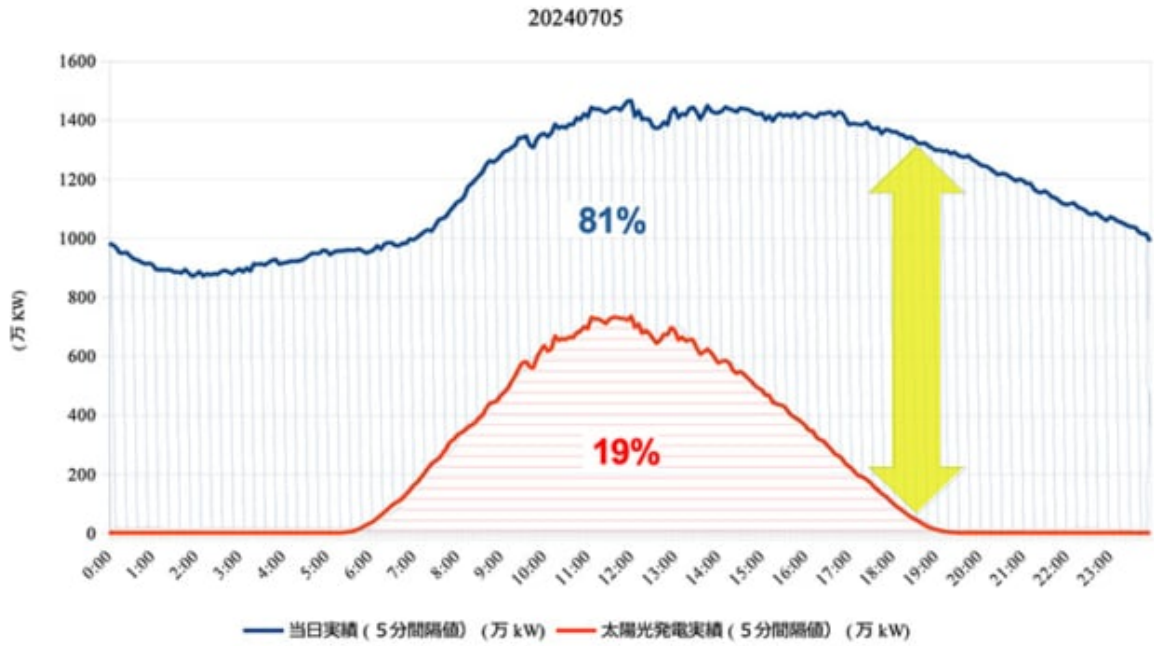
?



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

??

GEPR??? · Friday, August 2nd, 2024



????????????????
 ?????????????????19%?????
 ???



????????????????
 ?????????????????17%?????
 ???

??12??
 ???

??18%????????????????
 ???

????????????18??19??
??

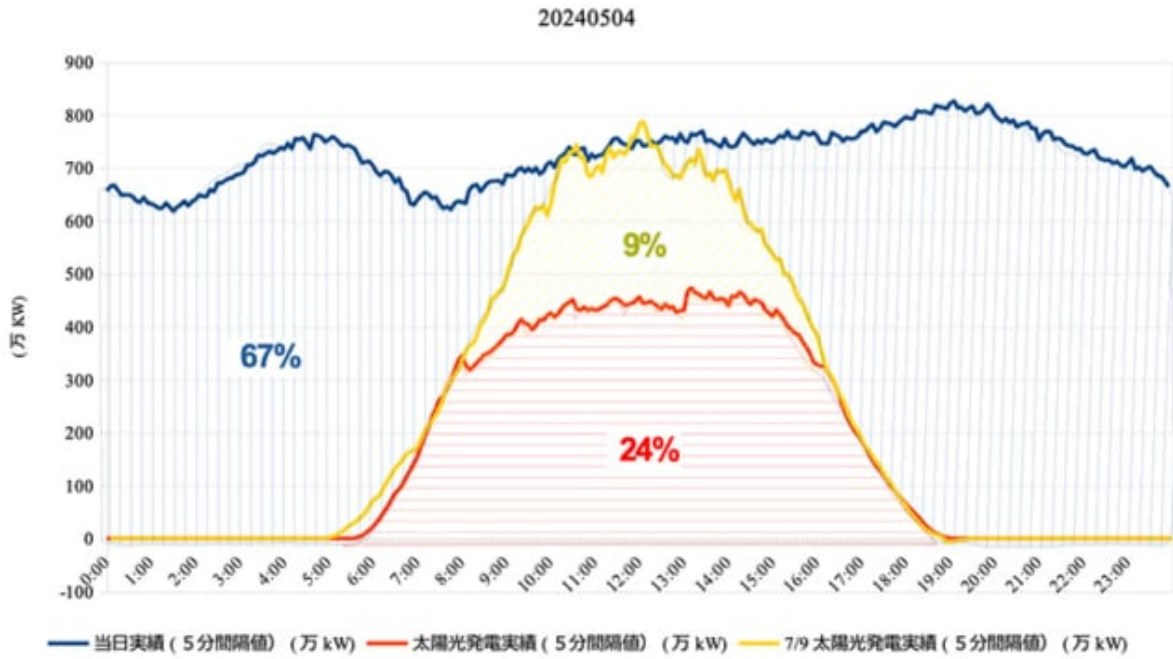
????3????????????????????4%????????????????96%????????????????????????????????????
?????????



?3?????????
????????????????????????????4%????????????

????????????????100%??
??

????????????????????4????????????2024?5?4????????????????????7?9????????????????
????????????????????



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

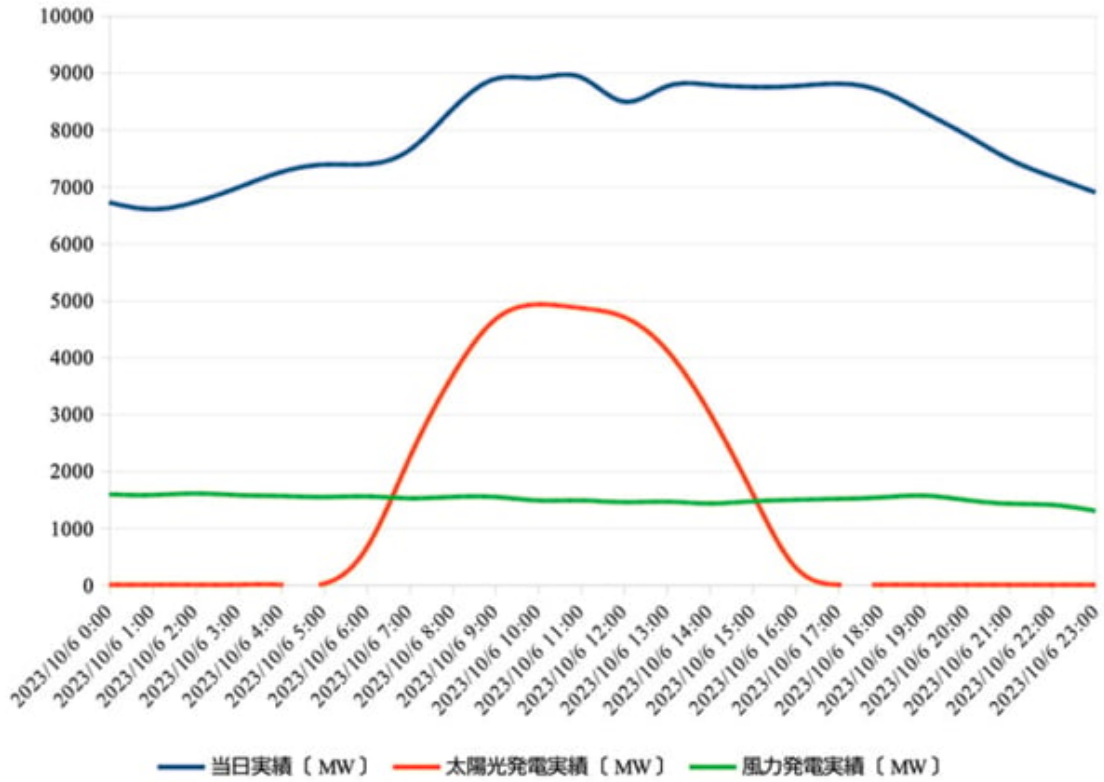
??
 ???

??
 ???

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

??web??MW????????????????1??
 ?????????????????????????????????

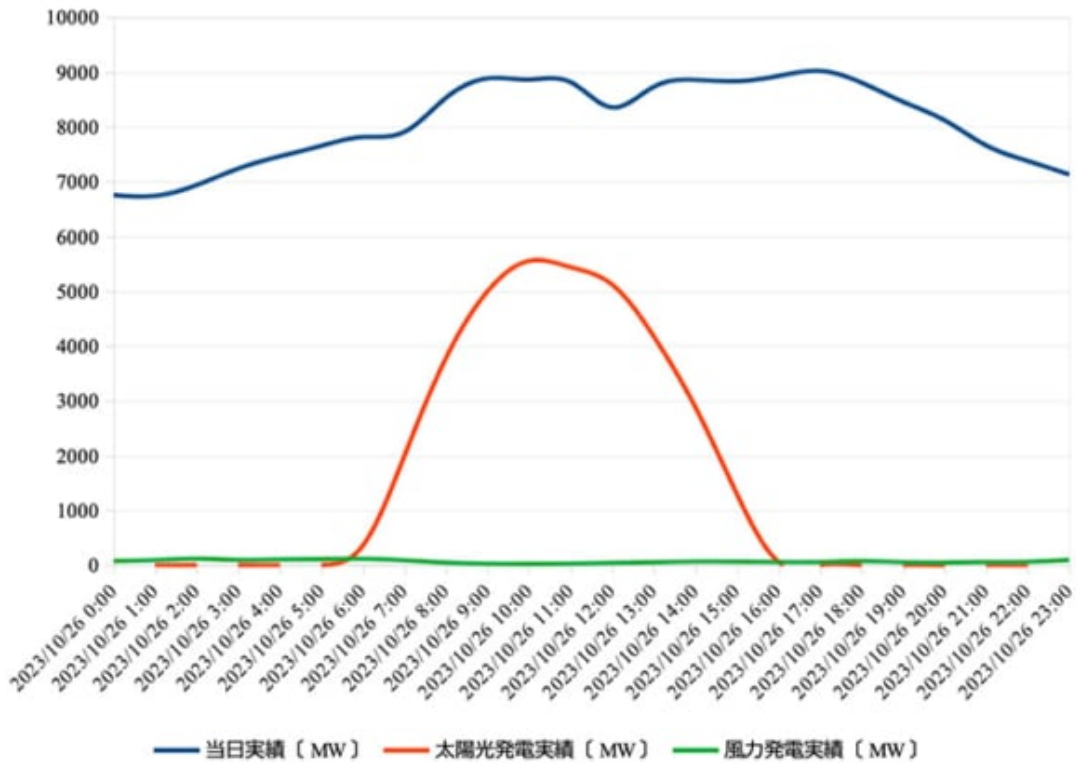
????????????????????????5????????1??



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

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

????????????????6??6????????????
????????



?6????????????

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

??“????????”????????
??

??

????2??1957??
??

???????

?????????

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

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

??

??????????26????????????????????????????2????????????????????????????????????

??GX??

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

??

?? ? · Saturday, July 27th, 2024

7?15??2024????????????????????????????
????????????????????

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



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

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



??
??

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

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



??
??
??dr
ill, baby, drill??

???????

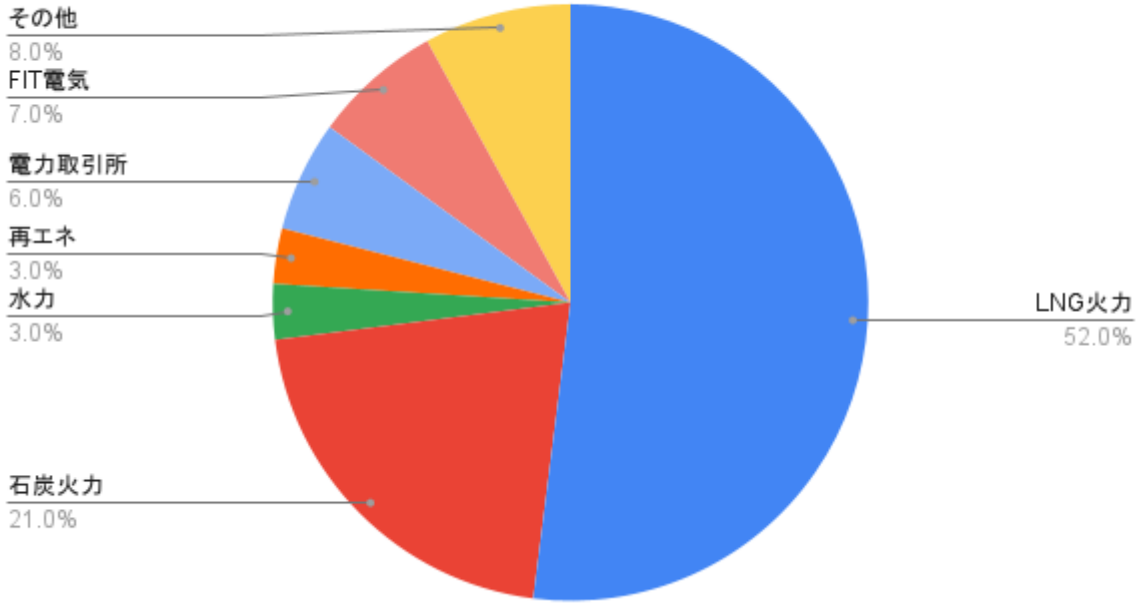
?10???

?1???

- ???
??

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

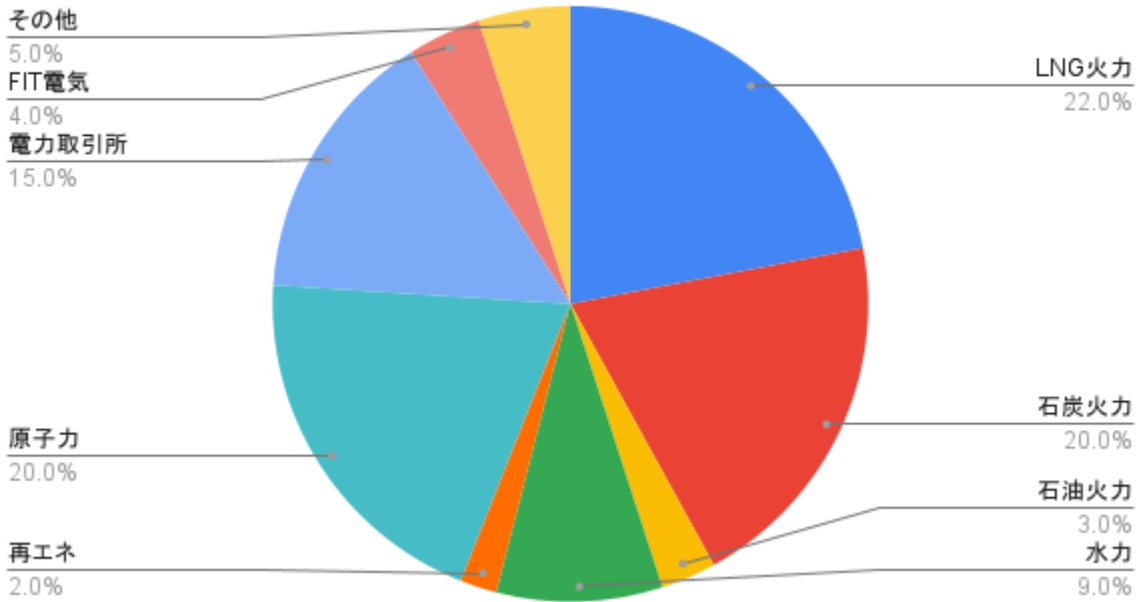
東京電力 2022年度実績



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

???????LNG?????73????????????????27??CO2????????
???????????

関西電力 2022年度実績



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

???????LNG???????45????????????????20????????????????35??
????CO2???????????????

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

?? ?? · Saturday, July 20th, 2024




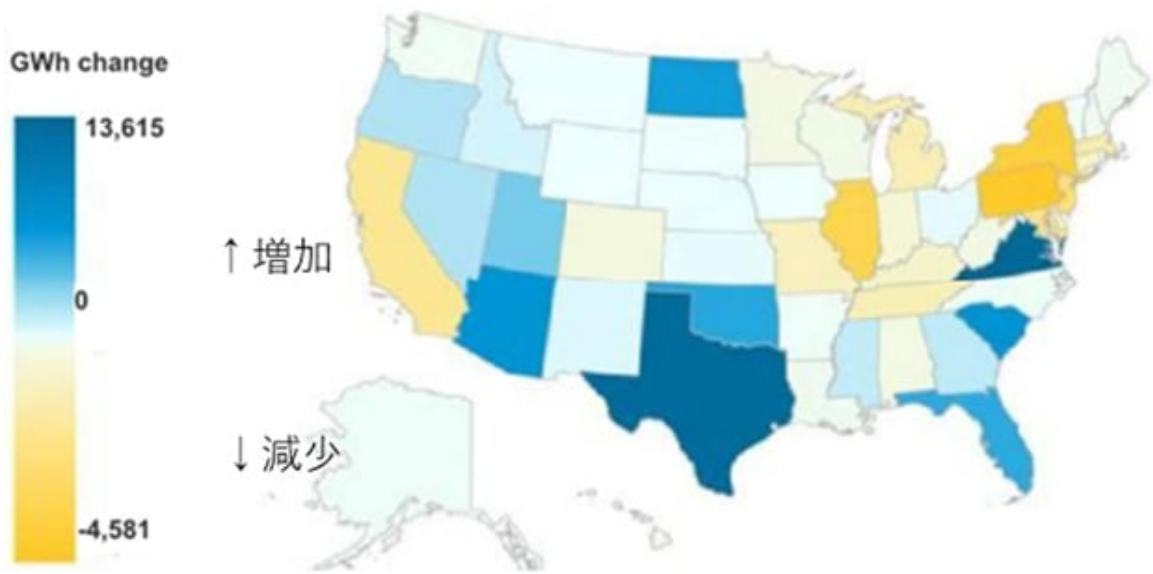
da-kuk/iStock

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

??6????????????????EIA????????????????¹¹????2019??23??4????????????????????????????????
 ?????????EIA????????????????????????????????4????????????????????????????IT????????
 ?????????????????

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

U.S. states change in commercial sector electricity consumption (2019–2023)
change in annual sales of electricity to commercial customers, gigawatthours (GWh) 



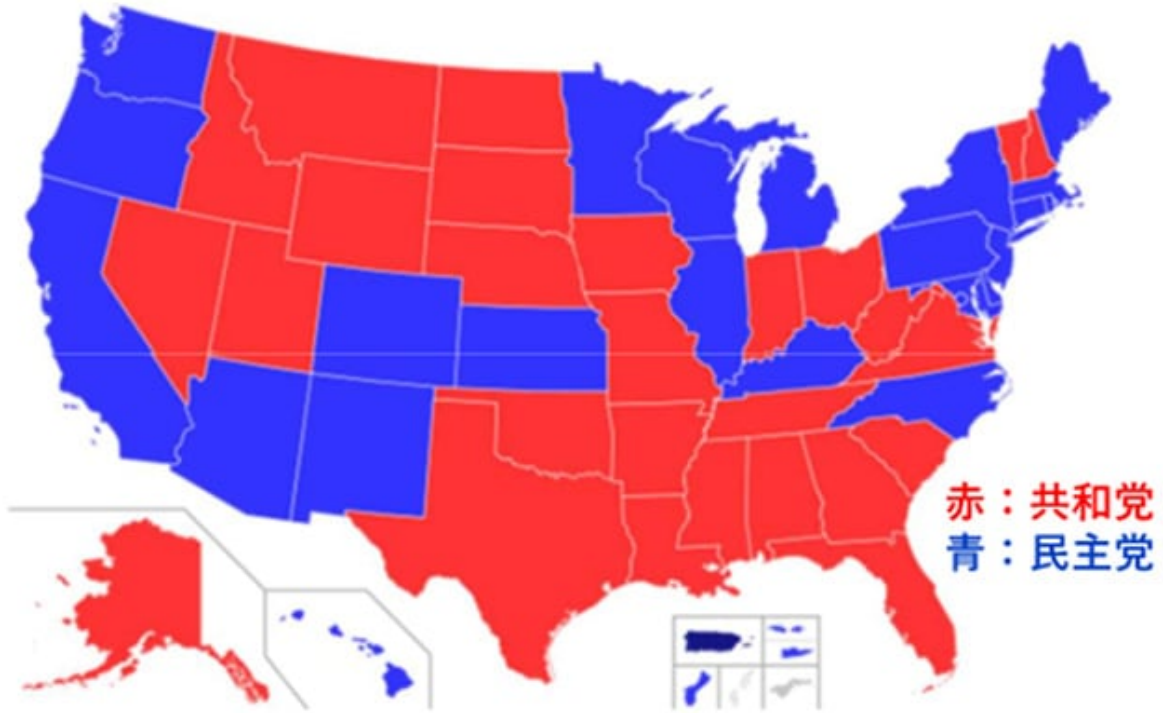
Data source: U.S. Energy Information Administration, [Electricity Data Browser](#)

出典：Commercial electricity demand grew fastest in states with rapid computing facility growth”, Today in energy, June 28, 2024, EIA

?1 ??????????2019?2023?

??

??Red state??Blue State????????????????????



出典：Wikipedia " List of current United States governors"

22 ???????????????

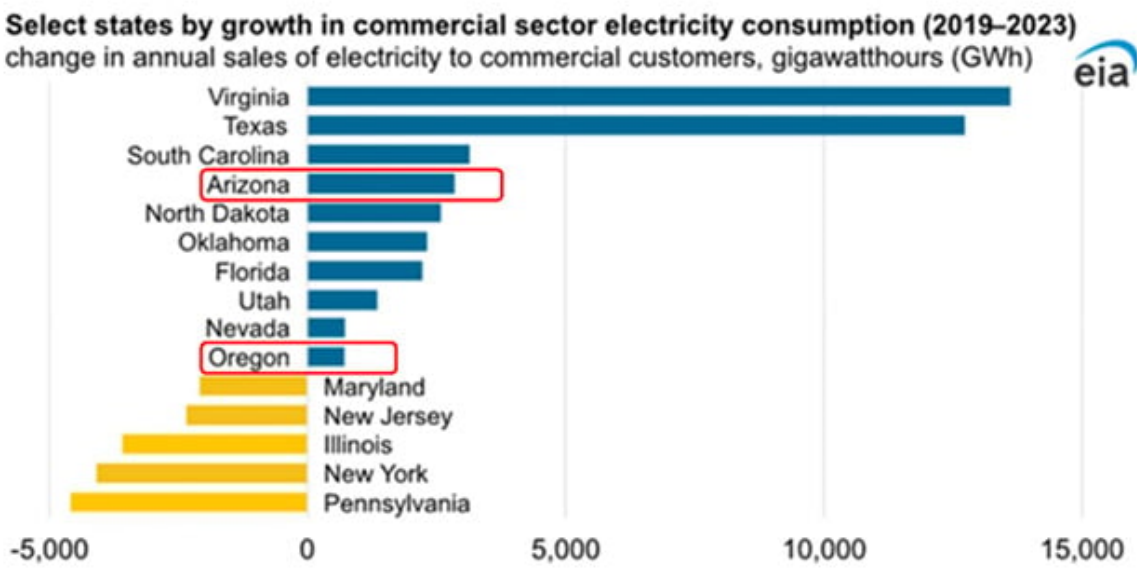
21????????????1????????2????????1????????2????????????????????????????????

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

???1??2????????????????2?
????????????????????????????????????1??3????????????????????????????1??
????????????????????????????????

EIA??4????????????????10??????
????420?kWh?10????????????????40????????????280?kWh????????3??????????????

??²²?2019????94????????????????????????????????
??
????????????????????3?



Data source: U.S. Energy Information Administration, *Electricity Data Browser*

出典：Commercial electricity demand grew fastest in states with rapid computing facility growth", Today in energy, June 28, 2024, EIA

23 ??????????????????

2022年、米国では電力料金が大幅に上昇した。2022年の平均電力料金は10.8c/kWhから2023年には12.41c/kWhに上昇した。これは、2022年の平均電力料金が9.35c/kWhから2023年には12.41c/kWhに上昇したことを示している。これは、2022年の平均電力料金が9.05c/kWhから2023年には12.41c/kWhに上昇したことを示している。これは、2022年の平均電力料金が9.05c/kWhから2023年には12.41c/kWhに上昇したことを示している。

2023年、米国では電力料金が大幅に上昇した。2023年の平均電力料金は12.41c/kWhから2024年には15.81c/kWhに上昇した。これは、2023年の平均電力料金が12.41c/kWhから2024年には15.81c/kWhに上昇したことを示している。これは、2023年の平均電力料金が12.41c/kWhから2024年には15.81c/kWhに上昇したことを示している。

これは、2023年の平均電力料金が12.41c/kWhから2024年には15.81c/kWhに上昇したことを示している。これは、2023年の平均電力料金が12.41c/kWhから2024年には15.81c/kWhに上昇したことを示している。

これは、2023年の平均電力料金が12.41c/kWhから2024年には15.81c/kWhに上昇したことを示している。

これは、2023年の平均電力料金が12.41c/kWhから2024年には15.81c/kWhに上昇したことを示している。

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

これは、2023年の平均電力料金が12.41c/kWhから2024年には15.81c/kWhに上昇したことを示している。これは、2023年の平均電力料金が12.41c/kWhから2024年には15.81c/kWhに上昇したことを示している。

??
??

?

?1?“Commercial electricity demand grew fastest in states with rapid computing facility growth” Today in energy, IEA,
June 28, 2024

?2????????????????DC??

?3?RGGI????????????????????????CO2??
??

?4?????1kW?????????10?????????14????????300?kWh?????????????????????245?????????5240?????????

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

??

?? ?? · Tuesday, July 16th, 2024

??
??



??????

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

??



??
??

??
??



??
??

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

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

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

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

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

??CO₂??15????????????????????7????????????EU????????????3????????????
??0.01????????

2050????????????????

??EU??2050????????????
????????????????????EU????????????

??GDP?4????????????????10????
??60??25????0.01????????

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

????????????????2050????????????????
????????????????EU????????

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

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

?? ?? · Saturday, July 13th, 2024



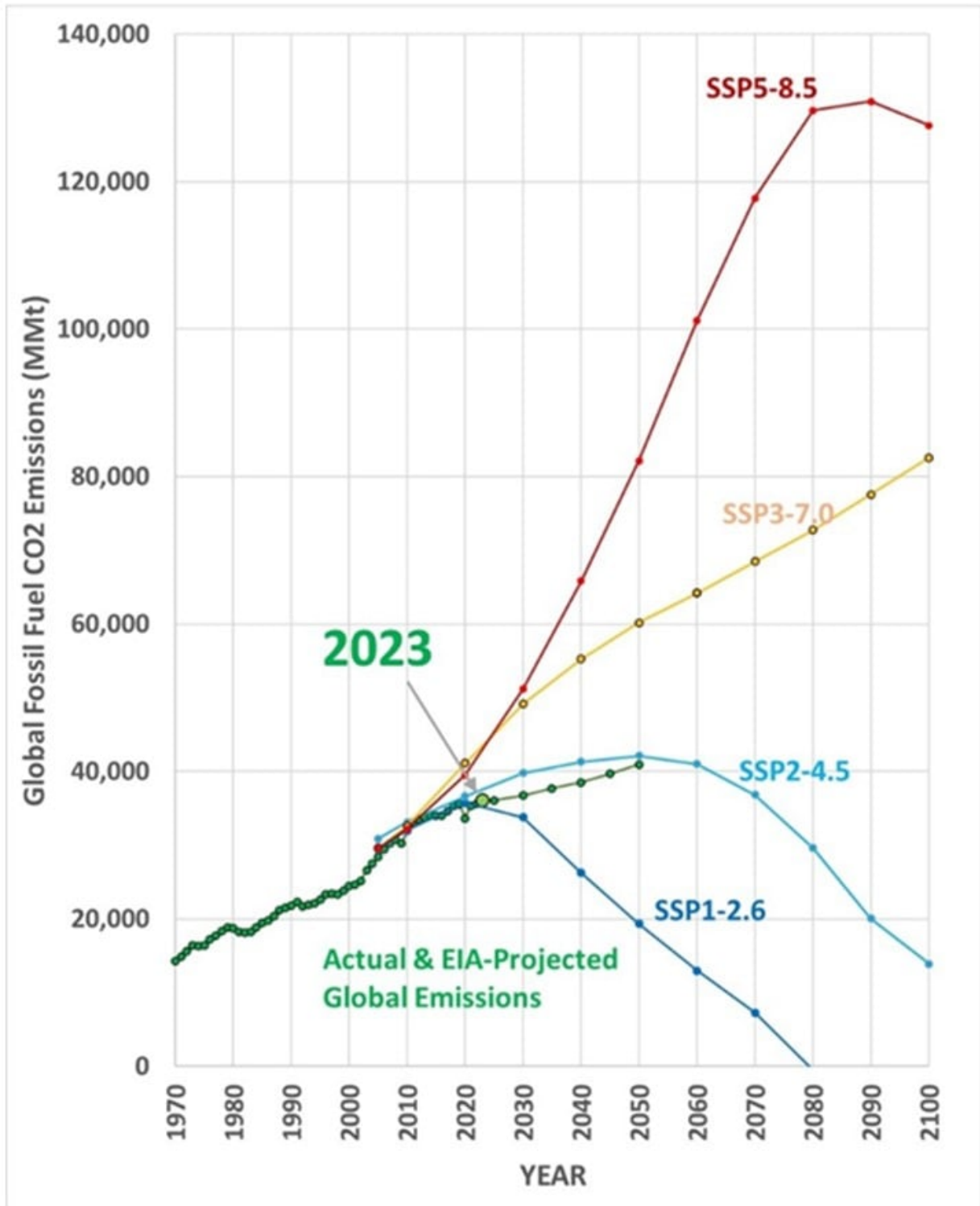
alexis84/iStock

??CO2????????????????????IPCC????SSP5-8.5????????

??

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

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



????????????CO2????????????2050????????????Department Of Energy, Energy Information Administration??????

??EIA????????????CO2????????????EIA????????????

????????CO2????????IPCC?SSP5-8.5????????????2050????????????

??????Jr.????????????IPCC??
????????????????

IPCC?SSP5-8.5??
??

??

??

?



Posted in ???, ????? | No Comments »

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

?? ??? ?? · Friday, July 12th, 2024



Stadtratte/iStock

????????????2011??
??



?????????
Wikipedia

????????????23?1??
??3?????????
3??
??
??

??
??
??
??

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

??
??
??“OK”????????
??
??5000?????
?NATO????????????????????????????????

??
??1
1??

????????6?17????????GNP?2????????????????????
??

????????18????????????????????????????????????
??

??

??
????????NATO? ?????????????????????????????

6????????????18????????????6????????????????

??
??

??5000????
??“?
”????????????

??
??

??

??75????8????
????????????????????????580????530????????????
????????????

??

??

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

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

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

?? ?? · Monday, July 1st, 2024



zhengzaishuru/iStock

??????100???

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

????6????????????????????????????????180?????—????????????????????

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

GX????????????????????????????????DX????????????????????????DX????????????????????????
?100?kW????????100????????

????UAE????????COP28????????IAEA????????2050????3????????????????

????????????????????????10????????????????????DX/GX????????????

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

??????4???

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

1. ????????????
2. ????????????????????
3. ????????????

4. ?????????

?4?????

??
??

????1??????6000????1??

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

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

???????????

??6?25?4???????????

????????????????????????????????????5?15????????7????????????????????????4????????????
???????

??
??

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

??——????????
??

?????????DX?GX

??

??
??

??DX?GX????????

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

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

???????????????????? vs. ???????

?? ? · Saturday, June 22nd, 2024

REPowerEU 2030 100

European Hydrogen Backbone EHB 5

EHB EU 800 98 CO2



Petmal/iStock

2030 1000 2050 5000 CO2 10%

EU

FC

2017 2020 100 4 FC 2023 27 FC 8000

??

??????2030??
??

??????????????????1??
??3?4000??

??LNG??
??

??2030??750?70??

??t-
online????????????????EU??

????????????????????2017????2023??
????????????????????

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

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

??23??
??2???????

??
??

??????????23?8??????????????????????24??
????????????????????????????????

??
??

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

??3GW?7GW????
??????????3GW??????????

????????????????????3GW??100
??????????????????3GW??

??
??????3GW??
??

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



??
??

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

??
??

??
??
?????

??
??
?

??

??

??
??

??
??

??
??

?? ?

??

????????????????????SDGs??7????????????4????????
??

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

????COP29

?? ? · Friday, June 21st, 2024



COP29 HP??

6????????60????????????????SB60????????SB60????2023??COP28????????????????2024?11??COP29????????????????????

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

COP29????COP????????2015????????????????1000????????????????????????????????N CQG????????????NCQG?COP29????????????????2025????????????NDC????????????????????

????1.5????2050??

COP28????????????????????????2025????????2030??43??2035??60????2019????2030????? ??????3????????????2????????????1.5????????????????????????????????

????????????????NDC????????2030????6????????2050????????????????????2030?????4 .3????????2050?????5????????????????????????????

??

SB60????????

????????????????COP29????????????NCQG????????????????4??

??

COP29????????????????????1.5??

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

??

?? ?? · Monday, June 17th, 2024



1xpert/iStock

??

??



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

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

?? ?? · Sunday, June 16th, 2024



3alex/iStock

?????2050?CO2??GX????????????????

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

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

????????

??
??

????????????????????????????????200????????????????????

????????CO2??

??
???

????????CO2????????????????2050????????????G7????????????
????????????????????????????????????20????????????6????????????
????????

??

????????????????????????????????1992????????????????1991????????
??
??

????????????????????????2022????????????????????

??
????????????????????????????????NATO?G7????????????
????????

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

????????????????????????????180????????????????
????????????????????ESG????????????????

??

??EV??ESG??EU????EU????SDGs????
????SDGs????

?



Posted in ???, ????? | No Comments »

??

?? ? · Saturday, June 15th, 2024



RapidEye/iStock

???????? TSMC????vs.????????

?? ??? · Monday, June 10th, 2024



Hase-Hoch-2/iStock

???

????AI??

????????????????????TSMC????????????????????????????????????NTT?NEC????????????????????????????
?TSMC?2024?2????????????????????2025?4????????????????????????????

??

??

TSMC???????

????????????????????????????????????2024?4????????????????1kWh??28.78?/kWh????????3??10????
????????????????????28.51?/kWh??

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

??

????????????????TSMC????????????????????????

????TSMC????????????1811?kWh?2021??²²????????????????????????????20?/kWh????????3.6?/?
??

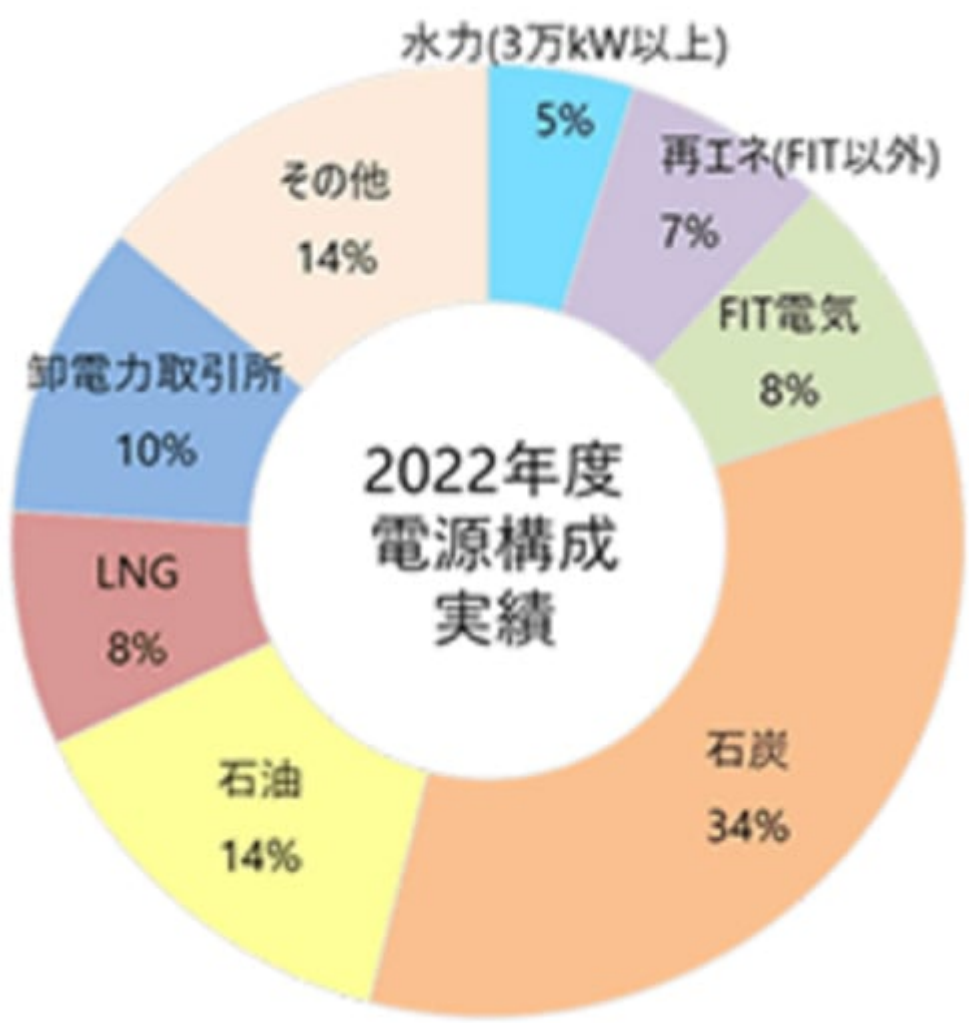
??

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



??3??2????3??1????????????????2????????
????????????????????

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



2020年
HP

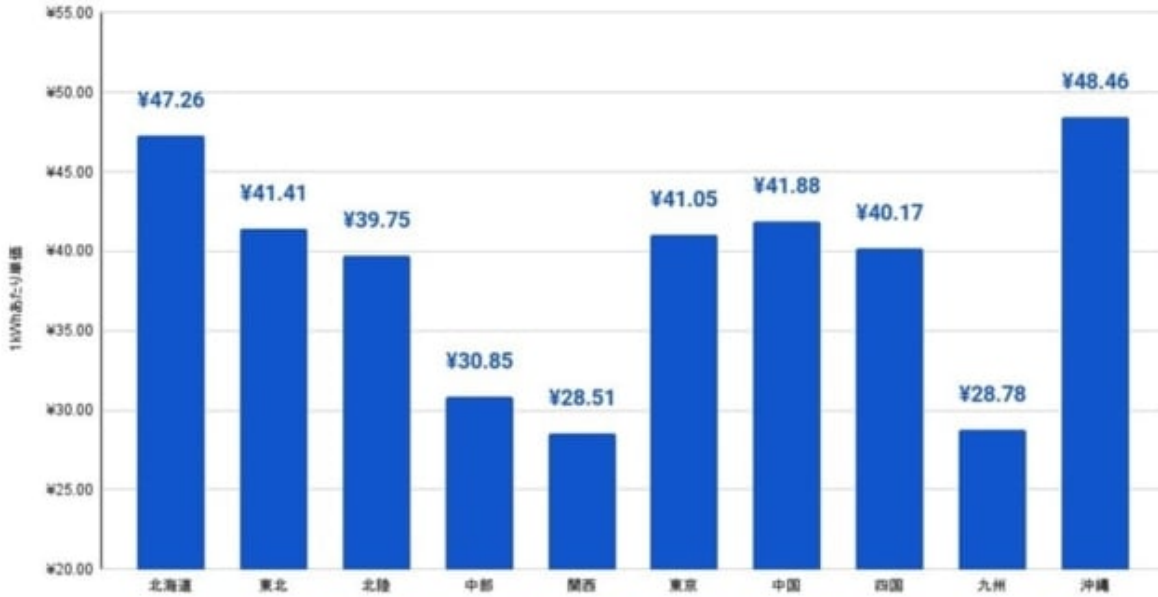
2024年4月1kWh 47.26/kWh
10月 48.46/kWh

2024年4月1kWh 47.26/kWh
10月 48.46/kWh

2024年4月1kWh 47.26/kWh
10月 48.46/kWh

10月1kWh

【地域別】電気料金1kWhあたりの目安単価 (2024年4月以降)



3?1kWh?????????1?

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

??

?2???TSMC?????????Fab18

????5?8??Fab18????????????????????????

Fab18

????5?8?????88?kW??????70?kWh??

70?kWh ×?47.26?28.78?/?kWh?1294?/?

????????

????????????????????????????1300??
????????????

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

88?kW????????????

88?kW × 24h × 365??77.0?kWh

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

70?kWh/77?kWh?90.9?

??

?????3?1??

??
??

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

???

??TSMC??

??

??

??
??

?1?1kWh????????????????????????????????
?2????????????????????????????????????? ?3? ?????????

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

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

?? ?? · Saturday, June 8th, 2024



Tula Kumkrong/iStock

?????7????????????????

2050??CO2??????2040??CO2????????????

????????????????????2040????????????????

???2050??CO2????????

??????2???

?1????????????????CO2????????4????????6????????
CO2????????????????????????????????????

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

????????????????????????????????17????????83????
????????

????????????????????35????????65????

????????????????????17????83????
????83????

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

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

????????????2023????508.1TWh????53????
????47????17????16????9????

????47????CO2????

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

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

????????

????

????

????2030??2040????
????

??CO2????

?



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

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

?? ?? ? - Friday, June 7th, 2024

6?9?????6?9???EU?5????????????????????????????27?????????????????720?????????????????99?????????????
????????????????????????????????6???



Sinisa Vidic/iStock

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

31????????????????????EU??EU?????
?????????

????????EU????????????27??27??
??????EU??



EU??
????????????2019????????????????????CSU????????????????
??
????????????????????

??EU????????
????????????EU????????????????????5??EU????
????????????????????????????????????

??3?
??
??

????EU????????4????????????????????????????????
??
????????????????????????????????????

????????1????????????????????????21????????????
????????CEO????????????????????????????????E
U??22??23????18????????????????????
????????????????????

????????????????
Wikipedia??

??
????????????????????????????????????350????
????????????????????15.5????19.5????
??????

??EU??
????????????????????????????????“????”????19.5????10????????????

??
??EU????????7????????????????21?10??
????????????????????

??29??
??

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

??????5?24????????????????????????12?6????????????????????
????????????????CDU????????????????????????????????
????????????????????????

????????????19????????????

????????????2011????????????FIT????
??????

????????????40????????????EU????
????65????????



2011????65?/kWh?FIT????40????
?20????

???????????? <https://t.co/iZypBM74D5>

— ??? (@ikedanob) April 18, 2024

2012?12????40????42????20????
????20????

????2030????44????
???

????????TF

2022?3?22????3?17????335????
????3????

????TF????3????1000????
????4500????270????67????5????

????TF????????????????????
????

????????????????????
????TF????

????????

3?11????2????FIT????
????

????1990????
????

????
????

????(JEPX)????

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

????????????????1????????????????3????????????21????????????????????????????????
??

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

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

????????TF??2021????6????????????
??



??TF????????????TF????
?????

?? <https://t.co/JxGxQd6abK>

— ??? (@ikedanob) March 27, 2024

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

????????????????????????????????????1?2????????????????????????????????????
??

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

??TF????????????????????2023?12?
??

????????????????????????TF??
????????????????????????????

????????????????????TF??
??

???TF??
??

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

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

?? ?? · Sunday, May 26th, 2024

??

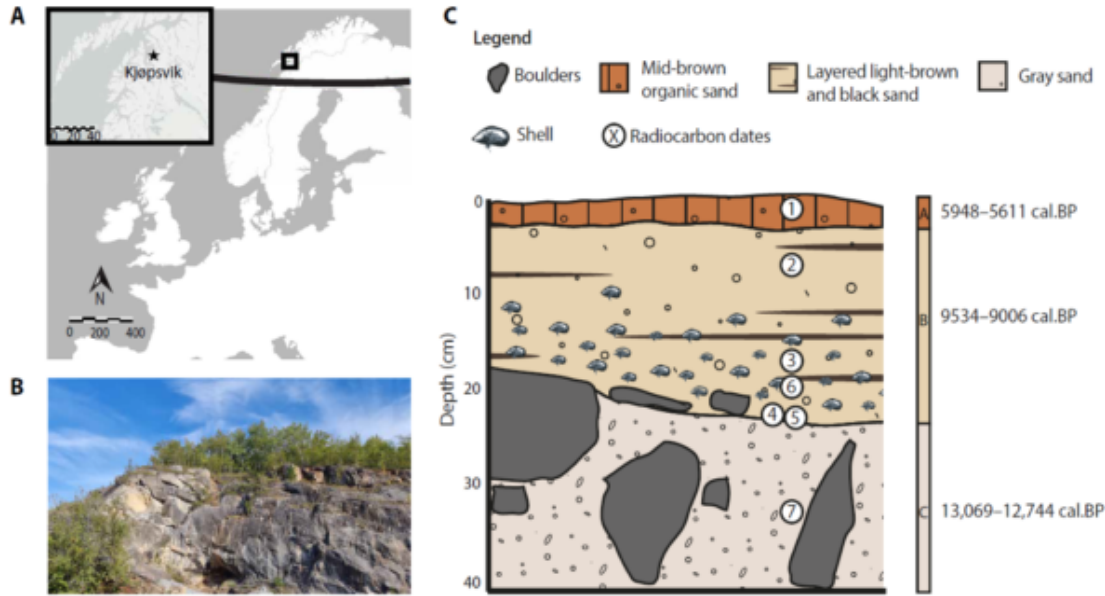
??
?????



??
??DNA??

?????Boilard et al,
2024??????82????????????DNA????????????????????????????????
??

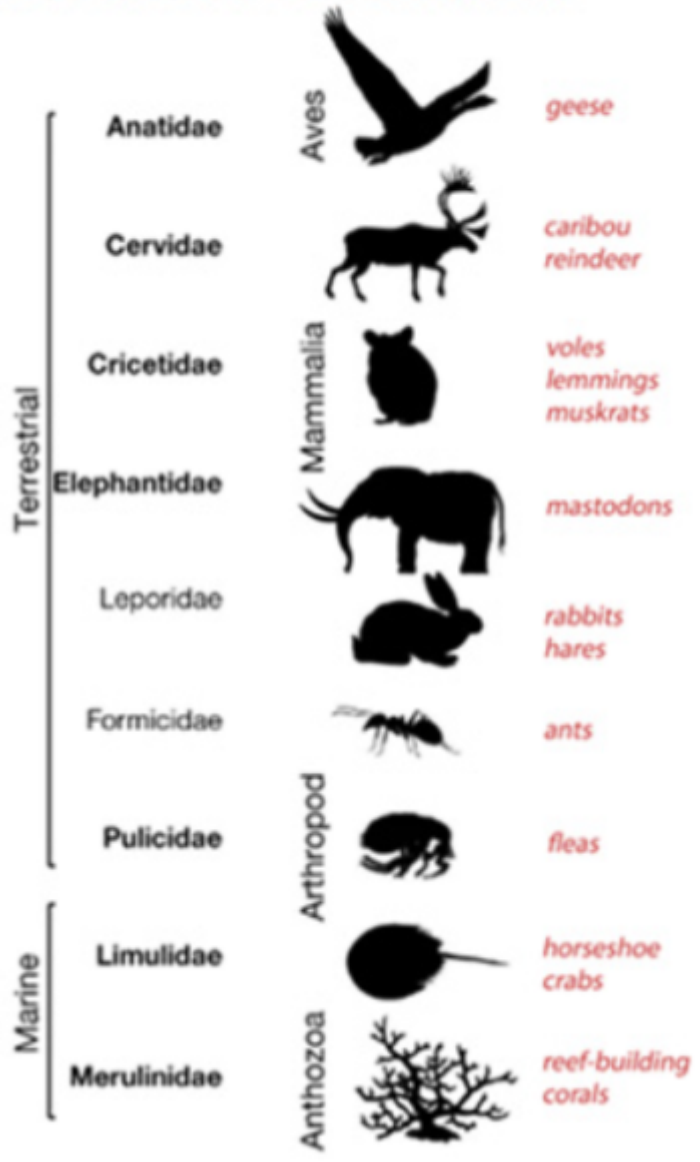
??45????????
??????



????????????DNA????????????????????????????360????80????????????????????11????19????????????????
????????????????????????????Kjaer et al.2022??



Fig. 4: Early Pleistocene animals of northern Greenland.



??

?????DNA??
??

?



Posted in ???, ????? | No Comments »

??

?? ?? · Saturday, May 25th, 2024



KE ZHUANG/iStock

80????????????????2040??

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

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

???

??
?

2022????10kW??
??
??????????????????????????

??
?? ???? ???? ???? ???? DfE Design for
Environment??

??

??PCB?Poly Chlorinated
Biphenyl??

??

??????

??
??

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

??

??

??PCB????????
??
??

??PCB????????
??

??

??

??

??

?

6?14????????????????????



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

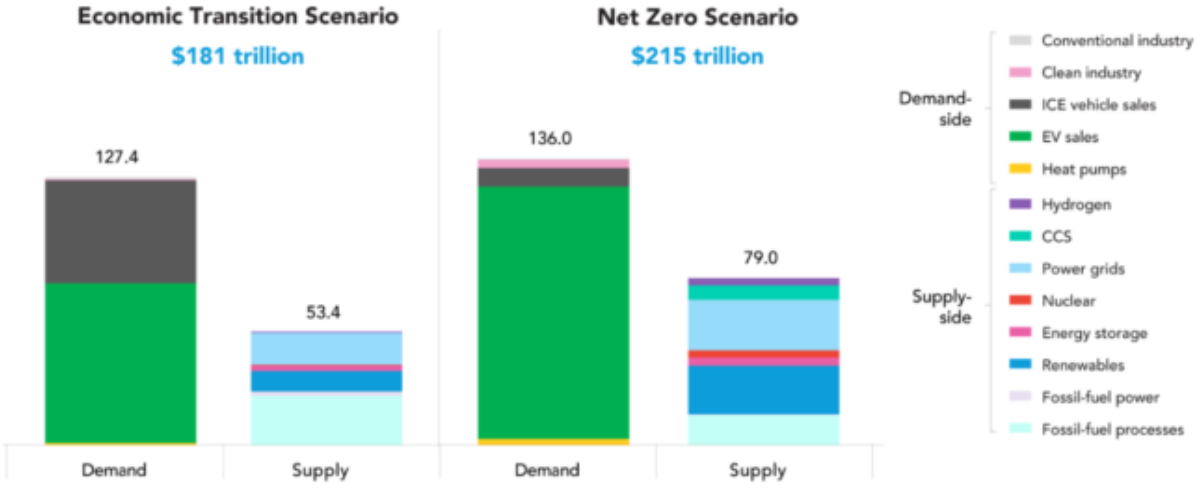
Posted in ??????????, ??? | No Comments »

???0.85?????????5300????????????????

?? ?? · Thursday, May 23rd, 2024

????????????????????????????????3.11????????????????????7????????????????????
????????????????????

Global energy investment and spending across 2024-2050, Economic Transition Scenario and Net Zero Scenario



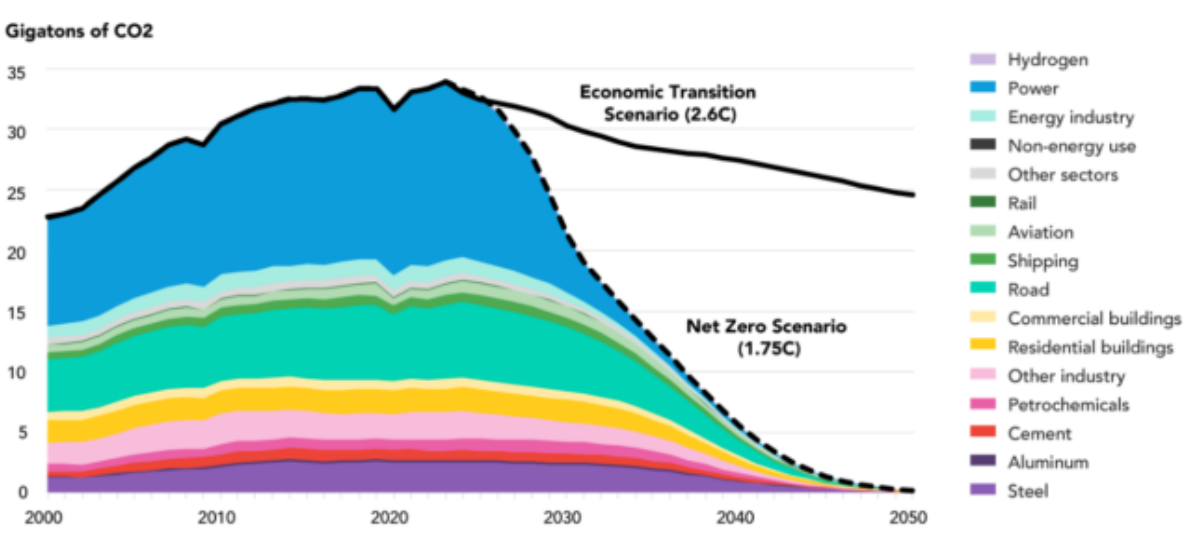
Source: BloombergNEF. Note: ICE is internal combustion engine, EV is electric vehicles. The numbers above the bars indicate cumulative investment and spending figures from 2024 to 2050.

Bloomberg??

????????????????????????????????181????????2050??215????????34????????
????????????????????????????????????

??2050????????2.6????????????????1.75????????????????
??34????????0.85????????????

Energy-related emissions and net-zero carbon budget, Economic Transition Scenario and Net Zero Scenario



Bloomberg??

Table 2. Social cost of carbon, alternative scenarios (2019\$/tCO₂)

Scenario	Social cost of carbon (\$/tCO ₂ , 2019\$)		
	2020	2025	2050
C/B optimal	50	59	125
T < 2 °C	75	89	213
T < 1.5 °C	3,557	4,185	16,552
Alt damage	124	146	281
Paris extended	61	72	159
Base	66	78	175
R = 5%	32	37	74
R = 4%	49	58	107
R = 3%	87	102	172
R = 2%	176	207	302
R = 1%	485	571	695

This table shows the importance of discounting and alternative damage estimates on the SCC. It includes the SCC for the 1.5 °C scenario to indicate the cost induced by the catastrophic loss of output to reach the target. The label "R = X%" is scenario with a constant discount rate of X% per year.

Barrage-Nordhaus

????T?1.5????4185????9000????2100????2.6????2050
????70????

??

??0.85????????????????

??COP28??
????????????????

??

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

21????????????LNG????????????

?? ?? · Thursday, May 23rd, 2024



Oleksii Liskonih/iStock

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

????????EIA????2023????LNG????22??12%????119??????11.9Bcf/d????????
????????LNG????????

??2000?
????????????10????2016????????????????????????????LNG????????????LNG????????????23?
12????LNG???13.6Bcf/d????????????

????????????LNG??2023??LNG?????
????????????????????????????????LNG????????????????????

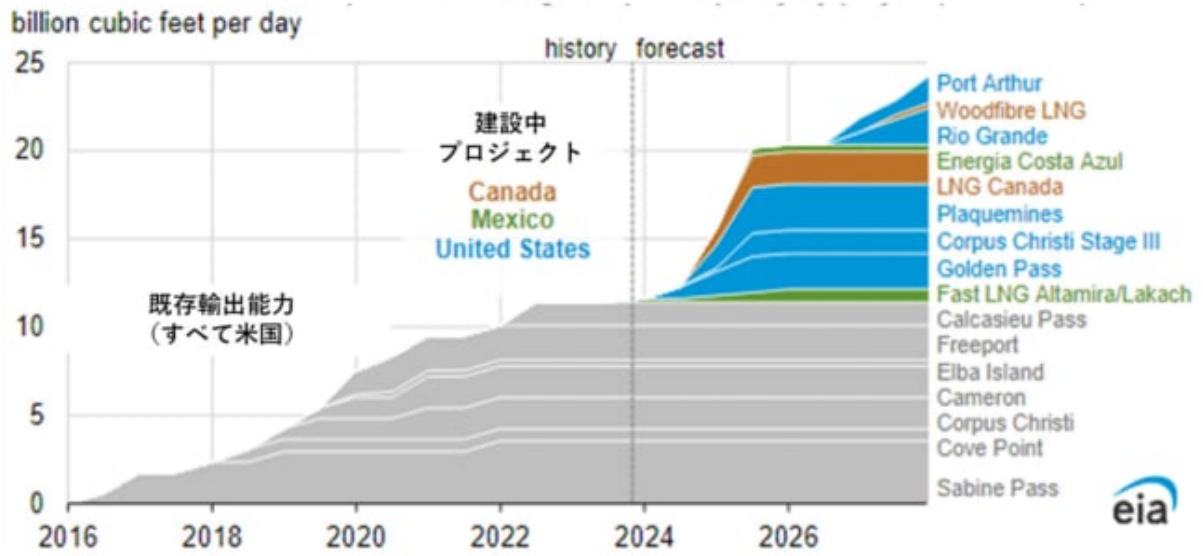
20??
????????????????????????????

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

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

??21??
??

北米におけるLNG輸出設備プロジェクト別能力（2016－2027）



????????????????”Today in Energy”

????????????????????????????????????LNG????????????????LNG?????4????????????????????????????

??
??

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

??20????????????????????21????????????????????????????????????

??

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