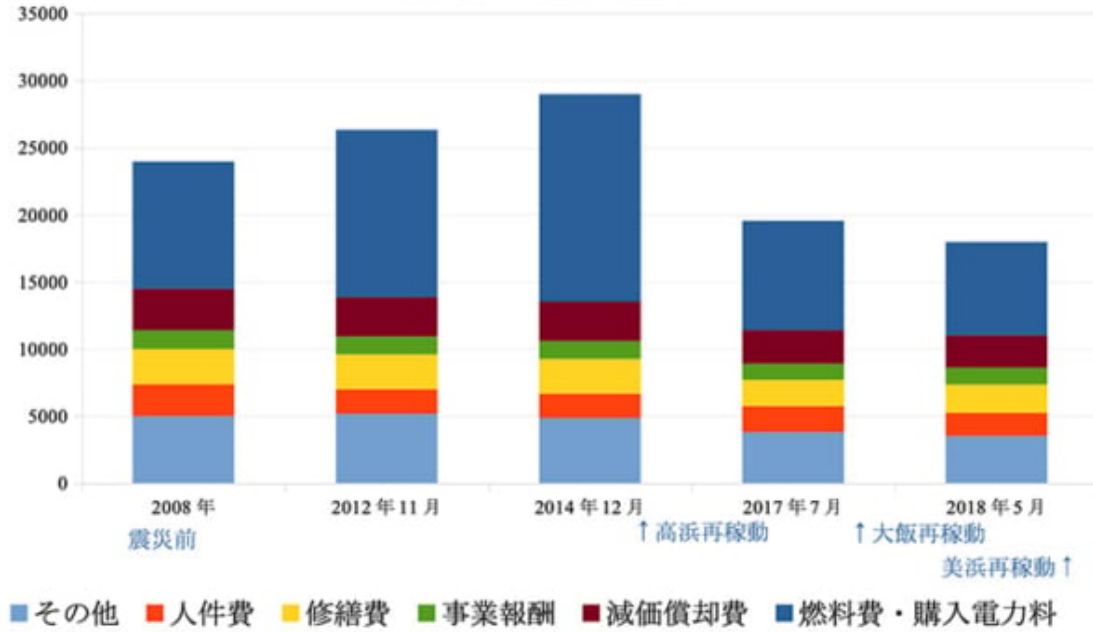








関西電力電気料金原価推移



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、電力の調達コストを構成する主要な要素です。

減価償却費は、発電設備の耐用年数に基づいて算出される費用です。

事業報酬は、電力の供給に際して電力会社に対して支払われる報酬です。

修繕費は、発電設備の維持管理に必要となる費用です。

人件費は、電力会社の従業員に対する給与や福利厚生などの費用です。

その他は、燃料費・購入電力料以外の諸費用を指します。

## 3. 燃料費・購入電力料の推移

燃料費・購入電力料は、関西電力の電気料金原価の約半を占めています。

2018年5月の燃料費・購入電力料は、2008年震災前と比較して約2割減少しています。



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1966????1990??

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

## ????????????????????

?? ? · Wednesday, August 7th, 2024



imagedepotpro/iStock

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Climate????????????????????????????????7?20????????64????????????????????

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**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????????????  
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2????????????????????1?2mm/????????????????100????????????????????  
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3?2004??????1900m????????????0.037????????????????0.2????0?100m????????  
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4?CO2????????????????????CO2????????????????????????????????

5?2020?2021??COVID??GHG????????????CO2????????????????CO2?????  
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CO2??2.9%????CO2??2020?2021??COVID????CO2?????  
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????CO2??200           Gt-C/????????????????3?4           Gt-  
C/????????????????

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

IPCC????CO2????CO2????  
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21????

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

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

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CO2????100????  
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Posted in ???, ????? | No Comments »

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?? ?? · Tuesday, August 6th, 2024



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

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?? ?? · Monday, August 5th, 2024



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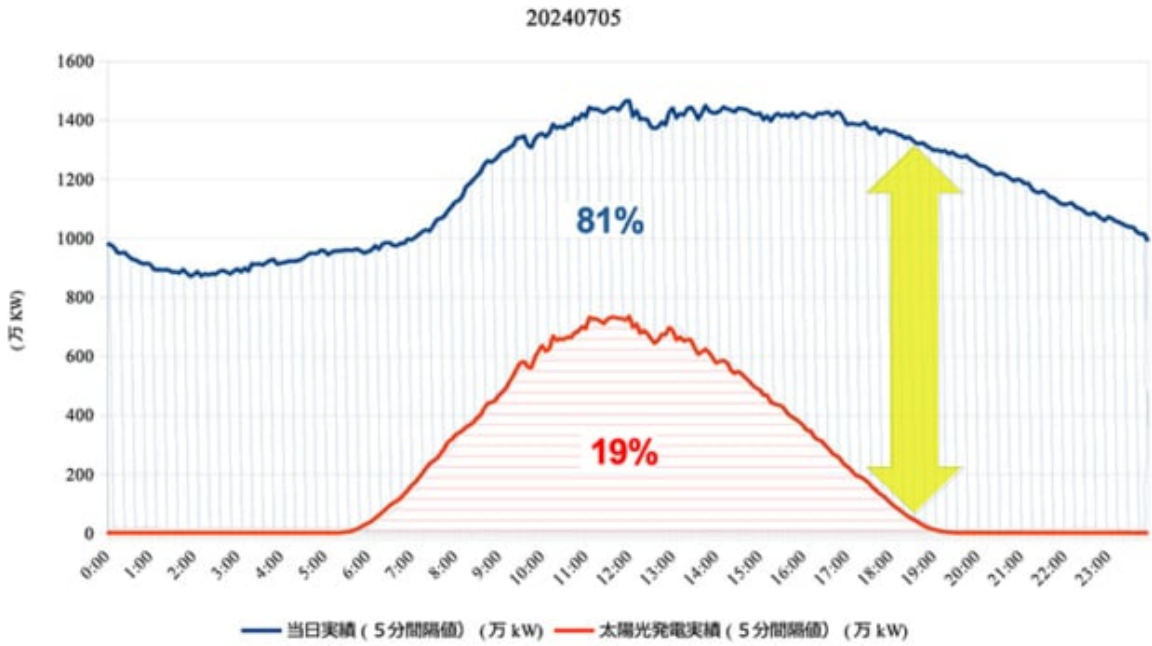


Posted in ??????????, ??? | No Comments »

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GEPR??? · Friday, August 2nd, 2024





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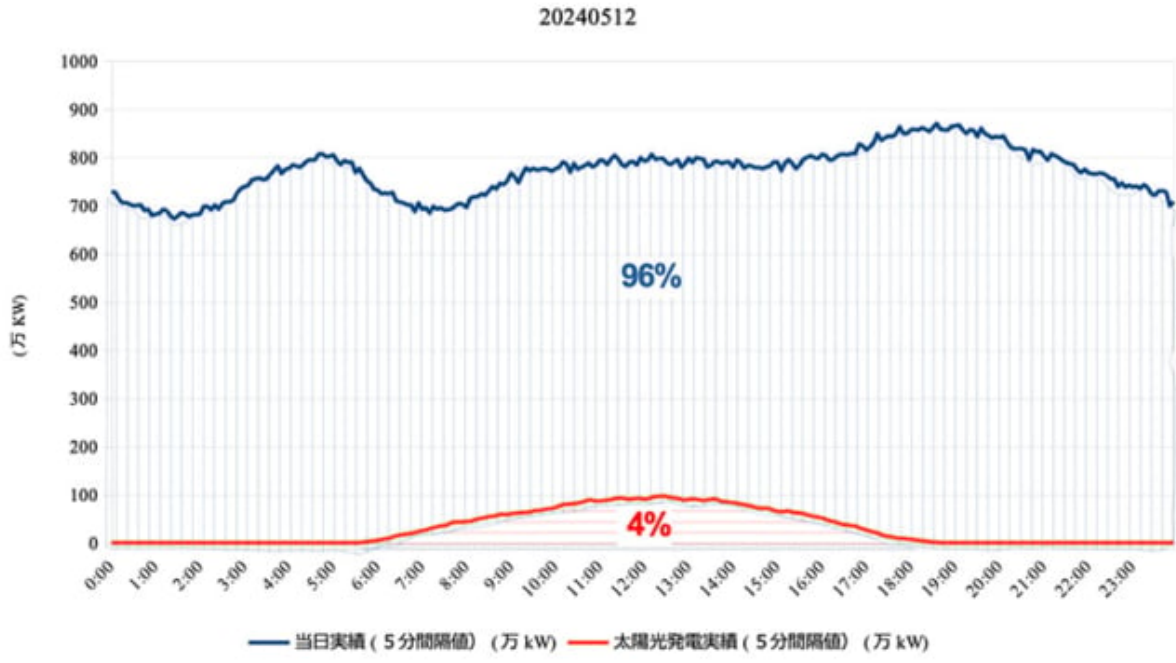
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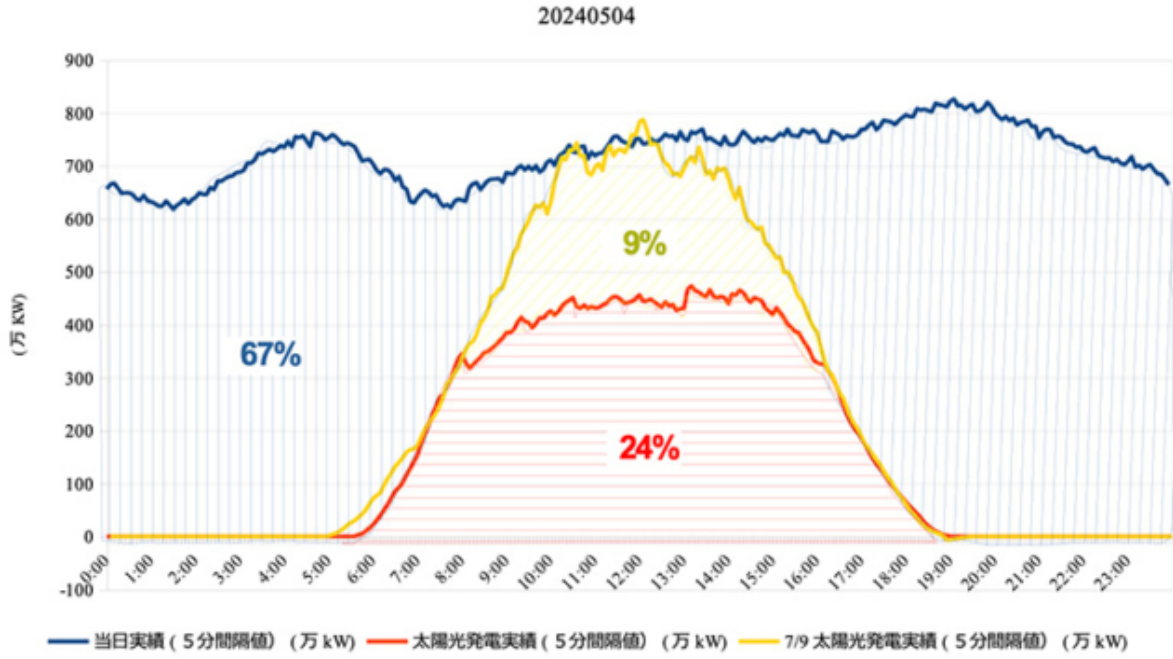


?3?????????  
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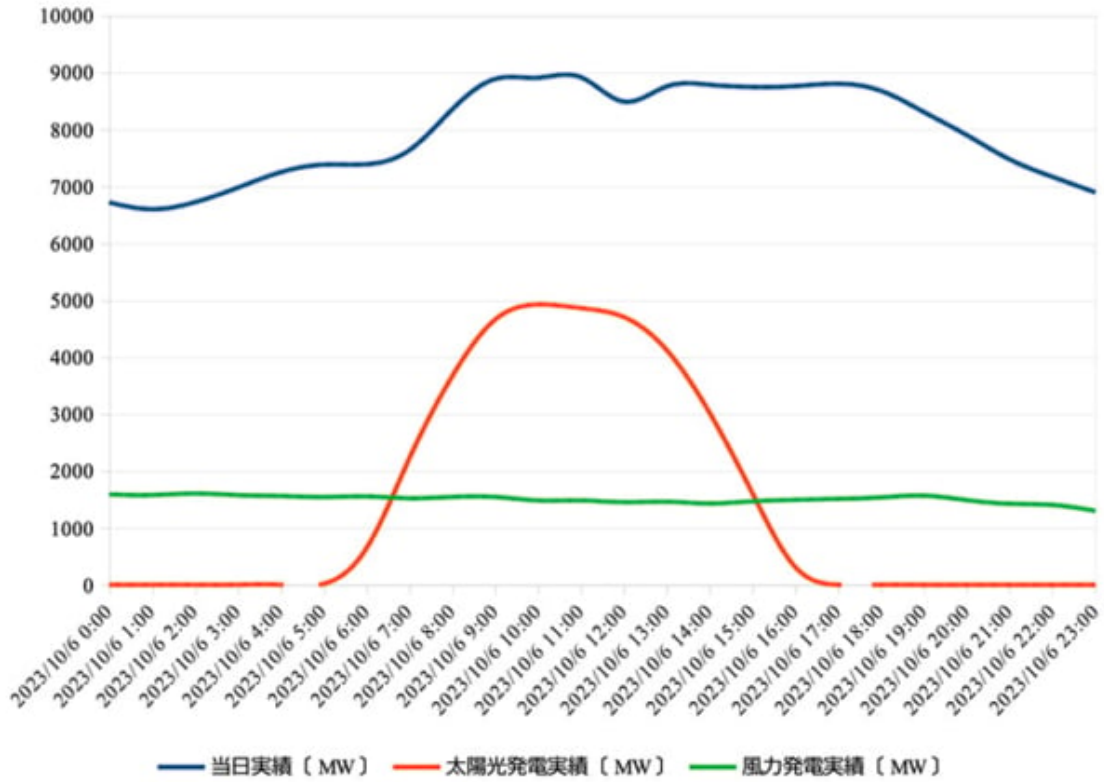
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**2. ????????????????**

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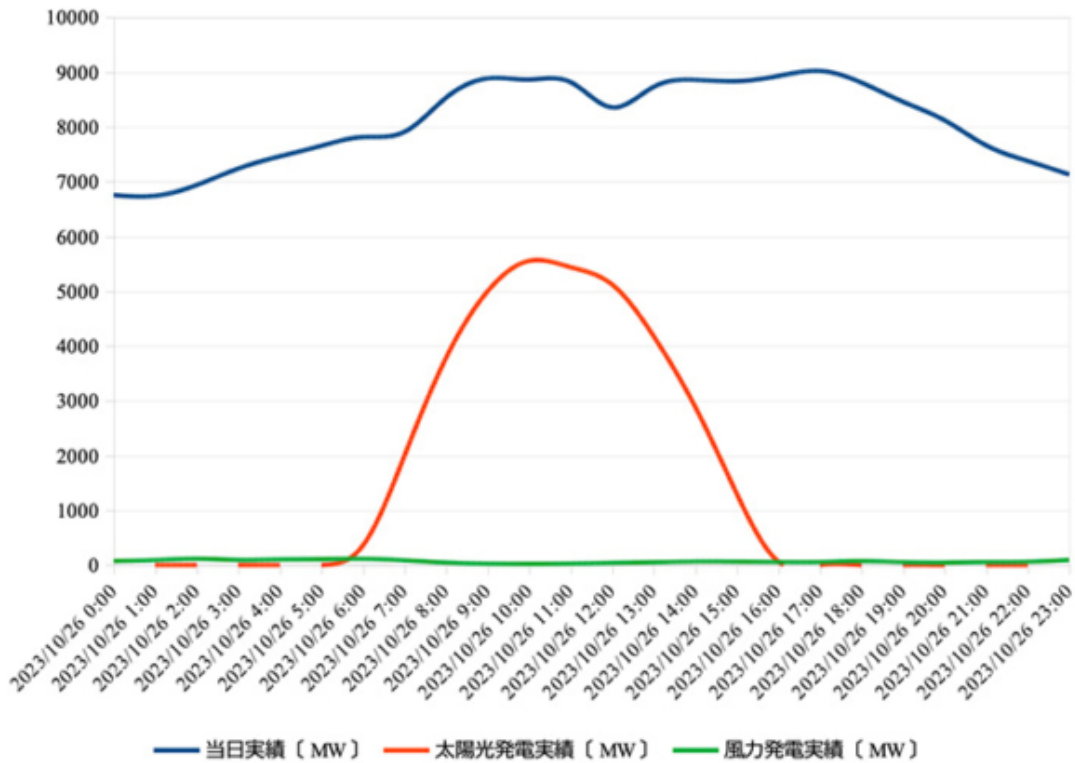
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Posted in ??????????, ??, ????????? | No Comments »

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?? ? · Saturday, July 27th, 2024

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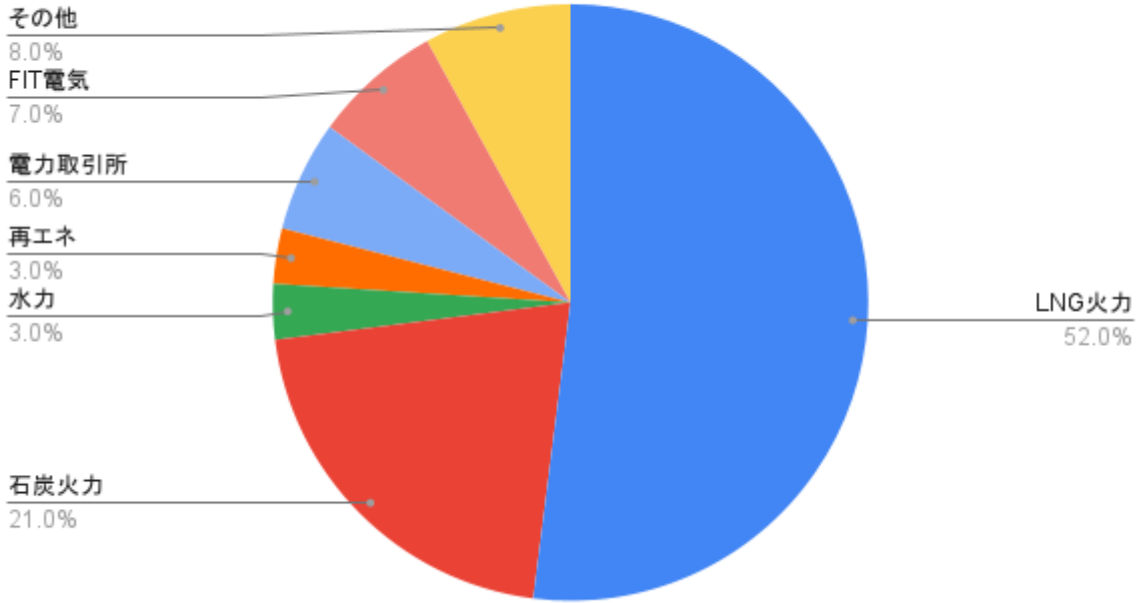
?3?????????????????







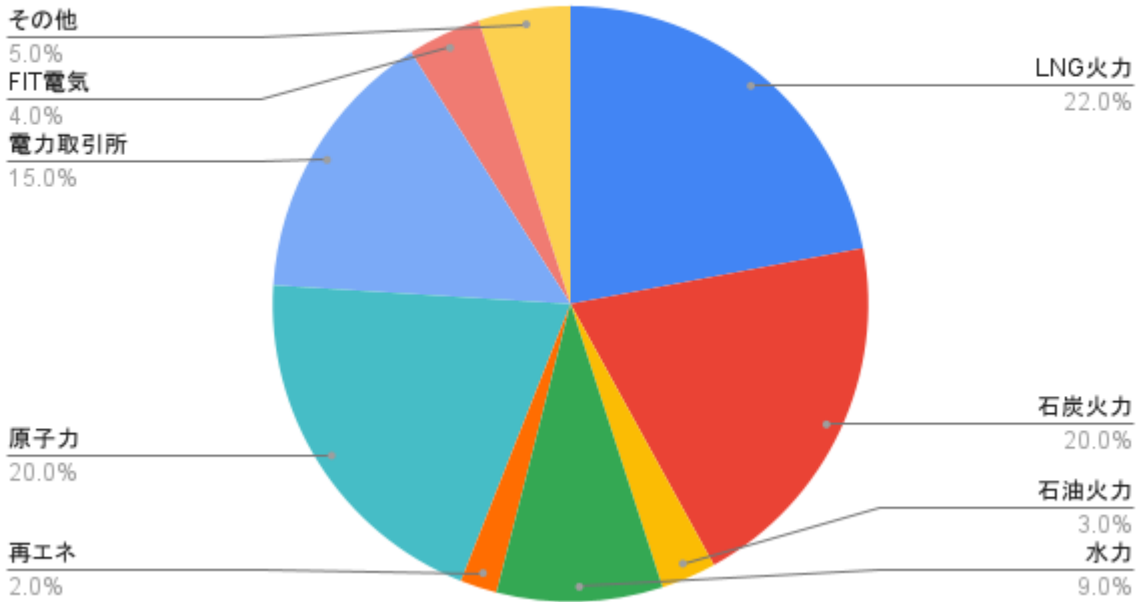
### 東京電力 2022年度実績



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???????LNG?????73????????????????27??CO2????????  
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### 関西電力 2022年度実績



?2????????????????3?

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



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?? ?? · Saturday, July 20th, 2024




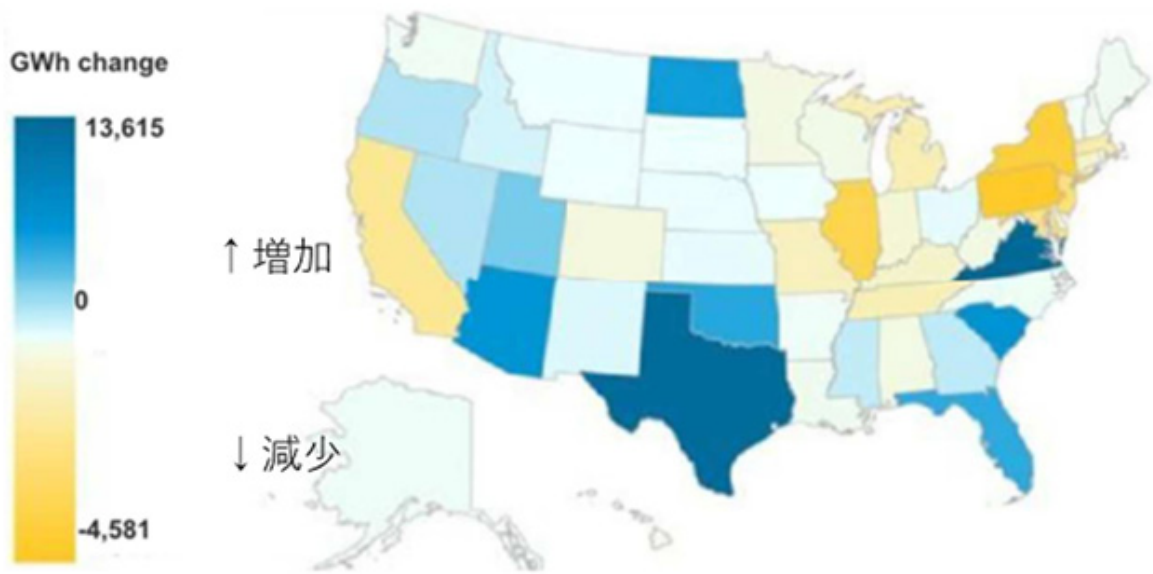
da-kuk/iStock

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??6????????????????EIA????????????????<sup>21</sup>????2019??23??4????????????????????????????????  
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**U.S. states change in commercial sector electricity consumption (2019–2023)**  
change in annual sales of electricity to commercial customers, gigawatthours (GWh) 



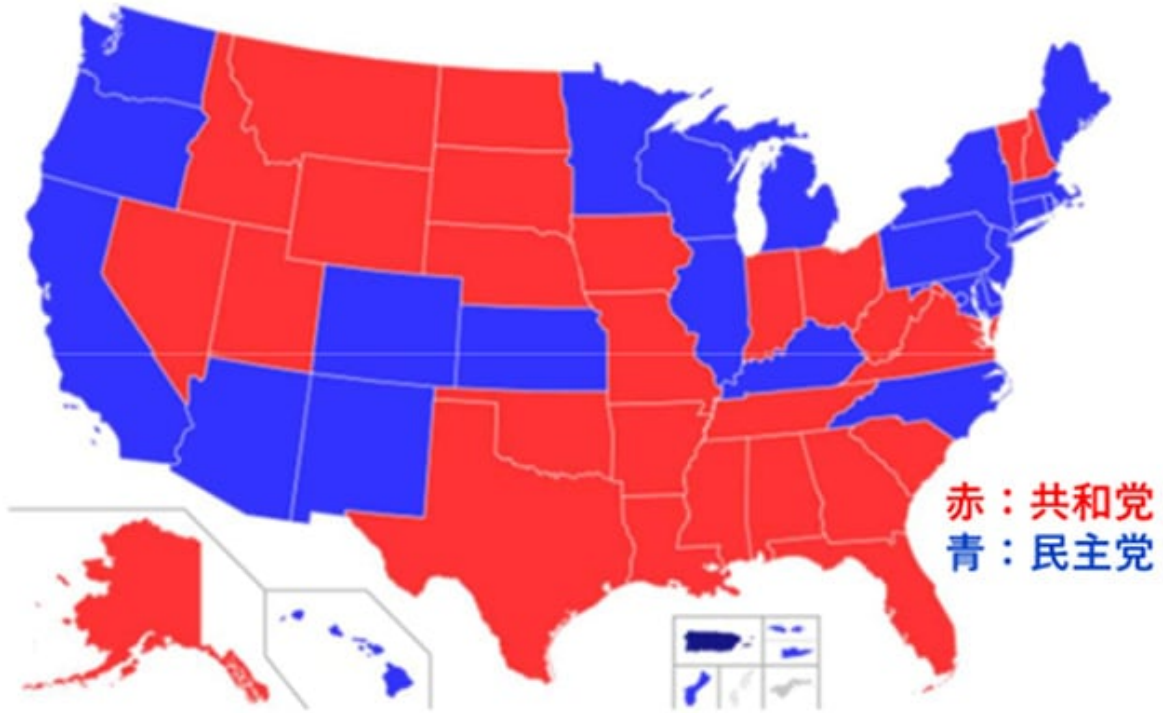
Data source: U.S. Energy Information Administration, [Electricity Data Browser](#)

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

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

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



出典：Wikipedia “ List of current United States governors”

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

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??<sup>22</sup>2019????94????????????????????????????????  
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?1?“Commercial electricity demand grew fastest in states with rapid computing facility growth” Today in energy, IEA,  
June 28, 2024

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

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

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

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?? ?? · Tuesday, July 16th, 2024

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





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?? ?? · Saturday, July 13th, 2024



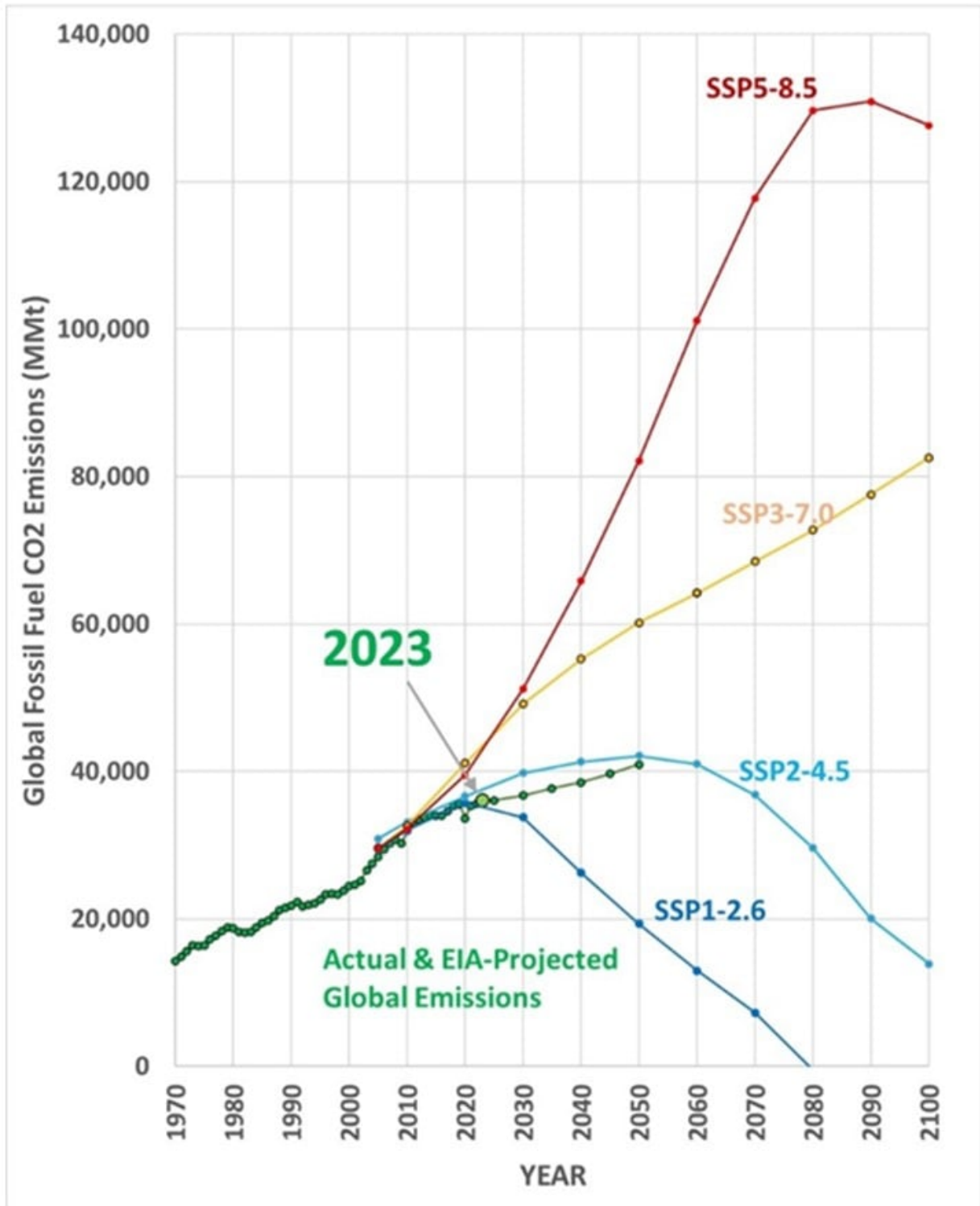
alexis84/iStock

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

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

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IPCC?SSP5-8.5??  
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Posted in ???, ????? | No Comments »

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?? ??? ?? · Friday, July 12th, 2024



Stadtratte/iStock

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

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?? ?? · Monday, July 1st, 2024





zhengzaishuru/iStock

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

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?? ? · 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

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

## ????COP29

?? ? · Friday, June 21st, 2024



COP29 HP??

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

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

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SB60????????

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

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

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?? ?? · Monday, June 17th, 2024



1xpert/iStock

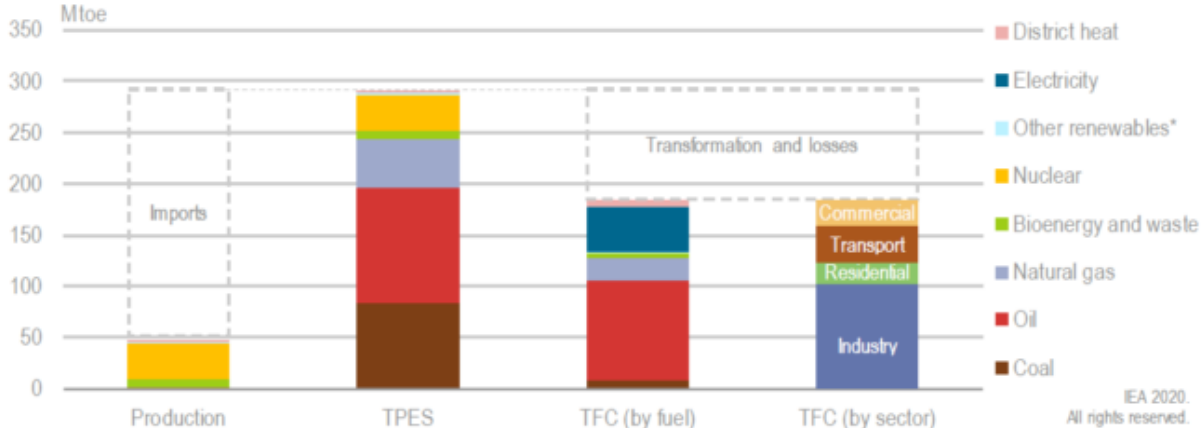
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Figure 2.2 Overview of Korea's energy system by fuel and sector, 2018



Both energy supply and demand in Korea are highly dominated by fossil fuels due to a strongly developed industry sector.

\* Other renewables includes wind power, geothermal, hydro and solar energy. Note: TPES = total primary energy supply. TFC = total final consumption. Source: IEA (2020), IEA World Energy Statistics and Balances (database), www.iea.org/statistics.

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

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?? ?? · Sunday, June 16th, 2024



3alex/iStock

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

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

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Posted in ???, ????? | No Comments »

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?? ? · Saturday, June 15th, 2024



RapidEye/iStock











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????????????????????28.51?/kWh??

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

????TSMC????????1811?kWh?2021??<sup>22</sup>????????????????????????????20?/kWh??????3.6?/?  
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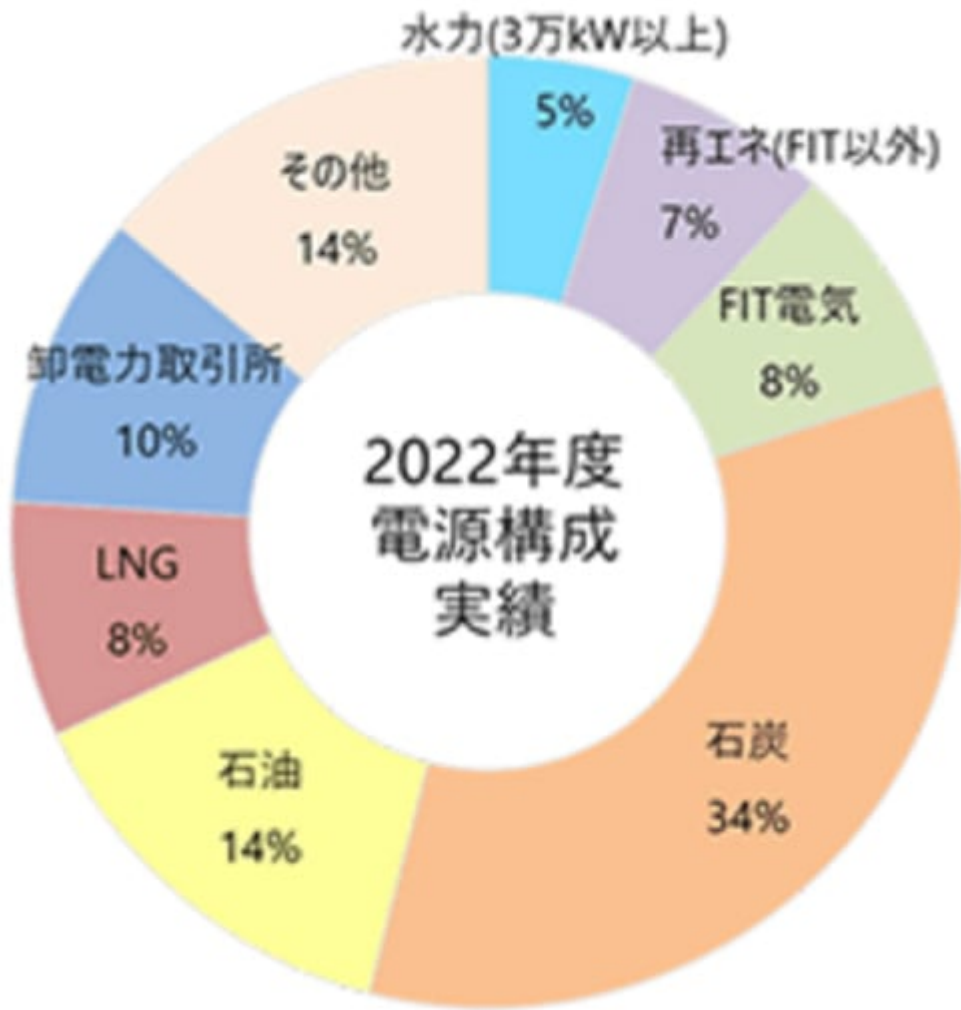
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??3??2????3??1????????????2????????  
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2020年  
HP

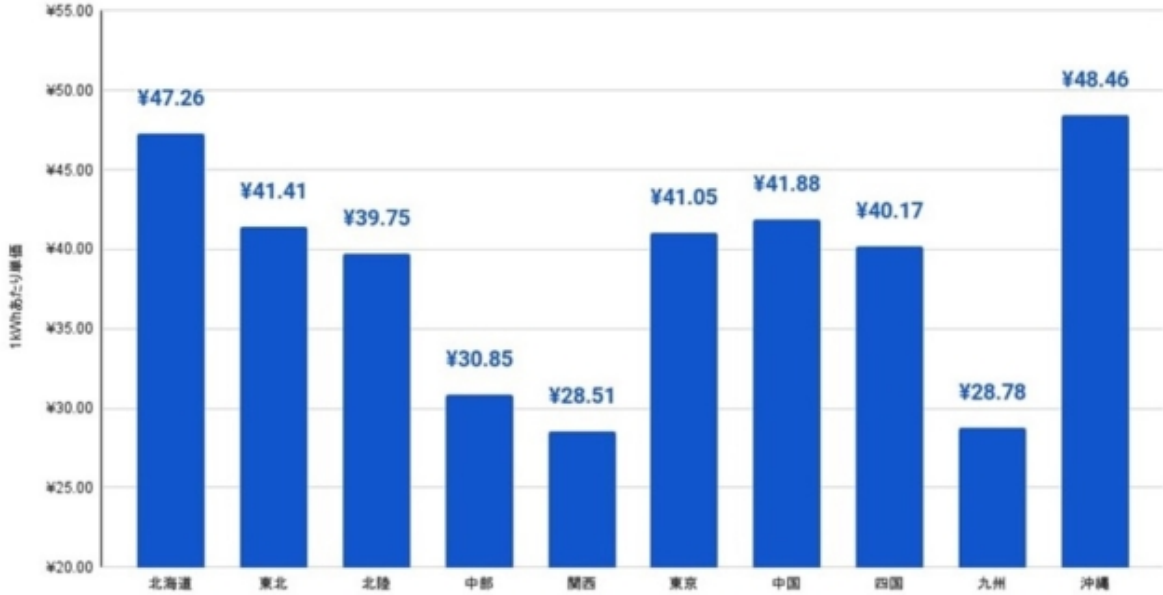
2024年4月1kWh 47.26/kWh  
3月10日 48.46/kWh

2024年4月1kWh 47.26/kWh  
3月10日 48.46/kWh

2024年4月1kWh 47.26/kWh  
3月10日 48.46/kWh

3月10日 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?

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

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Fab18

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70?kWh ×?47.26?28.78?/?kWh?1294?/?

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

88?kW × 24h × 365??77.0?kWh

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70?kWh/77?kWh?90.9?

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

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

## ????????????????????

?? ?? · Saturday, June 8th, 2024



Tula Kumkrong/iStock

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

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

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

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U??22??23????18????????????????  
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Wikipedia??

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— ??? (@ikedanob) March 27, 2024

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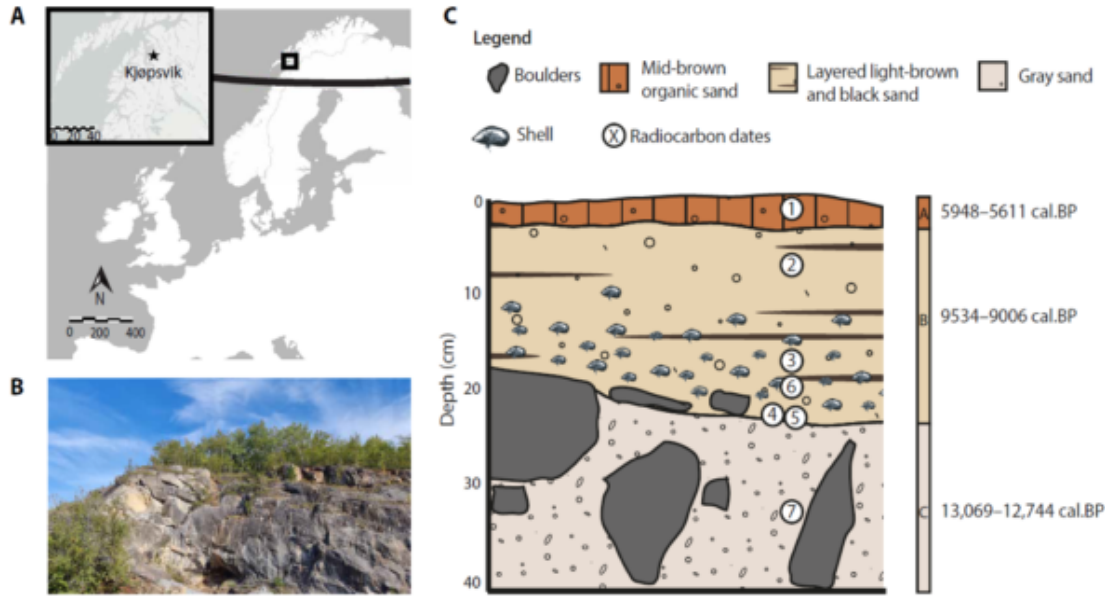
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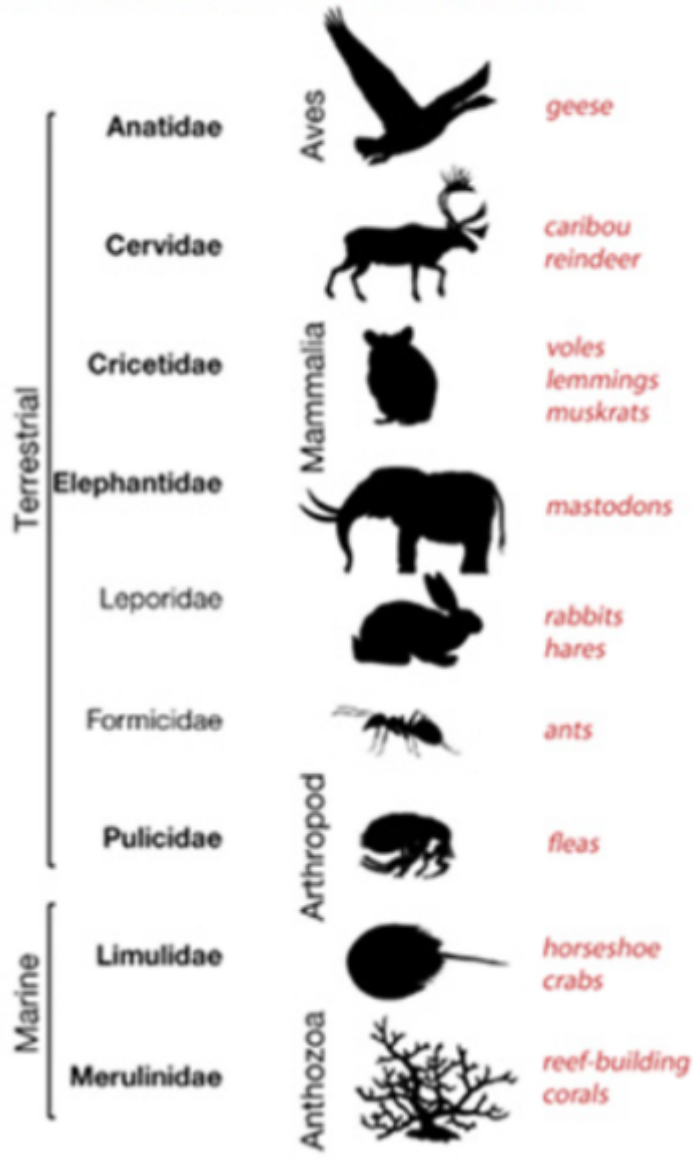
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# Fig. 4: Early Pleistocene animals of northern Greenland.



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KE ZHUANG/iStock



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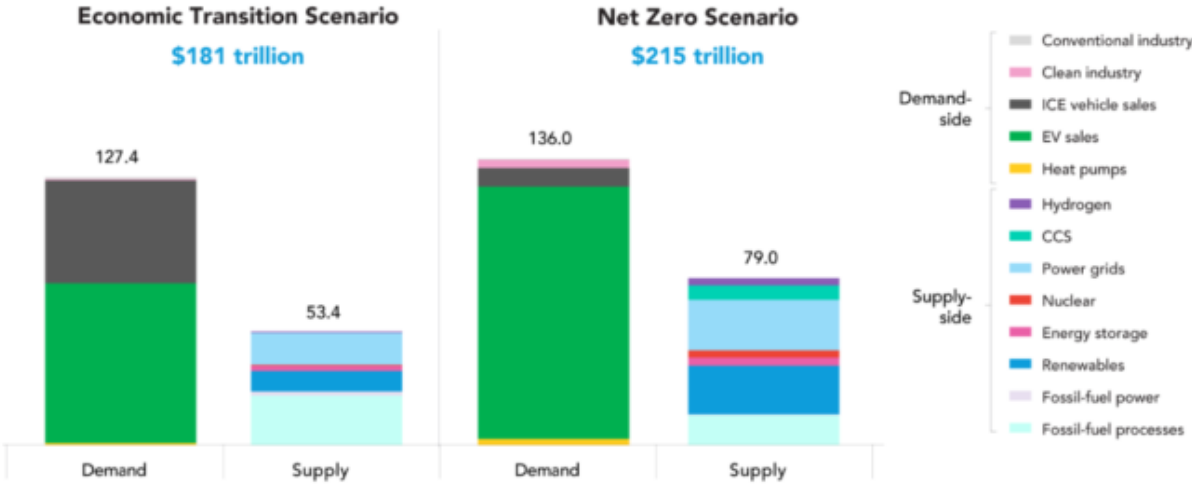
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### Global energy investment and spending across 2024-2050, Economic Transition Scenario and Net Zero Scenario



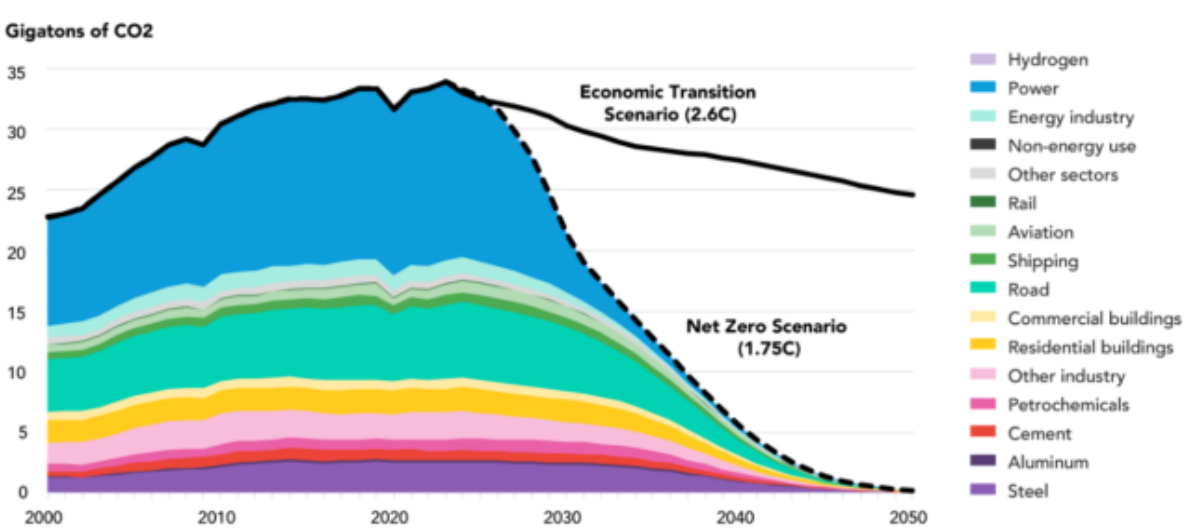
Source: BloombergNEF. Note: ICE is internal combustion engine, EV is electric vehicles. The numbers above the bars indicate cumulative investment and spending figures from 2024 to 2050.

Bloomberg??

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### 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\$/tCO<sub>2</sub>)**

Scenario	Social cost of carbon (\$/tCO <sub>2</sub> , 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

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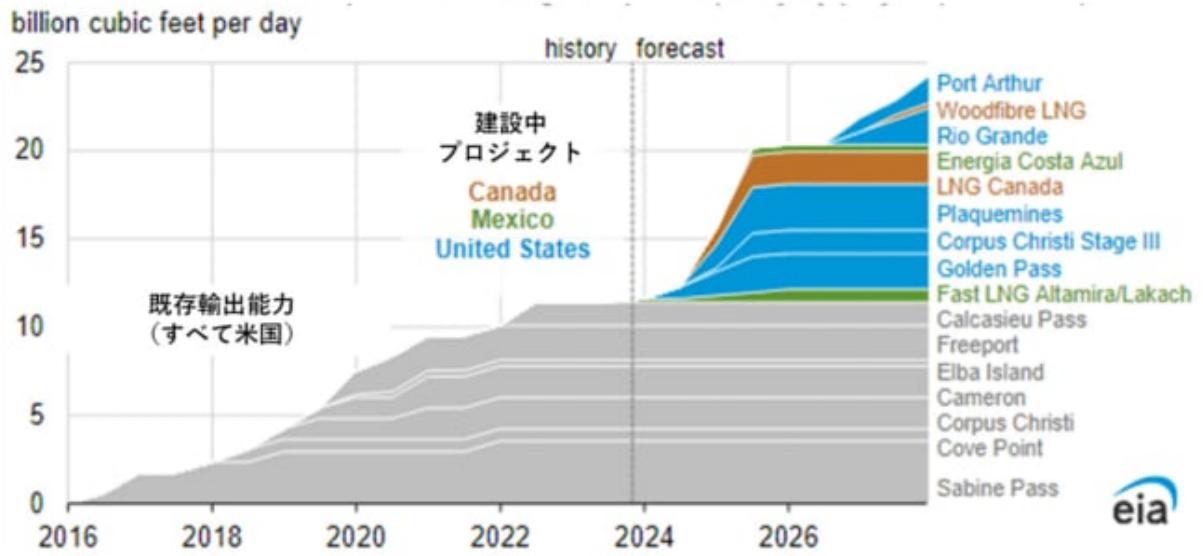
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### 北米におけるLNG輸出設備プロジェクト別能力（2016－2027）



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Voyagerix/iStock

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