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Posted in ???, ?? | No Comments »

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GEPR??? · Friday, August 16th, 2024

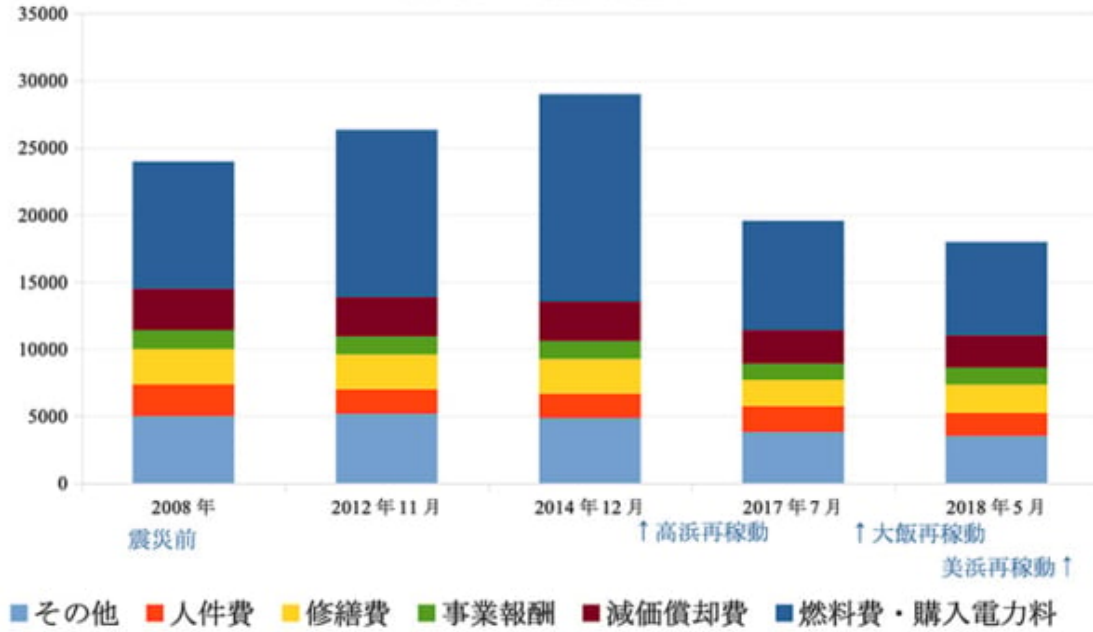


songqiuju/iStock

2024?7?24??

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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. 電気料金原価の構成

燃料費・購入電力料が最も大きな割合を占める

減価償却費は、設備投資の増加に伴って増加傾向にある

事業報酬は、電力の供給不足に伴って増加傾向にある

人件費は、電力事業の拡大に伴って増加傾向にある

修繕費は、設備の老朽化に伴って増加傾向にある

その他は、燃料費・購入電力料を除いた他の費用

燃料費・購入電力料は、燃料価格の変動に大きく影響を受ける

3. 燃料費・購入電力料の推移

燃料費・購入電力料は、燃料価格の変動に大きく影響を受ける

2014年12月の高浜再稼働以降、燃料費・購入電力料は減少傾向にある

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1966????1990??

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

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?? ? · Wednesday, August 7th, 2024



imagedepotpro/iStock

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

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

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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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industrialization????????????????????????????????????2????????????????????????????
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SENATOR VANCE DELIVERS A “WAKE UP CALL” TO MUNICH SECURITY CONFERENCE

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

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?? ?? · Monday, August 5th, 2024



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

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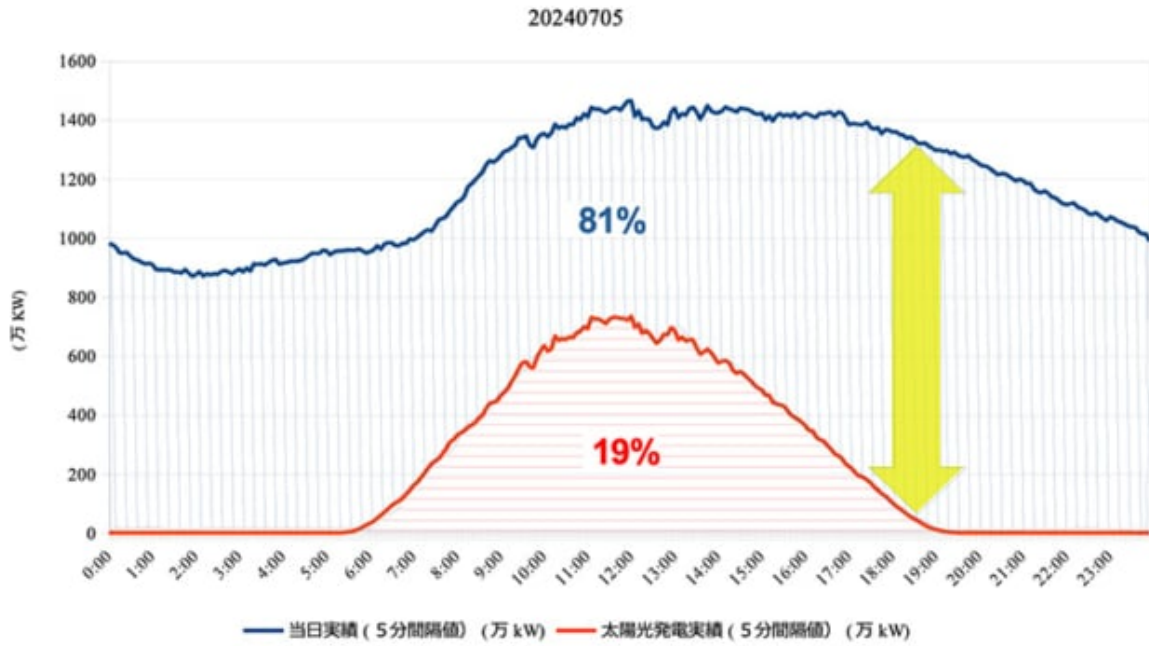
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Posted in ??????????, ??? | No Comments »

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GEPR??? · Friday, August 2nd, 2024



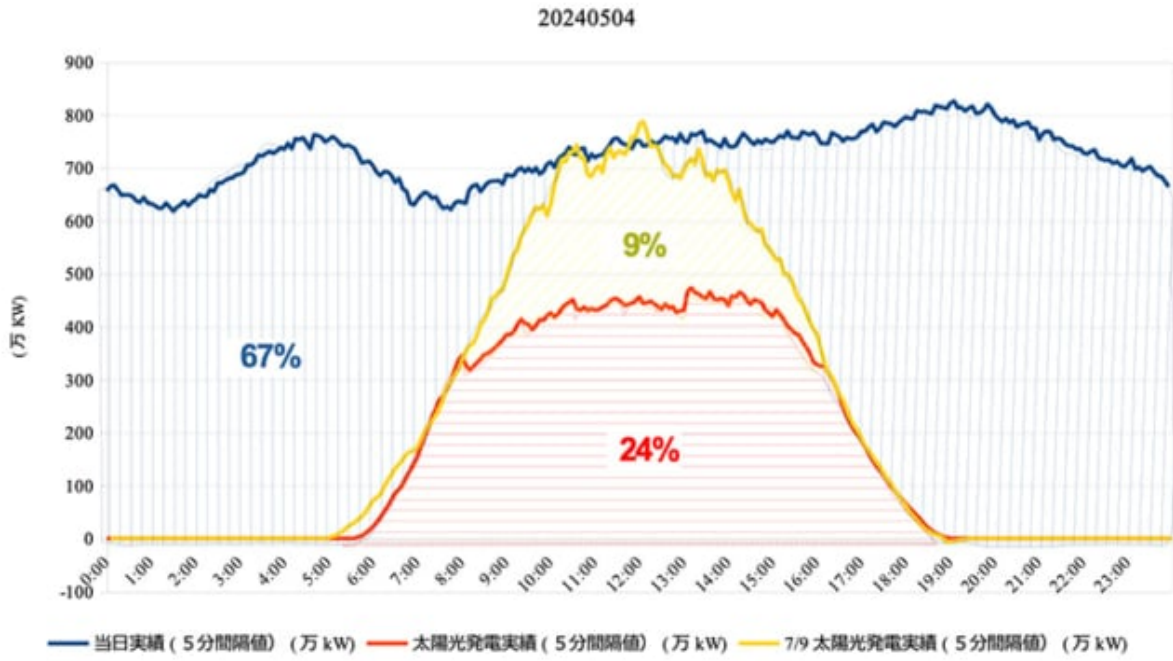
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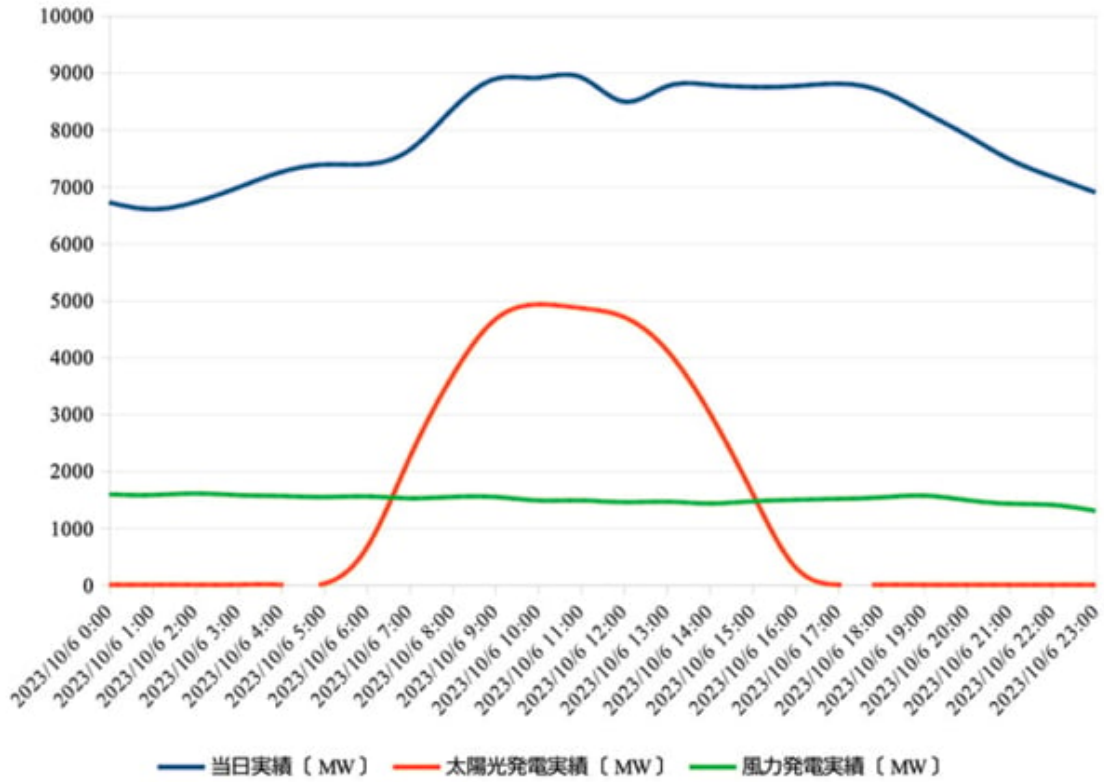
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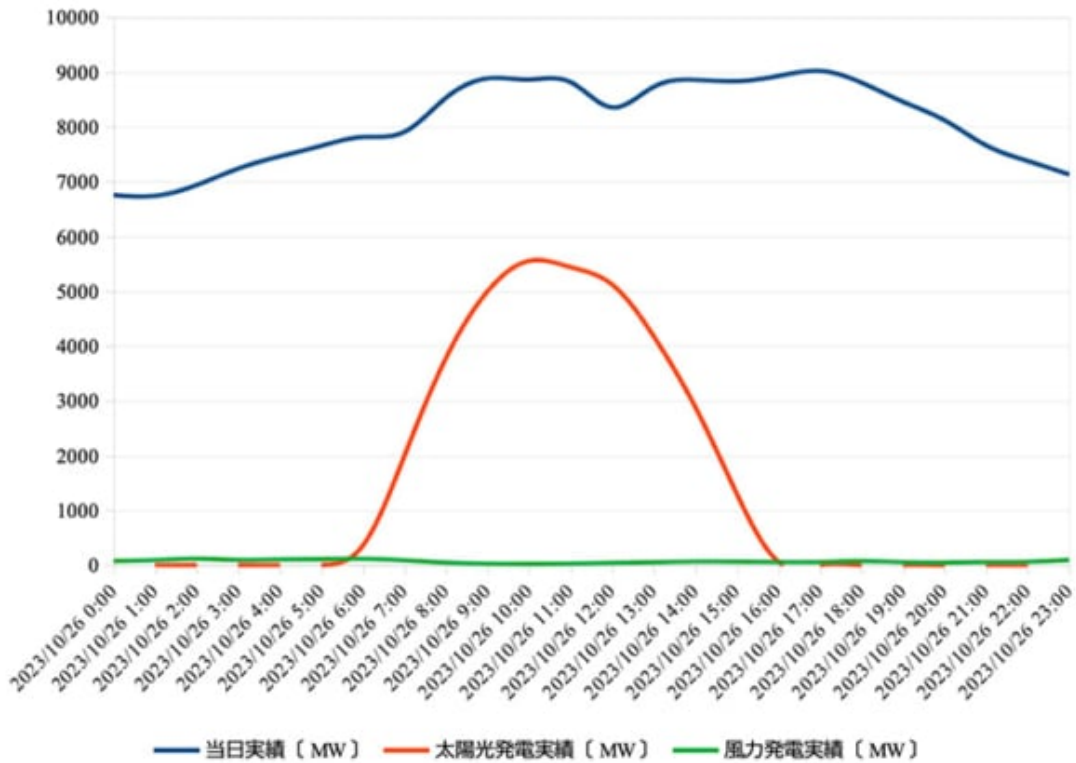
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Posted in ??????????, ??, ???????? | No Comments »

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?? ? · Saturday, July 27th, 2024

7?15??2024????????????????????????????
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ill, baby, drill??

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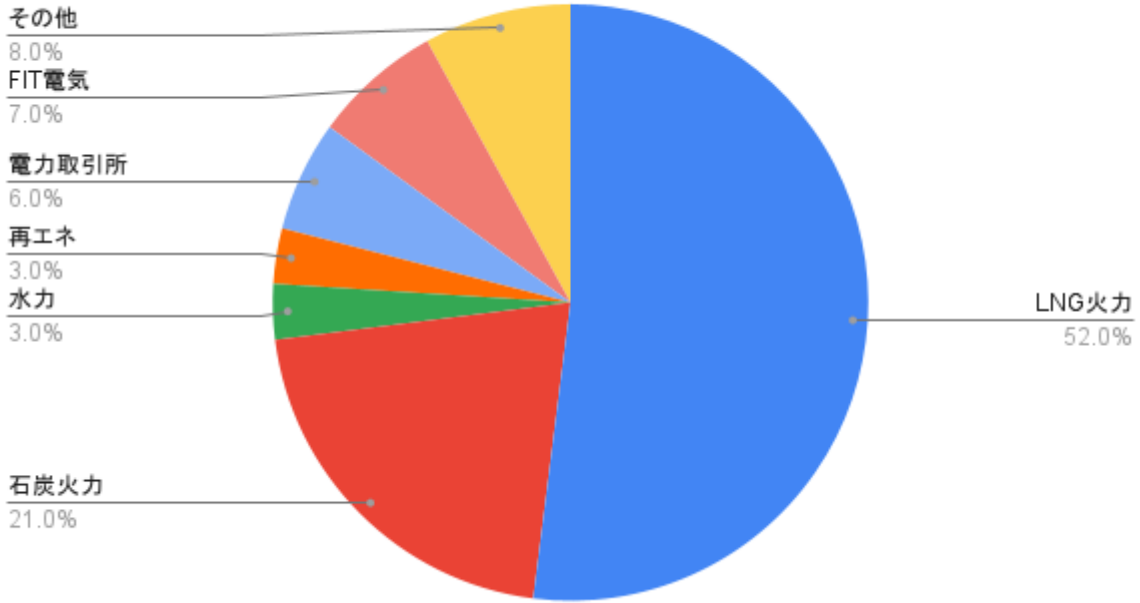
?10?????????????????????????????????????

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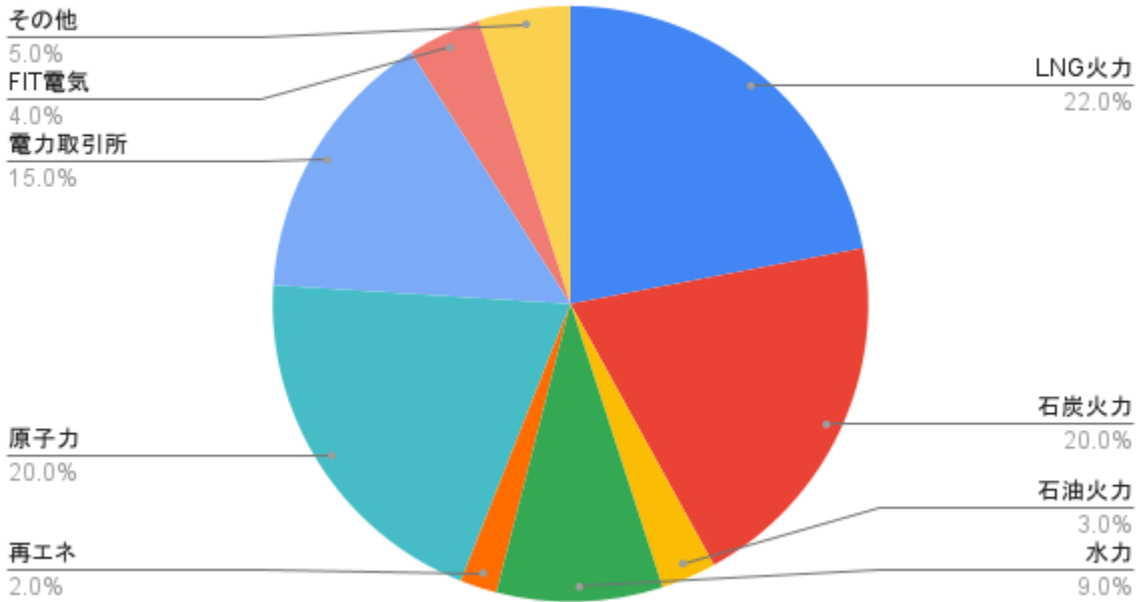
東京電力 2022年度実績



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



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?? ?? · Saturday, July 20th, 2024




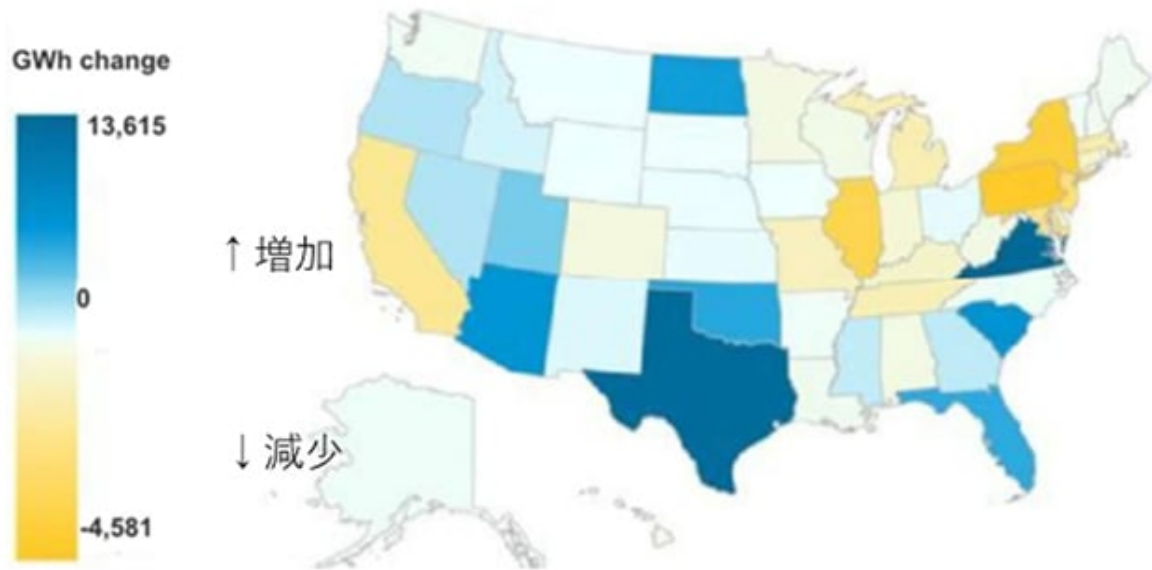
da-kuk/iStock

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



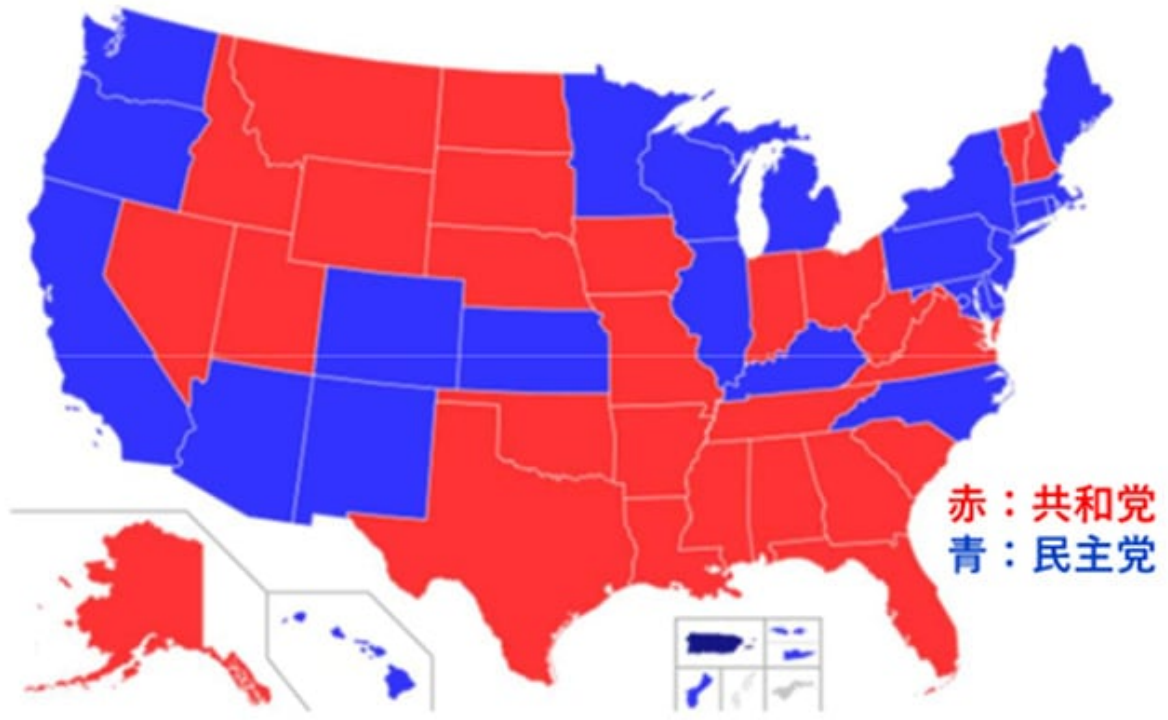
Data source: U.S. Energy Information Administration, [Electricity Data Browser](#)

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

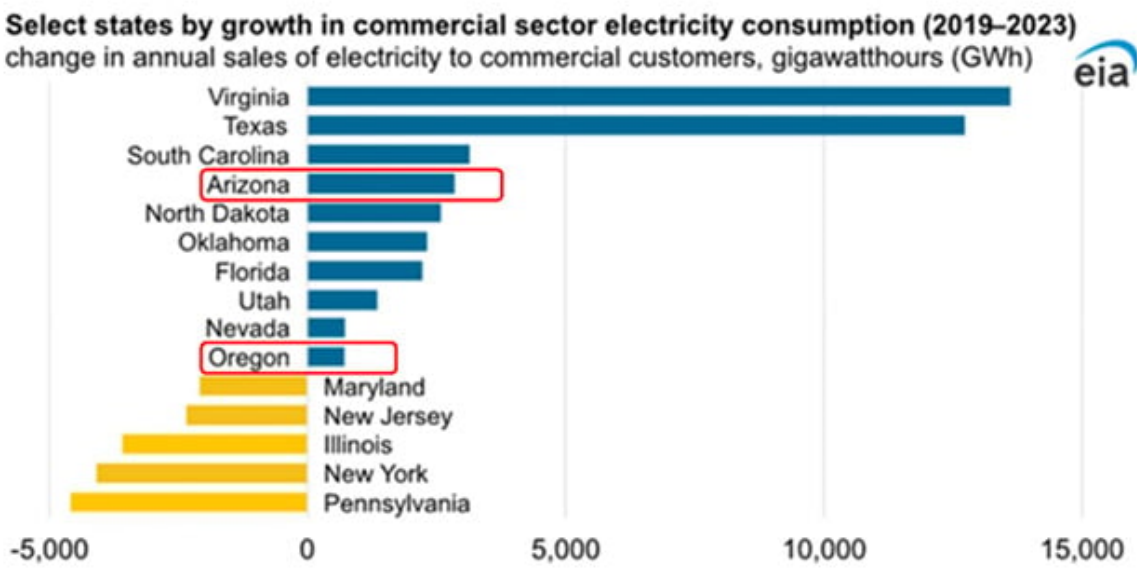
1?????????1????????2????????1?????2????????????????????????????????

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??²²2019????94????????????????????????????????
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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、米国で商業部門の電力消費量が10.8c/kWhから9.35c/kWhへと減少した。これは、エネルギー効率の向上と再生可能エネルギーの導入によるものである。一方、一部の州では、データセンターの急激な増加により、電力消費量が12.41c/kWhから21.81c/kWhへと大幅に増加した。これは、AIとクラウドサービスの需要増加によるものである。

2023年、米国で商業部門の電力消費量が15.5c/kWhから17.5c/kWhへと増加した。これは、RGGI（Regional Greenhouse Gas Initiative）の導入によるものである。RGGIは、CO2排出量を削減するための規制である。これは、電力消費量の増加にもかかわらず、CO2排出量を削減するための取り組みである。

米国で商業部門の電力消費量が17.5c/kWhから19.5c/kWhへと増加した。これは、再生可能エネルギーの導入によるものである。再生可能エネルギーは、環境に優しいエネルギー源である。これは、電力消費量の増加にもかかわらず、環境に優しいエネルギー源の導入によるものである。

米国で商業部門の電力消費量が19.5c/kWhから21.5c/kWhへと増加した。これは、再生可能エネルギーの導入によるものである。再生可能エネルギーは、環境に優しいエネルギー源である。これは、電力消費量の増加にもかかわらず、環境に優しいエネルギー源の導入によるものである。

米国で商業部門の電力消費量が21.5c/kWhから23.5c/kWhへと増加した。これは、再生可能エネルギーの導入によるものである。再生可能エネルギーは、環境に優しいエネルギー源である。これは、電力消費量の増加にもかかわらず、環境に優しいエネルギー源の導入によるものである。

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米国で商業部門の電力消費量が23.5c/kWhから25.5c/kWhへと増加した。これは、再生可能エネルギーの導入によるものである。再生可能エネルギーは、環境に優しいエネルギー源である。これは、電力消費量の増加にもかかわらず、環境に優しいエネルギー源の導入によるものである。

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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??

?3?RGGI????????????????????????????CO2??
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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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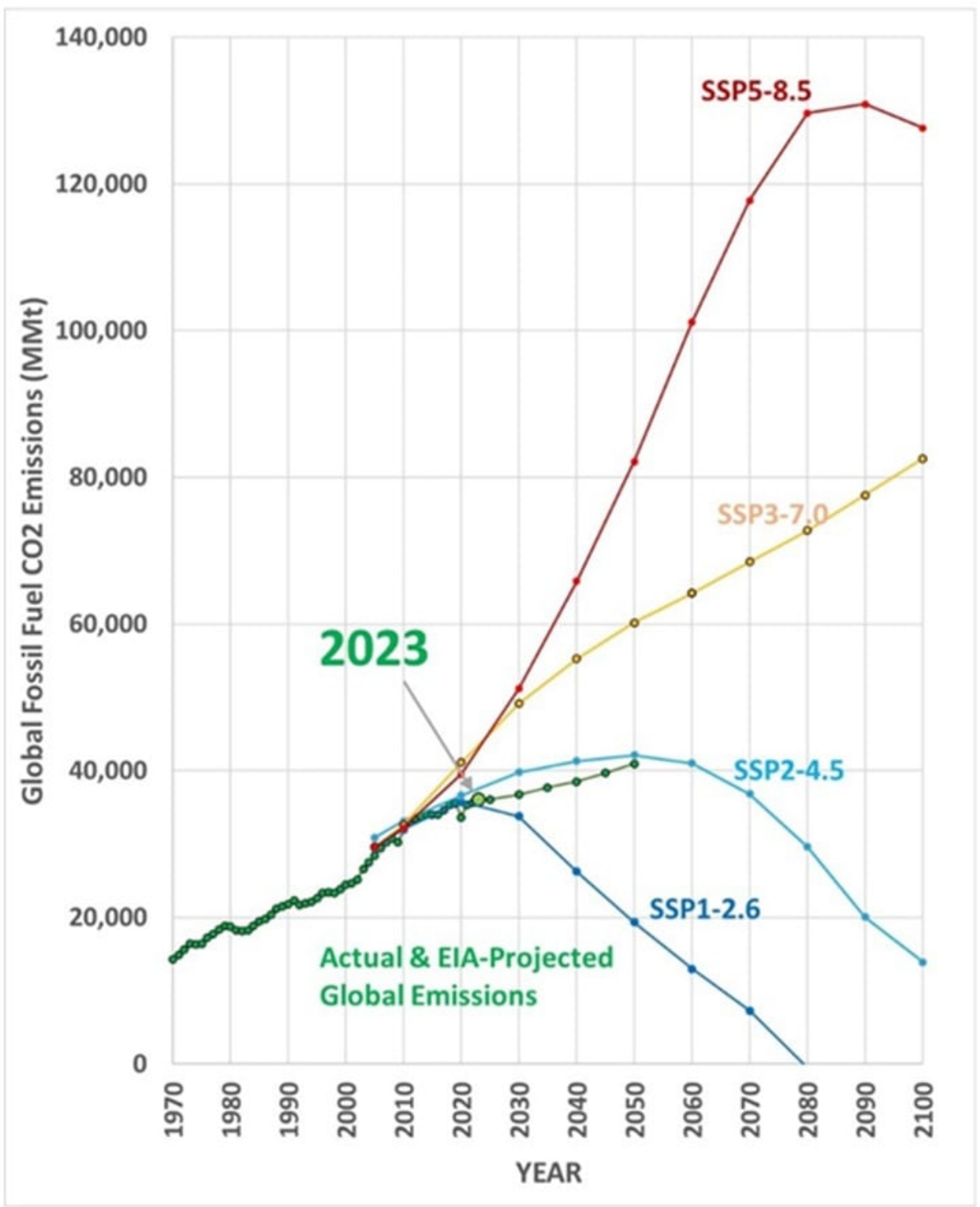
??EU?2050????????????
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Posted in ??????????, ?? | [No Comments](#) »



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

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

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?? ?? · Monday, June 17th, 2024

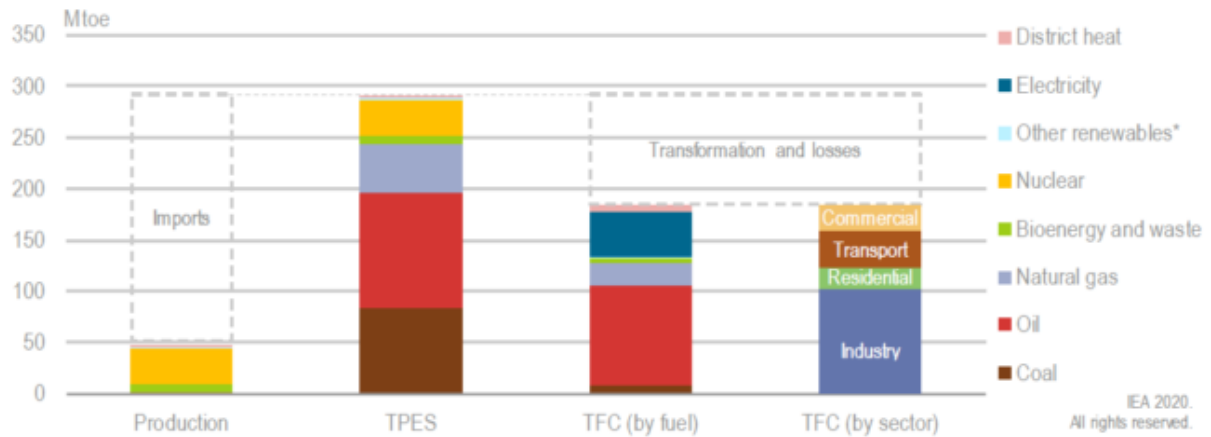


1xpert/iStock

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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

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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

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

?? ??? · Monday, June 10th, 2024



Hase-Hoch-2/iStock

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?TSMC?2024?2????????????????????2025?4????????????????????

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TSMC???????

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

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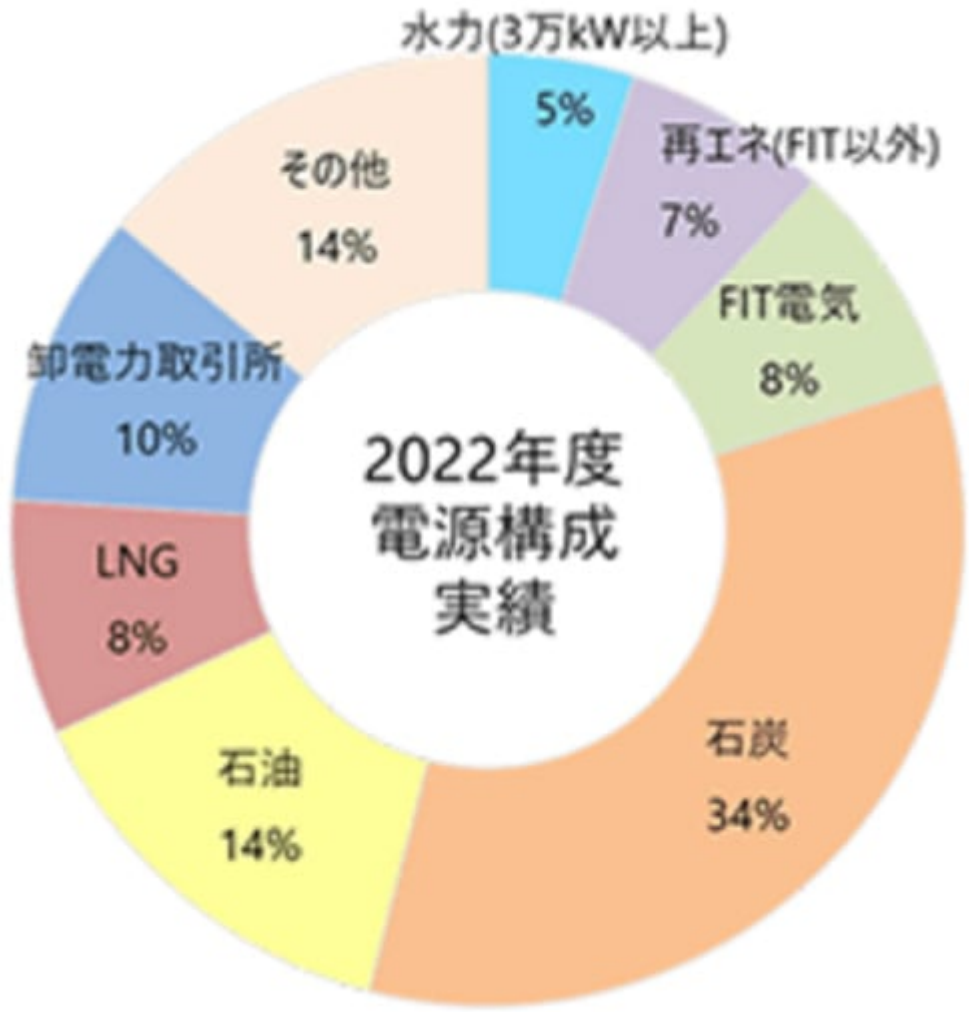
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??3??2????3??1????????????2????????
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2020年
HP

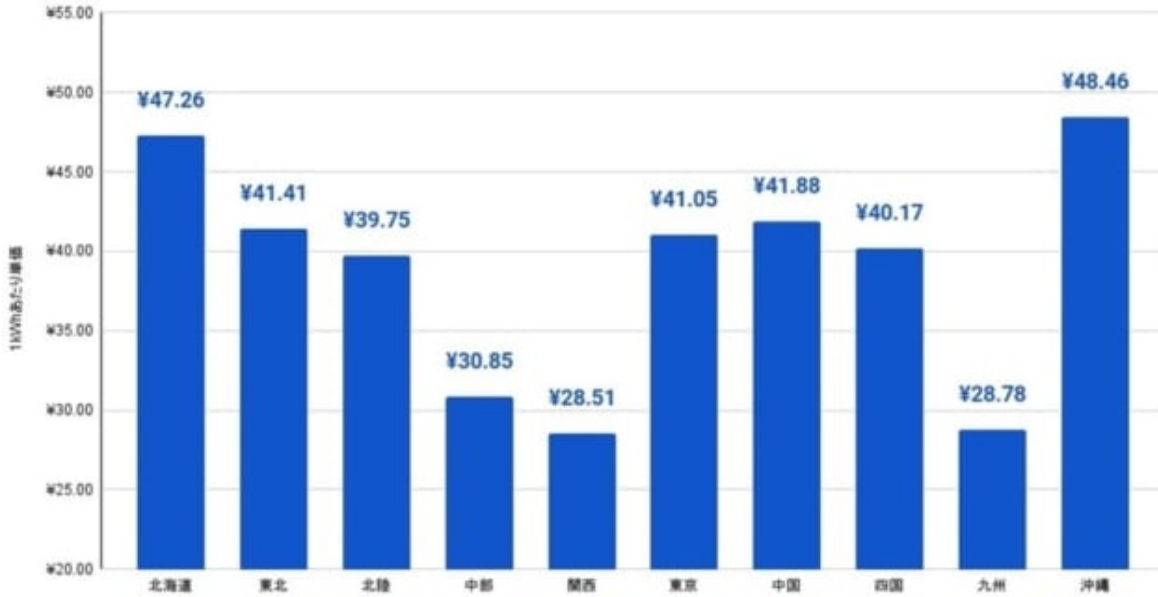
2024年4月1kWh 47.26/kWh
10月 48.46/kWh

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

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

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

Fab18

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

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 »](#)

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

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??CO2????

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

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

6?9?????6?9???EU?5????????????????????????????27????????????????????720????????????????????99????????????????
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Sinisa Vidic/iStock

EU????????????????????????????????EU????????????????????????EU????????????????????????????
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31????????????????????EU??EU?????
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Wikipedia??

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

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— ??? (@ikedanob) April 18, 2024

2012?12????40????42????20????
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2022?3?2????3?17????335????
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— ??? (@ikedanob) March 27, 2024

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

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?? ?? · Sunday, May 26th, 2024

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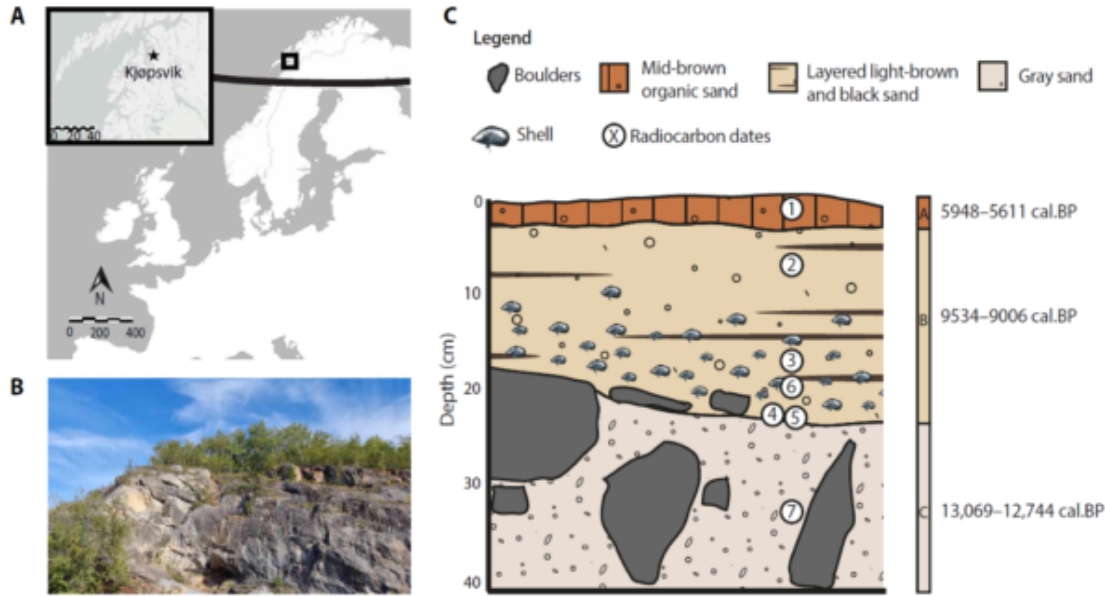
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2024??????82????????????DNA????????????????????????????????
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Posted in ???, ????? | No Comments »

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?? ?? · Saturday, May 25th, 2024



KE ZHUANG/iStock

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

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2022????10kW??
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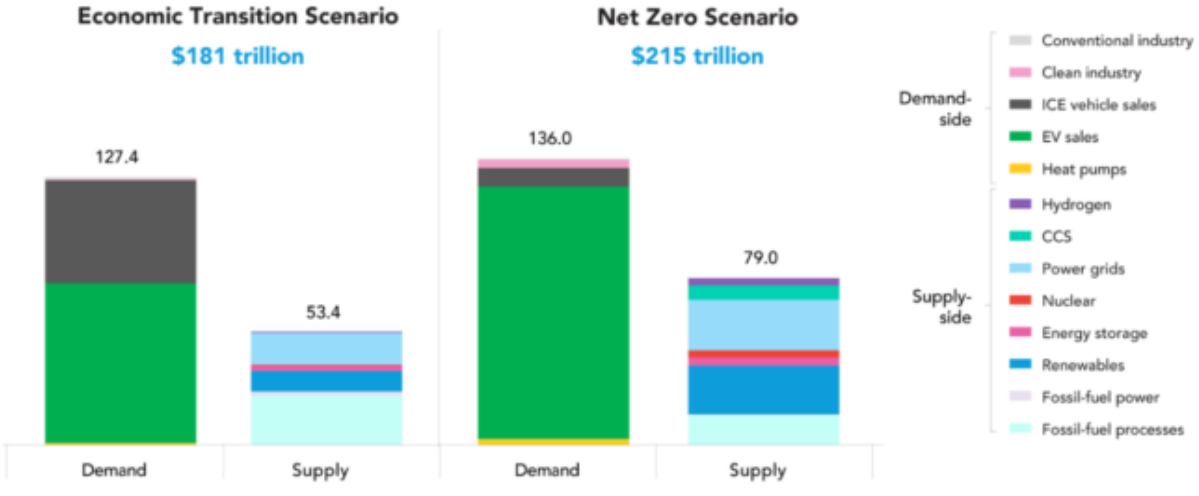
Posted in ??????????, ??? | No Comments »

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

?? ?? · Thursday, May 23rd, 2024

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



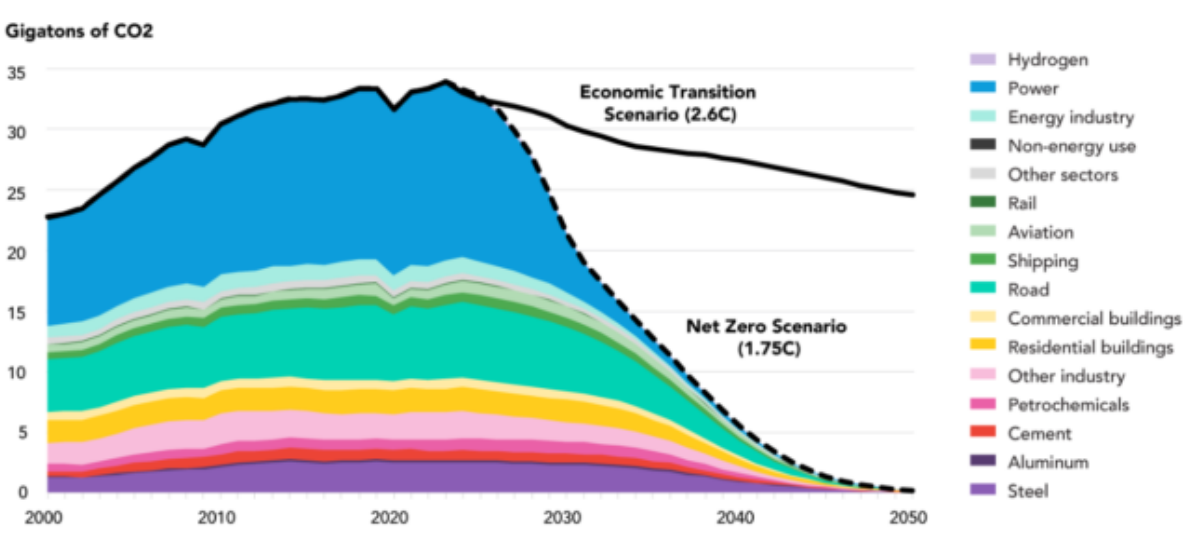
Source: BloombergNEF. Note: ICE is internal combustion engine, EV is electric vehicles. The numbers above the bars indicate cumulative investment and spending figures from 2024 to 2050.

Bloomberg??

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??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????

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??COP28??
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Posted in ????????, ??, ???? | No Comments »

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

?? ?? · Thursday, May 23rd, 2024



Oleksii Liskonih/iStock

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

????????EIA????2023????LNG????22??12%????119??????11.9Bcf/d????????
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12????LNG???13.6Bcf/d????????????

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??NAFTA??-162????????????????????LNG????????
??34????????????????????????????????????LNG????????????????????
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1?26????????????LNG??LNG????????????????????????????????????
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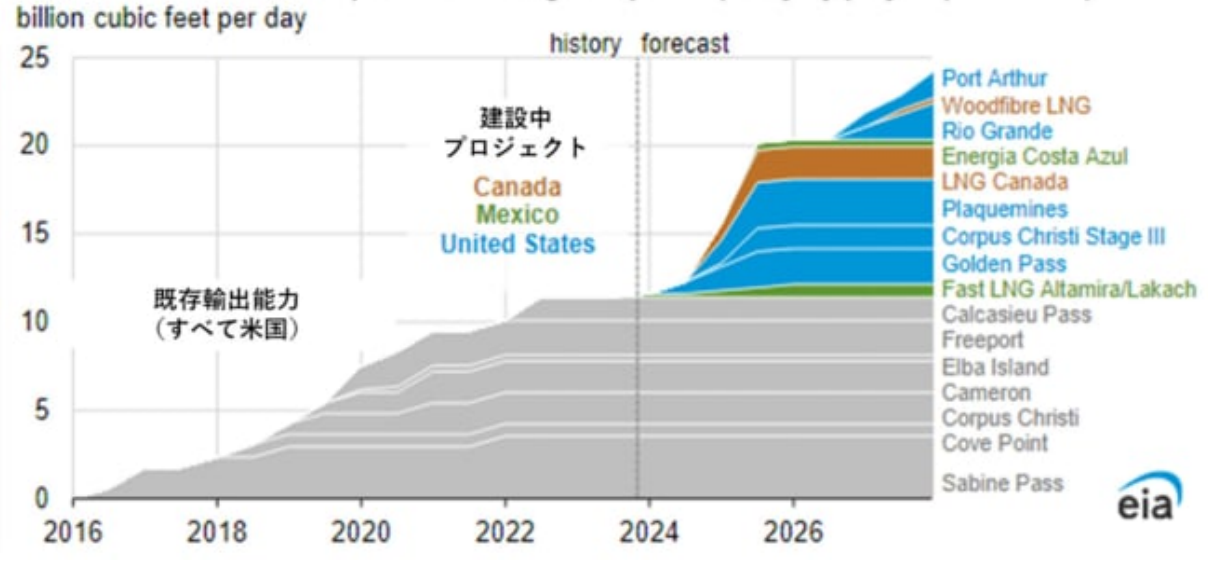
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G??
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Bcf/d??9.7 Bcf/d??2.1 Bcf/d??1.1
Bcf/d?????

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

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

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

?? ?? · Wednesday, May 22nd, 2024



Voyagerix/iStock

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4. ????

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???17????????????????????????????????7????????????


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

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?? ?? · Monday, May 20th, 2024

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311????????????????????

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<pic.twitter.com/lAsK5AdESg>

— ????? (@ISOKO_MOCHIZUKI) May 16, 2024

??2????????GX??
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????????GX??10????????120?kW????????????????1000
?kW??2030????????????????????????????????????

??FIT????????????????????16.6????2030????8.6?8.8????
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2030年度エネルギーミックスの進捗（全体像）

	震災前 (2010年度)	震災後 (2013年度)	2022年度	2030年度		進捗
				旧ミックス	新ミックス	
① エネルギー 自給率 (1次エネルギー 全体)	20.2%	6.5%	12.6%	24%	30%	
② 電力コスト (燃料費+ FIT買取費)	5.0兆円 燃料費：5.0兆円 FIT買取：0兆円	9.7兆円 燃料費：9.2兆円 FIT買取：0.5兆円 (数量要因+1.6兆円 価格要因+2.7兆円)	16.6兆円 燃料費：12.6兆円 FIT買取：3.9兆円 (数量要因▲3.8兆円 価格要因+7.2兆円)	9.2~9.5兆円 燃料費：5.3兆円 FIT買取：3.7~4.0兆円	8.6~8.8兆円 燃料費：2.5兆円 FIT買取：5.8~6.0兆円	
③ エネ起CO2 排出量 (GHG総排出量)	11.4億トン (GHG：13.0億トン)	12.4億トン (GHG：14.1億トン)	9.6億トン (GHG：11.4億トン)	9.3億トン (GHG：10.4億トン)	6.8億トン (GHG：7.6億トン)	
④ ゼロエミ 電源比率	35% 再エネ 9% 原子力 25%	12% 再エネ 11% 原子力 1%	27% 再エネ 22% 原子力 6%	44% 再エネ 22~24% 原子力 20~22%	59% 再エネ 36~38% 原子力 20~22% 水素・アンモニア 1%	
⑤ 省エネ (原油換算の 最終エネルギー 消費)	3.8億kl (産業・業務：2.4 家庭：0.6 運輸：0.9)	3.6億kl (産業・業務：2.3 家庭：0.5 運輸：0.8)	3.1億kl (産業・業務：1.9 家庭：0.5 運輸：0.7)	3.3億kl (産業・業務：2.3 家庭：0.4 運輸：0.6)	2.8億kl (産業・業務：1.9 家庭：0.3 運輸：0.6)	

※ 四捨五入の関係で合計が合わない場合がある。
 ※ 2030年度の電力コストは系統安定化費用（旧ミックス 0.1兆円、新ミックス 0.3兆円）を含む。
 出典：総合エネルギー統計（2022年度速報）等をもとに資源エネルギー庁作成

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??6?7????????????????????????????????
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