







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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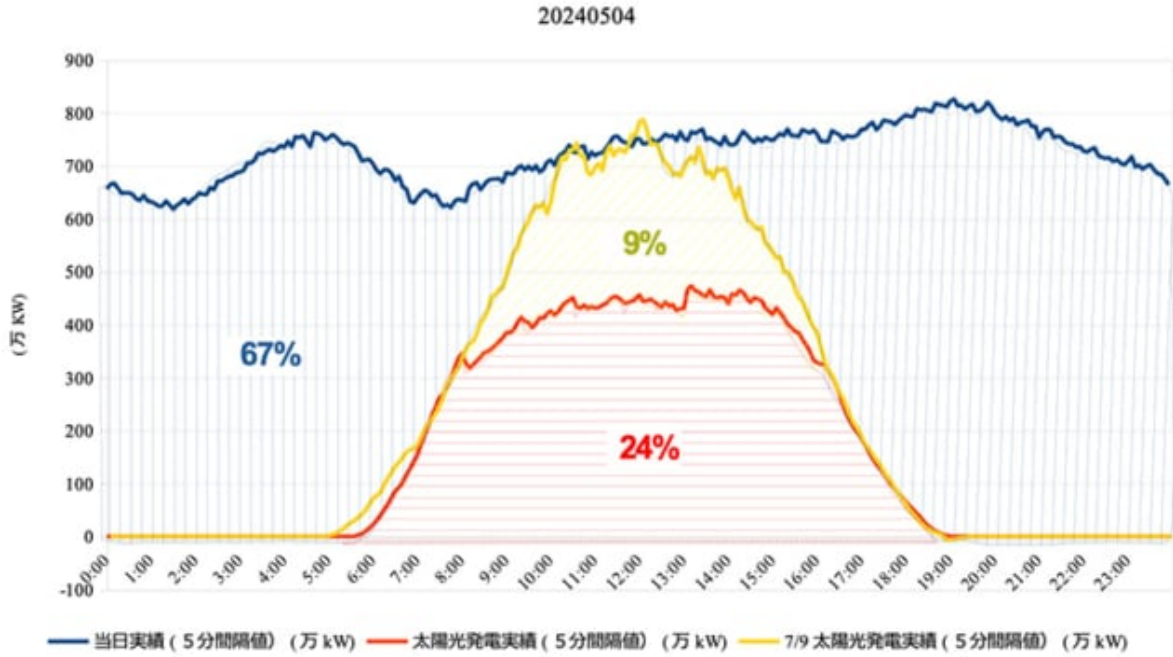
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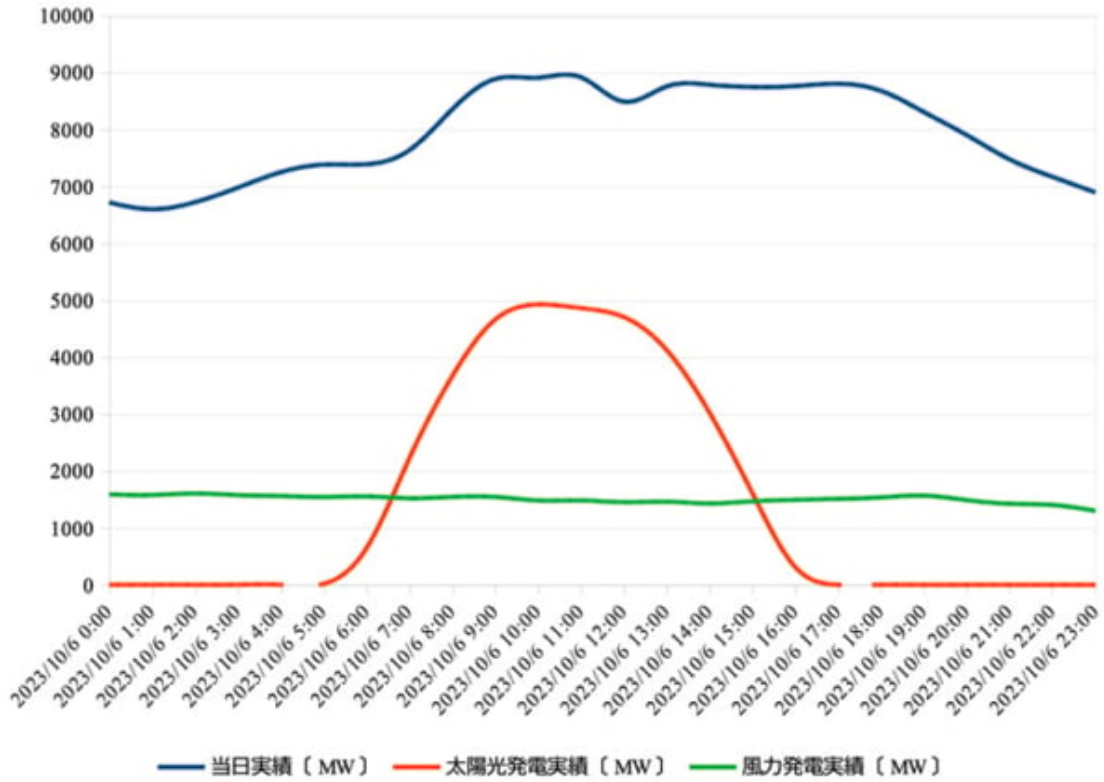
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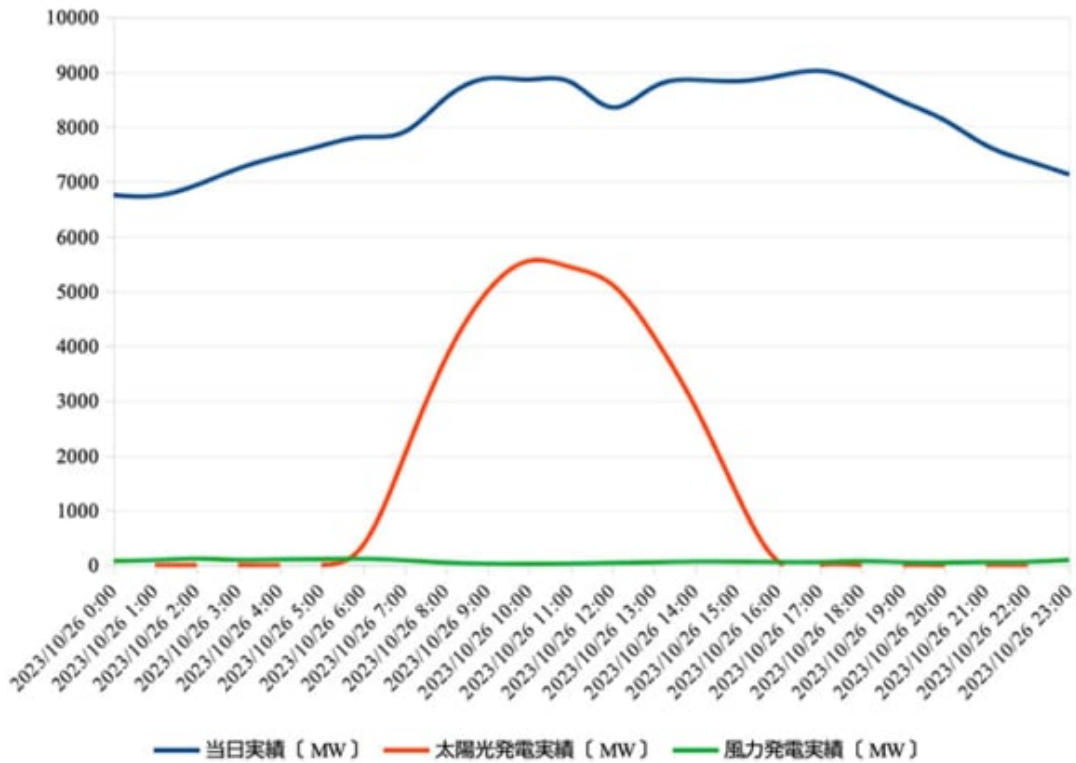




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Posted in ??????????, ??, ???????? | No Comments »

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?? ? · Saturday, July 27th, 2024

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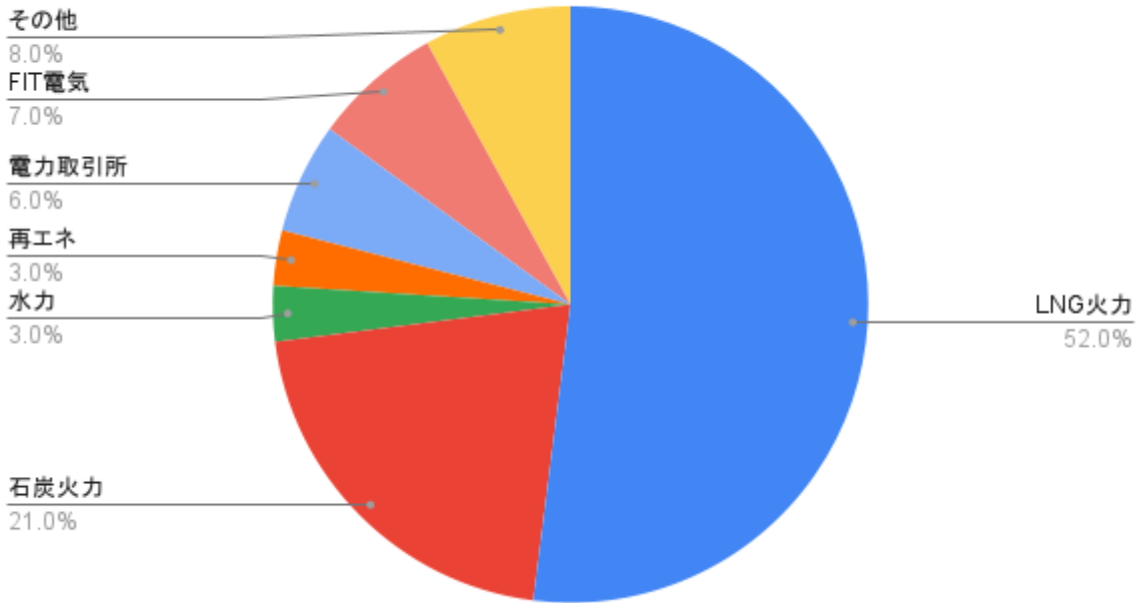
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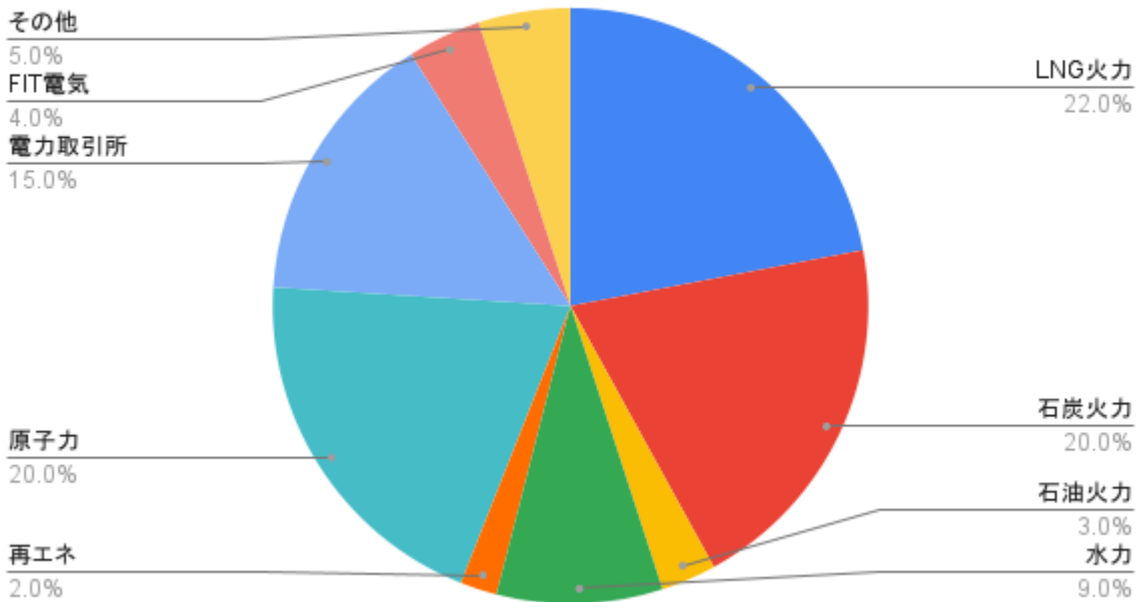
### 東京電力 2022年度実績



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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




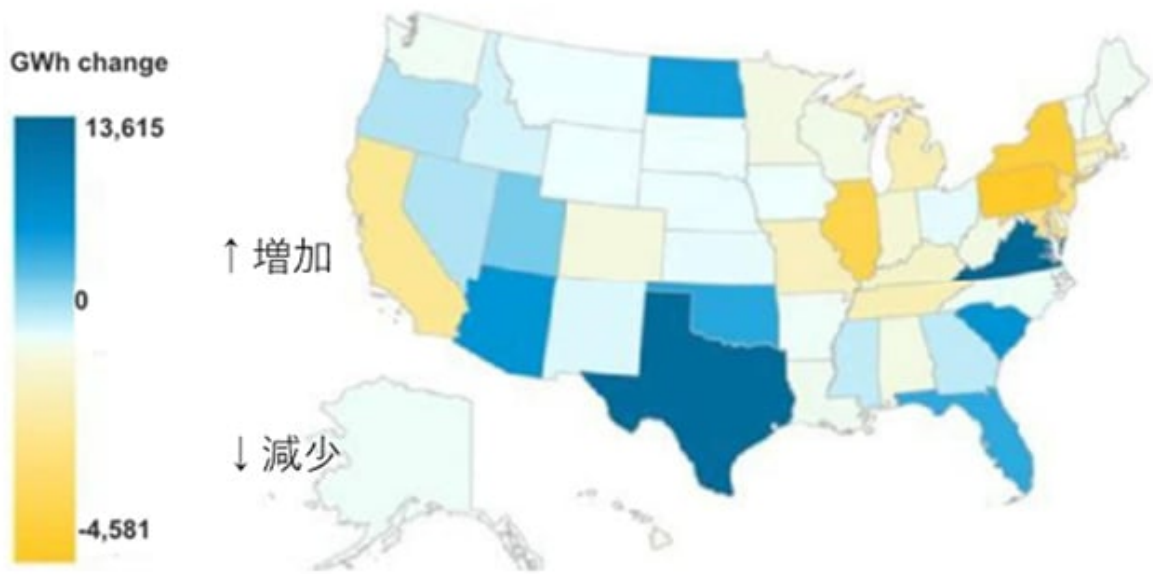
da-kuk/iStock

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??6????????????????EIA????????????????<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](#)

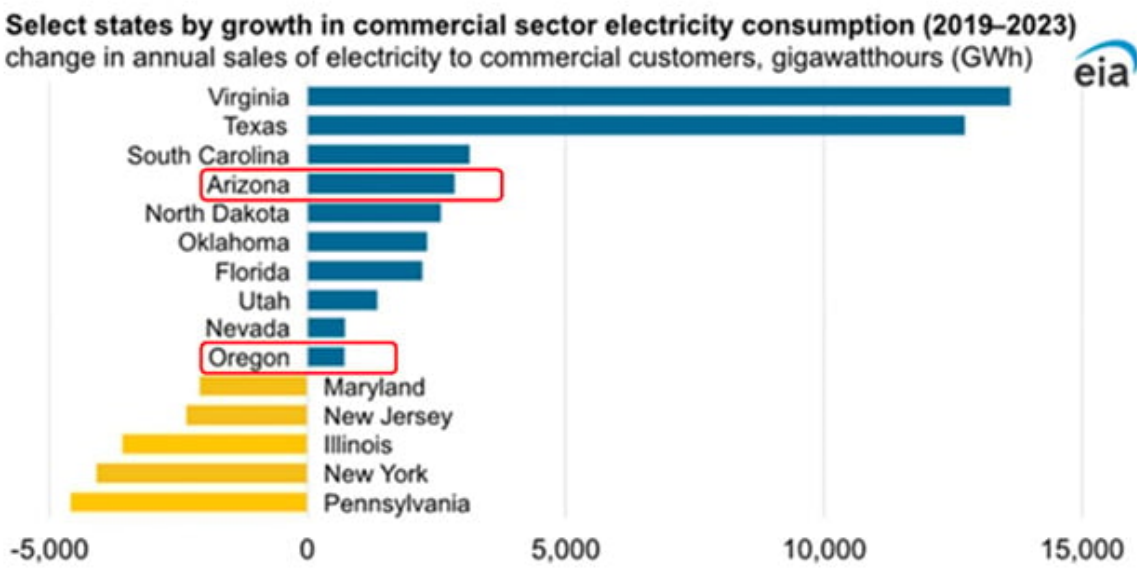
出典：Commercial electricity demand grew fastest in states with rapid computing facility growth”, Today in energy, June 28, 2024, EIA

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

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





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に減少し、12.41c/kWhから9.05c/kWhに減少した。これは、米国で商業部門の電力消費量が21.81c/kWhに増加したことを示している。

2023年、米国で商業部門の電力消費量が5.5c/kWhに増加した。これは、RGGI（Regional Greenhouse Gas Initiative）のCO2削減目標の達成によるものである。<sup>23</sup>

米国で商業部門の電力消費量が5.5c/kWhに増加した。これは、RGGI（Regional Greenhouse Gas Initiative）のCO2削減目標の達成によるものである。

米国で商業部門の電力消費量が5.5c/kWhに増加した。

米国で商業部門の電力消費量が5.5c/kWhに増加した。これは、RGGI（Regional Greenhouse Gas Initiative）のCO2削減目標の達成によるものである。

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米国で商業部門の電力消費量が5.5c/kWhに増加した。これは、RGGI（Regional Greenhouse Gas Initiative）のCO2削減目標の達成によるものである。IT/AIの需要は、米国で商業部門の電力消費量を4.5から5.5c/kWhに増加させた。



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

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







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?? ?? · Saturday, July 13th, 2024



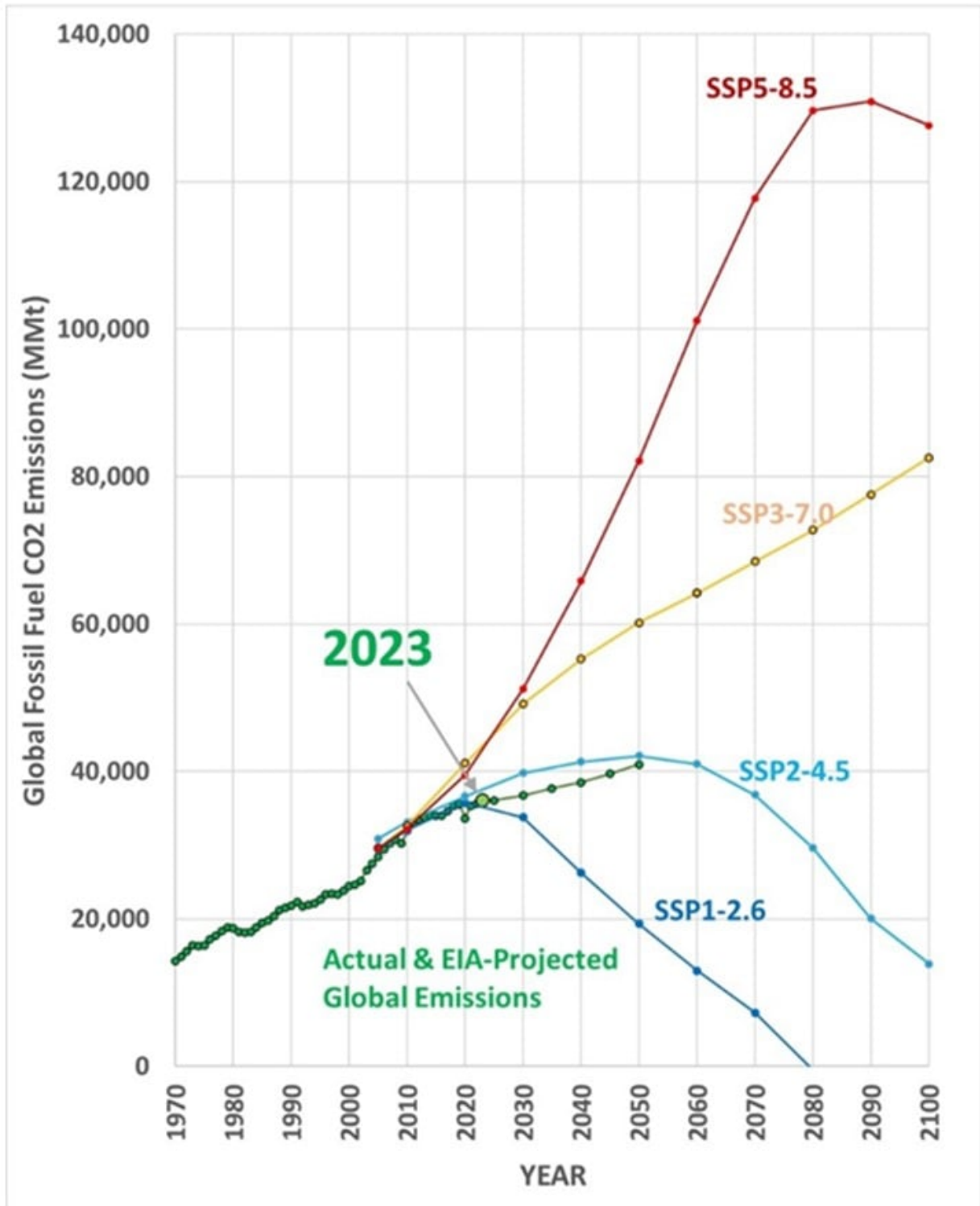
alexis84/iStock

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

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

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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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Wikipedia

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

**????????????????????**

?? ?? · Monday, July 1st, 2024



zhengzaishuru/iStock

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GX????????????????????????????????DX????????????????????????DX????????????????????????  
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EU 2022 REPowerEU 2030 100

European Hydrogen Backbone EHB EHB 5

EHB EU 800 98 CO2



Petmal/iStock

2030 1000 2050 5000 CO2 10%

EU

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2017 2020 100 4 FC 2023 27 FC 8000





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

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COP28????????????????????????2025????????2030?743??2035?60????2019????2030????? ??????3????????????2????????????1.5????????????????????????????????

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

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?? ?? · Sunday, June 16th, 2024



3alex/iStock

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??EV??ESG??EU????EU????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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????TSMC????????1811?kWh?2021??<sup>22</sup>????????????????????????20?/kWh????3.6?/?  
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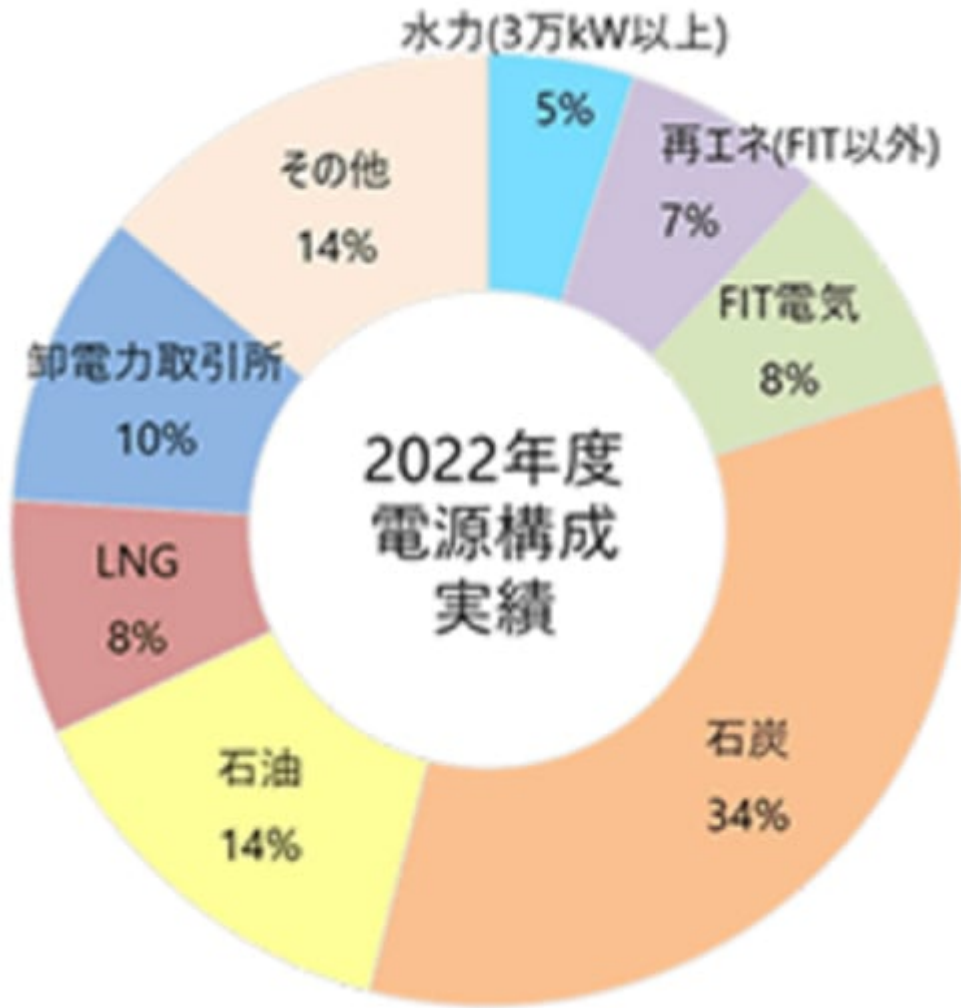
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2020年  
HP

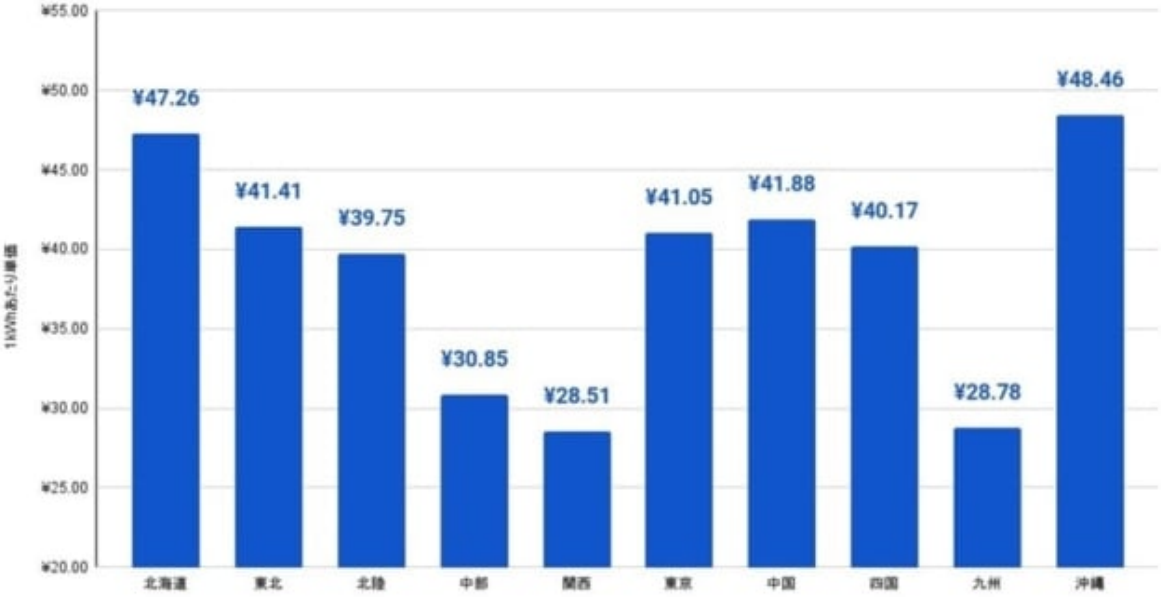
2024年4月1kWh 47.26/kWh  
10月 48.46/kWh

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

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?

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

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

Fab18

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70?kWh ×?47.26?28.78?/?kWh?1294?/?

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88?kW × 24h × 365??77.0?kWh

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

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?? ?? · Saturday, June 8th, 2024



Tula Kumkrong/iStock

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

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

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Sinisa Vidic/iStock

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2011????65?/kWh?FIT????40????  
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— ??? (@ikedanob) April 18, 2024

2012?12????40????42????20????  
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**????????TF**

2022?3?2????3?17????335????  
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— ??? (@ikedanob) March 27, 2024

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?? ?? · Sunday, May 26th, 2024

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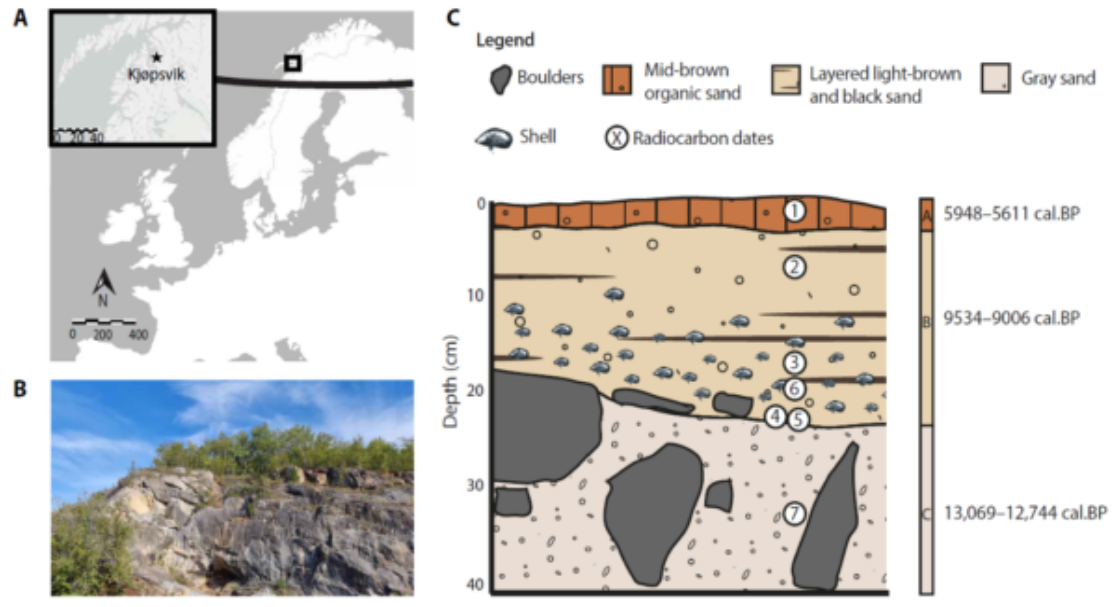
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2024??????82????????????DNA????????????????????????????????  
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Posted in ???, ????? | No Comments »

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?? ?? · Saturday, May 25th, 2024



KE ZHUANG/iStock

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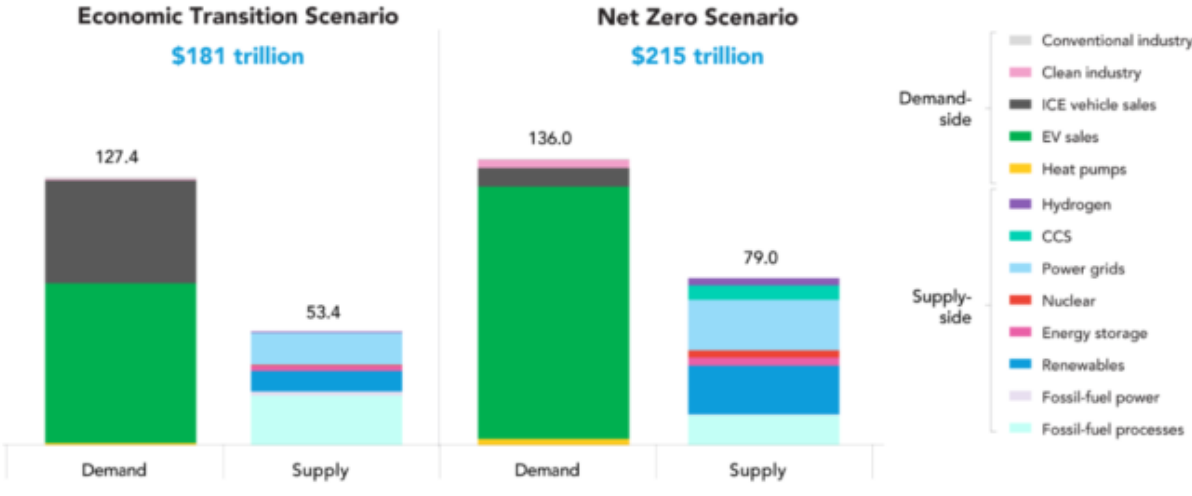
**???0.85?????????5300????????????????**

?? ?? · Thursday, May 23rd, 2024

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



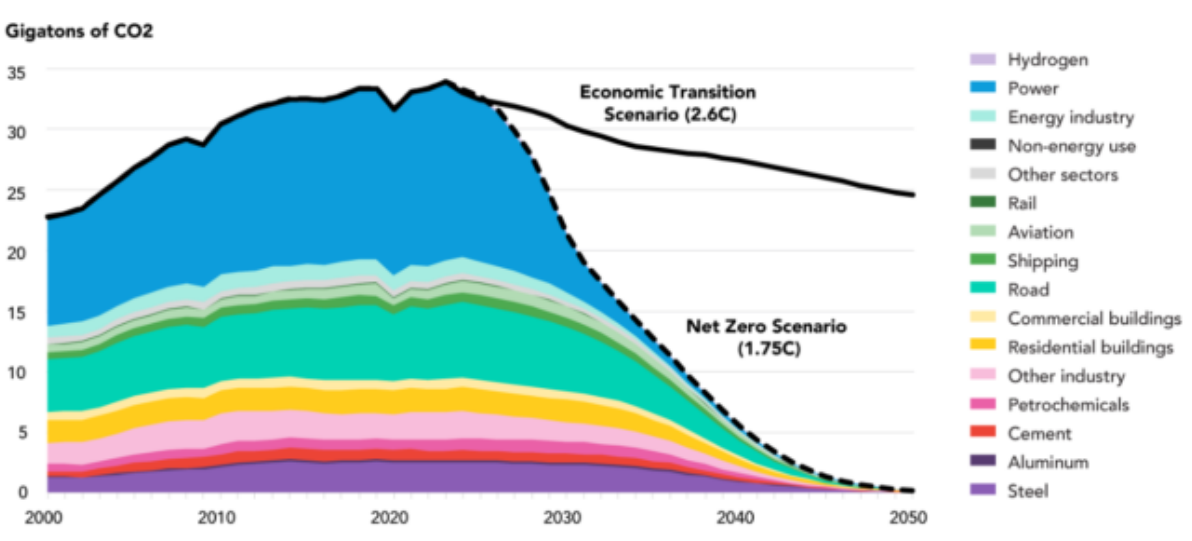
Source: BloombergNEF. Note: ICE is internal combustion engine, EV is electric vehicles. The numbers above the bars indicate cumulative investment and spending figures from 2024 to 2050.

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\$/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

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

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

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

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

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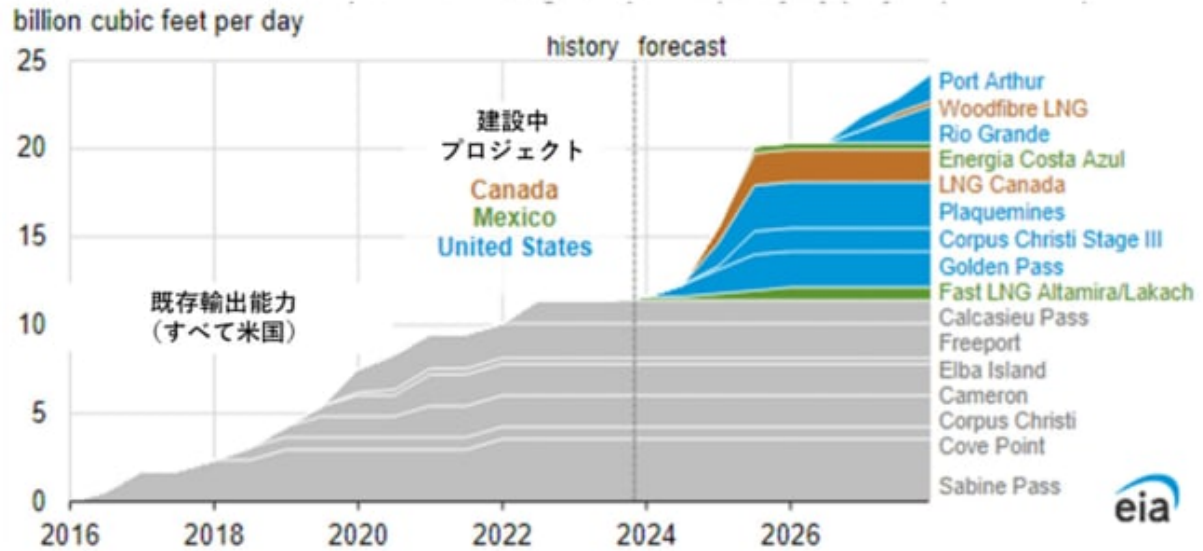
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### 北米におけるLNG輸出設備プロジェクト別能力（2016－2027）



????????????????”Today in Energy”

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

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

**80????????????????????????????????2040???**

?? ?? · Wednesday, May 22nd, 2024





Voyagerix/iStock

**1. ????????**

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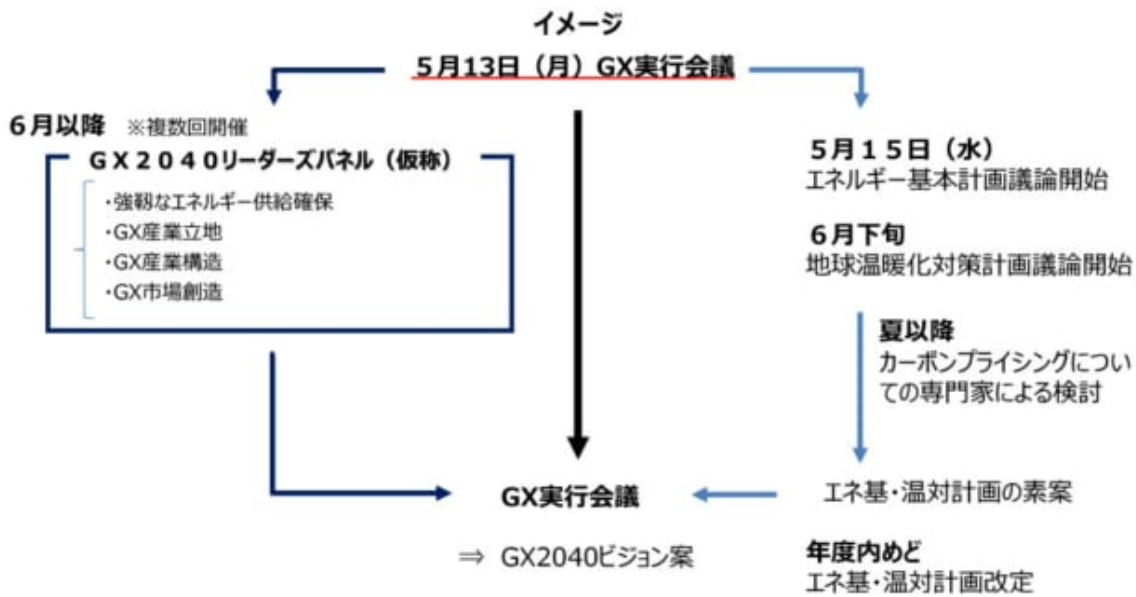
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今後の進め方（案）

- 今後、これらの論点について、6月以降『GX2040リーダーズパネル（仮称）』を開催し、有識者から見解を聴取。それを踏まえてGX2040ビジョンにつなげる。
- こうした議論も踏まえ、エネルギー基本計画・地球温暖化対策計画の見直しや、カーボンプライシングの制度設計につなげていく。



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2030年度エネルギーミックスの進捗（全体像）

取組指標	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	16.6兆円 燃料費：12.6兆円 FIT買取：3.9兆円	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年度確報）等をもとに資源エネルギー庁作成

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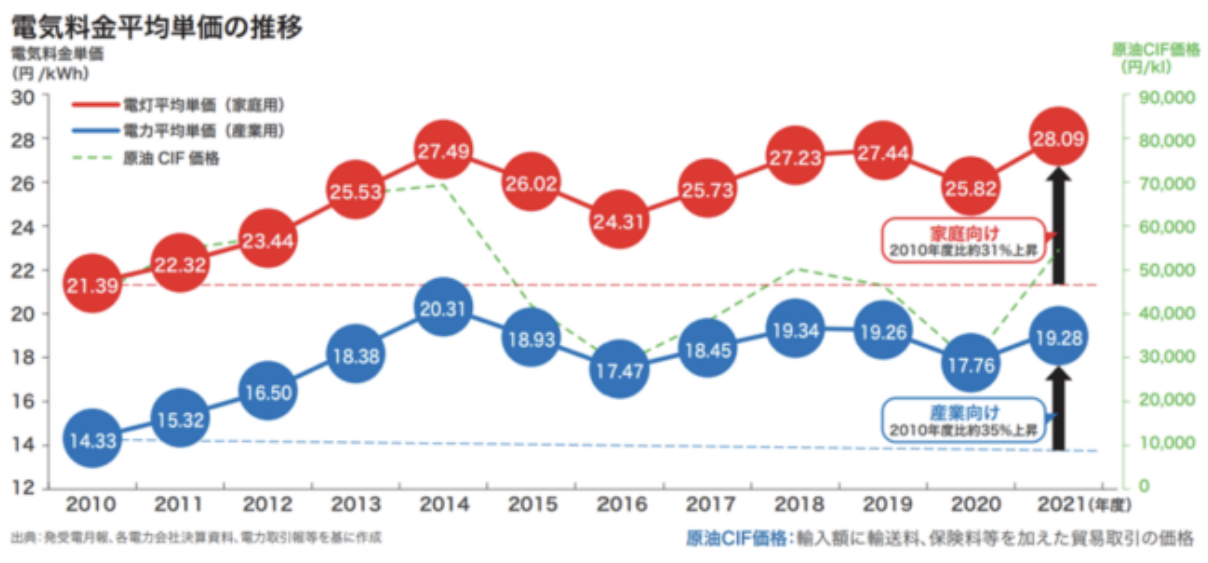
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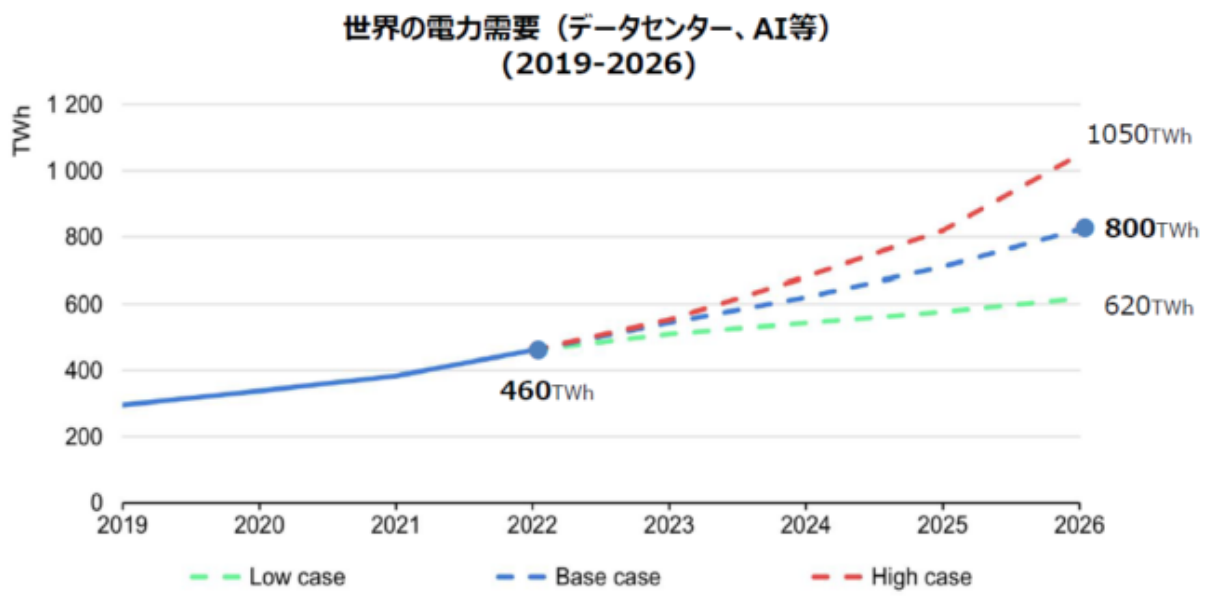
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### IEAによる世界のデータセンター、AI等の電力需要の見通し

● IEAによれば、世界のデータセンター、AI等による電力需要は、2022年460TWhから2026年ベースケースで800TWhまで増加する見通し（2024年1月時点）。



(出所) IEA "Electricity 2024" (2024年1月24日公表)

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