







nzphotonz/iStock

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????????????????????IEA??????????????

IEA???1973???1??1974??OPEC????????????????????????????????

IEA??

**IEA????????????????**

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IEA??CI  
clean energy is boosting economic growth??????

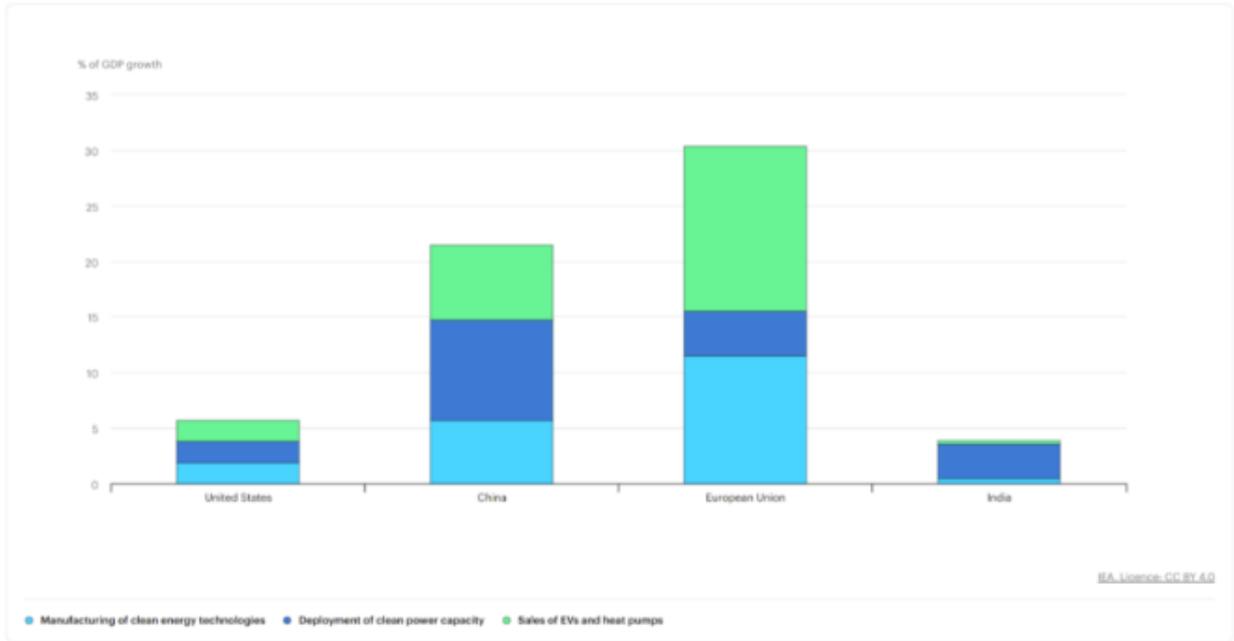
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- 2023????GDP????10??????????????????

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- ?????????3??1????????????????????????

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- ?????????EV????????????
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- EV????????????????

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????GDP????????????????????????????????

EU?GDP??????0.5????????????3??1????????????0.5????????????EV??  
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?????IEA????????????EU??  
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??IEA????????

????????????IEA????????????????????????

**Energy Information Has Never Mattered More—So It’s Time to Reform the IEA**

????????????????????IEA????????????????

????????IEA??2021????????????2050????????????????

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????2024?1????????????LNG????????????????????????????????????

WSJスクープ エネルギー

# How the Rockefellers and Billionaire Donors Pressured Biden on LNG Exports

President's decision to halt new export terminals follows an intense campaign by environmental groups funded by wealthy contributors

By [Benoît Morenne](#) and [Andrew Restuccia](#)  
2024年2月9日 12:10 JST

日本語に戻る

THE WALL STREET JOURNAL

??IEA????????????????



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IEA??

IEA??

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

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?? ?? · Wednesday, May 1st, 2024



Koldunov/iStock

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??TF??  
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????????????????????????IRENA????????????????????????2011????????????????????????ASG????????????????  
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??ASG????????????????  
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2010??

©????????????2010/4/28??

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??2003?4???????????

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??2007?11?8??2403?????——???????????????????

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©????

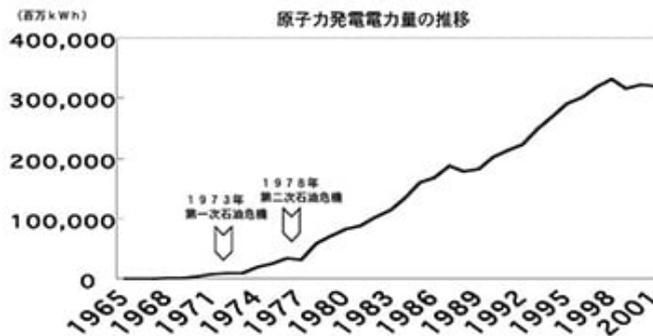
????????????????2004????????????????????ISEP????????????????2004??ISEP????????????????  
 ?????????????????19??

# 19兆円の請求書

—止まらない核燃料サイクル—

## 日本における原子力発電の位置付け

現在日本の電気の約3割は原子力発電に依存



\*本ペーパーは原子力発電そのものの是非を問うものではない  
(脱原発は中長期的課題)

19??????

????????????????2011??3.11??  
2011.03.27??





8. ?????1?????????????EU?2020?20?????0.03??2050?????/1.5??0.17?????????????????  
????2??R?D????11?????????????
9. ???1800????????  
??
10. ??2015??970??
11. ?????????????????3????????????????????????1????????????????87????????46????????65????  
??350????????420????????  
????????1.1????????????????

????????????????????????????????????1.5????????????????????????6????????????????  
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2015??17?SDG????????????????5-7????????????2018????????COP28????????????2050  
????????????????2030????????4.3????????2050????5????????????????????

??IPCC1.5????????????????  
?SDG????????????????????????????????

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

## ??

????????IEEI? · Friday, April 26th, 2024



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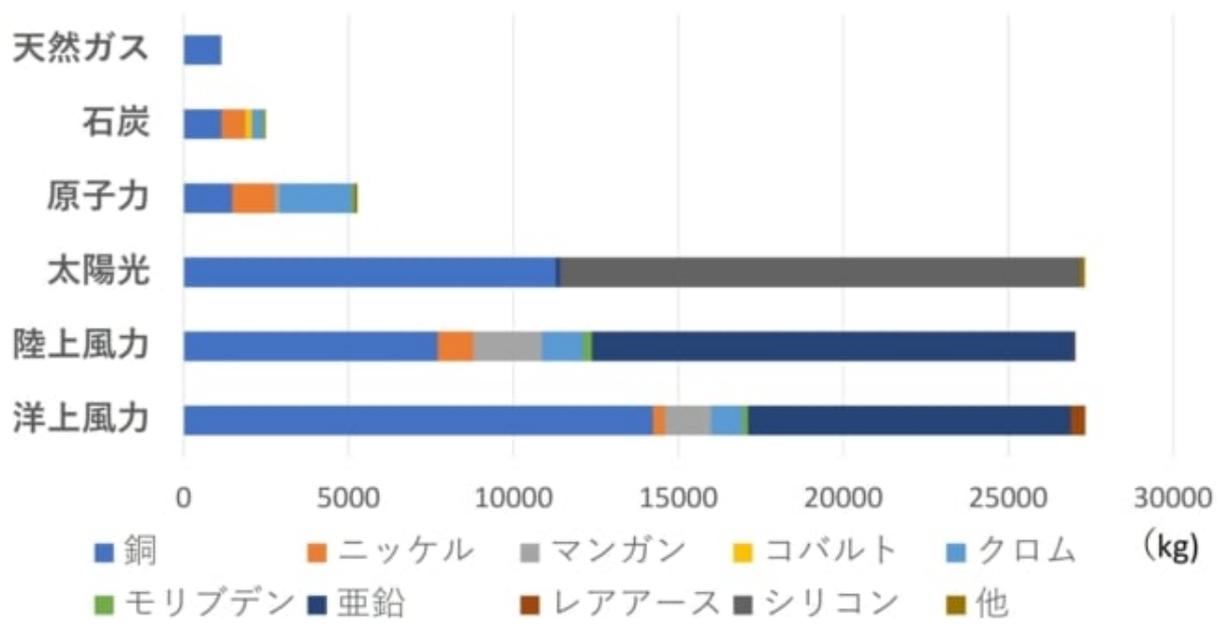
??NATO????????????????3????????????????  
??2020??EU????????????????????

??NATO?????????  
??2021????????????????????????????????????  
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2050????100??  
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?????-1????????????????????????????????????6????7?????????-2????????????????????????4????3????

図-1 発電設備に必要な鉱物量



注：年間700万kWhの発電に必要な鉱物  
設備利用率：洋上45%、陸上30%、  
太陽光20%、他80%

出典：国際エネルギー機関資料から作成





manbo-photo/iStock

**????SDGs????????????????????????????**



????22??2030????????????????SDGs??????  
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???SDGs?3????????15??SDGs????????????????  
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**????????????????????????????????1????????????????**



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???2021?9????????????????????SDGs????????????????

**2030?SDGs???????????**



???SDGs????????????2030????????????????SDGs????????????????????????????????????20

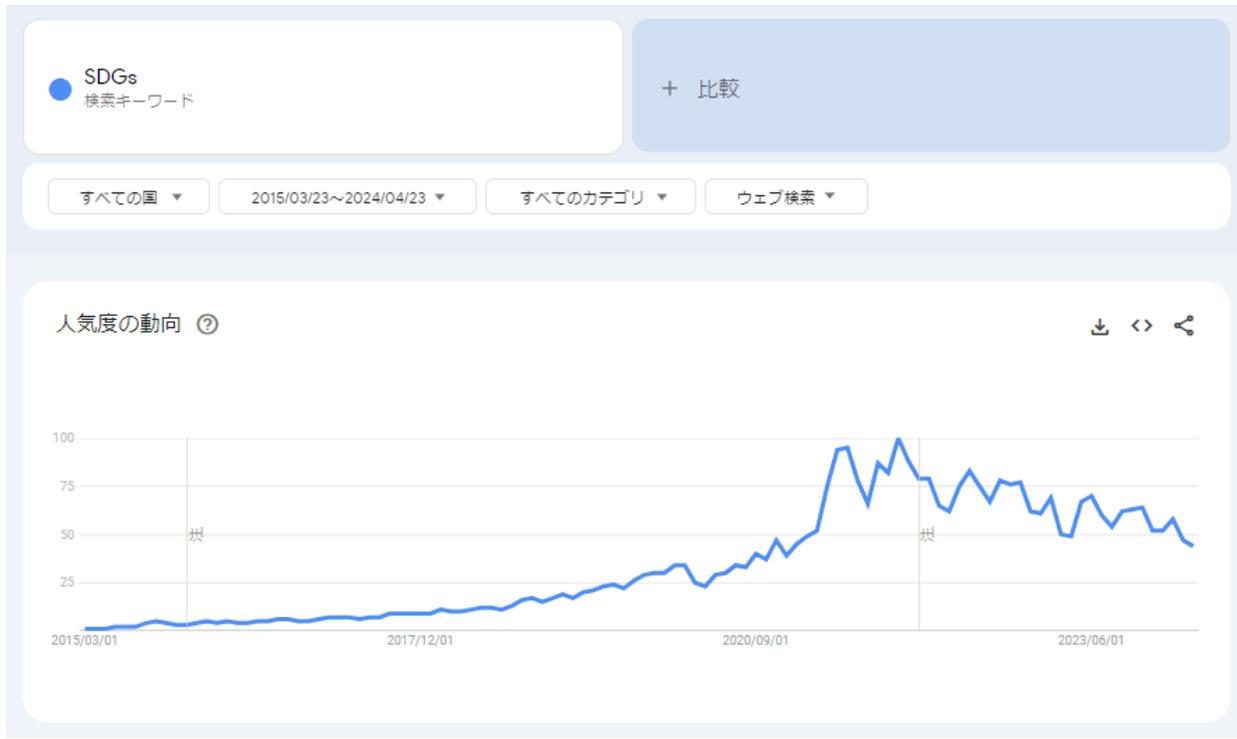
31????????SDGs??

????????????SDGs17????????????SDGs????????????SDGs????????????????SDGs????????  
??CSR????????SDGs????????ESG??  
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??SDGs????????????????????????????????200??300????????????????????????????????  
????????????SDGs????????????????????????????????????

????????????2045????????2050????SDGs??  
????????????SDGs????????SDGs????????????????????????.....????

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????2022?6?8????????2024?4?23????????????2021????????????????????



??Google???

??SDGs??

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

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

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?? ?? · Wednesday, April 24th, 2024



FotografieLink/iStock

??????Climate?The  
Movie??X?150???YouTube?100????????????????  
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1. ??

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???Science Feedback??

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- IPCC????????????????????????????????????
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???Science Feedback????????????????????????????????????3????

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2. CO2????????

???1?

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? ?????????IPCC?Lead Author????John Christy???Univ of Winnipeg?Tim  
Ball????????????CO2????????????????????95????????????

??2?

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MIT??????Carl

Wunsch??CO2????????????????????????????????????70%????11,000m????  
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????CO2????????CO2????????????CO2????????????????????????????????  
O2????????CO2????????CO2????????????

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????????????CO2????????????????????????????50??100????????  
????CO2????????????????????CO2????????

3. CO2???????

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??Science  
Feedback??CO2????????  
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????????? A C G I H????????????  
5,000ppm????????????CO2????????????????????????????????  
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????????????????????????????CO2????????1,000ppm????????  
?430ppm????????????

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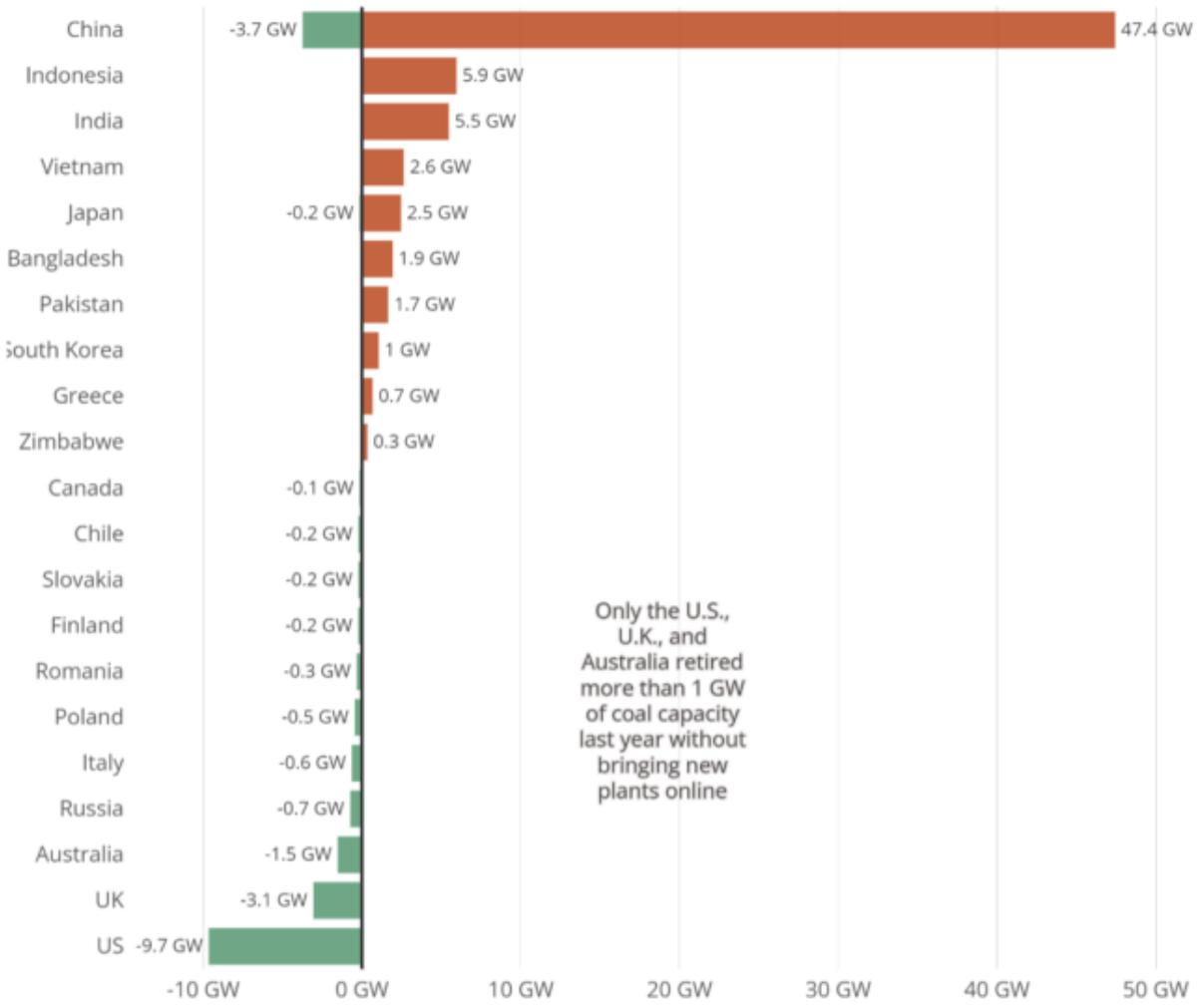
Andrzej Rostek/iStock

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??2023??1??47??????4700??????????

Newly **added** and **retired** operating coal-fired power capacity in 2023, in gigawatts (GW)

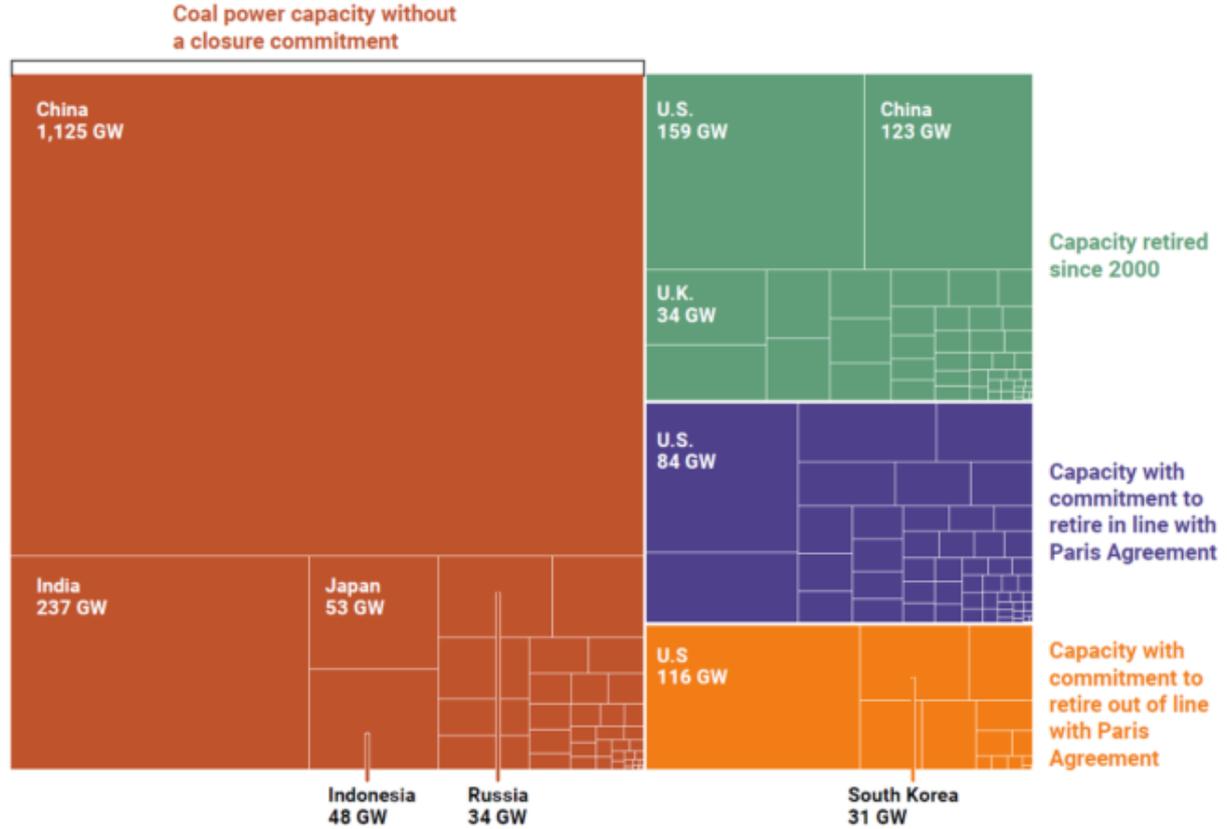


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Figure 15: Most coal power capacity needs closure commitment

Coal-fired power capacity by phaseout status, excluding net zero commitments



Source: Global Coal Plant Tracker, January 2024



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??CO2??

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

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?? ?? · Tuesday, April 16th, 2024

????????????????????5????????48?kW????2000????152???280?????  
???5??



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2012????40????

????????????????????2013?3????????????????6801  
????????????????????2019????????

????????????????????FIT????2012??40????2017????????









Jian Fan/iStock

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?????/??Net zero?????Net??

????????????????????????????????CO<sub>2</sub>?neutral????????????????????????????????????

??CO<sub>2</sub>?????????????????????CH<sub>4</sub>????? ???????

2???????

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of

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????????????????????????CO<sub>2</sub>??-  
?-????????????????????????CO<sub>2</sub>??

**??????CO<sub>2</sub>??????????????**

??CO<sub>2</sub>??CO<sub>2</sub>?????  
????/????????????????????CCS????????????????????????????????????CO<sub>2</sub>????????????????????????????  
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??CO<sub>2</sub>??CO<sub>2</sub>????????????????????

????????????CO<sub>2</sub>??CO<sub>2</sub>????????????ppm?????  
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??CO<sub>2</sub>????????????????????????????????CO<sub>2</sub>?????44????29?50  
%????????????CO<sub>2</sub>????????????????????????????CO<sub>2</sub>????????????????????????????

CO<sub>2</sub>??

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????????????AGW?Anthropogenic Global Warming????????????????????  
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??2009?????

Climategate??IPCC????????????????????  
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??CO<sub>2</sub>  
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??1979????????????????????  
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??CO<sub>2</sub>  
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???Unsettled??MIT????????????????????????2022????????????  
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Posted in ???, ????? | No Comments »

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?? ??? ?? · Friday, April 5th, 2024



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

3?20??

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**EU??????????**

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3?28??  
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CA????????
- ?????????????????????
- ?????????USMCA????????

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- ?????????????UNFCCC?IEA?IREN????????
- ?????????30????????LNG????????
- ?????????FTA????????FTA????????
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4. ?????????
5. ?????????????????
6. ?????????????????IEA?IRENA????

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????????3700????????IRA????????  
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????????JUSEP????????LNG??CCUS????????

????G7????

????Day????????1.5????

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????46??2050????

????NDC  
(Nationally Determined  
Contribution)????

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

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?? ?? · Saturday, March 30th, 2024



Zbynek Pospisil/iStock

????GX????????????????????GX??  
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????????????????????????????????????Net zero????Net????????????????????????????????????

????????????????????????CO<sub>2</sub>????neutral??  
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????????????????????????CO<sub>2</sub>????????????????????CH<sub>4</sub>????????

????????????????????????EV??  
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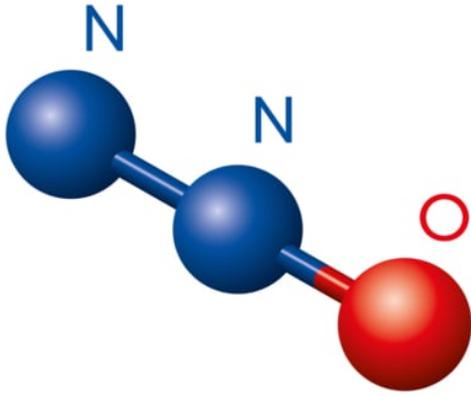
????????????FCV??MIRAI?????  
 Sjo/iStock

????????????MIRAI??  
 ?????????????????????????????H?????N????????????????NH<sub>3</sub>????????????????????????????

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????????????????????????????????????300????????????????  
 1750????????????????????????270ppb????????????????2022?????  
 ?????????335.8ppb?0.3358ppm??????

2021????2022????????????1.4ppb?0.0014ppm????????  
 ??????????2.2ppm?????

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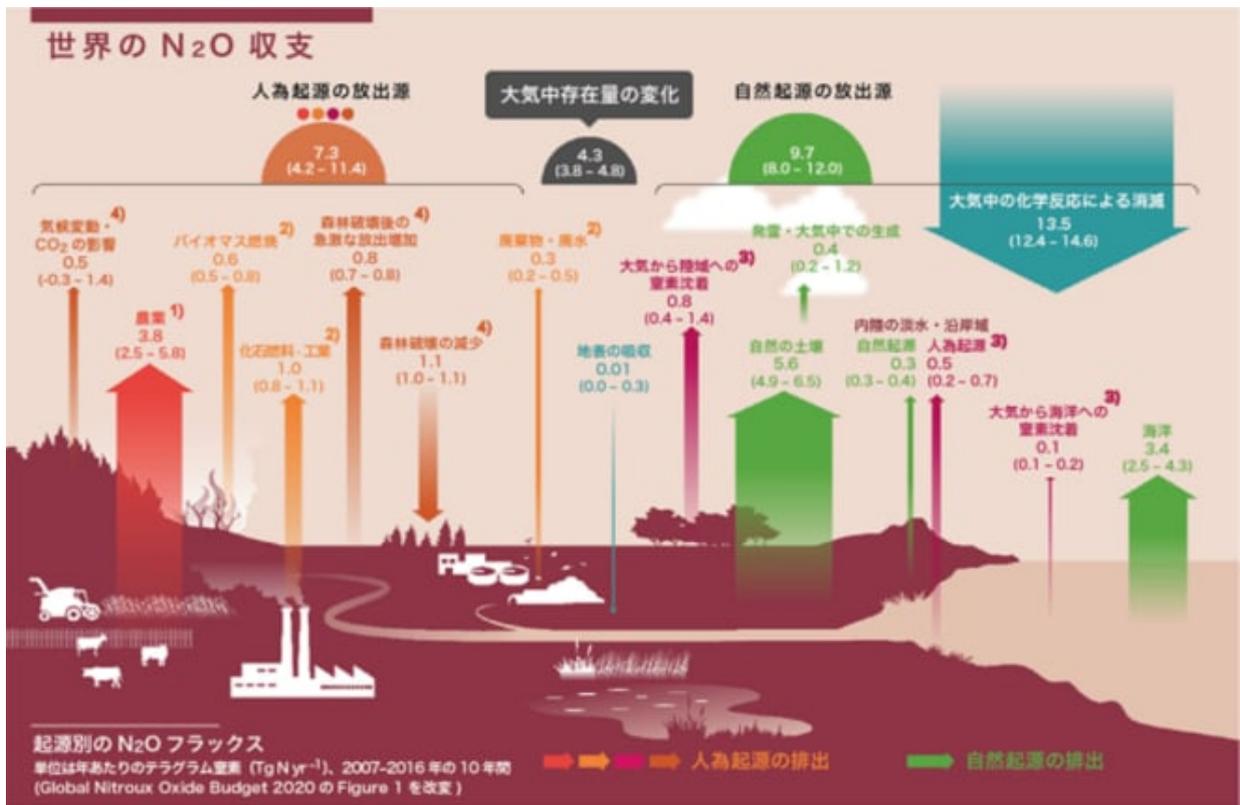
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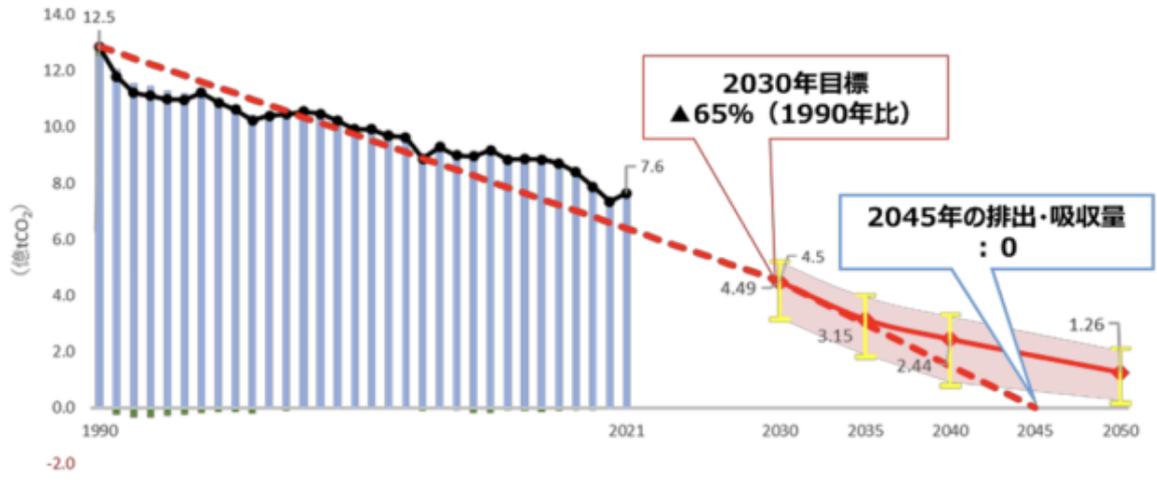
PeterHermesFurian/iStock



©????????

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 ???COP28????GX?????9?????????2023?11?28??

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IMF?????????2024?1????<sup>22</sup>?????2023?????GDP?????????????????0.3%????????????????????  
 ??????GDP?????????????????2.5%?????0.8%??1.9%?????0.5%??1.1%??G7????????????????  
 ??????

23?4???2.2%?????4????????????????<sup>23</sup>????????????  
 ?????????????????????

?????????????????????????????????23?????????3540?????????4?????????????????2018?????????4240????  
 ???16.5%??700?????????????????????1?????CO2?????2?????????????????CO2?????????1400????  
 ??????????2???????

??BASF????????????????????????  
 ??2600????????????  
 ??????????????????100????????????????????????????

?????????????????????????????2018??2023??5????10%?????????????????????????????????20%????????<sup>24</sup>??  
 ?????????????????????????????

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 ??????LNG??

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?? ?? · Thursday, March 28th, 2024



metamorworks/iStock

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

# ????????NOx????????????????????????

?? ?? · Wednesday, March 27th, 2024



MicroStockHub/iStock

2023?10??J-??J-??

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



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????NOx????????????????NOx??NOx??????????  
????NOx????????????????????NOx??NOx???...?  
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????CO2????????????????????????CO2????????????????????????????????

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

????????????????6?4554?????

?? ?? · Tuesday, March 26th, 2024



Jeff\_Hu/iStock

????????????????????1?6752????????????????

- 2024年度の賦課金単価は、再エネの導入状況や卸電力市場価格等を踏まえ、1kWh当たり3.49円となりました。目安として一ヶ月の電力使用量が400kWhの需要家モデル<sup>※</sup>の負担額を見ると、月額1,396円、年額16,752円となります。
- ※ 総務省家計調査に基づく一般的な世帯の1ヶ月の電力使用量

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1?6752????????????????????????????????

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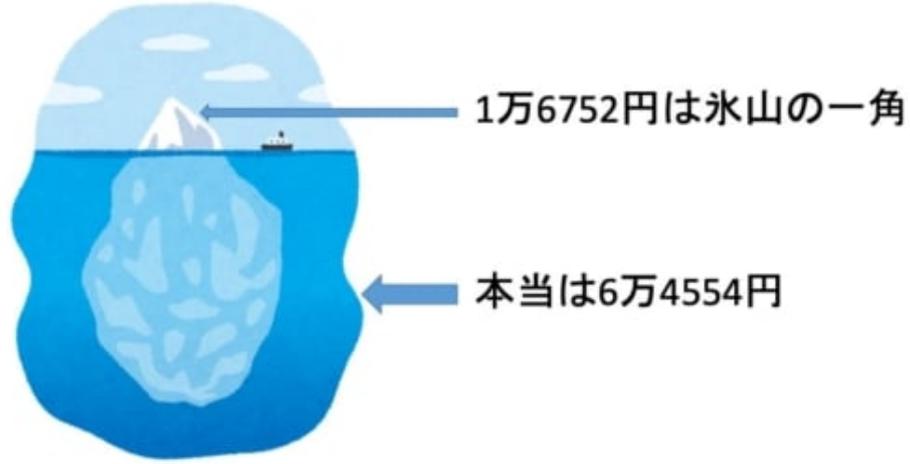
????????????????1kWh??3.49????????????????7707?kWh????????2?6897????????1?????2?2  
716?????3?????6?4554???????

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

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?? ?? · Friday, March 22nd, 2024



Cristian Storto Fotografia/iStock

2024?3?18??J-  
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J-  
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??6??14????????????????????????????1,113????????????????????1,036?CO2????????????  
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 ???5????????????????????0.02??  
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??2MWh????????????????????2.  
 2MWh????????????



??2MWh????????????????????  
 2.2MWh????????????????????????????????  
 ?????????????????????????4????????  
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??%????????????????????????????????  
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??CO2????????????????????????????????  
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??GX????????????????????????????????  
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2022?11????????????????????????????27????????(COP27)????????????????????????????????  
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??CO2????????????????????????????????  
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 ??REDD+????????????????????????????????



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????2018??  
 0????????????????????????????

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??????2024????????????????2030?????1/3????????????



????5????????UK?ETS????????????????????????????????12.4????????2  
050????????????????????????????????

????7,900????????????????????6,900????27??4,400??30??2,400?????  
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??2026??EU??



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??2023?10????????????????



?????????REDD+?J-  
????????????????????????????CO2????????????????????

?????J-??

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

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?? ?? · Wednesday, March 20th, 2024



Jay\_Zynism/iStock

????????????????3??1??29.2????????????????5????????380????????48.7%??2????????NGO?????  
 ?????????????????????

??World Meteorological Office????????????????????

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

WMO????????5??

??5????WMO????????????????5????????4????????????2????????3?1????????????????????????????  
 ?????????????1????2????????????13.7??52????????





????????2005????????????????????

????????WMO????????????????????Google Earth????????????????

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Posted in ???, ????? | No Comments »

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?? ?? · Wednesday, March 20th, 2024







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

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?? ?? · Tuesday, March 19th, 2024



JohnPitcher/iStock

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?? ?? · Monday, March 18th, 2024



Niklas Flindt/iStock

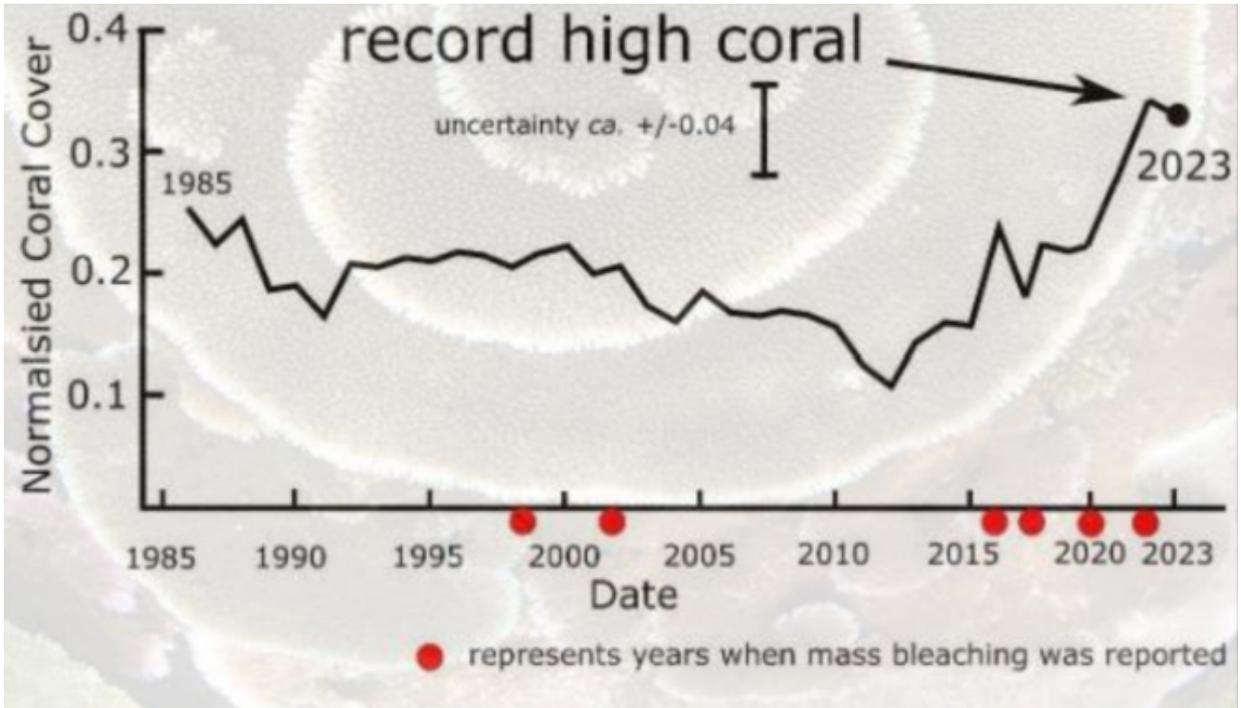
????????????AEF???"????????????????????2024?State of the Great Barrier Reef 2024  
?"????????????????????

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



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2023????????????????????

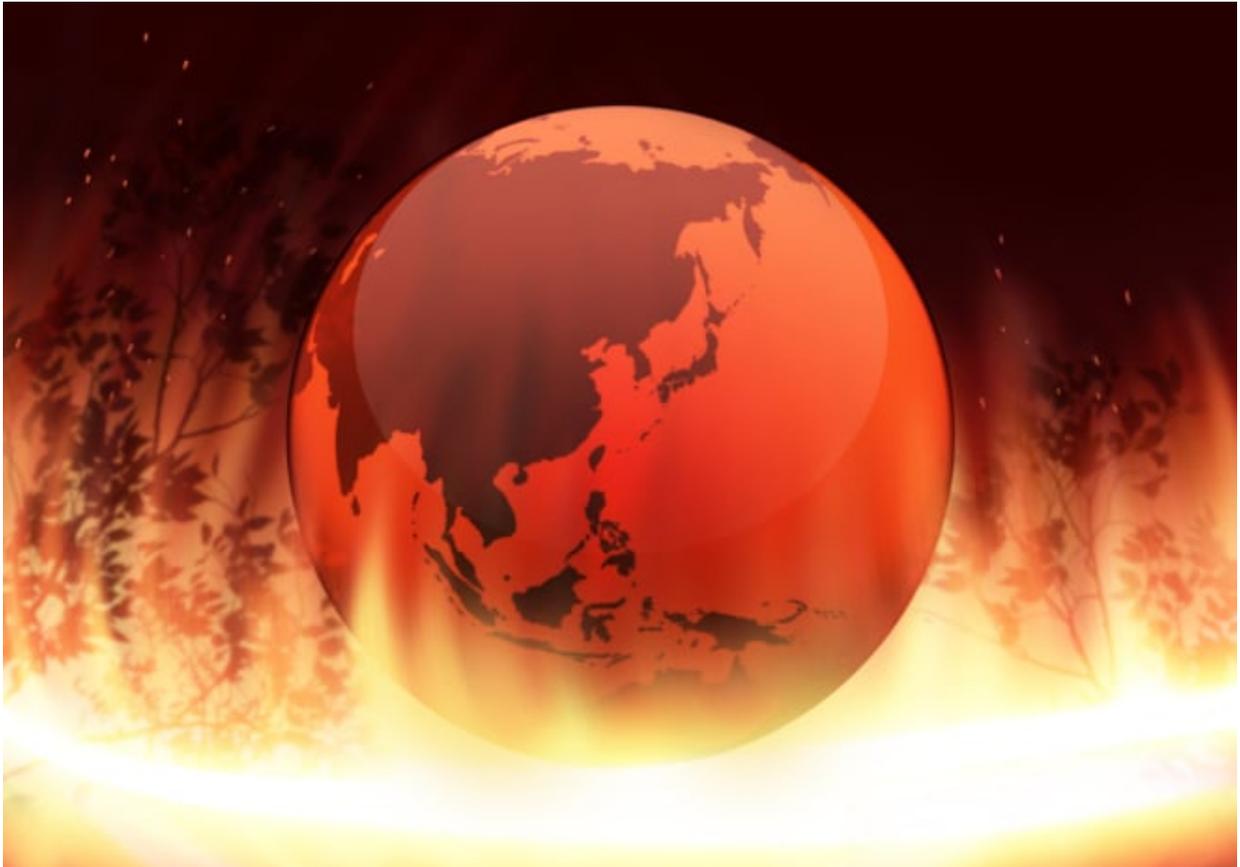
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Posted in ???, ????? | No Comments »

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?? ?? · Tuesday, March 12th, 2024



Tr6/iStock

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[pic.twitter.com/Jriq7emhUT](https://pic.twitter.com/Jriq7emhUT)  
 — Kenji Shiraishi (@Knjshiraishi) March 8, 2024

??IPCC?6????????????????????????????????????2????????????????  
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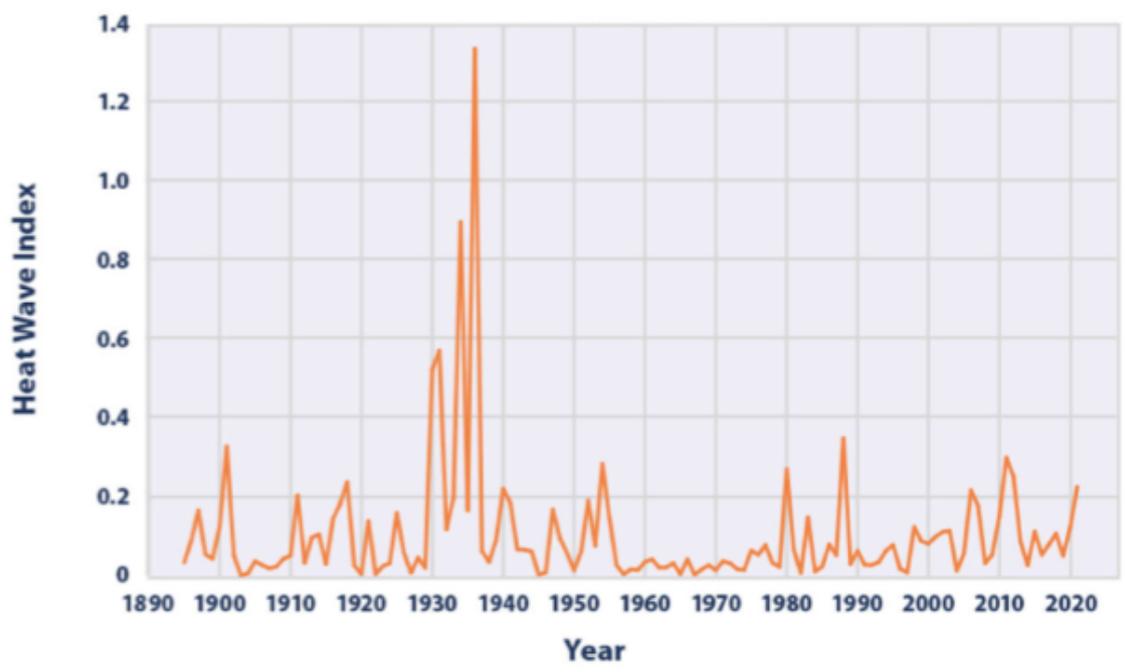
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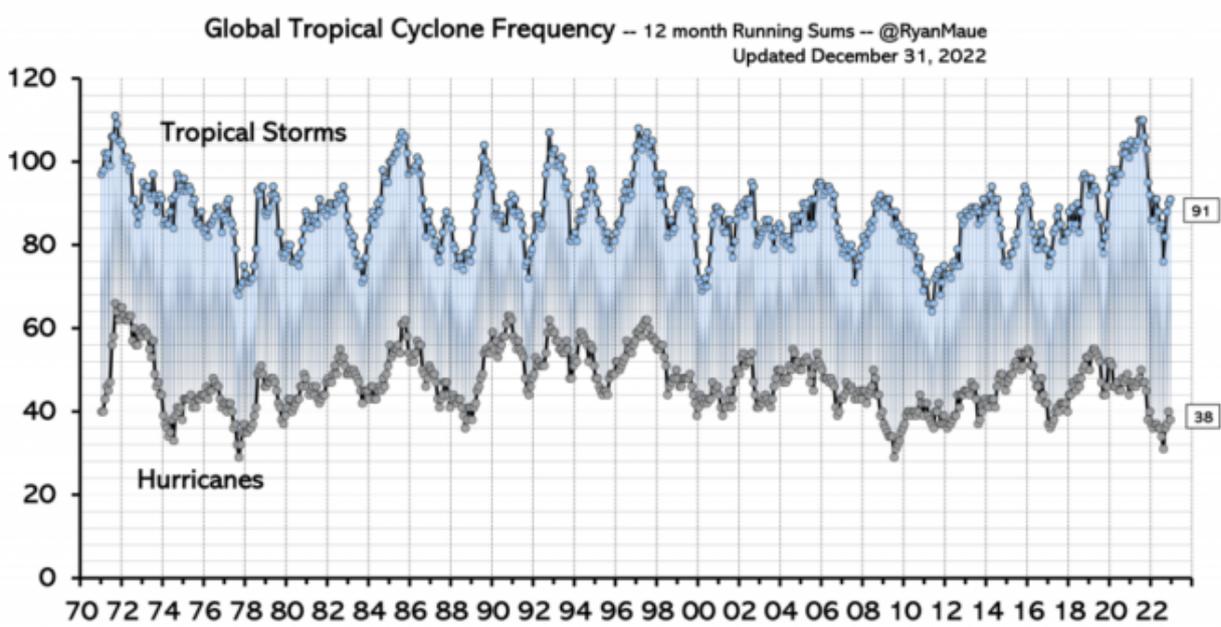
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?? ?? · Monday, March 11th, 2024



gorodenkoff/iStock

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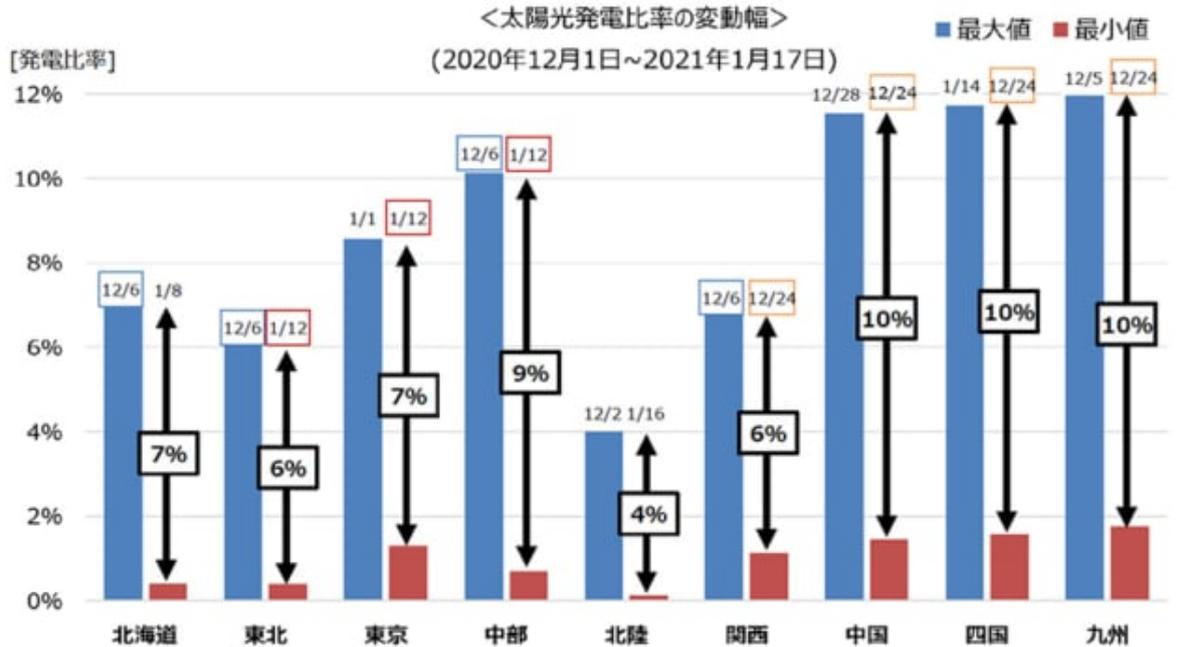
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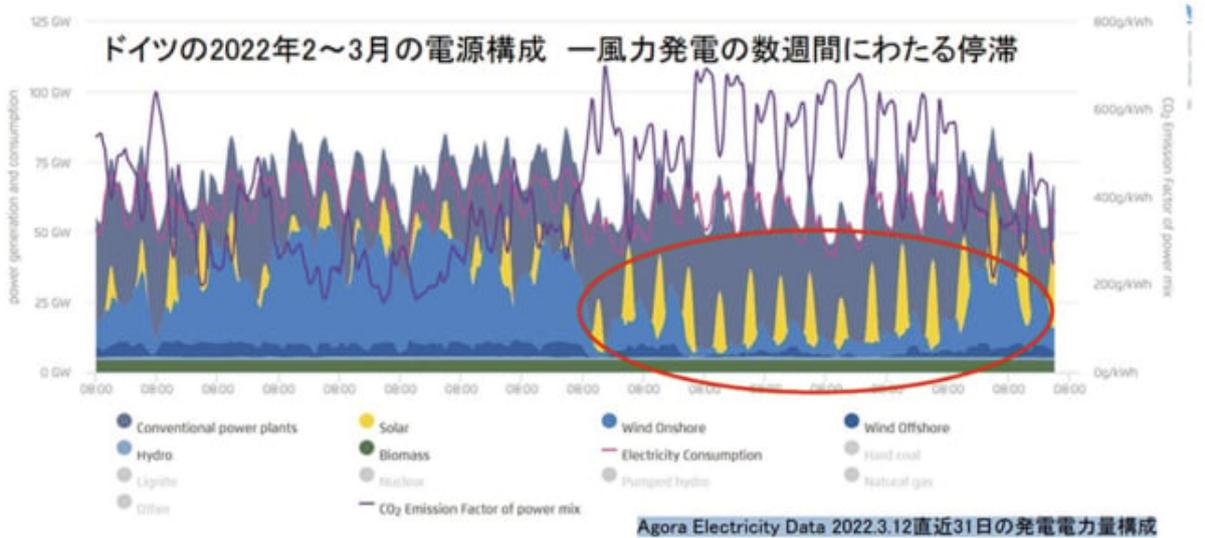
【参考】太陽光発電比率の変動幅（2020年12月1日～2021年1月17日）

- 2020年12月1日～2021年1月17日の期間において、発電量全体に占める太陽光の発電量比率の変動幅（最大値と最小値の差）は、各エリアの総発電量の約4%～約10%分となっている。



※事業者ヒアリングに基づき、資源エネルギー庁作成。棒グラフ上に最大値、最小値を記録した日付を記載。12

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Agora Electricity Data 2022.3.12直近31日の発電電力量構成

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

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?? ??? ?? · Sunday, March 10th, 2024



Muhammet Camdereli/iStock

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Posted in ???, ?? | No Comments »

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?? ?? · Sunday, March 10th, 2024



taka4332/iStock

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43????????????????????60????

**Q26-3 太陽光パネルの導入効果について③** 60

新制度により住宅への太陽光パネルの導入が増えると、どの程度のCO<sub>2</sub>削減効果がありますか？

**A 26-3** 新制度で義務化される導入分に加え、その波及効果等も合わせると、2030年までに新築・既存含めた都内住宅で新たに100万kWの太陽光パネルが導入されることを想定しています。このCO<sub>2</sub>削減効果は、年間約43万tであり、2030年までに家庭部門で必要な削減量の約5%に相当します。

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0.5?×43?21.5??1????1????????????????????1?÷1??1??

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

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?? ?? · Thursday, March 7th, 2024



ConceptCafe/iStock

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2026??2023????????????????????2023

1011????????2025????????  
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EV????????ESG???

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202X?XX?2050????2030?2013?47%????CO2????

????6????2030?46%????CO2????PPA????

5????6????

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??EV????????EBIT????????47????????EV????72,608????EV1????6  
4,731????????

2023????????EV?10????750,789??F????????????CFO??  
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**Ford Lost \$4.7B On EVs Last Year, Or About \$65K For Every EV Sold – Climate Change Dispatch**

EV????????SNS????EV????????TV????????????  
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2019????????CO2????EV????10????????CO  
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**Climate Action 100+**

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**5. ????**

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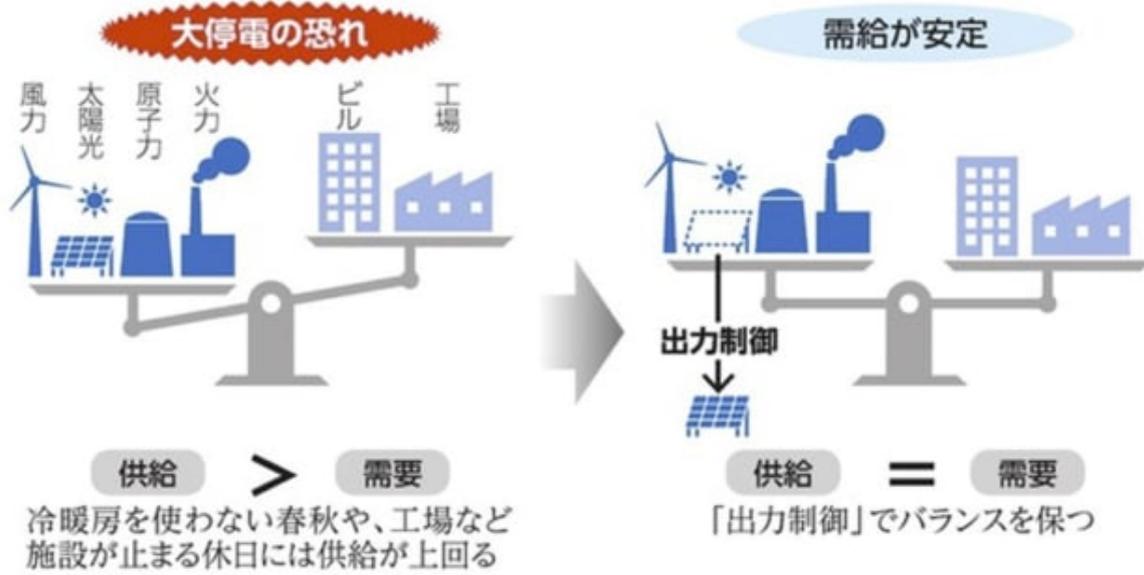
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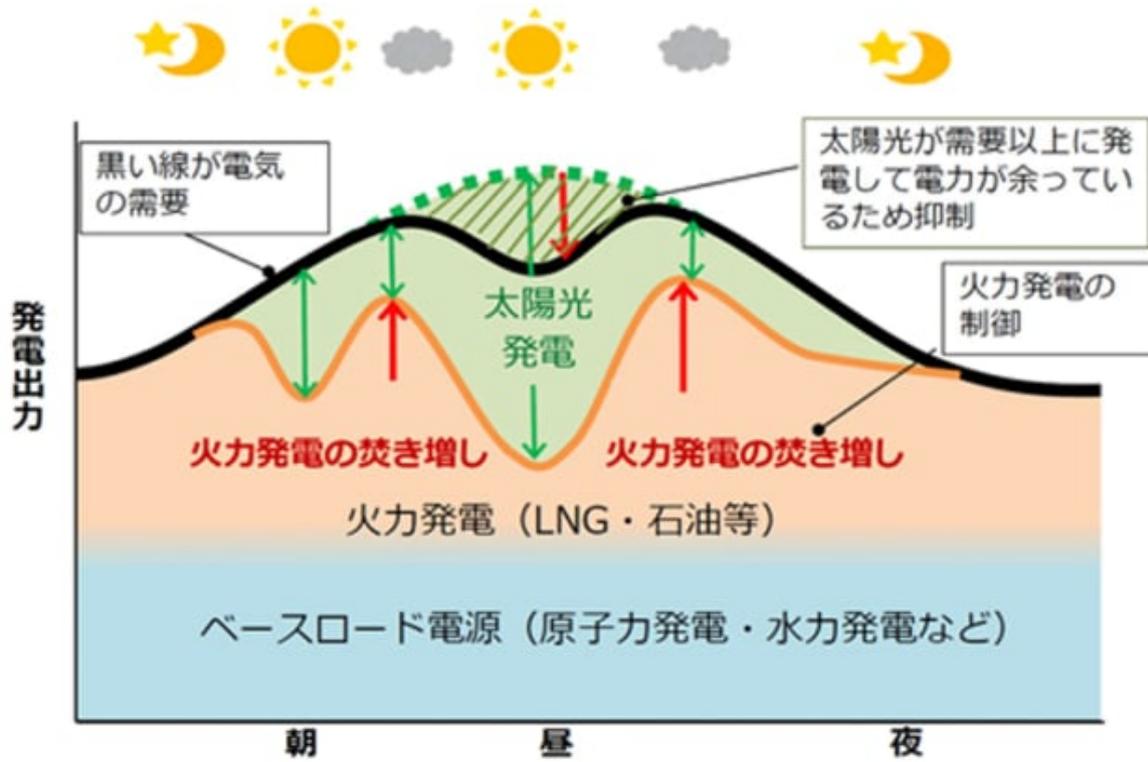
### 電力は需要と供給のバランスが大切



電力は需要と供給のバランスが大切

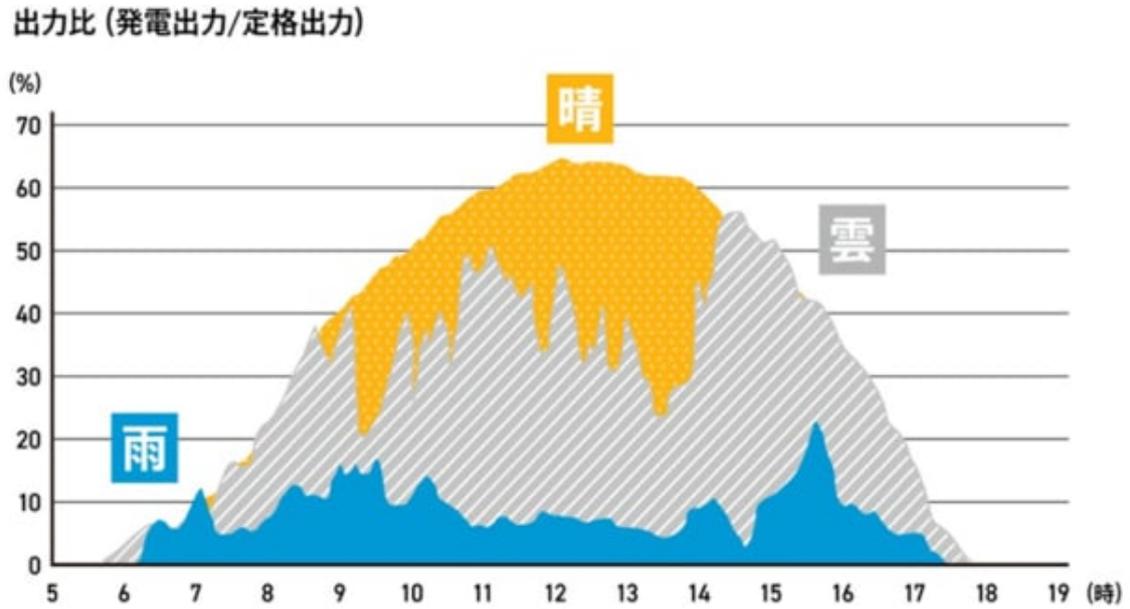
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- ①火力(石油、ガス、石炭)の出力制御、揚水・蓄電池の活用
- ②他地域への送電 (連系線)
- ③バイオマスの出力制御
- ④太陽光、風力の出力制御
- ⑤長期固定電源※ (水力、原子力、地熱) の出力制御

※出力制御が技術的に困難

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??7ene@proton.me????????????????

**8. ????????????????**

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**10. CO2 ????????????????????????**

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**11. ????????????????????????**

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