

# Global Energy Policy Research | GEPR

GEPR?http://agorajp.com/?  
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## CO2

?? - Saturday, April 13th, 2024



Jian Fan/iStock

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CO<sub>2</sub> neutral

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

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QOL? Quality of Life

CO<sub>2</sub>

CO<sub>2</sub>

CO<sub>2</sub> CCS

CO<sub>2</sub>

CO<sub>2</sub> ppm

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

CO<sub>2</sub>

AGW? Anthropogenic Global Warming

2009

Climategate IPCC

IPCC CO<sub>2</sub>

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Posted in ???, ????? | No Comments »

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?? ??? ?? · Friday, April 5th, 2024



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Posted in ???, ?? | No Comments »

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?? ? · Sunday, March 31st, 2024



[Donaldjtrump.com](http://Donaldjtrump.com)??

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(Nationally Determined  
Contribution)????

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

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?? ?? · Saturday, March 30th, 2024



Zbynek Pospisil/iStock

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Olivier Le Moal/iStock

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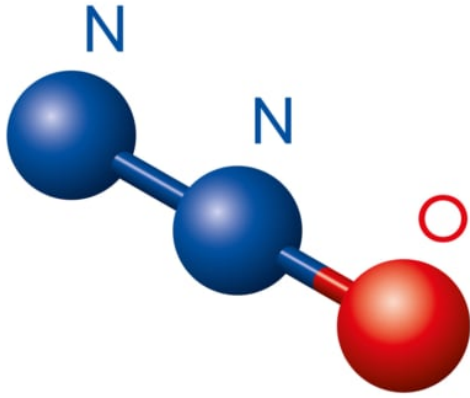
Sjo/iStock

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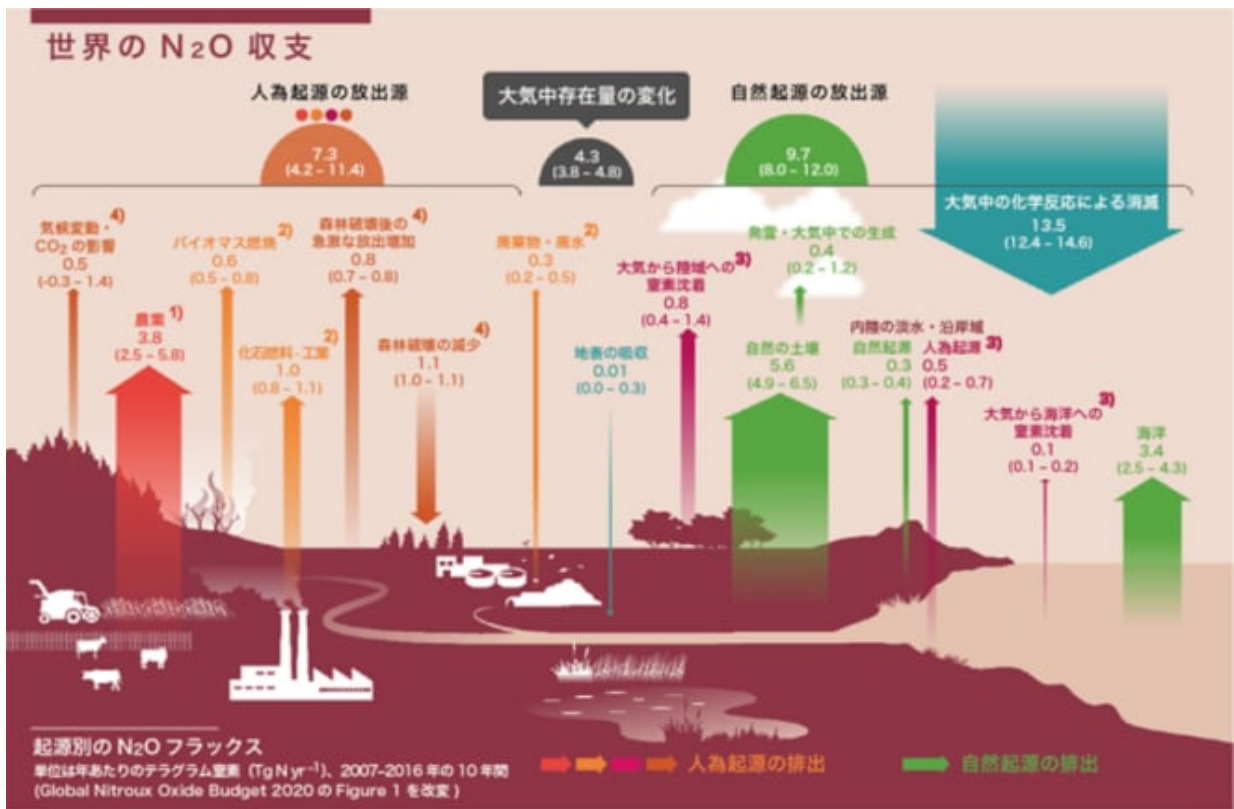
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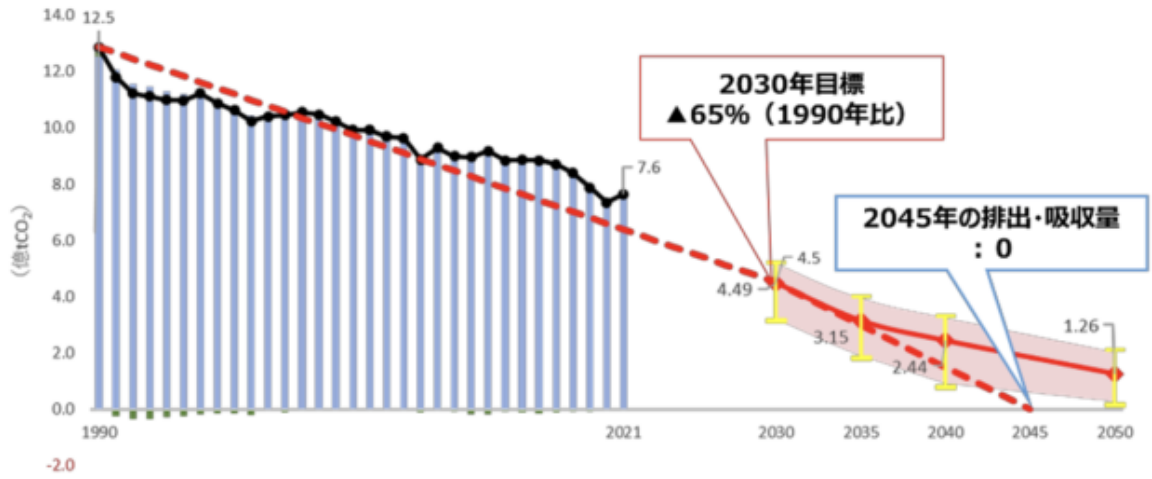
PeterHermesFurian/iStock



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IMF?????????2024?1????<sup>22</sup>?????2023?????GDP?????????????????0.3%????????????????????  
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23?4???2.2%?????4????????????????<sup>23</sup>????????????????  
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1????????????????????10??30????????

2?IMF????????????2024?1??

3?Gross domestic product: detailed results on economic performance in the 4th quarter of 2023

4?Germany’s industrial gloom deepens as production falls

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



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?? ?? · Thursday, March 28th, 2024



metamorworks/iStock

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# (参考) 出力制御対策パッケージ (案)

- **出力制御の低減に向けた新たな対策パッケージでは、**
  - **需要面**での対策により、出力制御時間帯の**需要家の行動変容・再エネ利用を促しつつ、**
  - **供給面**での対策により、**再エネが優先的に活用される仕組みを措置**するとともに、
  - **系統増強等**により、**再エネ導入拡大・レジリエンス強化の環境を整備**するなど、**切れ目のない対策**を講じる。
- その際、太陽光等の更なる導入拡大を見据え、**中長期的な観点から、特に需要面の対策に重点**を置き、家庭・産業それぞれの分野で**予算措置と制度的措置を一体的に講じる**ことにより、**供給に合わせた需要の創出・シフト**を図る。

### 【具体的な対策】

<b>1. 需要面での対策</b>	
①需要側のリソースの活用に向けた消費者の行動変容の促進（電気料金メニューの多様化等）	
②家庭用蓄電池・ヒートポンプ給湯機の導入を通じた需要の創出・シフト	
③機器のDR Ready化（通信制御機器の設置）	④電炉等の電力多消費産業におけるDRの推進
⑤電力の供給構造の変化に合わせた電力多消費産業の立地誘導・需要構造の転換	
⑥系統用：蓄電池、再エネ併設蓄電池、水電解装置の導入を通じた需要の創出・シフト	
⑦事業者用：蓄電池の導入や、事業者所有設備への通信制御機器の設置の支援等	
<b>2. 供給面での対策</b>	
①再エネ発電設備のオンライン化の更なる推進等	②新設火力発電の最低出力引下げ(50%→30%) 等
③出力制御時の他エリアでの非調整電源の出力引下げ	④火力等発電設備の運用高度化
⑤水力発電を活用した出力制御量の抑制	
⑥電力市場の需給状況に応じた再エネの供給を促すFIP制度の更なる活用促進	
<b>3. 系統増強等</b>	
①連系線の運用見直し等による域外送電量の拡大	②地域間連系線の更なる増強による域外送電量の拡大
<b>4. 電力市場構造における対応（中長期的な検討課題）</b>	
◆価格メカニズムを通じた供給・需要の調整・誘導	

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# 火力設備の調整力一覧

<b>出力変化率</b>	: 1分間当たりの出力変化速度	(%/min)
<b>LFC幅</b>	: LFC信号に基づき変化できる出力の幅 (Load Frequency Control:負荷周波数制御) (定格出力に対する割合)	(%)
<b>最低出力</b>	: 安定運転が可能な最低出力 (定格までの出力が調整力となる。停止した場合と異なり、需要の変化に即応できる)	(%)
<b>起動時間</b>	: ユニット起動から最大出力までの時間	(分)
<b>DSS</b>	: 日間起動停止 (短時間での停止起動に対応) (Daily Start Stop)	

- ・ 既存の設備を活用
- ・ 燃料供給により長時間の対応が可能

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

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?? ?? · Wednesday, March 27th, 2024



MicroStockHub/iStock

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

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

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?? ?? · Tuesday, March 26th, 2024



Jeff\_Hu/iStock

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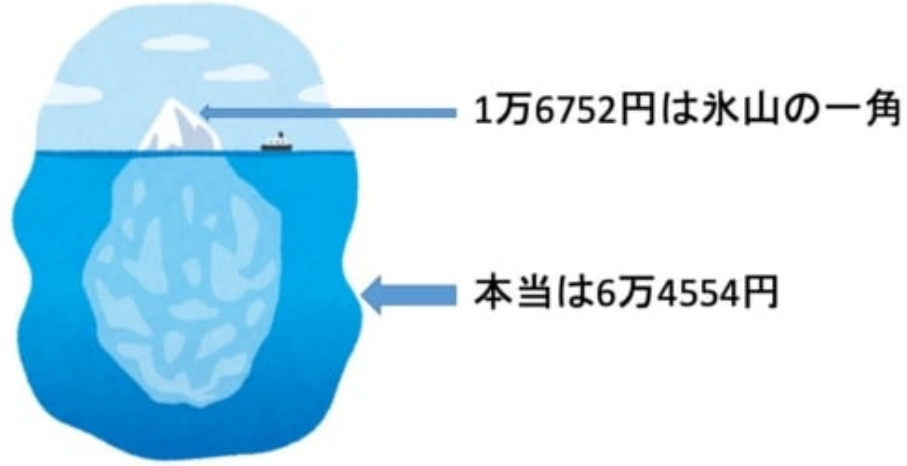
????????????????1kWh??3.49????????????????7707?kWh????????2?6897????????1?????2?2  
716?????3?????6?4554???????

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

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?? ?? · Wednesday, March 20th, 2024



Jay\_Zynism/iStock

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

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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

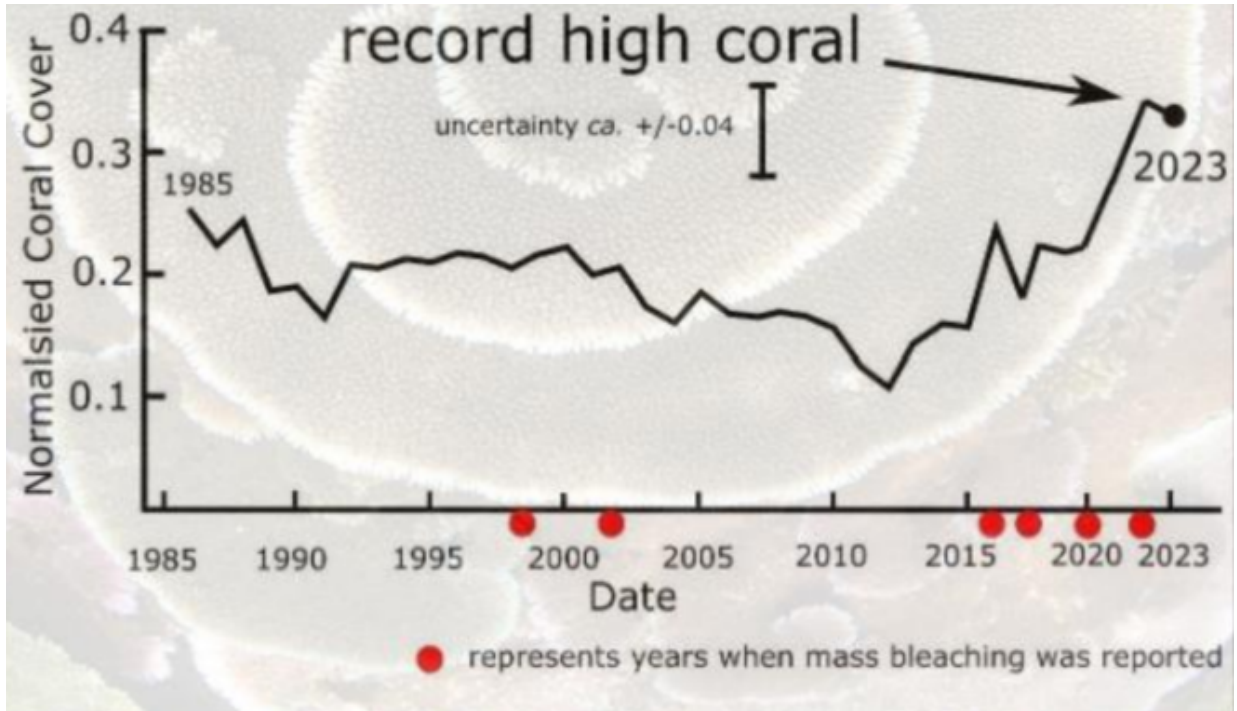
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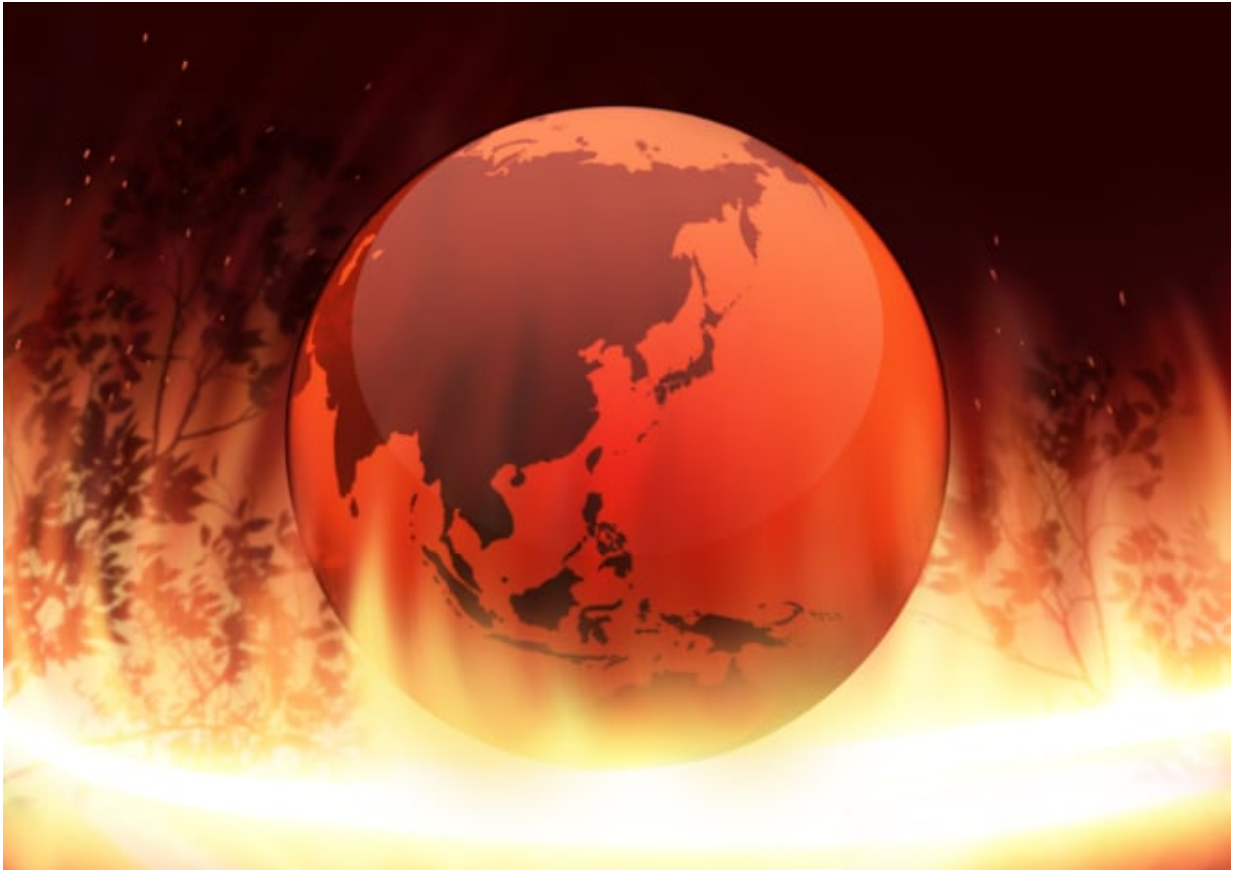
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Posted in ???, ????? | No Comments »

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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

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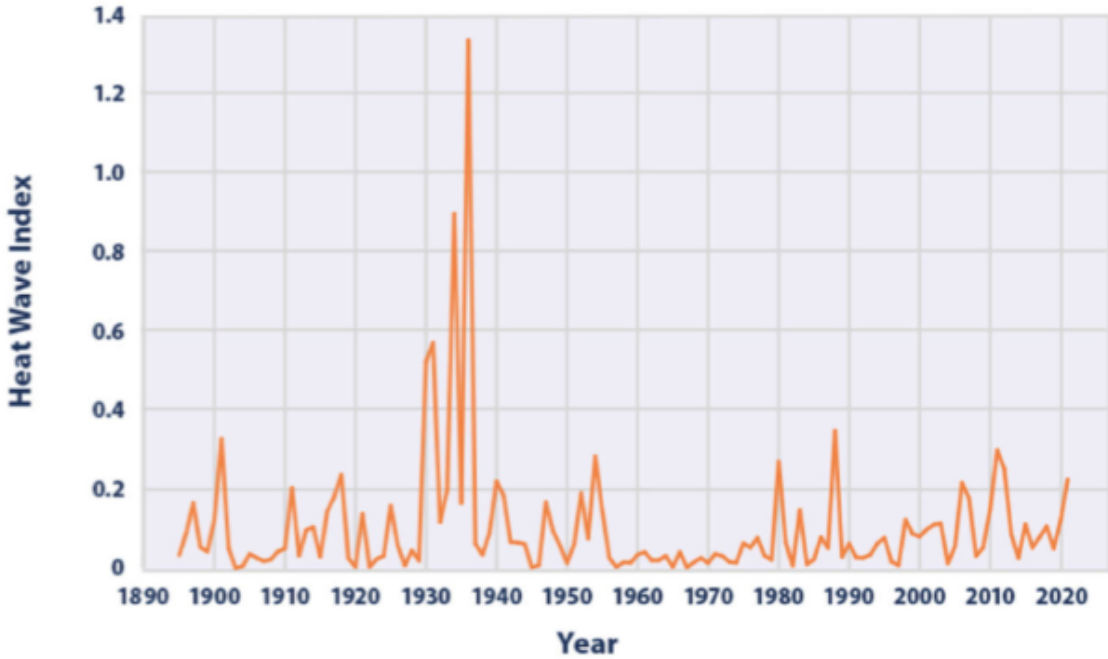
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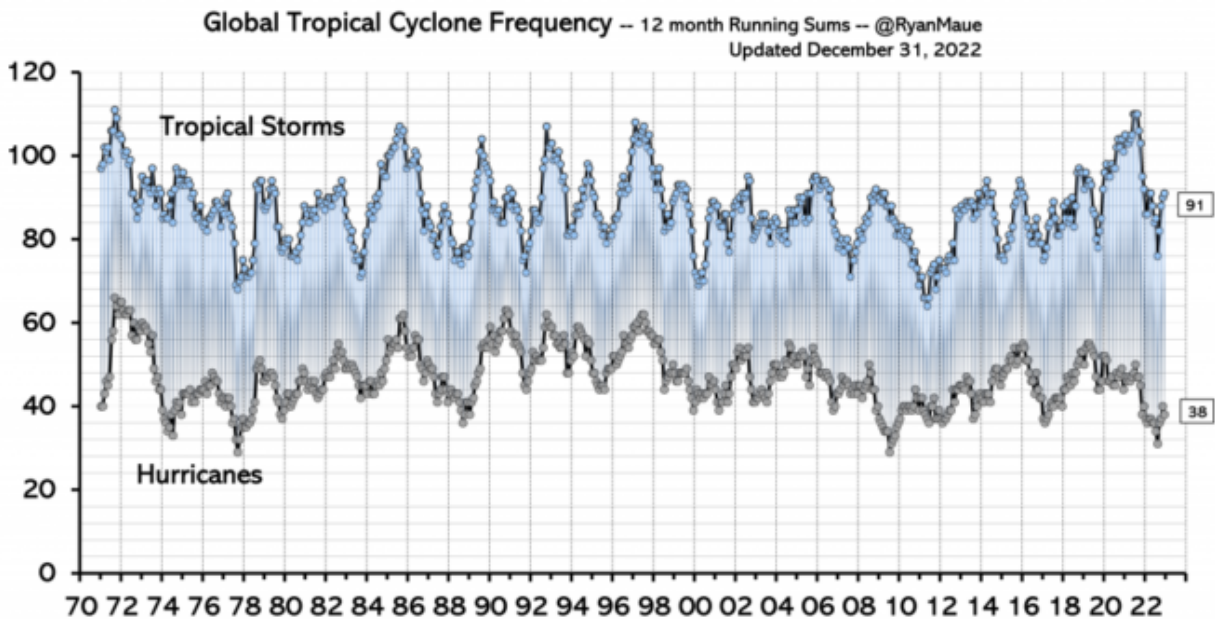
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??????Nature Science Report??????????

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Posted in ???, ????? | No Comments »

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?? ?? · Monday, March 11th, 2024



gorodenkoff/iStock

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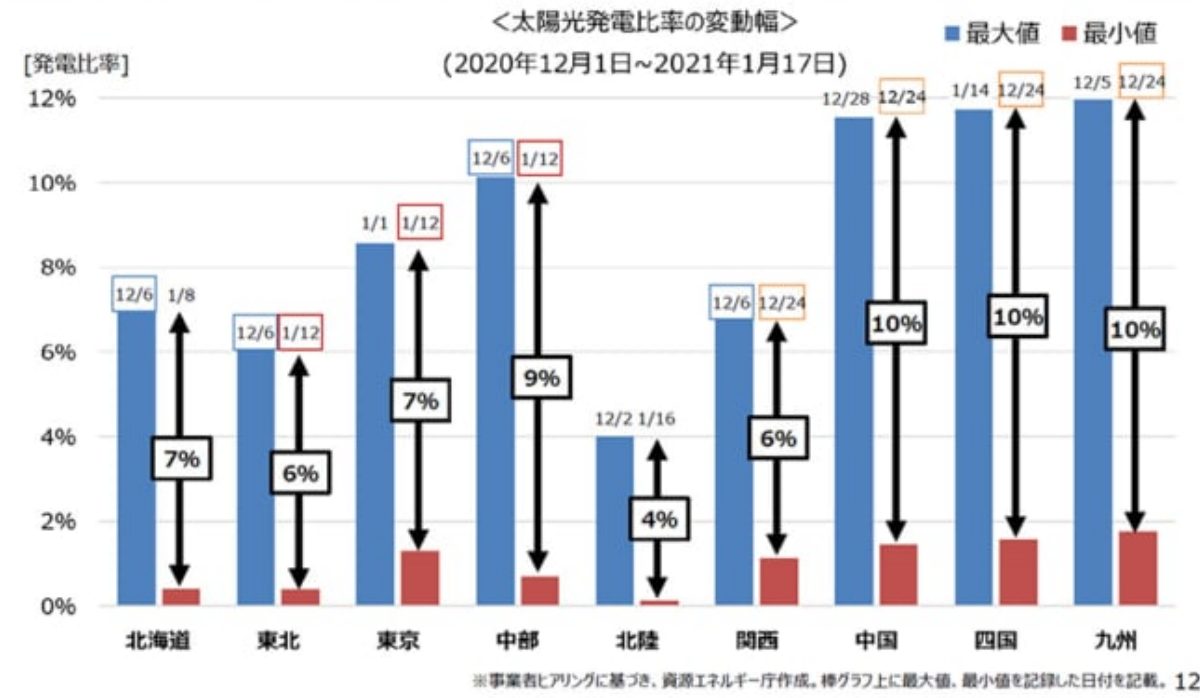
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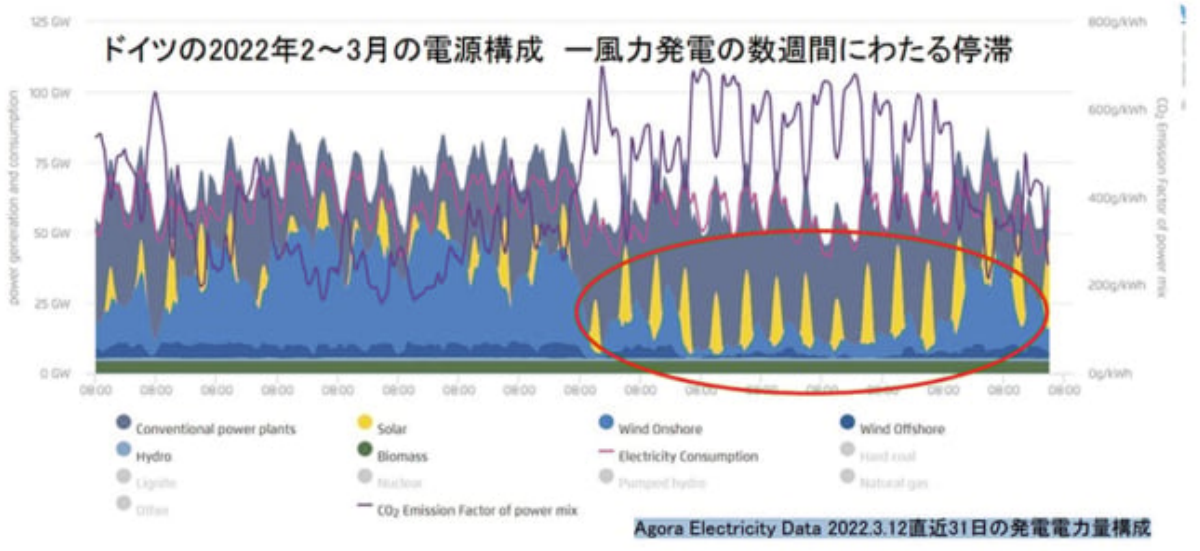


### 【参考】太陽光発電比率の変動幅（2020年12月1日～2021年1月17日）

● 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。



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

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?? ??? ?? - Sunday, March 10th, 2024



Muhammet Camdereli/iStock

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32????????????RIAR????????????5????????????1????????3????????????  
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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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0.000000215?

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**???2000?????????????0.000000215??????1????2???????**

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

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?? ?? · Thursday, March 7th, 2024



ConceptCafe/iStock

????????EV????????????????????????????????????EV????????30?EV????????????????????????2023?9??  
?????EV??5????????????????

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????ESG????????????????????????????????????ETF????S&P?ESG????????????

????JP??  
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????????????ESG??

????2023?1????????????????????????????????????2022?11????????COP27????????????????????  
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????????46%??  
 ???2030?2050????????????????????  
 ?????????????????????ESG?SDGs????????????????????????????????????COP27  
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????2023?10????????2026??

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



1011????????2025????????  
2026????????

EV????????ESG???

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202X?XX?XX?

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

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

5????6????

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

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

2022?11????27????COP27????CO2???

EU?2023?9????UCPD????CRD????2026????

2050????2030?47%????2030?2050????CO2????

SDGs????

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2015?12??COP21?????2016?11?4????????????8????????????2020?10????????????2050????  
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2. ??????EV?

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

2023????EV?10????750,789??F????????CFO??  
????2????????EV????

**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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10????CO2????CO2????  
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2015??JP????????????????3????????????????????????????????  
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**Climate Action 100+**

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**5. ????**

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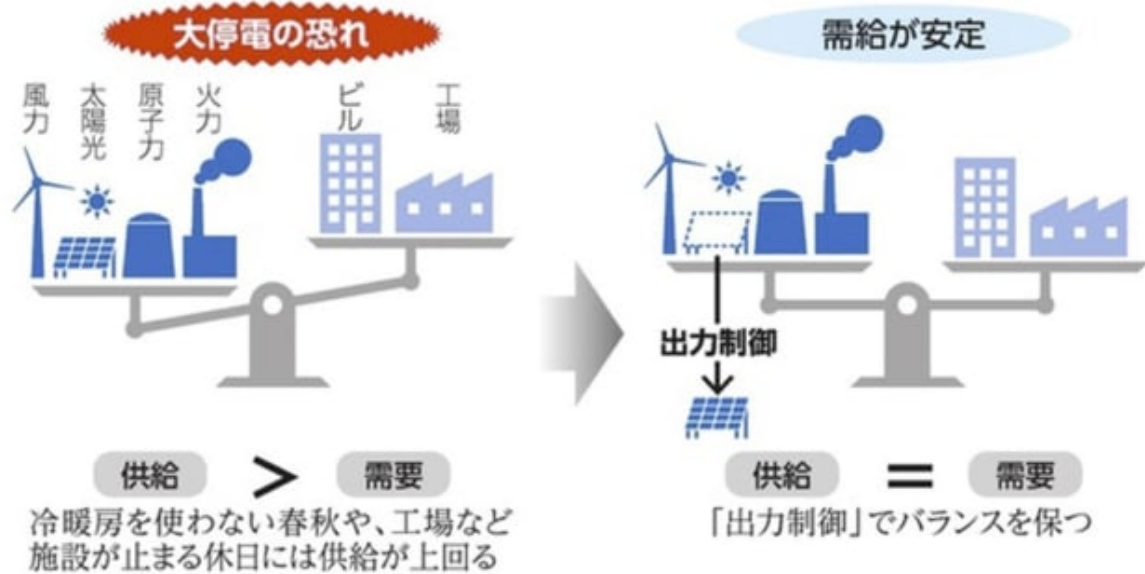
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### 電力は需要と供給のバランスが大切

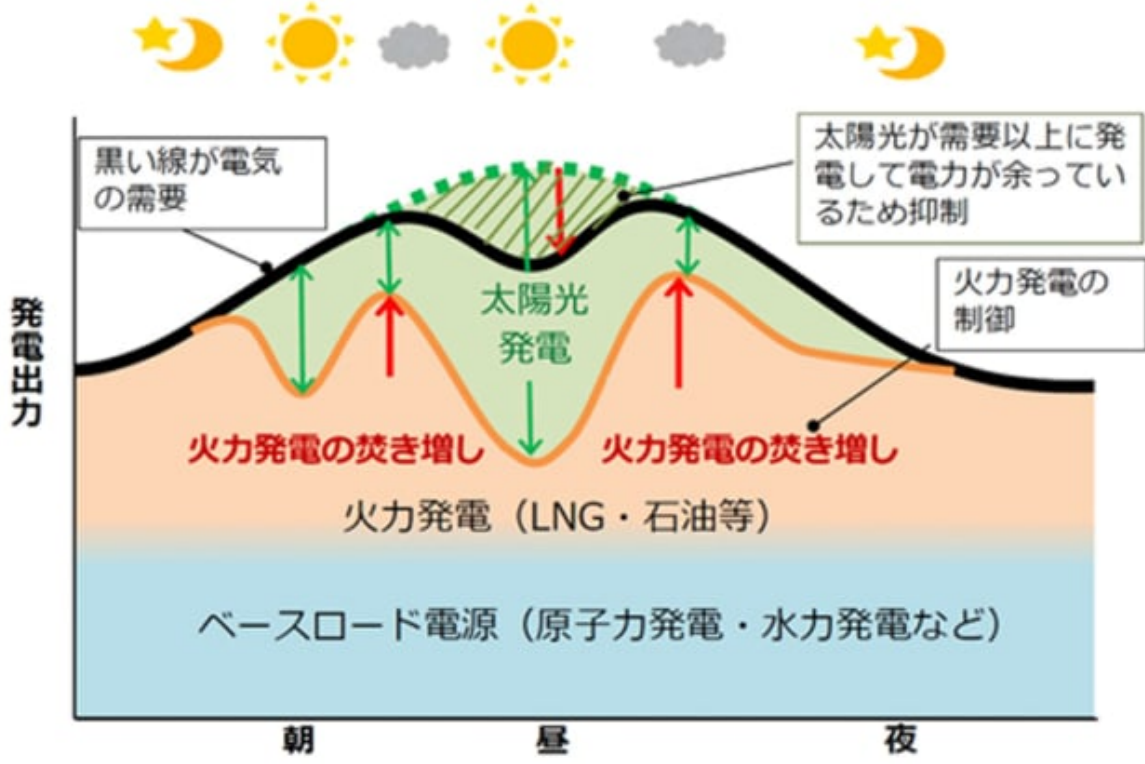


電力は需要と供給のバランスが大切

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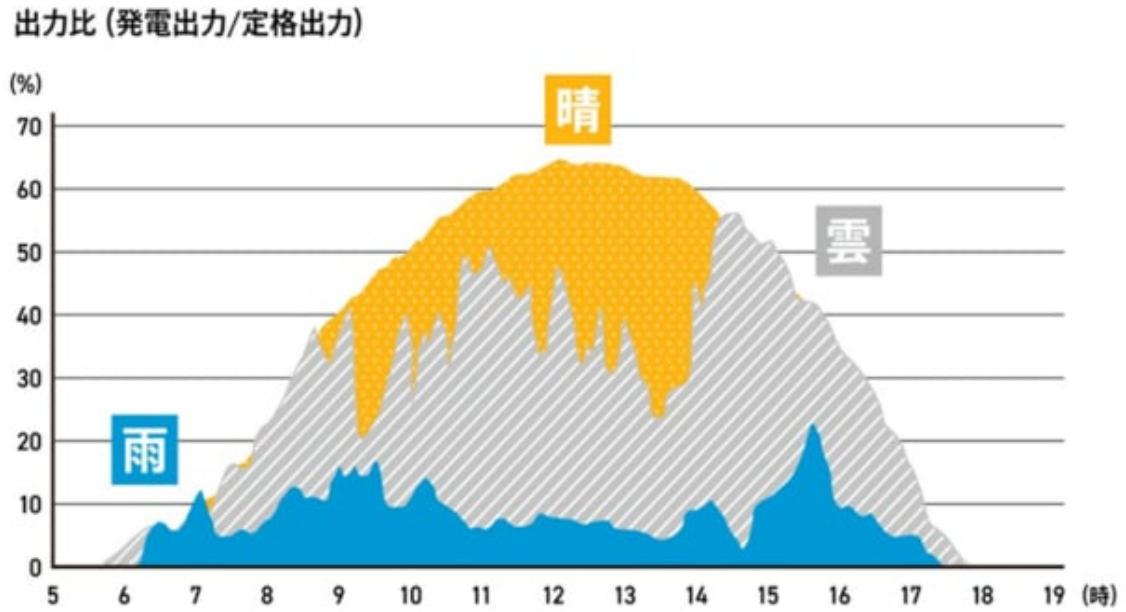


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- ①火力(石油、ガス、石炭)の出力制御、揚水・蓄電池の活用
  - ②他地域への送電 (連系線)
  - ③バイオマスの出力制御
  - ④太陽光、風力の出力制御
  - ⑤長期固定電源※ (水力、原子力、地熱) の出力制御
- ※出力制御が技術的に困難

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

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

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

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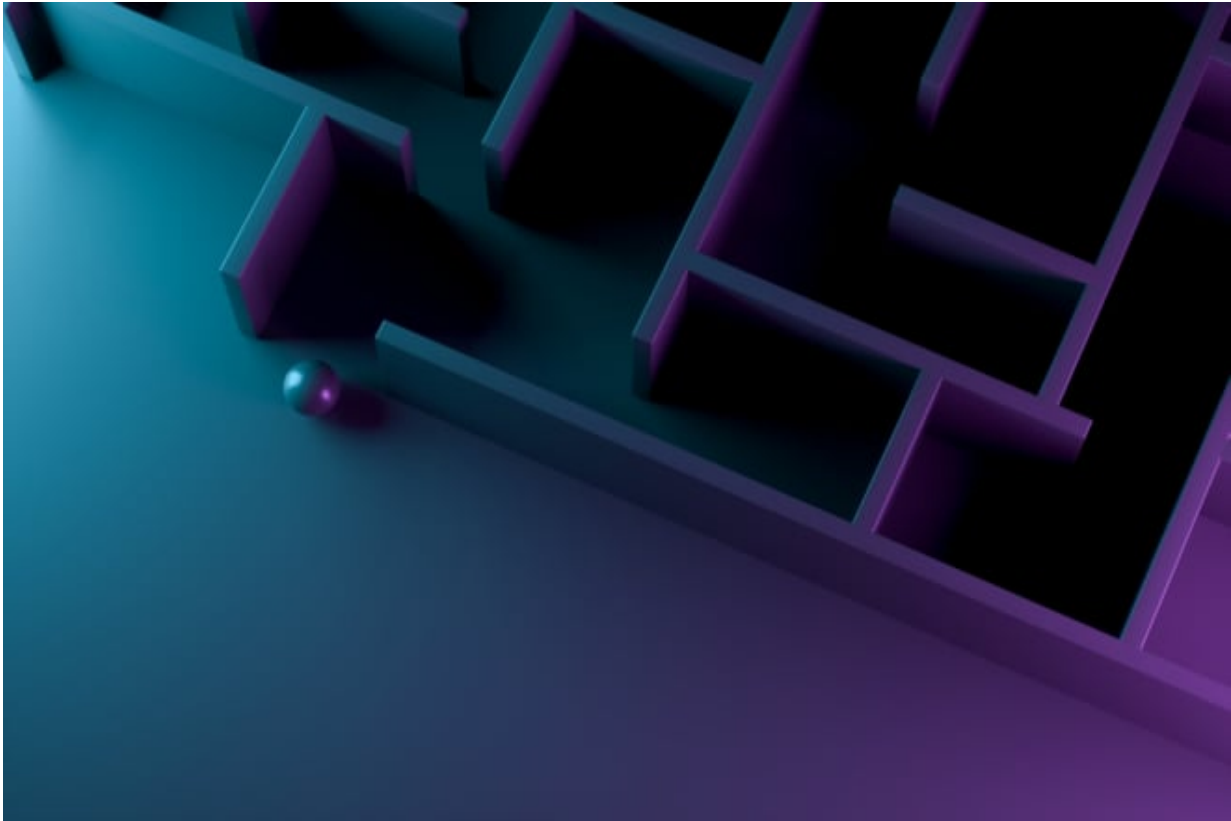
????????????????????2050??CO2????????????????????????????????  
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**11. ?????????????????**

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akinbostanci/iStock

COP28????????????????????1.5????????????????????????????????????1.5????2050  
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**The Death of the 1.5 Degree Climate Target??????????1?8??????????????**  
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Lari Bat/iStock

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**4. ????????????????**

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**5. ???EV???????????????**

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1. ????A????????????????1,617????????????
2. ?5????????2????????B????????372????
3. ?A??B??4????????260kWh????????140????????611????
4. ?????????140????611????????

????1?2????

????3????

??A????????1??3????1,352????265????

??B????2????????811????  
??2??439??811?  
439?372??/????375????

????4????4????140????611????  
140????

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?? ?? · Saturday, February 17th, 2024



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Climate change is “the single-most existential threat to humanity we’ve ever faced, including nuclear weapons.” ?Whitehouse.gov, January 31, 2023?

“If we don’t keep [global temperature] below 1.5 degrees Celsius over the — be — not go above that — we’re going to damn our children to a circumstance that is going to be the only truly existential threat under nu- — other than nuclear war.” ?Whitehouse.gov, March 14, 2023?

“The only existential threat humanity faces even more frightening than a — than a nuclear war is global warming going above 1.5 degrees in the next 20 — 10 years.” ?Whitehouse.gov, September 10, 2023?

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?? ?? · Monday, February 12th, 2024



Alberto Masnovo/iStock

2023-2025-2041

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5. CO2
6. CO2 IPCC 1 CO2 0.5
7. 6 1970

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?? ?? · Saturday, February 10th, 2024



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???ESG?Environmental, Social, and  
Governance?401K??  
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?? ?? · Friday, February 9th, 2024



Agenda47: President Trump on Making America Energy Independent Again

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