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Olivier Le Moal/iStock

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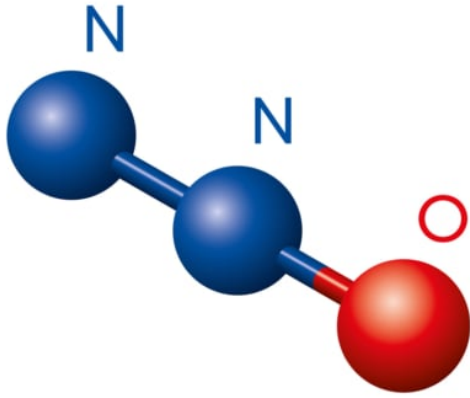
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Sjo/iStock

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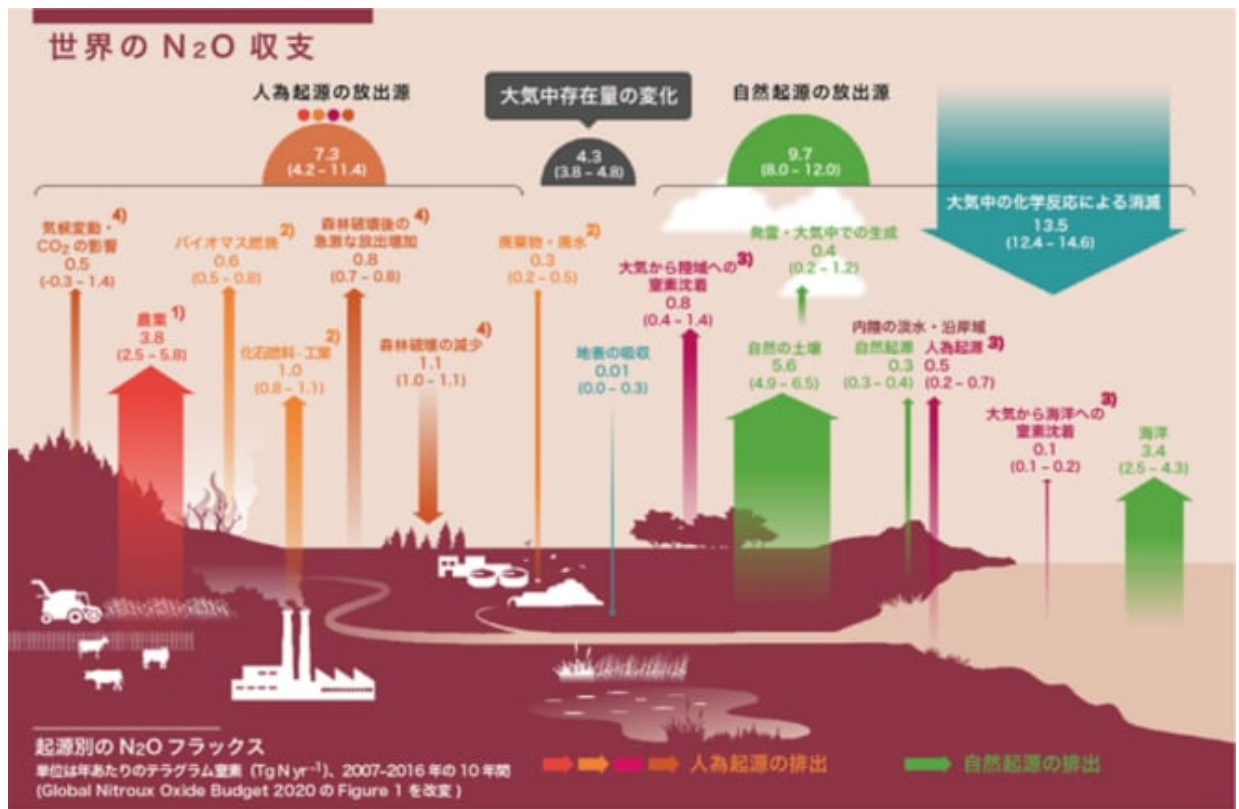
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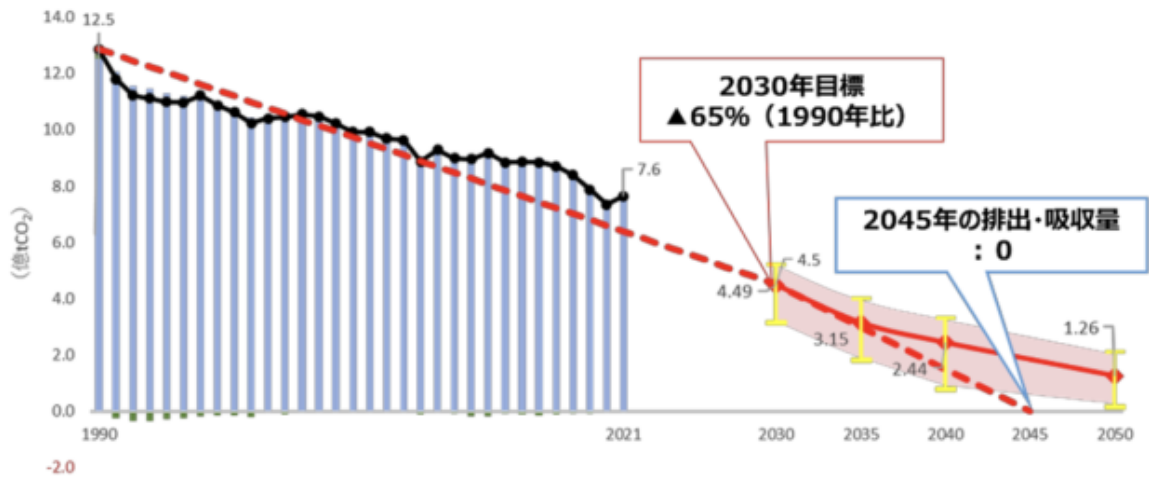
PeterHermesFurian/iStock



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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】

#### 1. 需要面での対策

- 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

#### 2. 供給面での対策

- 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

#### 3. 系統増強等

- 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

#### 4. 電力市場構造における対応（中長期的な検討課題）

- ◆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

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

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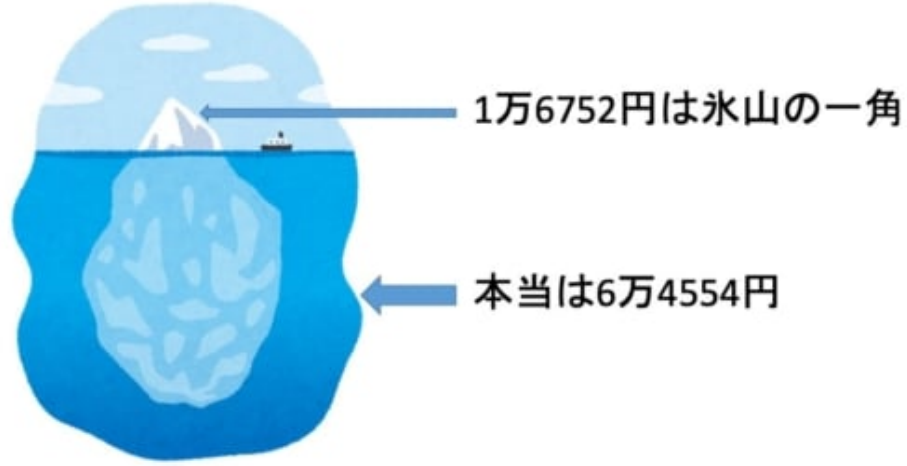
????????????????1kWh??3.49????????????????7707?kWh????????2?6897????????1?????2?2  
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Posted in ??????????, ??? | No Comments »

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?? ?? · Friday, March 22nd, 2024



Cristian Storto Fotografia/iStock

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

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?? ?? · Wednesday, March 20th, 2024



Jay\_Zynism/iStock

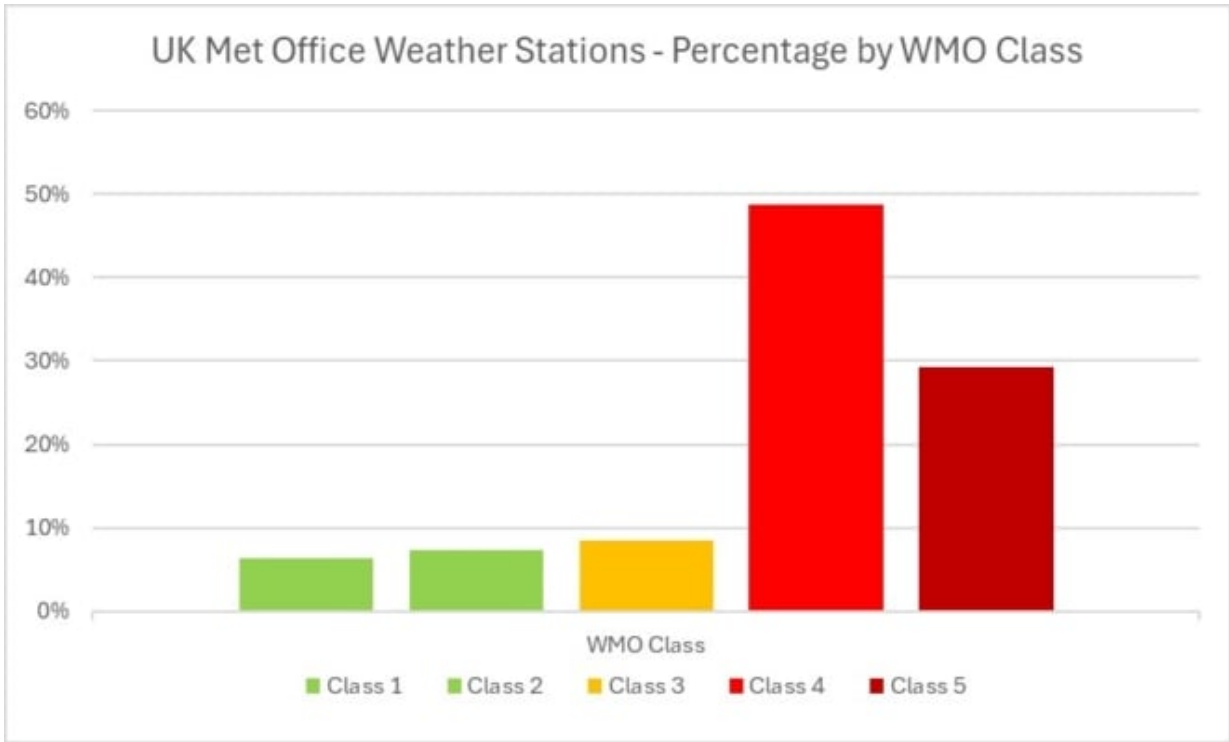
????????????????3??1??29.2????????????????5????????380????????48.7% ???2????????NGO?????  
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??World Meteorological Office????????????????????

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Posted in ???, ????? | No Comments »

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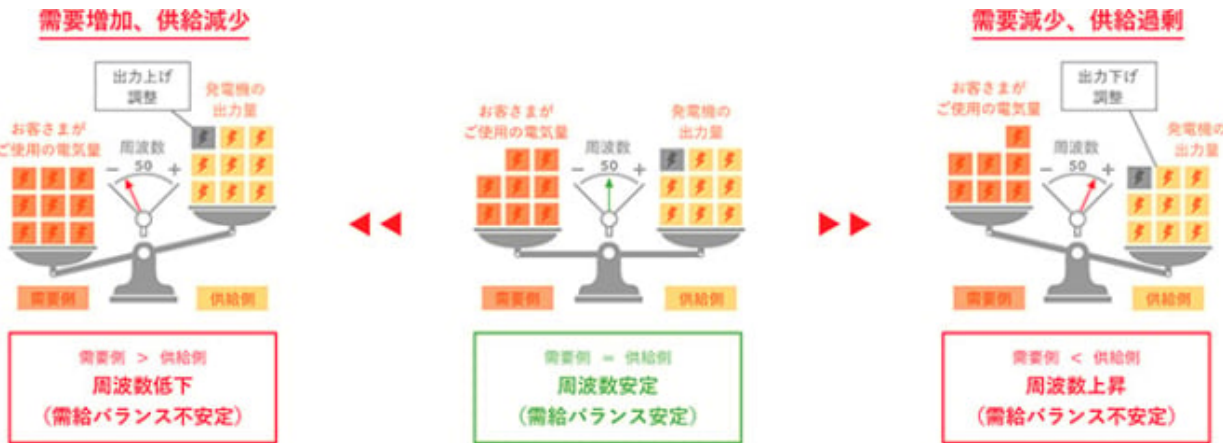
?? ?? · Wednesday, March 20th, 2024



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### 東地域の系統整備の費用便益評価 (B/C) について【暫定版】

● 東地域の系統整備の現在の費用便益の評価について、割引率・燃料価格・アデカシー便益及び工事費に幅をもって評価した結果、**B/Cは0.63～1.72程度**になる見込み。

＜費用便益評価の結果 (HVDC:2GW)＞

上段は評価期間の累積 (時点換算を考慮)  
[ ]は評価期間における年平均

		評価期間	
		25年間	40年間
便益 (B)	燃料費・CO2対策コスト	15,292～29,781億円 [612～1,191億円/年]	20,058～45,581億円 [501～1,140億円/年]
	アデカシー便益	1,455～4,833億円 [58～193億円/年]	1,856～7,284億円 [46～182億円/年]
	送電ロス	▲625～▲970億円 [▲25～▲39億円/年]	▲789～▲1,430億円 [▲20～▲36億円/年]
費用 (C)	工事費・年経費	22,038～28,886億円 [882～988億円/年]	24,107～34,831億円 [705～873億円/年]
B/C		<b>0.63～1.36</b>	<b>0.75～1.72</b>

【検討条件】

- 増強前 : 中地域交流ループ、中部関西間増強考慮
- 燃料価格 : 基準～高騰ケース
- アデカシー : 停電コストベース (上限～下限)、調達コストベース
- 割引率 : 割引率4%の評価に加えて、2%、1%も考慮

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

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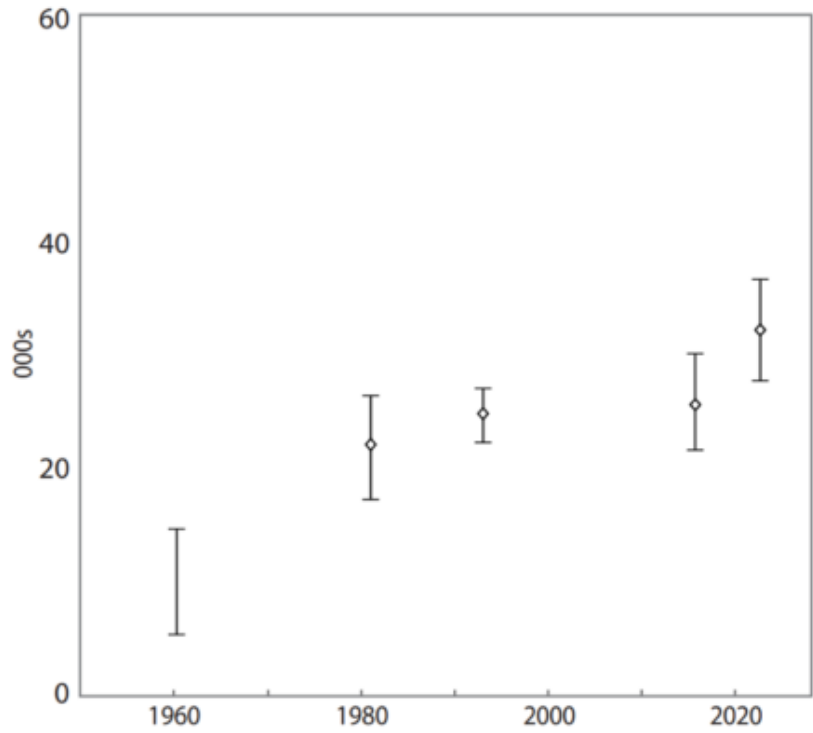
?? ?? · Tuesday, March 19th, 2024



JohnPitcher/iStock

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Figure 1: Estimates of the global polar bear population, 1960 to date.



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Posted in ???, ????? | No Comments »

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?? ?? · Monday, March 18th, 2024



Niklas Flindt/iStock

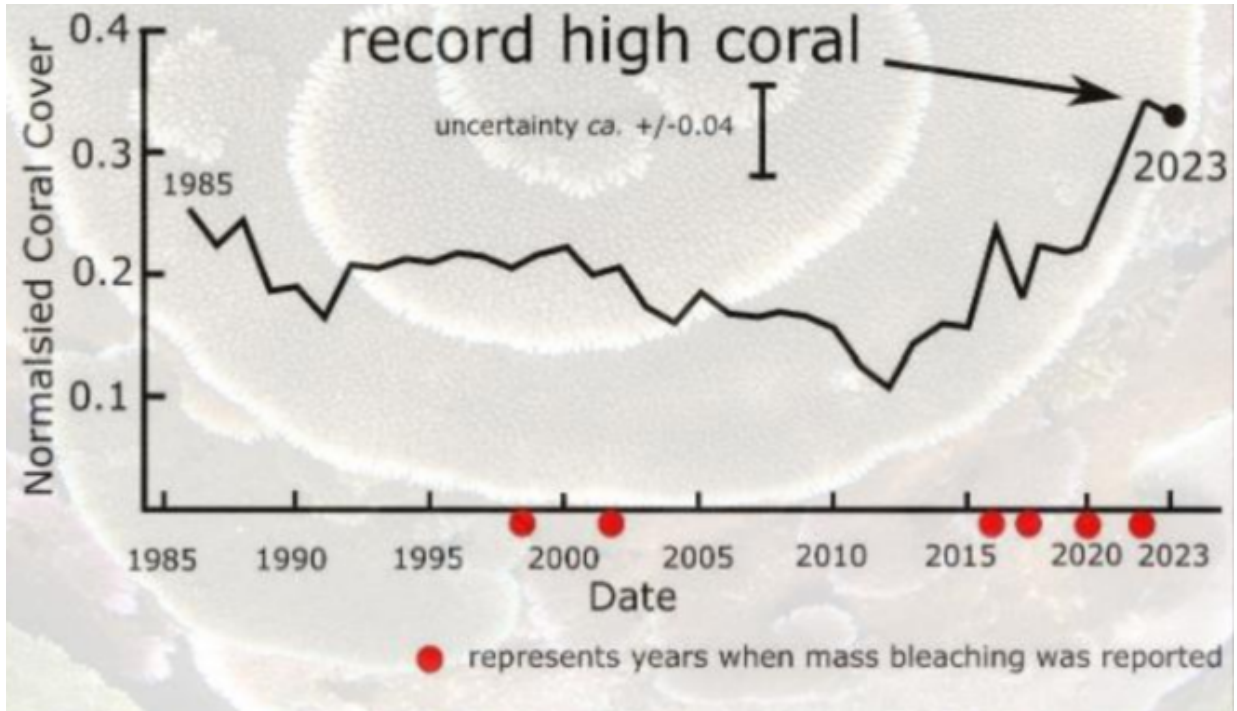
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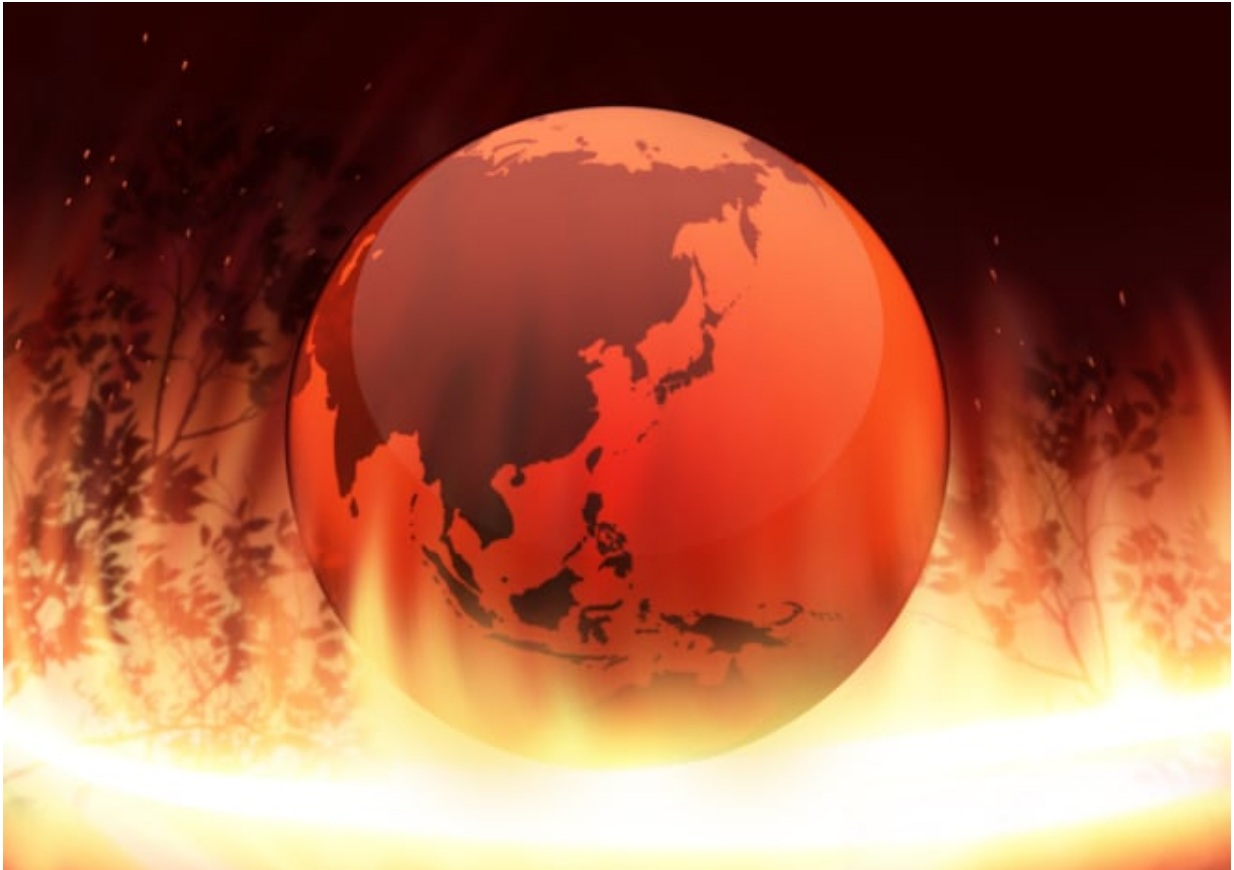
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Posted in ???, ????? | No Comments »

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?? ?? · Tuesday, March 12th, 2024



Tr6/iStock

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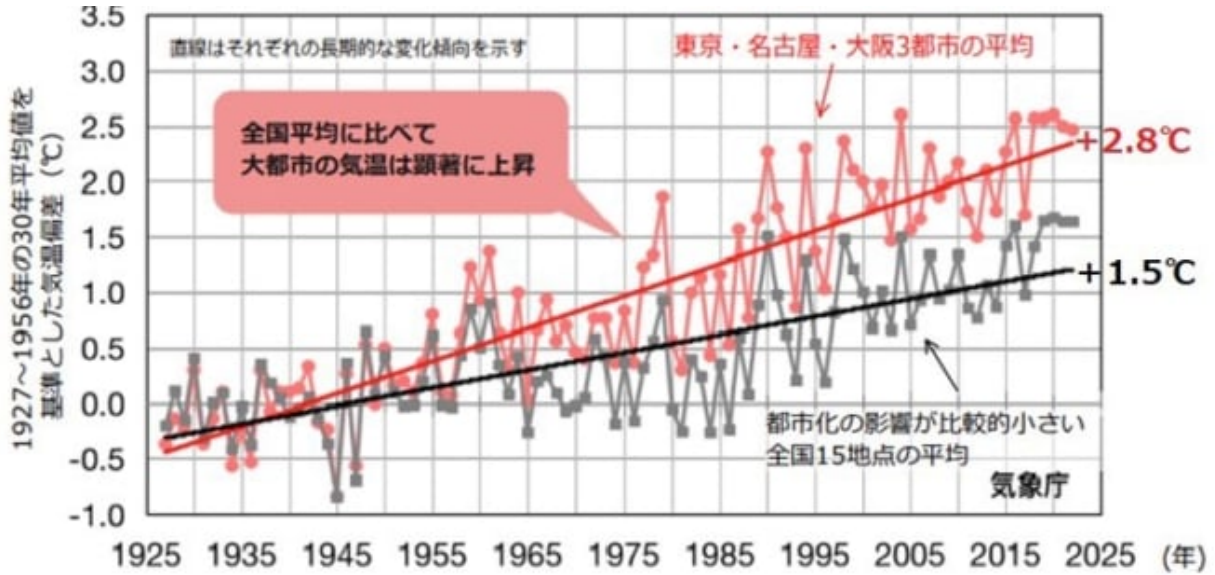
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[pic.twitter.com/Jriq7emhUT](https://pic.twitter.com/Jriq7emhUT)

— Kenji Shiraishi (@Knjshiraishi) March 8, 2024

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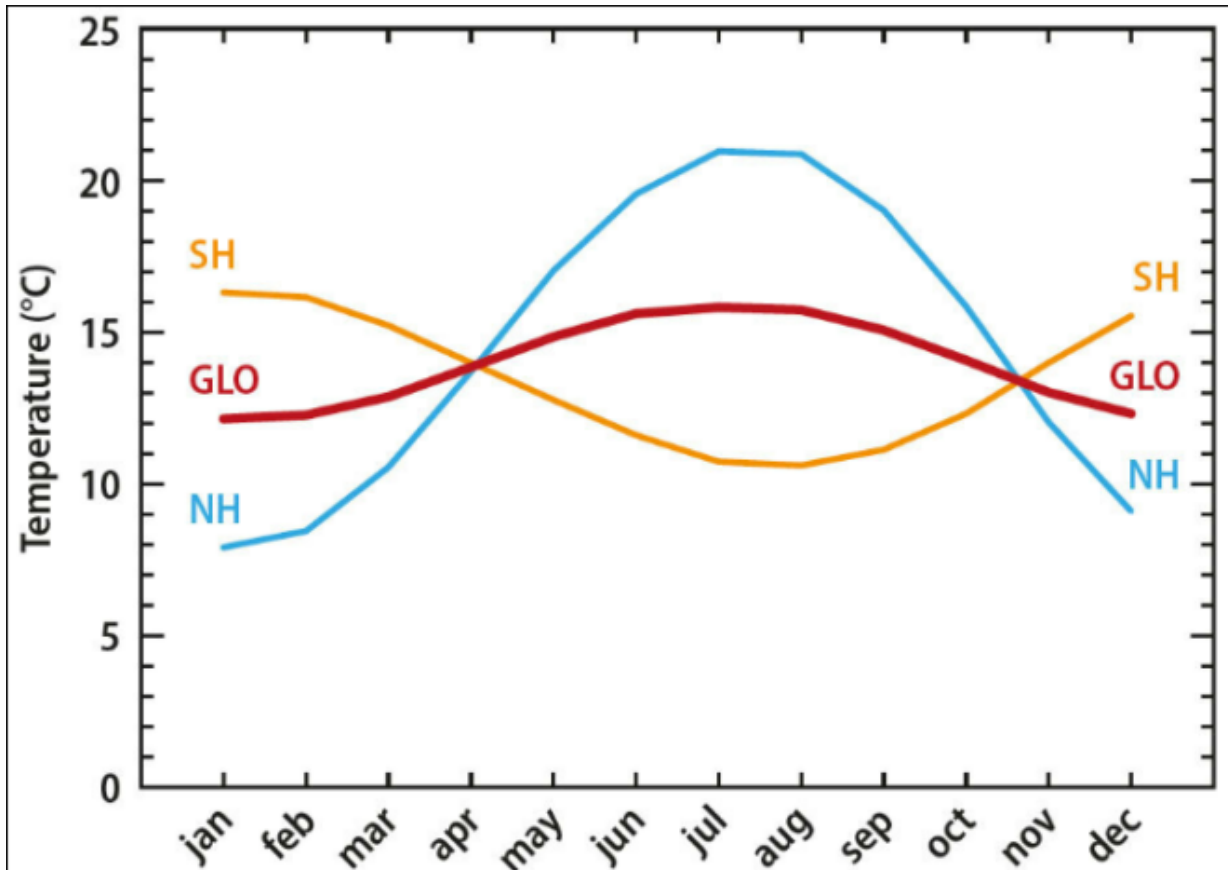
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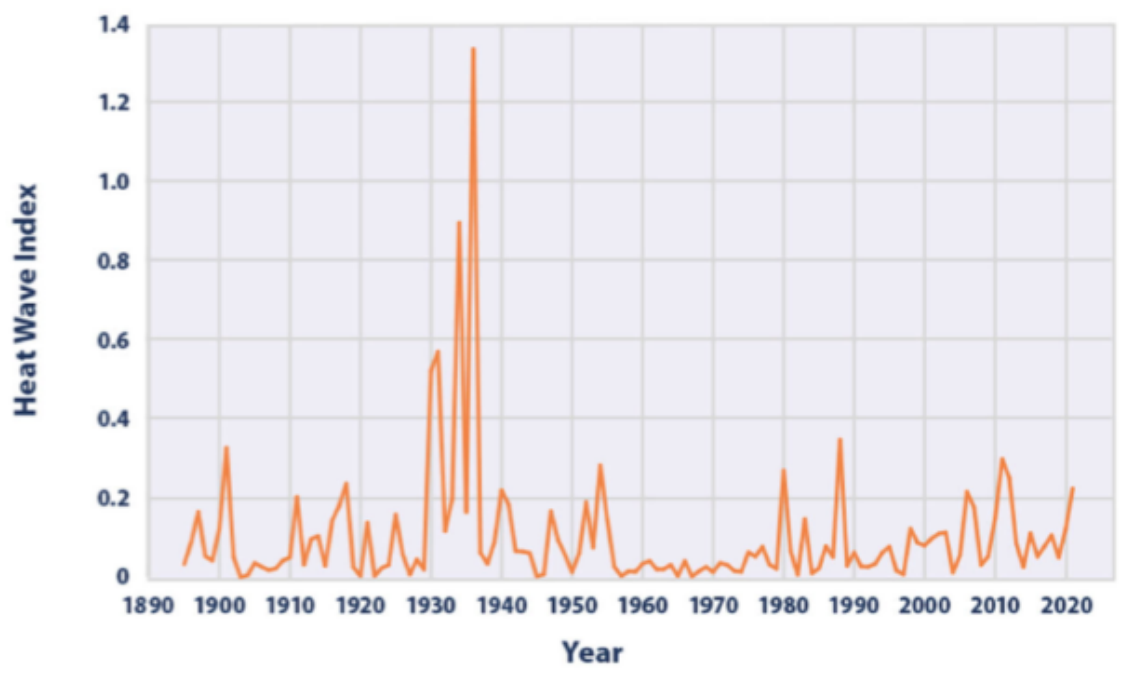
??1961?1990????????????????????(GMST)

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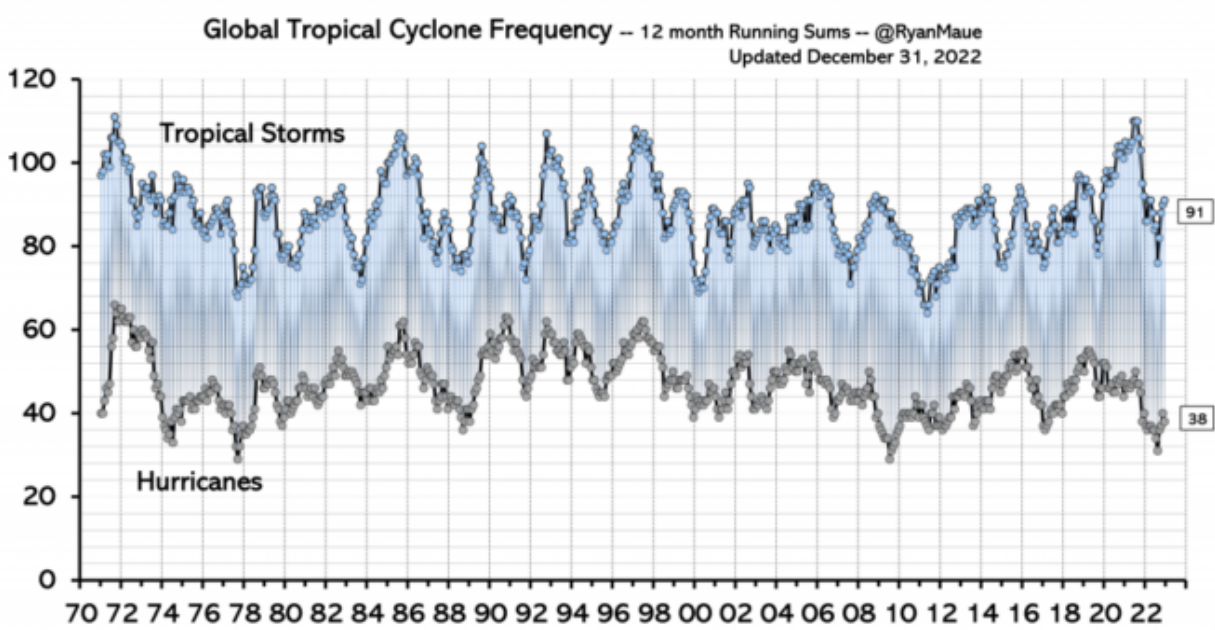
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?? ?? · Monday, March 11th, 2024



gorodenkoff/iStock

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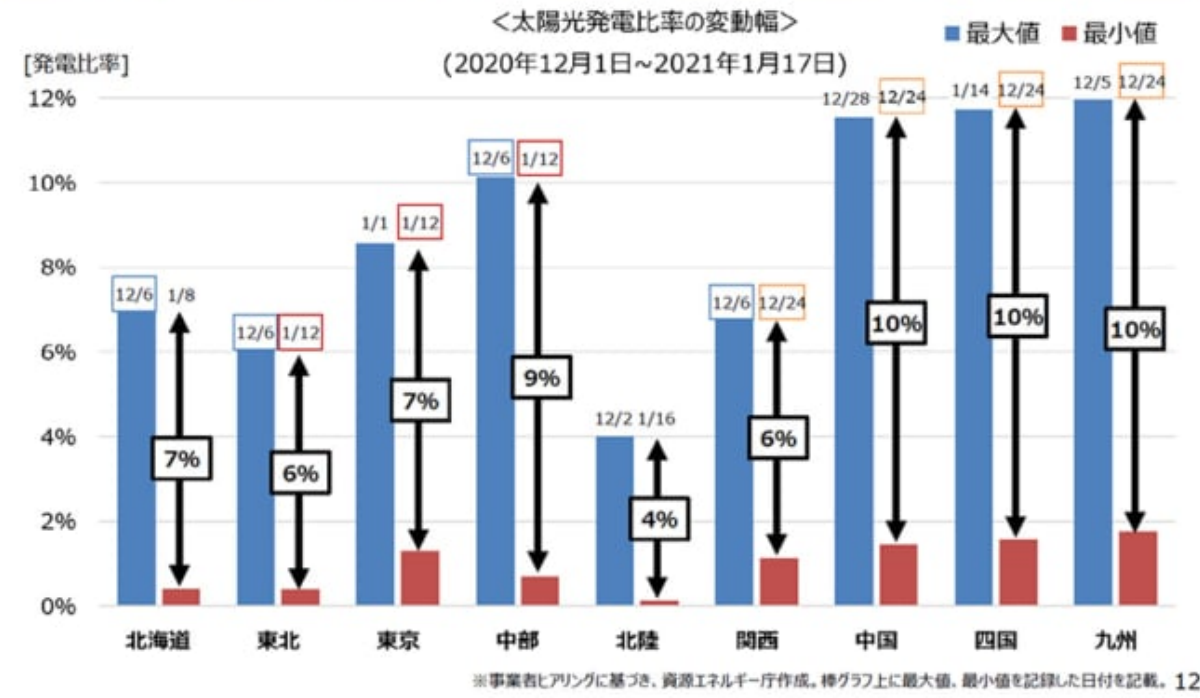
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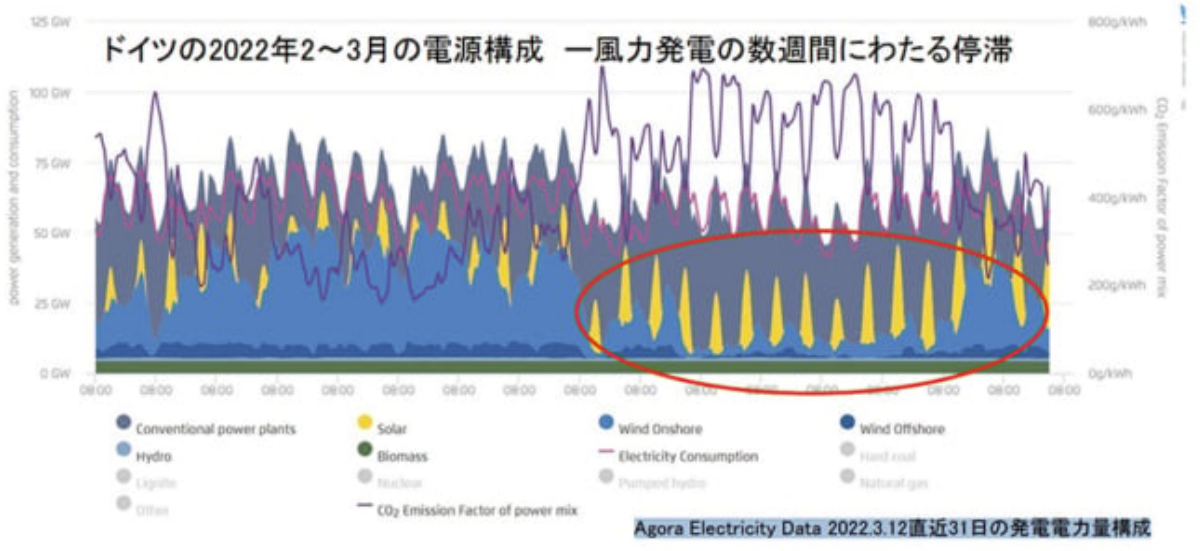


### 【参考】太陽光発電比率の変動幅（2020年12月1日～2021年1月17日）

● 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。



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

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?? ?? · Thursday, March 7th, 2024



ConceptCafe/iStock

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?????2023?1????????????????????????????????????2022?11????????COP27????????????????  
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????????46%??  
 ???2030?2050????????????????????  
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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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ESG??

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

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?? ?? · Wednesday, March 6th, 2024



Dilok Klaisataporn/iStock

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2015?12??COP21?????2016?11?4????????????8????????????2020?10????????????2050????  
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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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EV????????????????????????????????PM????  
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2019????????CO2????EV????10????????CO  
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10????????CO2????CO2????  
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**Climate Action 100+**

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

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

?? ?? · Wednesday, March 6th, 2024



### (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】

##### 1. 需要面での対策

- 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

##### 2. 供給面での対策

- 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

##### 3. 系統増強等

- 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

##### 4. 電力市場構造における対応（中長期的な検討課題）

- ◆価格メカニズムを通じた供給・需要の調整・誘導

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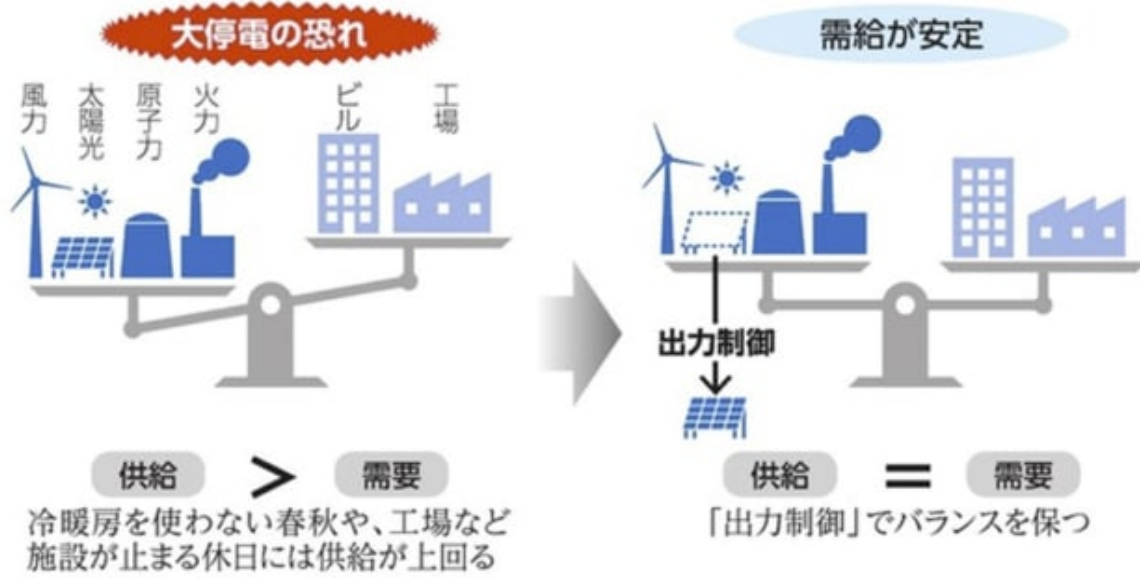
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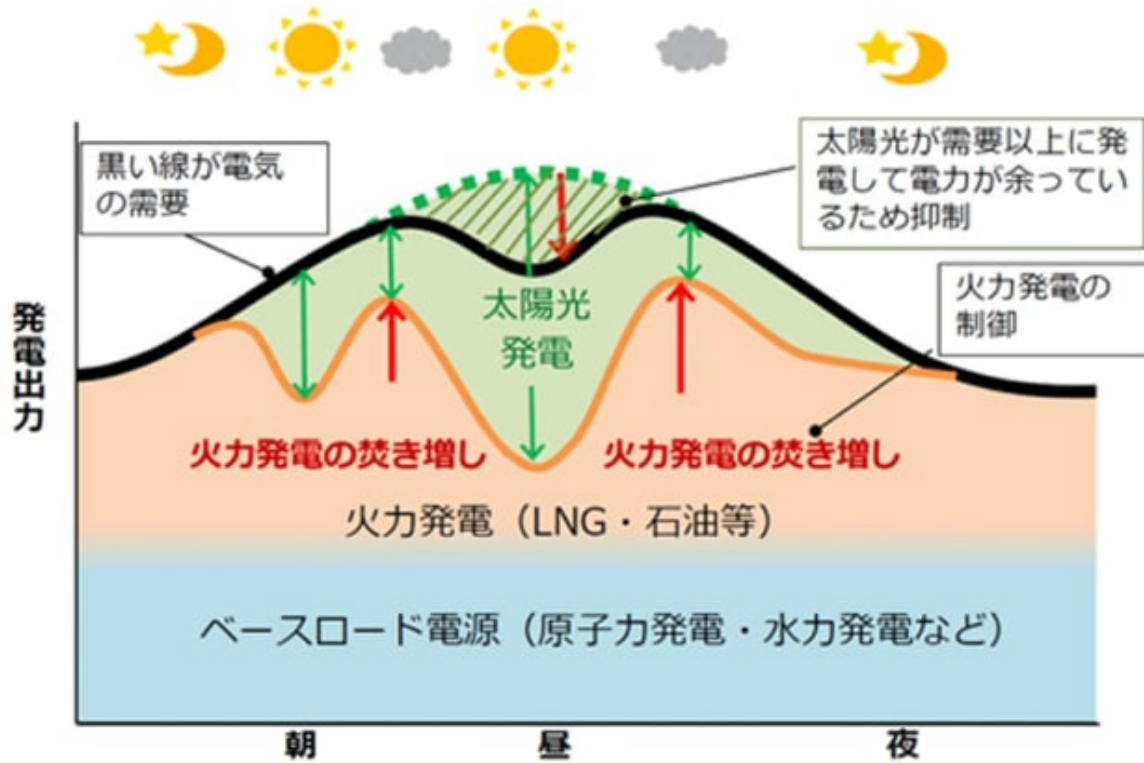
### 電力は需要と供給のバランスが大切



電力は需要と供給のバランスが大切

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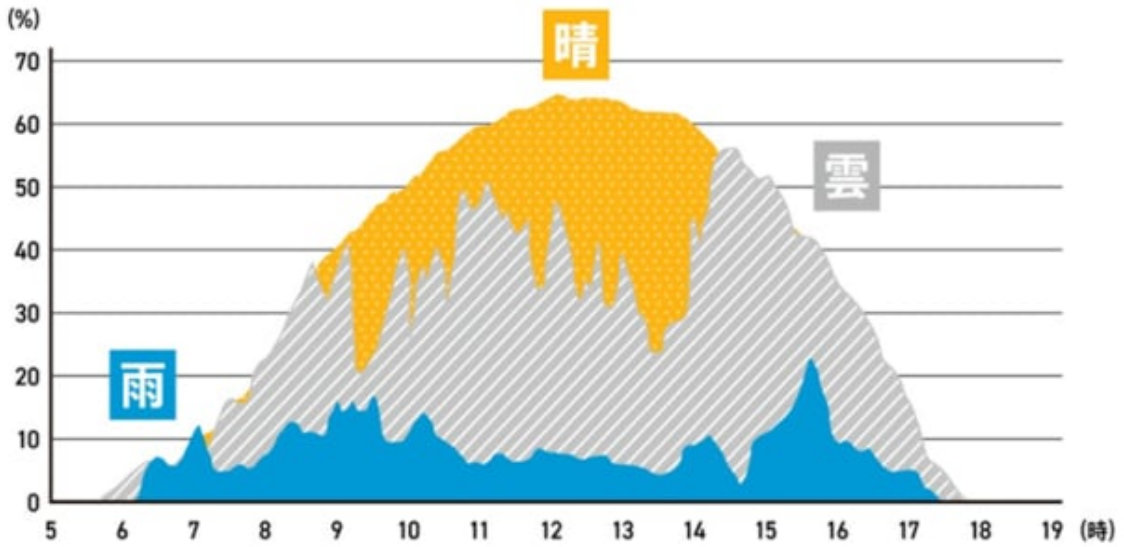
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出力比 (発電出力/定格出力)



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

## ????????????????????????????CO2?????????

?? ?? · Sunday, March 3rd, 2024



Butsaya/iStock

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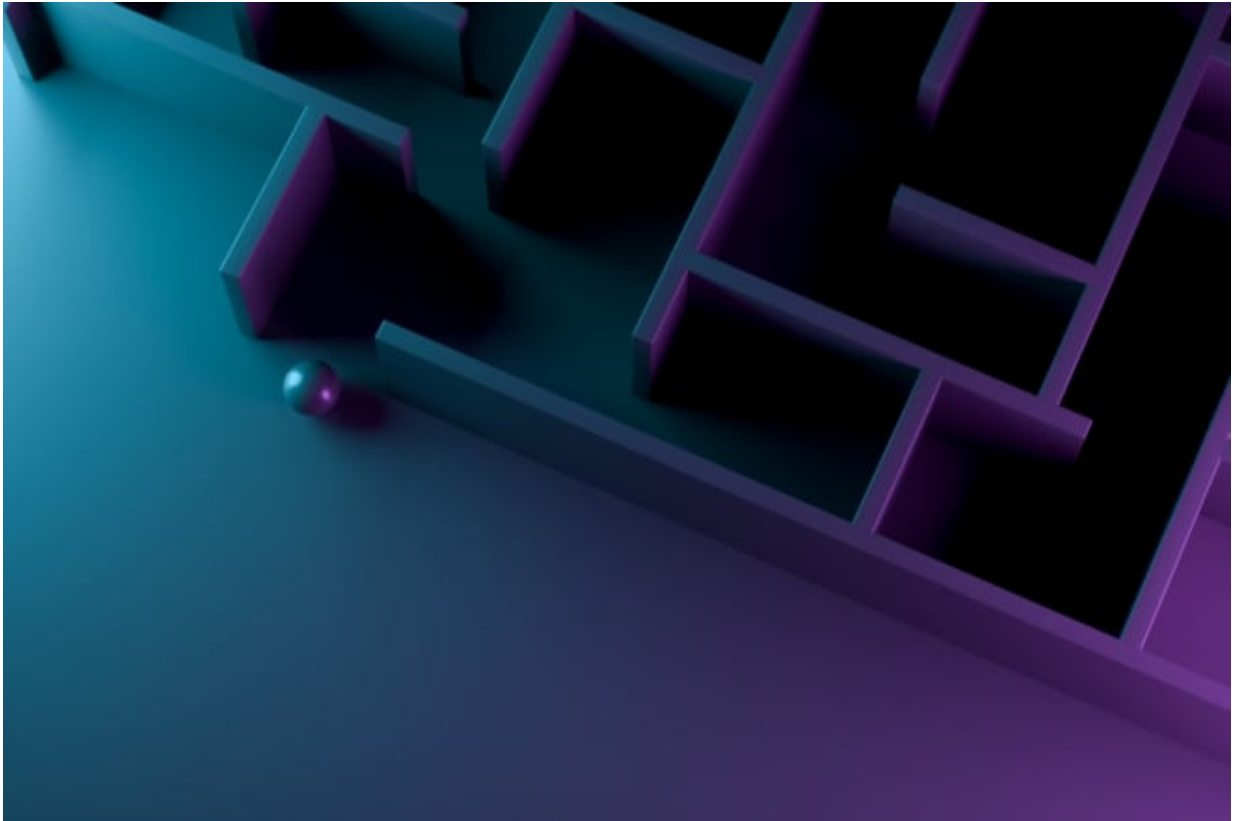
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**11. ?????????????**

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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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?? ?? · Thursday, February 29th, 2024



yipengge/iStock

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—— ?????????? (@kahoku\_shimpo) January 27, 2024

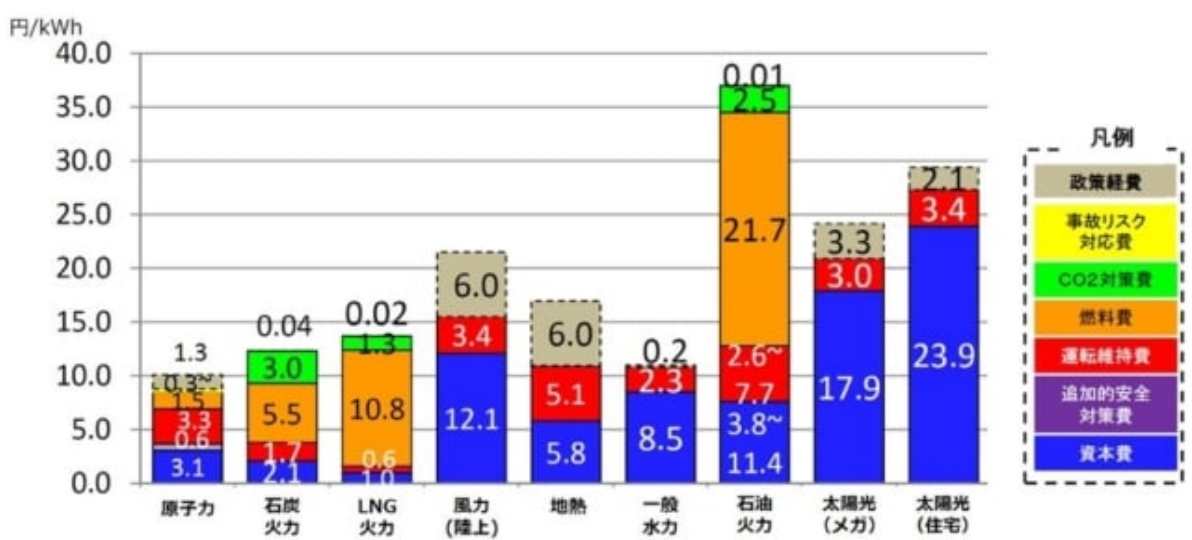
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3. ?A??B??4????????260kWh????????140????????611????
4. ?????????????140????????611????????

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

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

### ????????????????14????????5??

?? ?? · Wednesday, February 28th, 2024



Lari Bat/iStock

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



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

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?? ?? · Tuesday, February 27th, 2024



XtockImages/iStock

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I. ????

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

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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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Posted in ???, ????? | No Comments »

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?? ?? · Monday, February 12th, 2024



Alberto Masnovi/iStock

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6. ??CO2??IPCC??????????1????CO2??????0.5????????????????  
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Posted in ??????????, ??? | No Comments »

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?? ?? · Saturday, February 10th, 2024



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?? ?? · Friday, February 9th, 2024



Agenda47: President Trump on Making America Energy Independent Again

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

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?? ?? · Thursday, February 8th, 2024

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

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?? ?? · Wednesday, February 7th, 2024

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# Unleash Energy Dominance



Under President Donald J. Trump’s leadership, the United States became the number one producer of oil and natural gas on earth, achieving American energy independence and delivering historically low costs for oil, gas, diesel, and electricity to consumers and businesses. President Trump unlocked our country’s God-given abundance of oil, natural gas, and clean coal. He approved the Keystone XL and Dakota Access, pipelines, opening federal lands and offshore areas for responsible oil and gas production, and ending the unfair and costly Paris Climate Accord. Joe Biden reversed the Trump Energy Revolution and is now enriching foreign adversaries abroad. President Trump will unleash the production of domestic energy resources, reduce the soaring price of gasoline, diesel and natural gas, promote energy security for our friends around the world, eliminate the socialist Green New Deal and ensure the United States is never again at the mercy of a foreign supplier of energy.



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

CO2??

?? ?? · Tuesday, February 6th, 2024



baileystock/iStock

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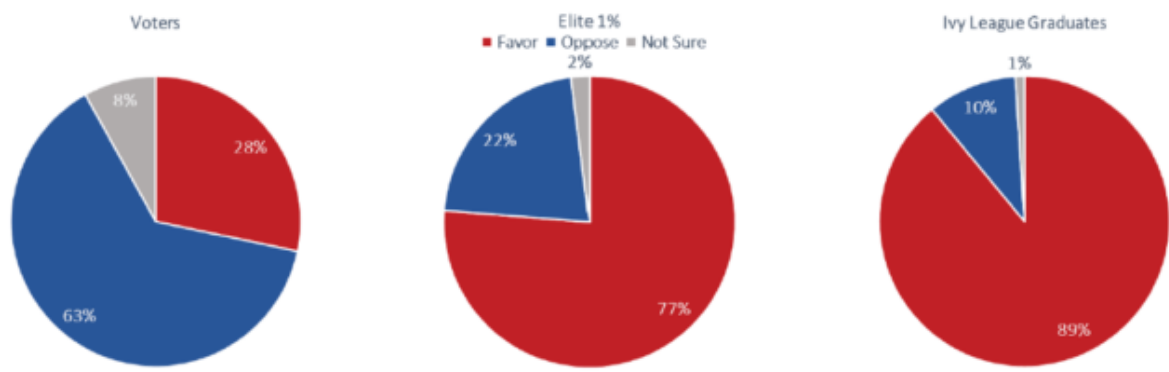
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1.????????????????????????????????????

?????63%????????????????77????????????????89%???

To fight climate change, would you favor or oppose the strict rationing of gas, meat, and electricity?



2????????????????????????????

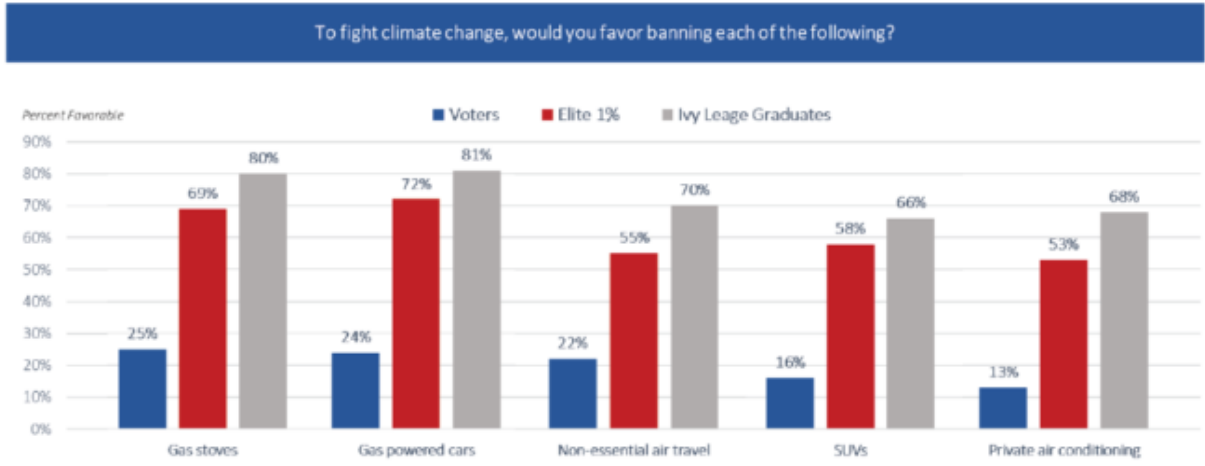
?????72??100????????????70??500?????

How much would you personally be willing to pay each year in terms of taxes and higher costs to reduce climate change?



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

????????????????????SUV????????????????????????????13??25????????????????53??  
72????????????????????????66??81????????????????



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Posted in ???, ????? | No Comments »

