

Global Energy Policy Research | GEPR

GEPR
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IPCC??62??

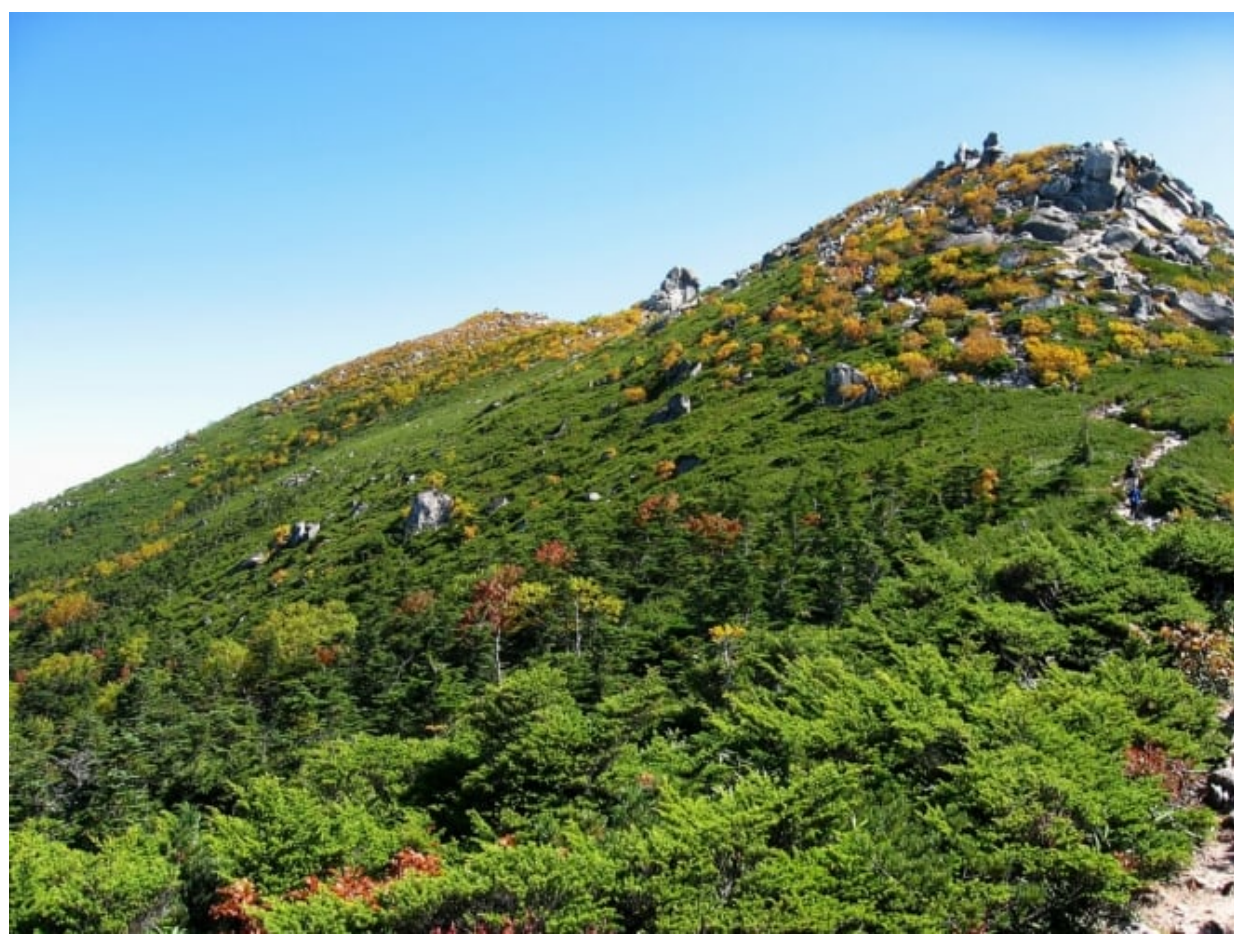
?? ?? - Monday, May 15th, 2023

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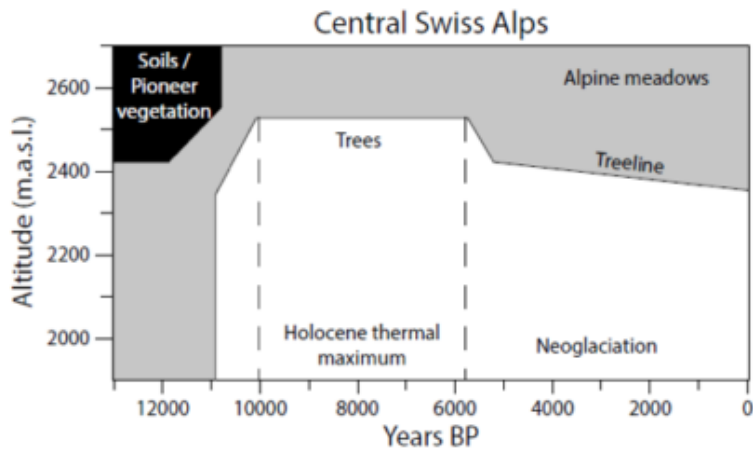


Figure 4: Fluctuations of the treeline in the Swiss Central Alps during the Holocene. The limits of the vegetational zones are placed between the sites according to the presence of the respective vegetation type as inferred by macrofossil analysis. Altitude in meters above sea-level. After Tinner & Theurillat 2003. Current treeline in the Swiss Central Alps is 150-200 m below Holocene Thermal Maximum treeline limit.

???Obliquity??

??1850?????????????????Little Ice Age??

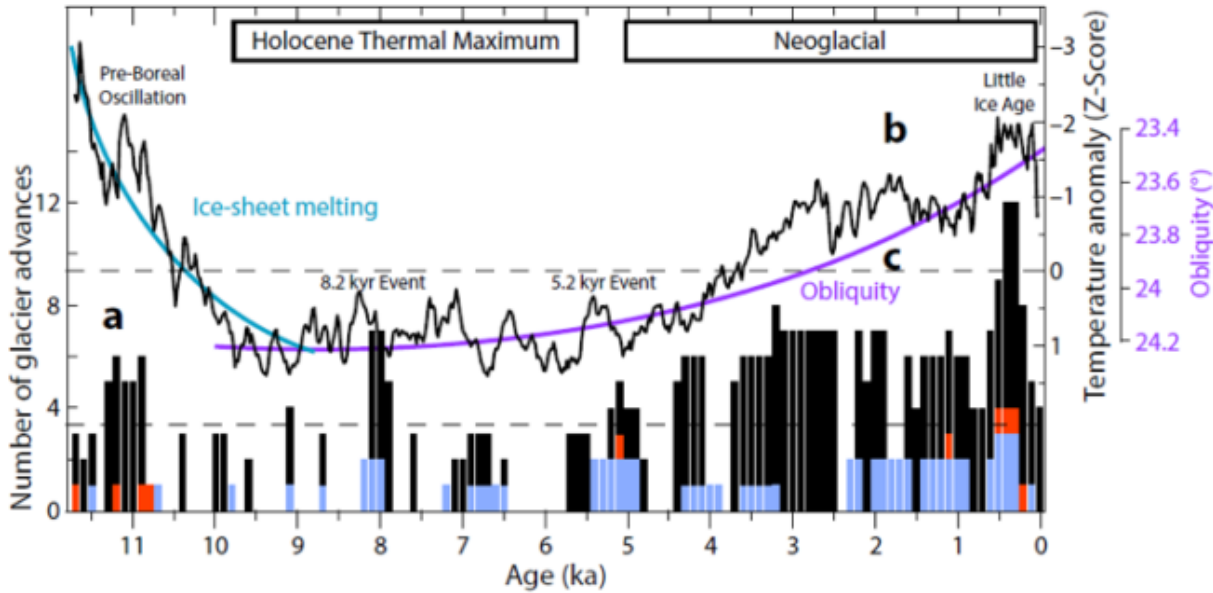


Figure 3: Glacial advances versus temperature (inverted) during the Holocene. a) Number of regions displaying glacier advances at each Holocene century. Black, NH 17 regions; orange, low latitudes single region; ice blue, SH 4 regions. Bottom dashed line, Holocene glacial position average. b) Inverted temperature reconstruction from the same 73 proxies used by Marcott et al. 2013. The reconstruction ends in 1910 and does not include modern warming. Temperature anomaly changes are expressed as Z-score (distance to the mean). Some well-known cooling periods or events are indicated by their accepted names. The period affected by the melting of the extra-Arctic ice sheets is indicated in aquamarine. c) Inverted changes in obliquity. Vinós, 2022, page 55.¹³

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IPCC?????61???????????????

?? ?? · Sunday, May 14th, 2023



borchee/iStock

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IPCC??????4?????????Snow Cover Extent, SCE??

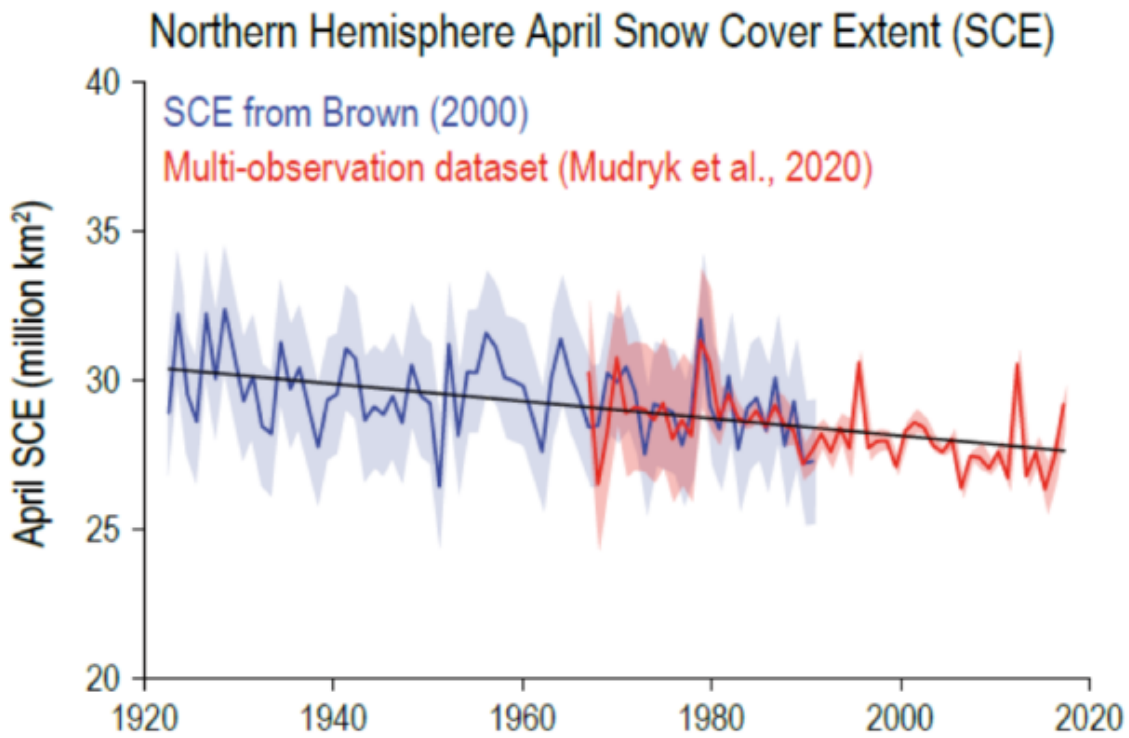


Figure 2: April snow cover extent (SCE) for the Northern Hemisphere. From: AR6, chapter 2.

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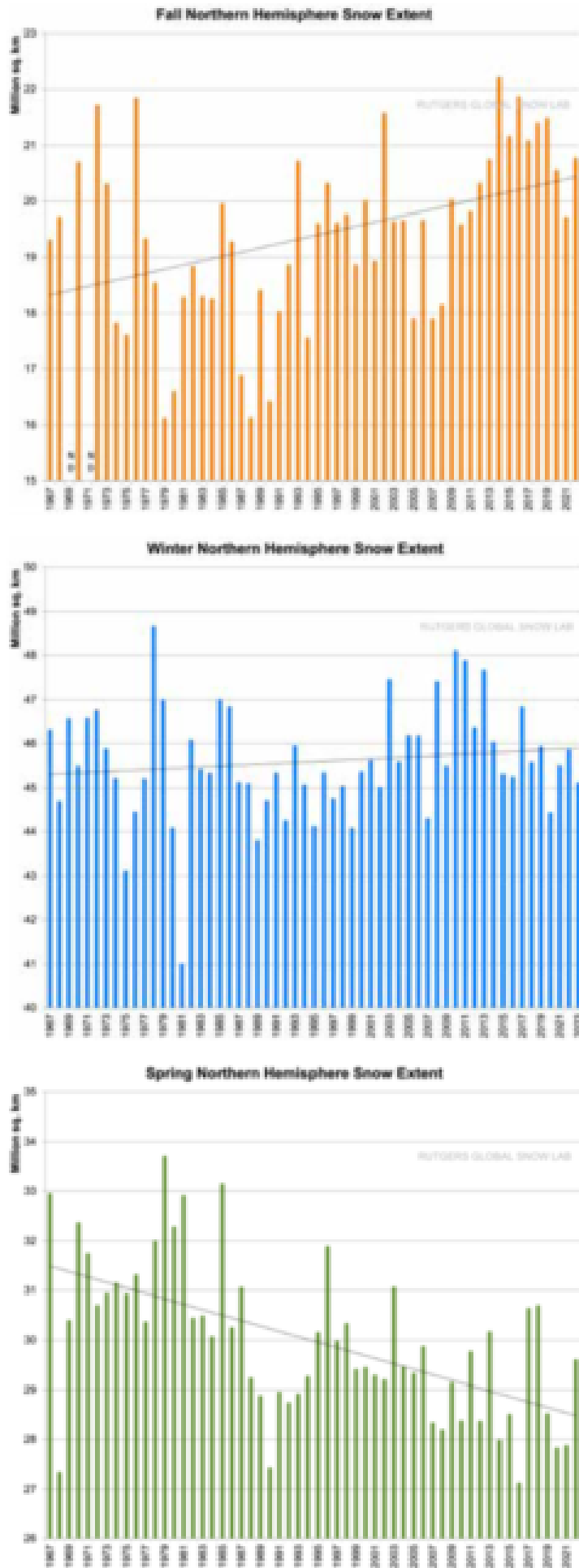


Figure 4: Snow cover extent (SCE) for the Northern Hemisphere for autumn, winter and spring. From: Rutgers Global Snow Lab (2023)

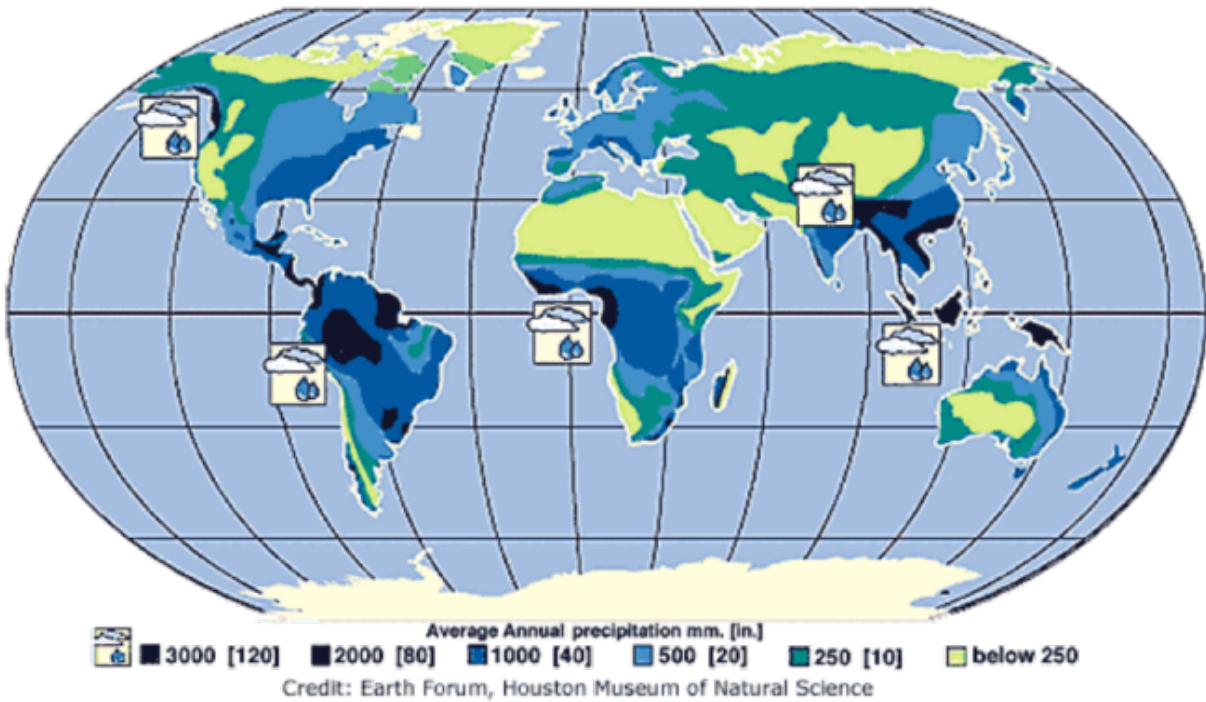
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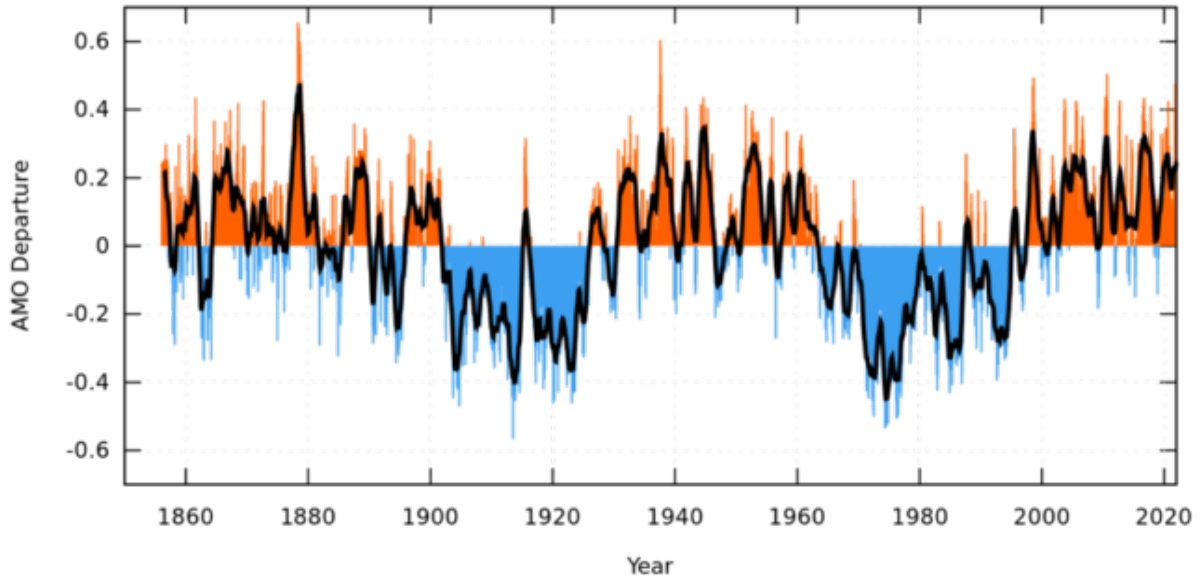
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Monthly values for the AMO index, 1856 - 2022



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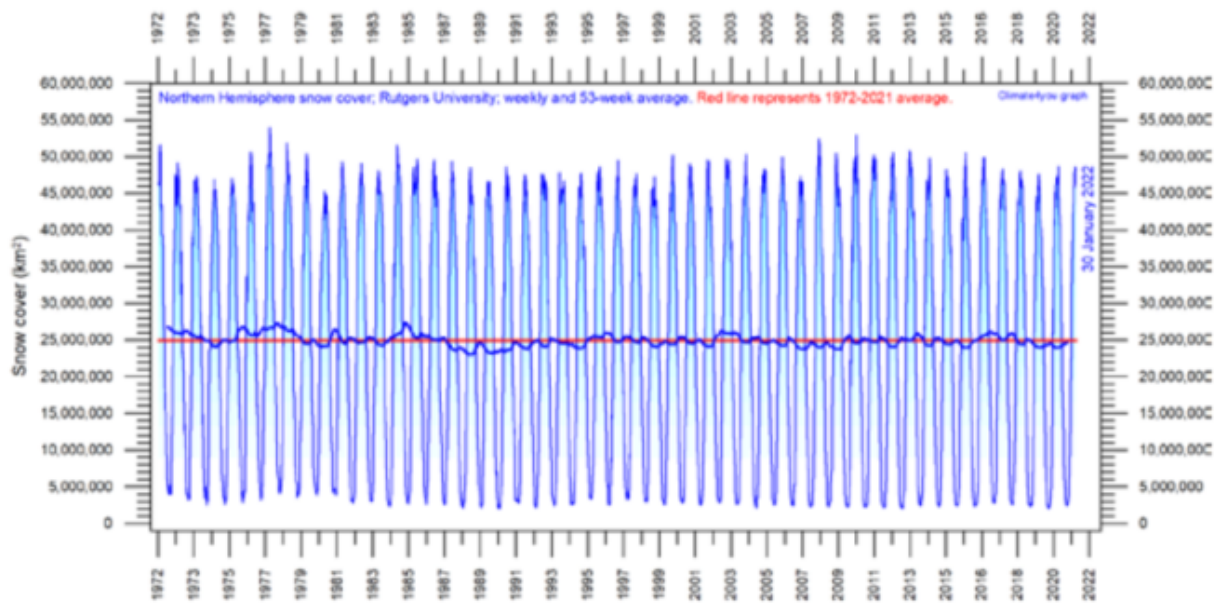


Figure 7: Northern hemisphere weekly snow cover since January 1972 according to the Rutgers University Global Snow Lab (<http://climate.rutgers.edu/snowcover>), the thin blue line is the weekly data, and the thick blue line is the running 53 week average (approximately 1 year). The horizontal red line is the 1972-2021 average. Last week shown: week 1 in 2022. Last figure update: 11 January 2022. Source: Ole Humlum, climate4you.com

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Kanur Ismail/iStock

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年	日本	米国
1997年	▲6% (橋本政権)	▲7% (クリントン政権)
2015年	▲26% (安倍政権)	▲26% (オバマ政権)
2021年	▲46% (菅政権)	▲50~52% (バイデン政権)

CO2

CO2 CSR

2021 2021 46% 2024 ESG

ESG ESG

CO2

ESG CO2 CO ESG

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SDGs

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

EU?EV????????????????????e-fuel????

?? ?? · Sunday, April 30th, 2023



a-image/iStock

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nndanko/iStock

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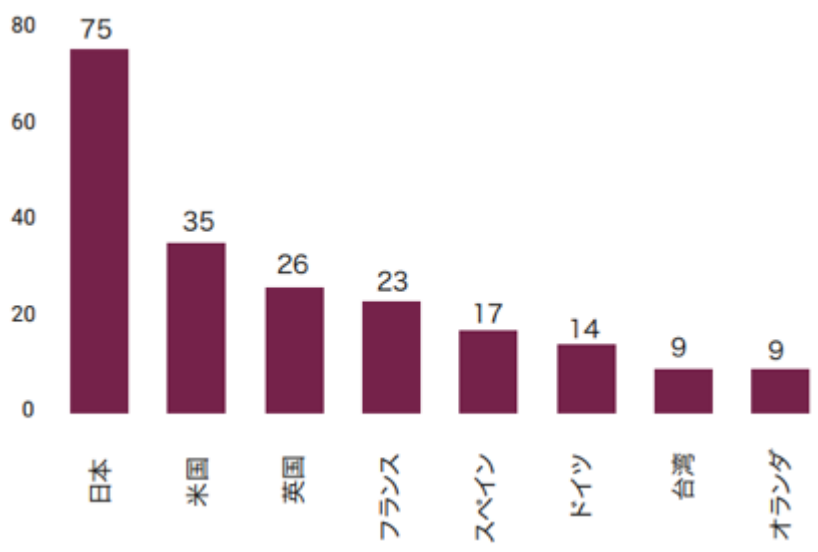
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気候変動 Aリスト 2022

Aリスト国・地域別企業数(上位8か国)



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CDP CO2 CO2 Tier1
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A社				
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deepblue4you/iStock

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Hydrogen

Friday, April 14th, 2023



Leestat/iStock

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2017-2021, 2021-2025, 2025-2030, 2030-2035, 2035-2040, 2040-2045, 2045-2050, 2050-2055, 2055-2060, 2060-2065, 2065-2070, 2070-2075, 2075-2080, 2080-2085, 2085-2090, 2090-2095, 2095-2100

2021-2025, 2025-2030, 2030-2035, 2035-2040, 2040-2045, 2045-2050, 2050-2055, 2055-2060, 2060-2065, 2065-2070, 2070-2075, 2075-2080, 2080-2085, 2085-2090, 2090-2095, 2095-2100

CO2 emissions, 2017-2021, 2021-2025, 2025-2030, 2030-2035, 2035-2040, 2040-2045, 2045-2050, 2050-2055, 2055-2060, 2060-2065, 2065-2070, 2070-2075, 2075-2080, 2080-2085, 2085-2090, 2090-2095, 2095-2100

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2017-2021, 2021-2025, 2025-2030, 2030-2035, 2035-2040, 2040-2045, 2045-2050, 2050-2055, 2055-2060, 2060-2065, 2065-2070, 2070-2075, 2075-2080, 2080-2085, 2085-2090, 2090-2095, 2095-2100

2017-2021, 2021-2025, 2025-2030, 2030-2035, 2035-2040, 2040-2045, 2045-2050, 2050-2055, 2055-2060, 2060-2065, 2065-2070, 2070-2075, 2075-2080, 2080-2085, 2085-2090, 2090-2095, 2095-2100

2017-2021, 2021-2025, 2025-2030, 2030-2035, 2035-2040, 2040-2045, 2045-2050, 2050-2055, 2055-2060, 2060-2065, 2065-2070, 2070-2075, 2075-2080, 2080-2085, 2085-2090, 2090-2095, 2095-2100

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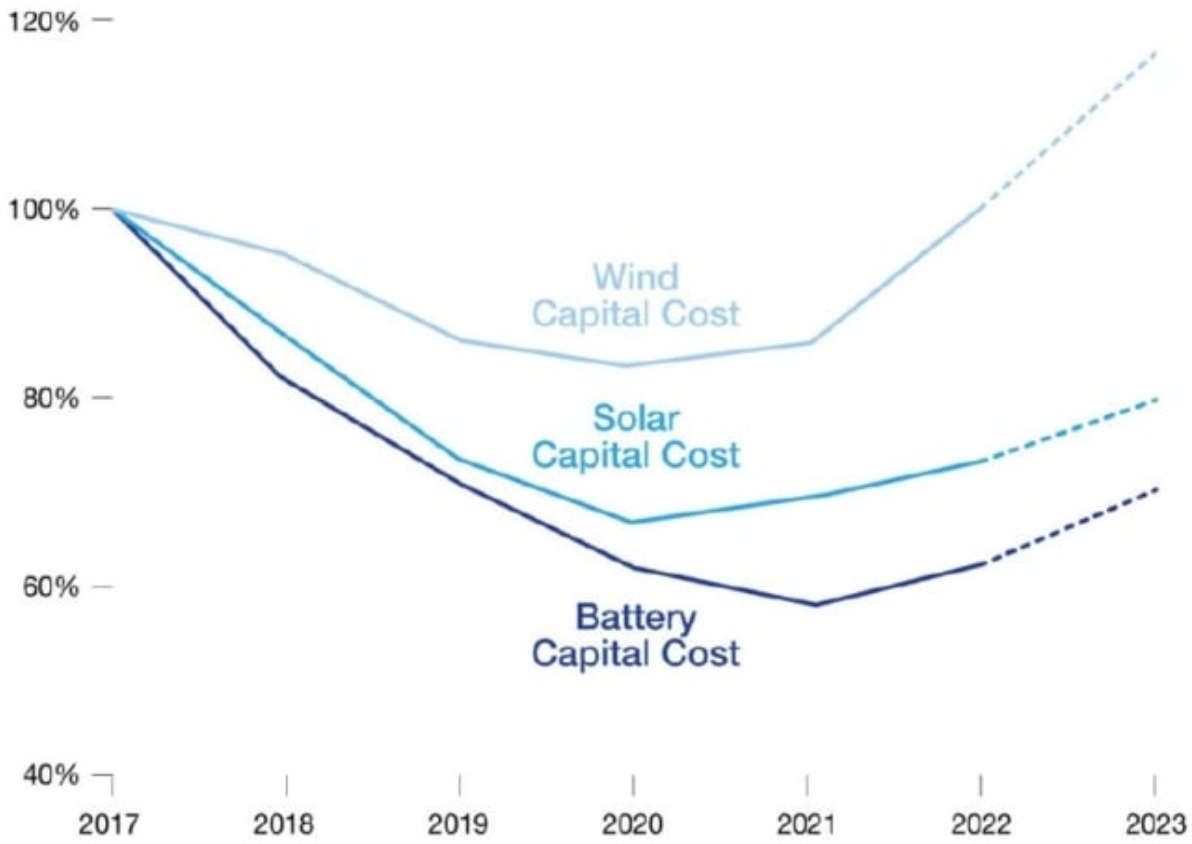
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Costs of Wind, Solar, and Battery Hardware

Change from 2017

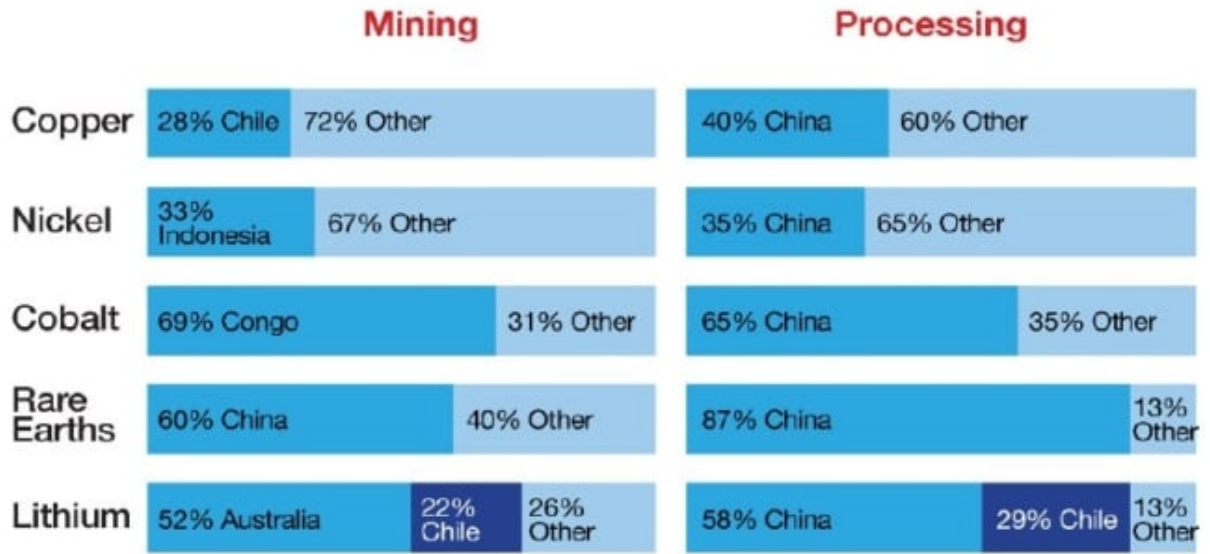


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Sources of Key Energy Transition Minerals



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HiddenCatch/iStock

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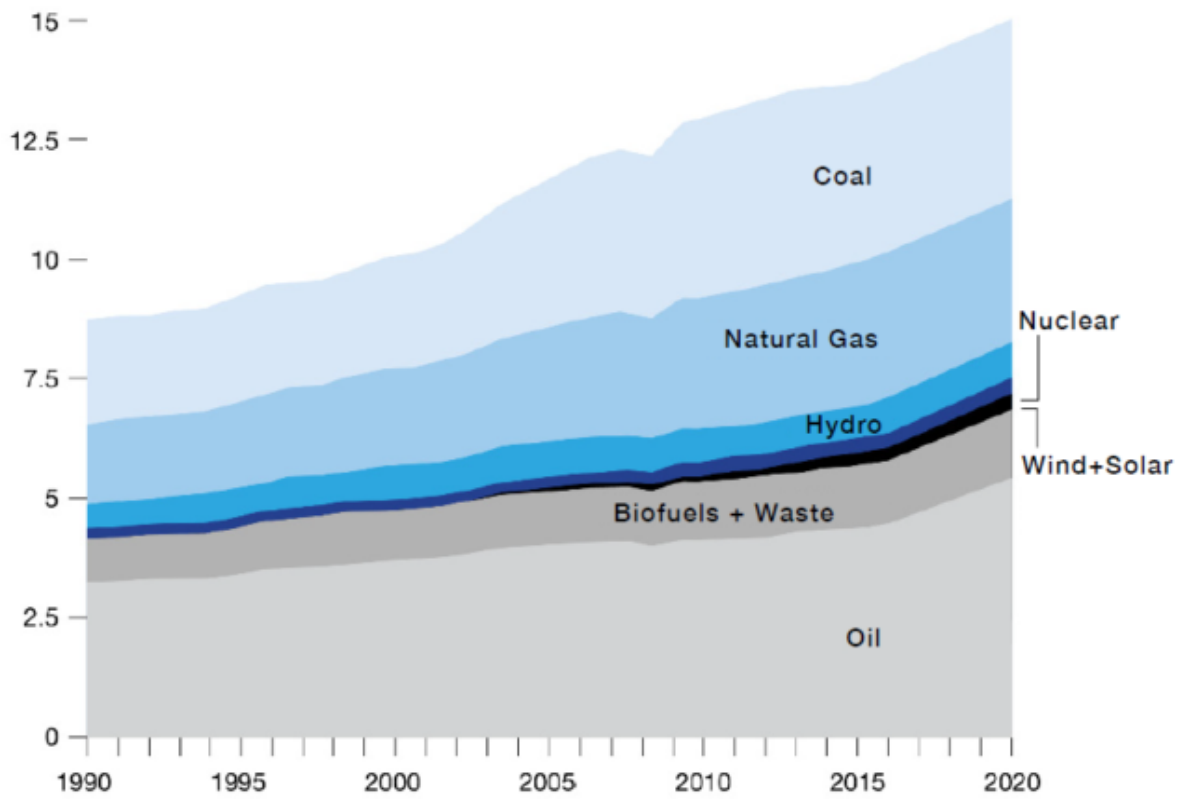
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Growth in Global Energy Supplies

Oil Equivalent (Billion Tons/Year)*



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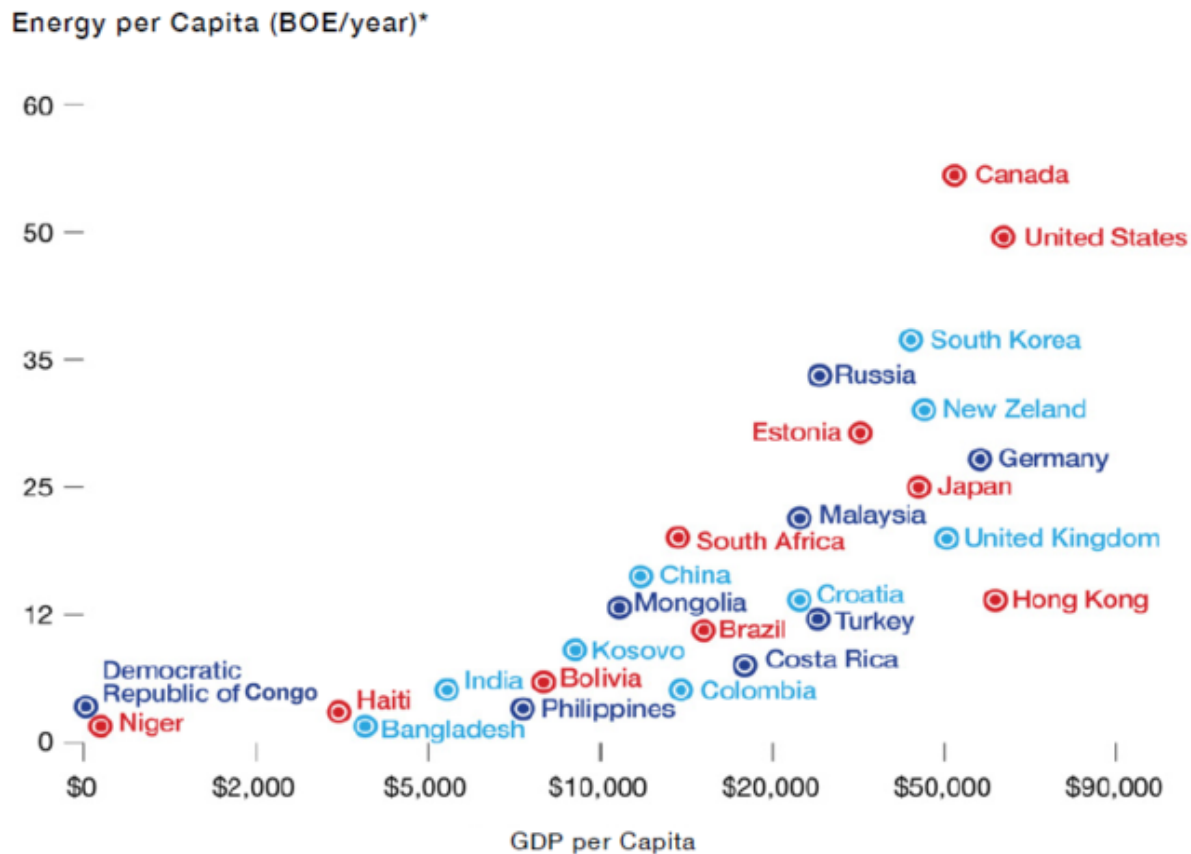


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Per Capita Wealth vs. per Capita Energy Use

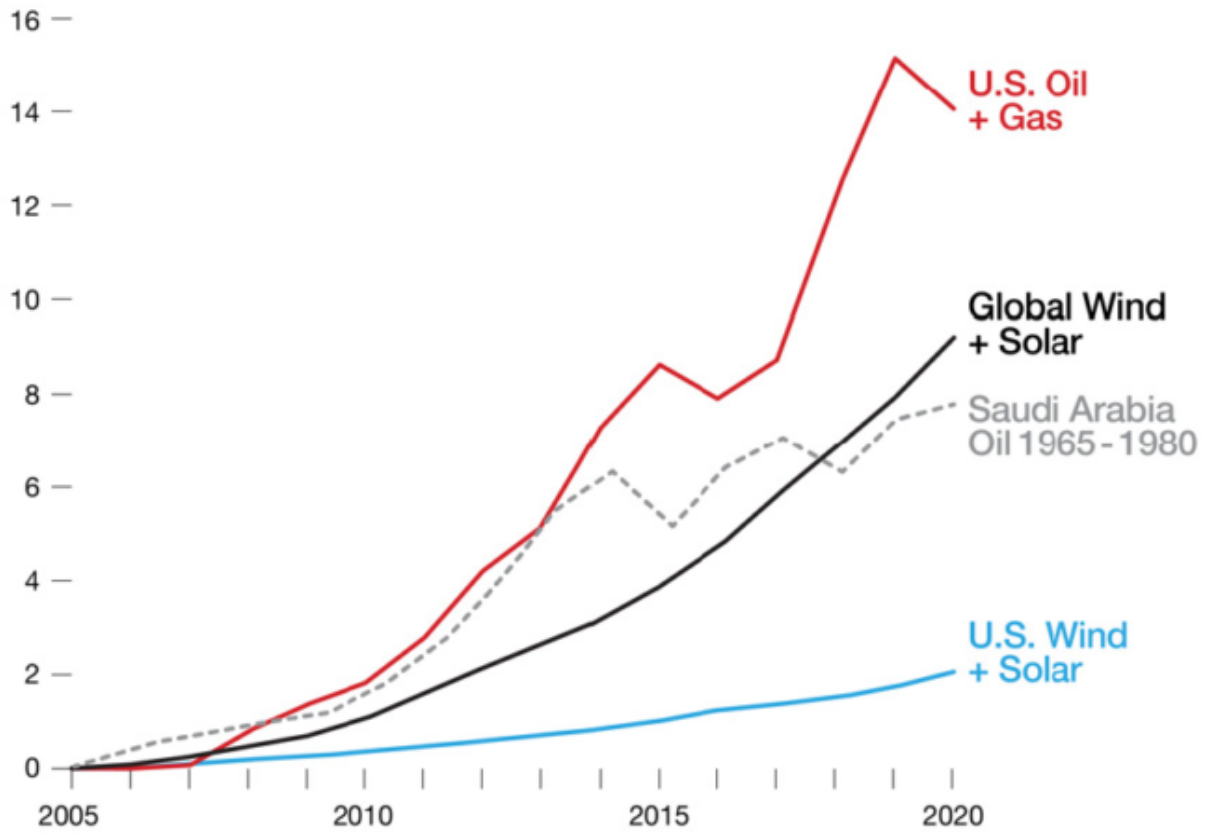


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Growth of Shale Energy vs. Wind+Solar 2005–20, Compared with Saudi Arabia Oil 1965–80

Increased Production (Million BOE/Day)

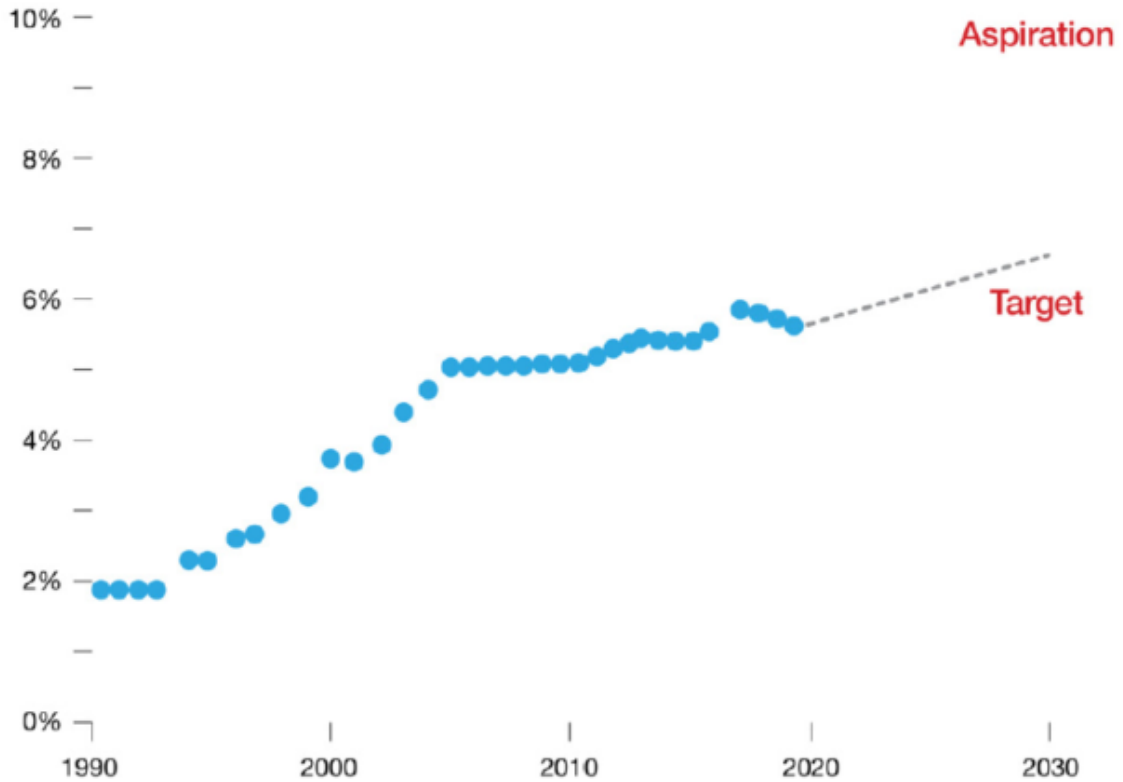


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Battery Energy Density* (% of Gasoline Density)



*Note: Density comparison incorporates the doubly superior efficiency of a battery+motor vs. gasoline+engine.

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Manakin/iStock

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??How Do You Escape Net Zero??The
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Viktor Sidorov/iStock

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Posted in ???, ????? | No Comments »

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 ?? ? · Sunday, April 2nd, 2023



Jorm Sangsorn/iStock

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????????500 km??

20km?4?

100?150?

2?4?5?CO2

CO2?CO2?

7?CO2

1?CO2?1?6?11?1km?28?99?3.5?2?1?100?kW?

6?

1853?3?70?1923?1995?2011?2016?100?150?

1850?

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

??EV????????????????????????????????

?? ?? · Saturday, April 1st, 2023



????? ????/iStock

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EV????????????

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1600????7800????????????????EV????????????????1640??2021????????1????????

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EV????????????????1??500kg????????????2000kg????????1??EV????????7000????????3000?
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2020????EV????????145.5GWh????????2021.11????EV??80kWh????????500kg????????6kg?kWh??
?145.5kWh????????90????????????1??EV????????????9500????2020????????100????????
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TESLA MOTORS CLUB?????

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EV????????????67??2019????????????95????????????EV????????????EV??CO2??
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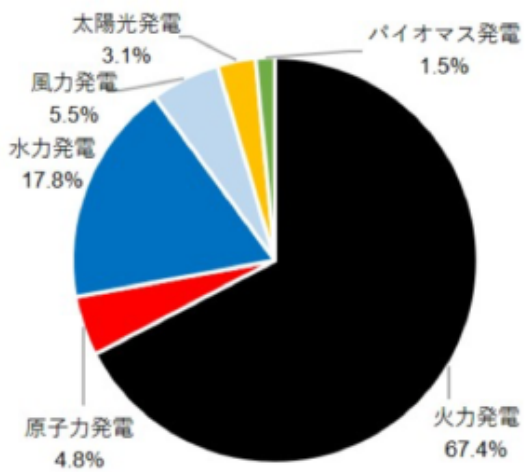


図4 2019年の中国の発電電力量の構成

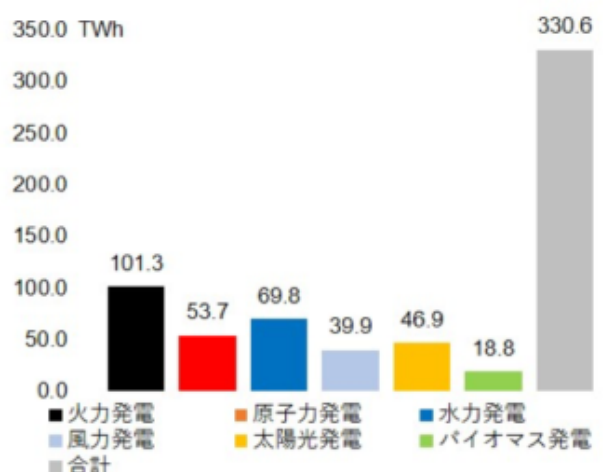


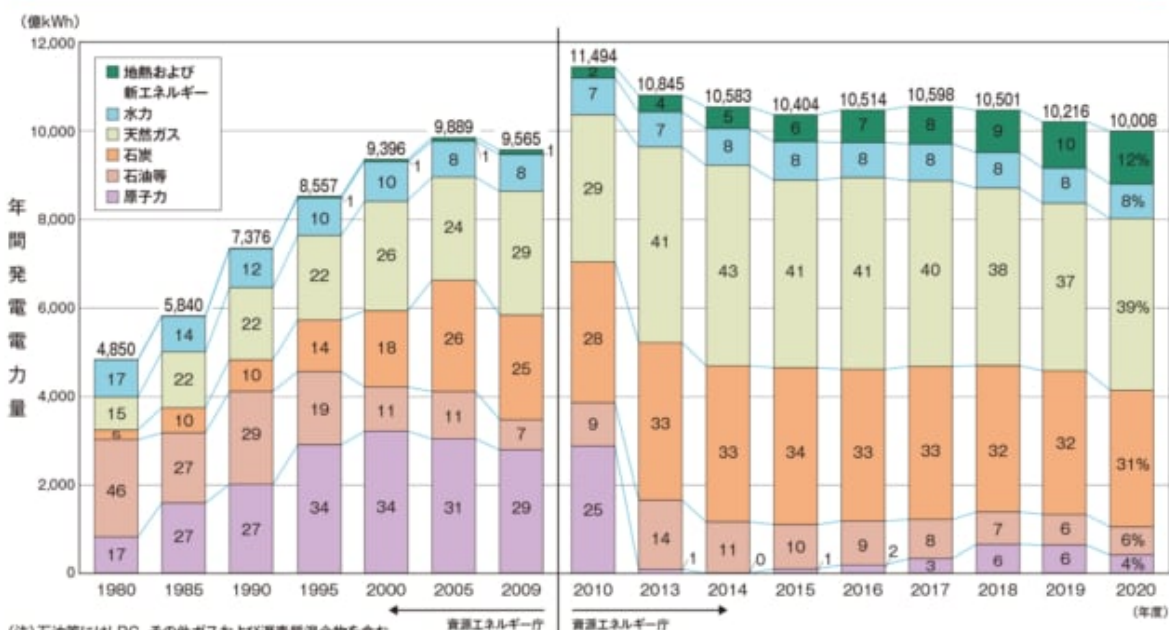
図5 2019年に増加した発電量の内訳

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????????EU????????2035????????????EV????????????????????????
????????????????????CO2????????????????

????????????????76????????EV????CO2????????

電源別発電電力量の推移



(注) 石油等にはLPG、その他ガスおよび混雑質混合物を含む
四捨五入の関係で合計値が合わない場合がある
グラフ内の数値は構成比(%)

← 資源エネルギー庁「電源開発の概要」、「電力供給計画の概要」を基に作成
→ 資源エネルギー庁「総合エネルギー統計」を基に作成

1-2-7 出典：資源エネルギー庁「エネルギー白書2022」より作成

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EV??CO2??

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??CO2????????????CCS????CO2??
??2030????????????2050????
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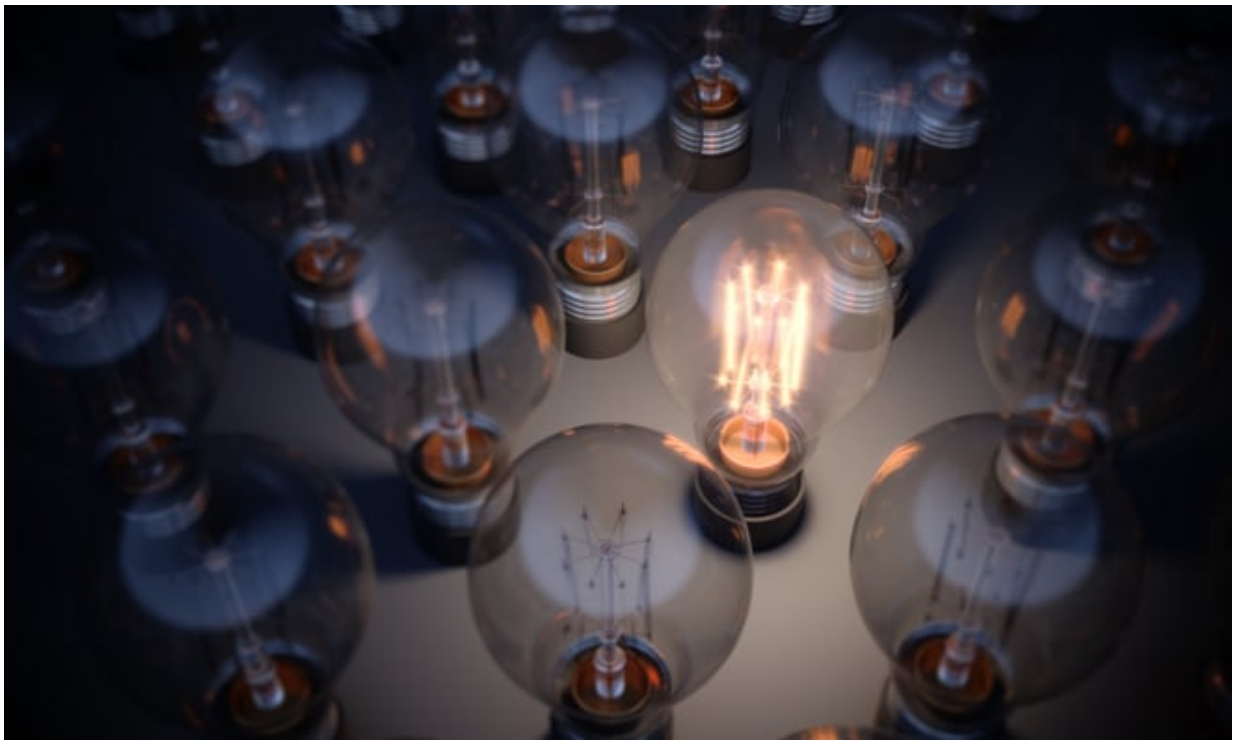
?????EV?????CO2?????CO2?????
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?????GX?????EV?????EV?????
?????GX?????EV?????

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

?????iBR?????

?? ?? · Thursday, March 30th, 2023



Eoneren/iStock

????GX?????

?????ABWR?????)?APWR(?????)?????
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?????SRZ?1200?????

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iBR????????????

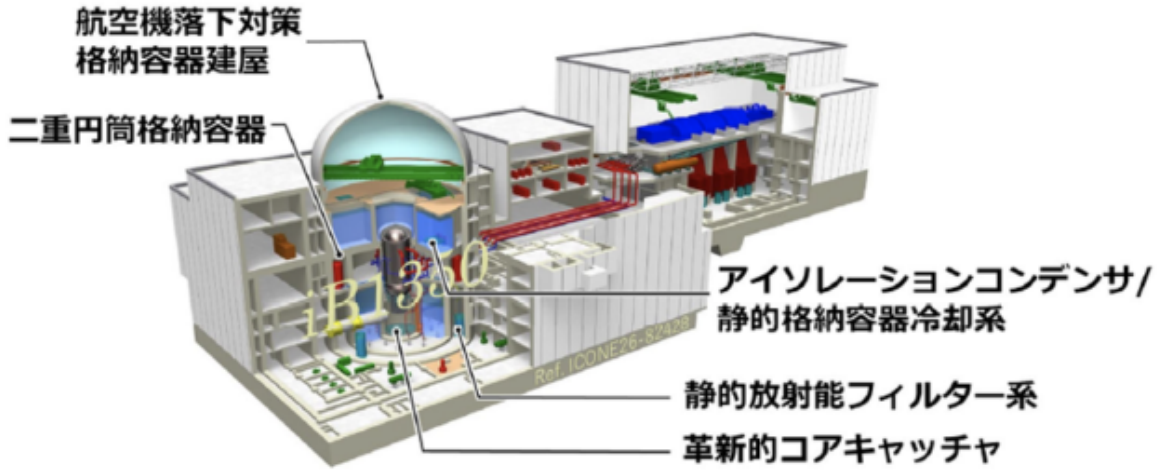
iBR???innovative-intelligent-inexpensive

BWR

??135????????iB1350????

iB1350の全体概要図

建設実績のあるABWRをベースとして、様々な革新的安全系を採用。高い安全性を達成しつつ、建設性や経済性にも配慮。



iB1350

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??3.11????????????????ABWR????2????????????——100??1????????????

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

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?? ?? · Wednesday, March 29th, 2023



AlxeyPnferov/iStock

3????EU????????????

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

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?? ?? · Wednesday, March 29th, 2023

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Atstock Productions/iStock

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Black??2023?3??
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Black????????????????????2021??Doconomy??Mastercard Carbon
Calculator??
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Posted in ???, ????? | No Comments »

EU???????

?? ? · Tuesday, March 28th, 2023



PeskyMonkey/iStock

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EU?2022?5???REPowerEU??
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2022?6?????????EU??????????????????????40?????????????????????10?????7.5????????????????
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double_p/iStock

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1997?3?24??

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- ??????400t??????????30%??????
- ?????13?700?m³??????????34%????
- ?????2?1900t??????????40%??????

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出所：中国中央電視台 (CCTV) 2015年3月8日

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??11????????????????????Beixin Road & Bridge Group??

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Gasprinski

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Posted in ???, ?? | No Comments »

????????????ESG????????????????

?? ?? · Saturday, March 25th, 2023

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Wexler???Wex Gunworks????????????????

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SG????????????????????

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

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?? ?? · Thursday, March 23rd, 2023



CO2????????????????????

Harry Wedzinga/iStock

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????2023?3?15?????????????BBB?BoerBurgerBeweging?????????????1?????????????????
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????2022?7?4??Fox News, 2023??

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BBB??DNYUZ,
2023)??

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

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GEPR??? · Sunday, March 19th, 2023

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Achisatha Khamsuwan/iStock

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XPCC??1954??1981????????????
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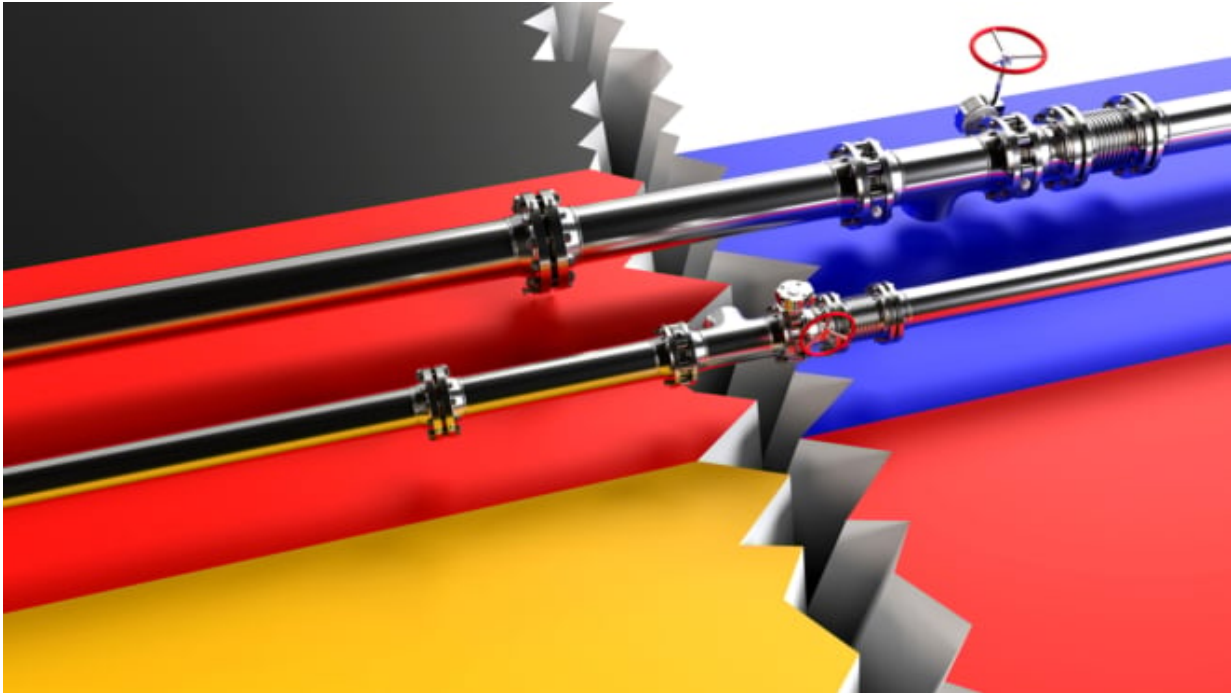
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??2022?8?17????????

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Leestat/iStock

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MV

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2019 12 16 km
 2019 12 16 km

MV MV 21 18
 MV MV 21 18

20 100 2000
 20 100 2000

1.65 215
 1.65 215

21 5 9
 21 5 9

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2 6
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2 2 1
 2 2 1

22 9
 22 9

4 NATO 2
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 980 50 4

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Posted in ???, ?? | No Comments »

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?? ?? · Wednesday, March 15th, 2023

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??WSJ????????Breitbart????????????Fox News?3???

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Bet_Noire/iStock

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Bjorn Lomborg Climate Report: Hurricanes ‘Unprecedentedly Weak’ in 2022

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Thomas D. Williams, Ph.D.
Breitbart News Network – 30 Jan 2023

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????WSJ??????

Partisan ‘Fact Checkers’ Spread Climate-Change Misinformation

I posted sound statistics on polar-bear populations, and Agence France-Presse called them ‘misleading.’

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S.O.S for the U.S. Electric Grid

PJM Interconnection sounds the latest alarm that fossil-fuel plants are shutting down without adequate replacement power. The political class yawns.

????S.O.S.?PJM??
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By The Editorial Board Follow
Feb. 26, 2023 4:47 pm ET

The Ukraine War Lesson Europe Refuses to Learn

The Continent is taking national security seriously but closes its eyes to the risks of ‘green’ energy.

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Joseph C. Sternberg hedcutBy Joseph C. SternbergFollow
Feb. 23, 2023 1:06 pm ET

CHINA Published February 20, 2023 2:00am EST

CCP-backed tech companies are poised to cash in on Biden’s climate bill, national security experts warn

Ford has ‘serious questions to answer,’ Sen. Joe Manchin’s office tells Fox News Digital

Thomas CatenacciBy Thomas Catenacci | Fox News

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?????????????????Fox News Digital?????

DIGITAL ORIGINALS Published February 21, 2023 2:00am EST

Does China’s purported green energy push signal a coming conflict with the US?

Climate talks between the US and China are meant to appease westerners, not actually enact change, policy analyst says

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By The Editorial Board
2023?3?3? 13:31 JST

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Capitalism?????????ESG?????????????????????ESG????????????????????????????????????
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???ESG?????2024????????????????????????????????????

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?? ?? · Tuesday, March 14th, 2023



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Taiki Kawasaki/iStock

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