

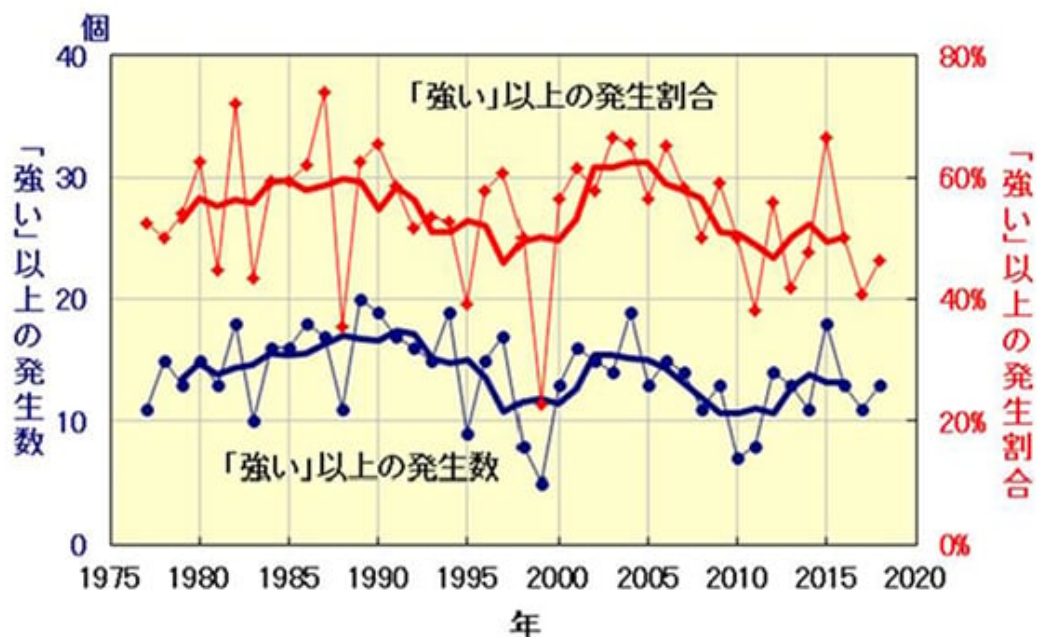


図 2.4-3 「強い」以上の勢力となった台風の発生数と全発生数に対する割合の経年変化

細い実線は、「強い」以上の勢力となった台風の発生数（青）と全台風に対する割合（赤）の経年変化。太い実線は、それぞれの5年移動平均。

????????????????2018??

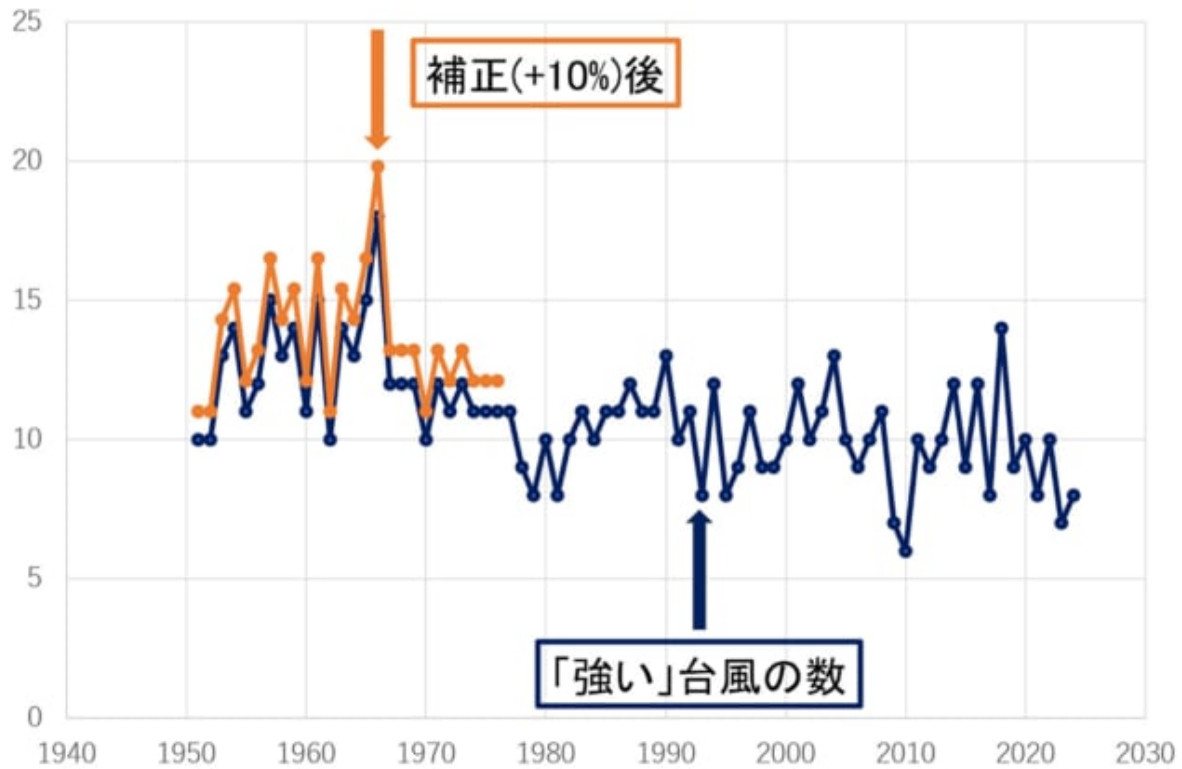
????????1977??

??1977????????

????????1976????????????????????????????????1976????????????????????HP????????????????

????????1976??5???12????????10????????
 ?????????????????

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???????HP????????33????????

???????1976????????10????????

?????1950???1960????????1970????????

??

??1950????????1954????????1958

????????1959????????????????????????????

????????10????????????ChatGPT????????

???????1951–76????33 m/s?????
+5?12%???+10%???????+15%???????1974–87?????
Atkinson–Holliday?1977????????????????????????????????
??Knaff ???1974–1987???????????????????????????? “systematic
underestimation of the MWS... during 1974–1987”?????(AMS Meetings)

????????????????????Ying ???JMA ?1977????????JTWC
?2000???????????????????????????? “The JMA data contain only the
central pressures prior to 1977, while the JTWC data have only the sustained
maximum wind before 2000.”??(J-STAGE) ???Song ???JTWC
????2–3?4–5????????????????????(ResearchGate)

????????????????????IBTrACS
???????????????????? “though not all

storms are captured in earlier years”??

??Knapp

??(American Meteorological Society Journals) ???Bai

??1957–87????????????????WPR????????????????????????????????(NOA A Institutional Repository)

????????1974–87WPR????????1977????????????????????????????????“??”????????
??%????????????20%????????????????????????????????

?



????????????????????

Posted in ???, ????? | No Comments »

??23??SBTi????????????????

?? ?? · Tuesday, August 19th, 2025



Zhanna Hapanovich/iStock

????????CDP?SBTi????????????????????

?????CDP?SBTi????????????



????????????????CDP????????????????????????????????????SBTi?????
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????????????ESG??
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??22????????

????????????????????CDP?2,000??SBTi?1,500????????????????????

SBTi??????1,500????????????????????????????????????SBTi?????SBT????????????
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Iowa AG leads letter questioning legality of net-zero carbon emissions standard

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???????SBTi??

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SBTi??

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?SDGs????????

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

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?? ?? · Monday, August 18th, 2025



FGorgun/iStock

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

????????????????Climate Working Group, CWG????2025?7?23????

????????????????**A Critical Review of Impacts of Greenhouse Gas Emissions on the U.S. Climate**????

????????12? ?????????????????

??????CWG????????

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????????CWG????????CO2??
 ???

1. ?????????

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1.1 ?????

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

CO₂ 40 ±15 20 1,000 75
 ±10 Ciais et al., 2013, pp.
 472-473 CO₂
 CO₂

50 50 CO₂ 1997?
 2012 1990 5 CO₂
 CO₂ 2100 2105 Wigley,
 1998 Lomborg 2016 0.1 2100 10
 ?

CO₂
 ?

1.2

EPA 2009 CO₂
 202(a) EPA
 09 EPA

(1) CO₂ (2)

2 EPA
 CO₂ CO₂
 ?

2022 10.5 EPA
 2024 346 Energy Institute
 2024 3.0
 CO₂ 100 12
 3 1979 2023
 ±15 CO₂
 CO₂
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GHG
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1.3

CO₂

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Posted in ???, ????? | No Comments »

??11????????????????

?? ?? · Sunday, August 17th, 2025



Khanchit Khirisutchalual/iStock

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

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- ?ESG?????????????????
- ????????????????

[illegible]

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

[illegible]

????????????????????????????????????10??????11????????????????????????????ESG?????
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????????????????????3????????????????????

[illegible]

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2024?11????????3????????2030????????
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????????????????????2025?5
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???????? 2025?8?1? | ?????

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Texas Judge Greenlights Multi-State Lawsuit Accusing BlackRock, Vanguard, State Street of Using Climate Initiatives to Manipulate Energy Markets

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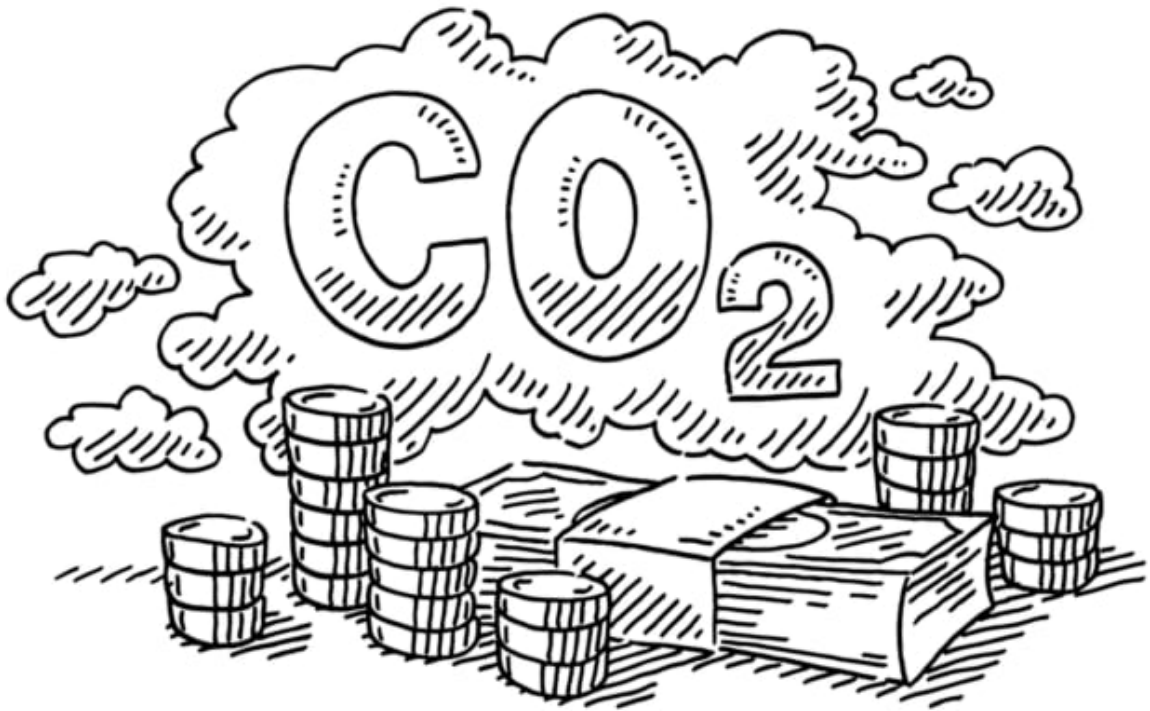


?SDGs???????

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

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

?? ?? · Saturday, August 16th, 2025



FrankRamspott/iStock

????????????????????????????????????

????????????????????????????Climate Working Group, CWG????2025?7?23????

????????????????????????????????A Critical Review of Impacts of Greenhouse Gas Emissions on the U.S. Climate????

????11? ?????????????????????????

???????CWG????????????

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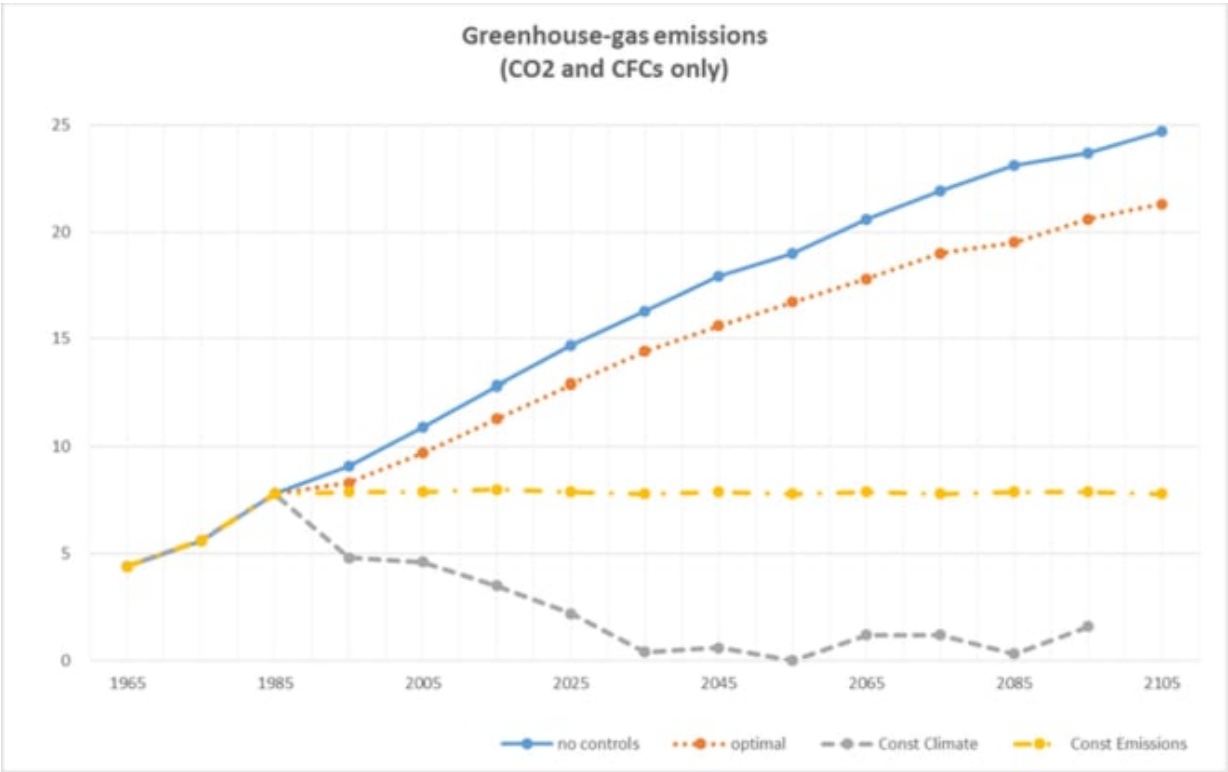
????????????????????????

????????????????????????????????IPCC???AR5????????????????????
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????????????????????????????2012????????????????????????????
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CWG??

????????????????DICE????????????????CO2????????????????

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????????DICE????????????CO2????????CO2????????????CO2????????
???CO2????????

????????optimal????CO2????no control????CO2????const
climate????????

????????????????CWG????????????????

????????Social Costs of Carbon,
SCC????????

????????SCC????????????????SCC????
????????SCC????????SCC????
????????SCC????SCC????SCC????

SCC????????CWG????????CO2????
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????SCC????CO2???190????CO2????
????SCC????SCC????

????SCC????ChatGPT????



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Posted in ???, ????? | No Comments »

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?? ?? · Friday, August 15th, 2025



Ekaterina_Simonova/iStock

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

????????????????Climate Working Group, CWG????2025?7?23????

A Critical Review of Impacts of Greenhouse Gas Emissions on the U.S. Climate

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

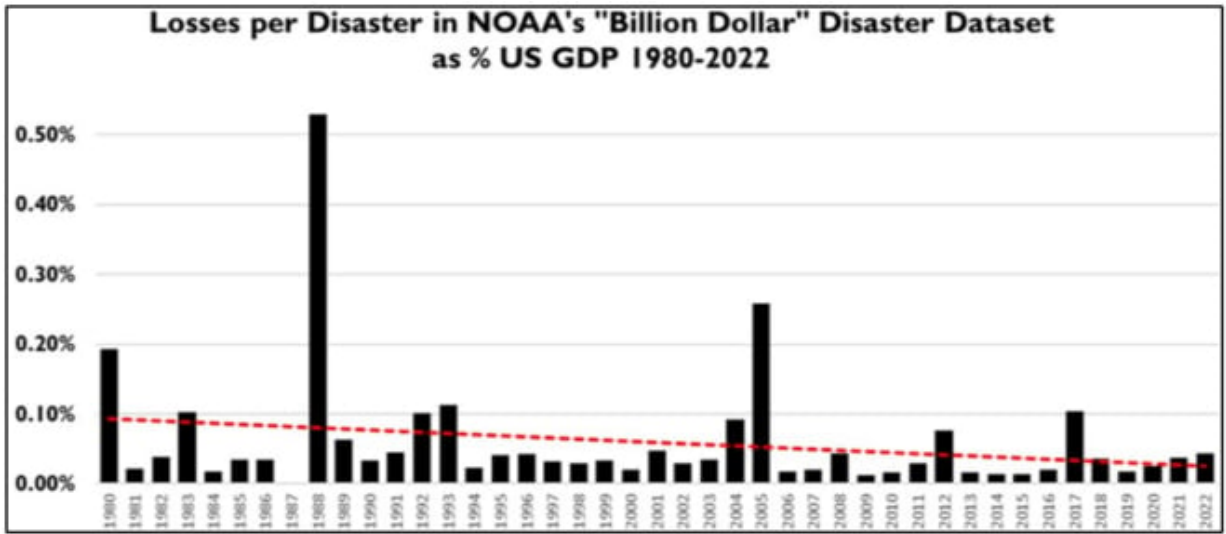
?????CWG????????

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

?????NOAA?????10????????????????????“10????????”????????????????????
??GDP????????????????10.1????????20
25?5?NOAA?10????????????????????2025?

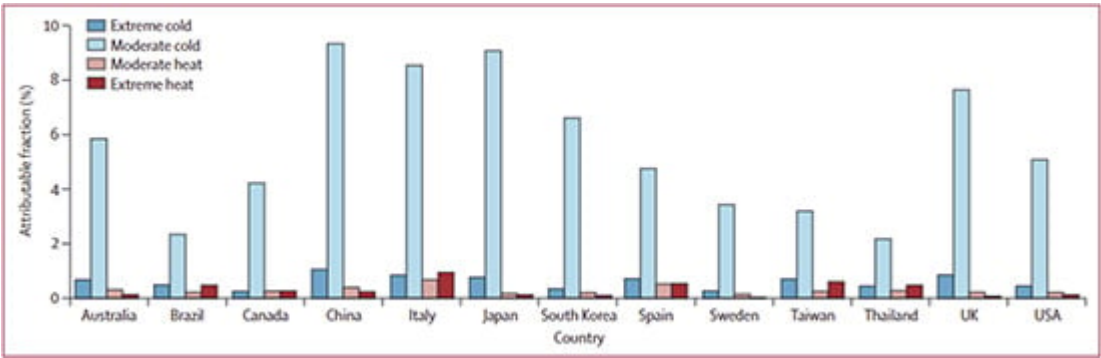


?10.1?NOAA?10????????????2023?7????????????????GDP????????1980
???2022?
????Pielke, Jr. 2024?

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

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10.2 Gasparini et al. 2015 5.9 5.5 14



10.2 Gasparini et al. 2015

IPCC

IPCC AR6 A.2.5

CWG

2016 Barreca et al. 2016 1960 32 2.2 1960 0.3 85 1960 4 1 1960 Cong 2022

Doremus 2022 5 1.2 0.5 30 0.5 Cong 2022

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????????????????CO2????
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Posted in ???, ????? | No Comments »

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

?? ?? · Thursday, August 14th, 2025



fotokostic/iStock

CO2

Climate Working Group, CWG 2025-23

A Critical Review of Impacts of Greenhouse Gas Emissions on the U.S. Climate

9

CWG

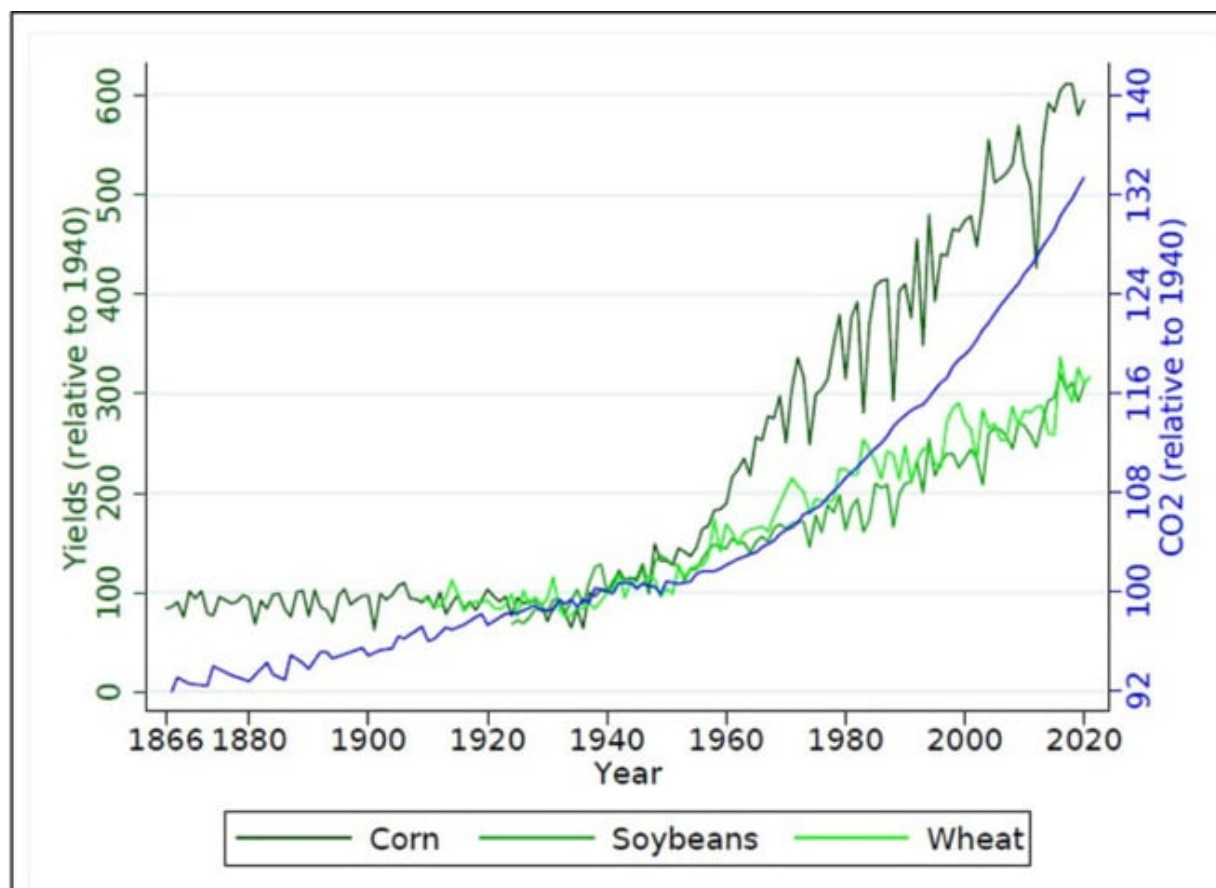
?

CO2 2

CO2 CO2

CO2 9.1 1940 100

CWG CO2



?9.1????????????????????????????????????1940??100??????

??Taylor and Schlenker?2021?

2021????????Taylor and Schlenker

2021????????????????CO2??

??CO2????1940????????50????80????????????????CO2????????

????????????CO2???1ppm????????????0.5????0.6????0.8????????????

9.1 CO2 1940 33% 100ppm 50% 60% 8

0%????????????????????????????????500%????200%????200%??

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

[illegible]

?????????????????????????????????????CWG??????

[illegible]

????????????????????CWG????????

????????????????????CO2????IPCC????????????

[illegible]

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

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

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Posted in ???, ????? | No Comments »

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??? ?? · Tuesday, August 12th, 2025

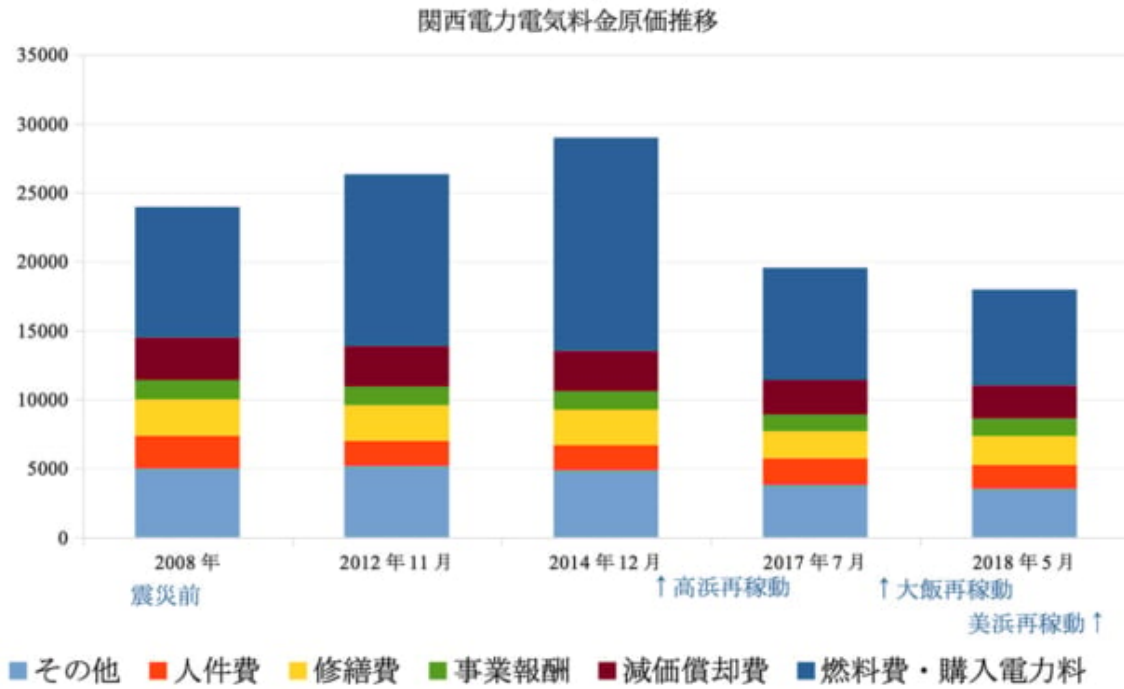


Mintr/iStock

2025?7?31????????????????????????????????3??
 ?????????????????2025?8????????????????????????????????3??

??

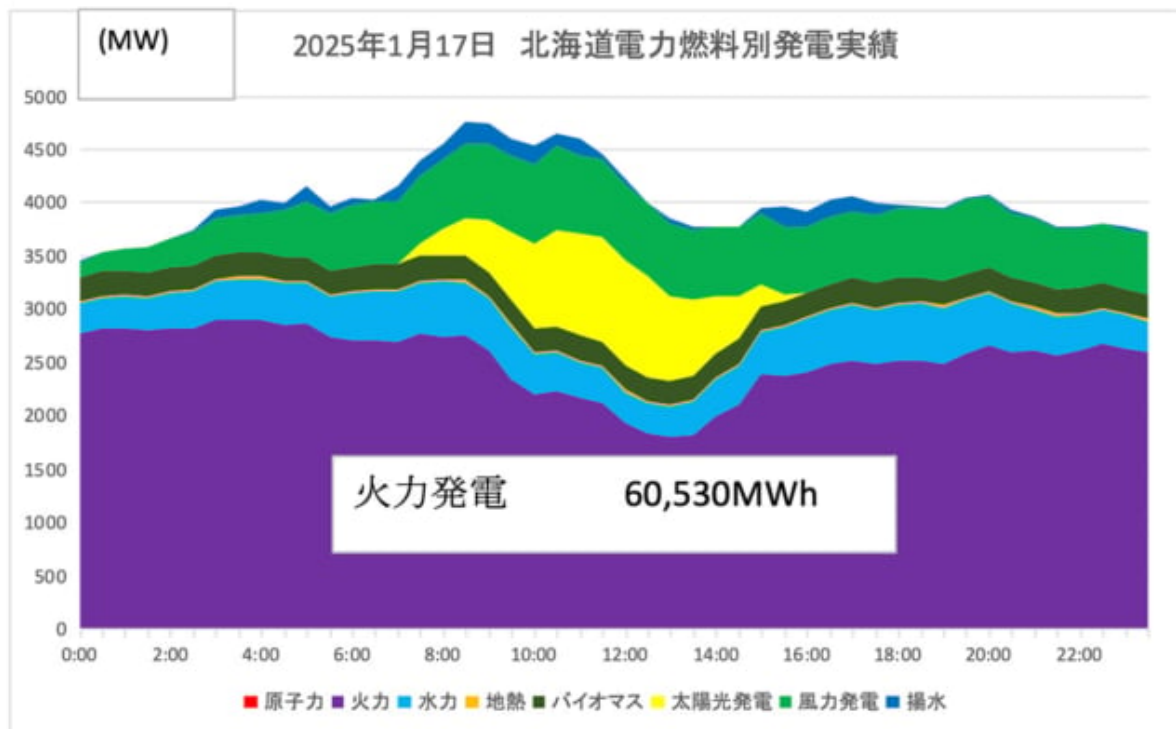
?1??2023?6??B??30A?400kWh????????????????????
 ???



????????????????????

??2025?1?17????????????????????

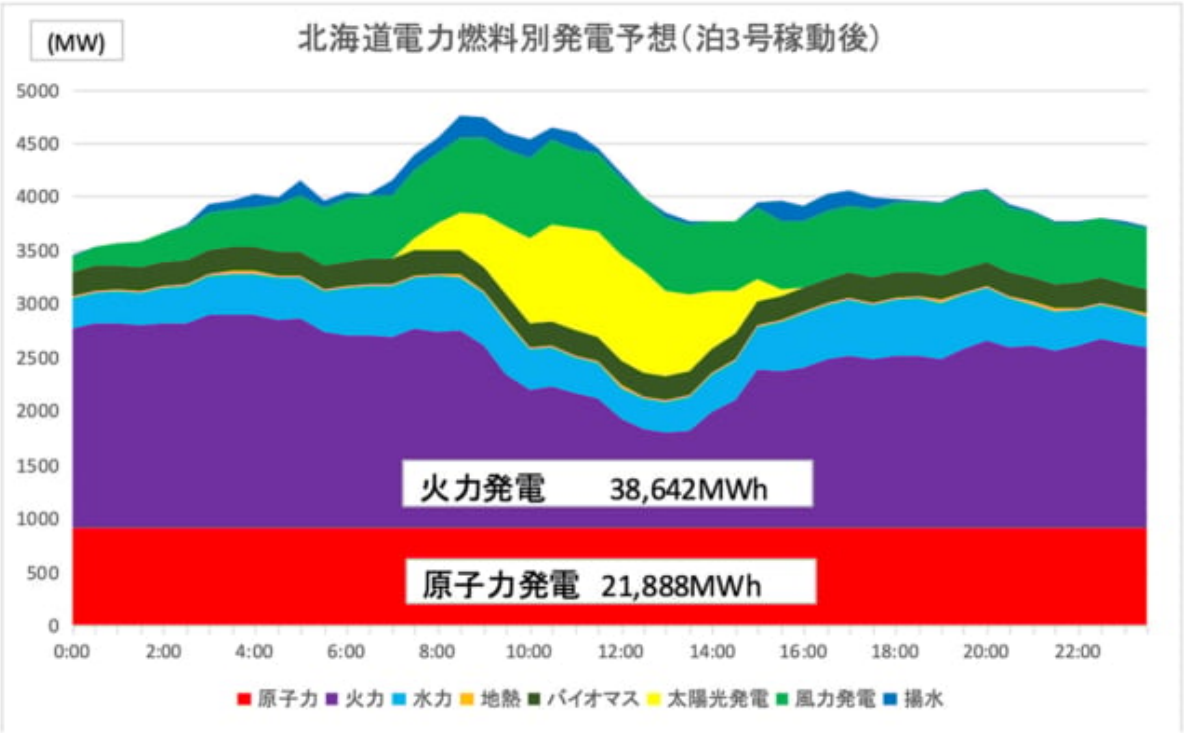
?3?1?17??60,530MWh??????



?3?2025?1?17????????????????

?4??60,530MWh??38,462MWh???

???????37????????????????????37??????????????



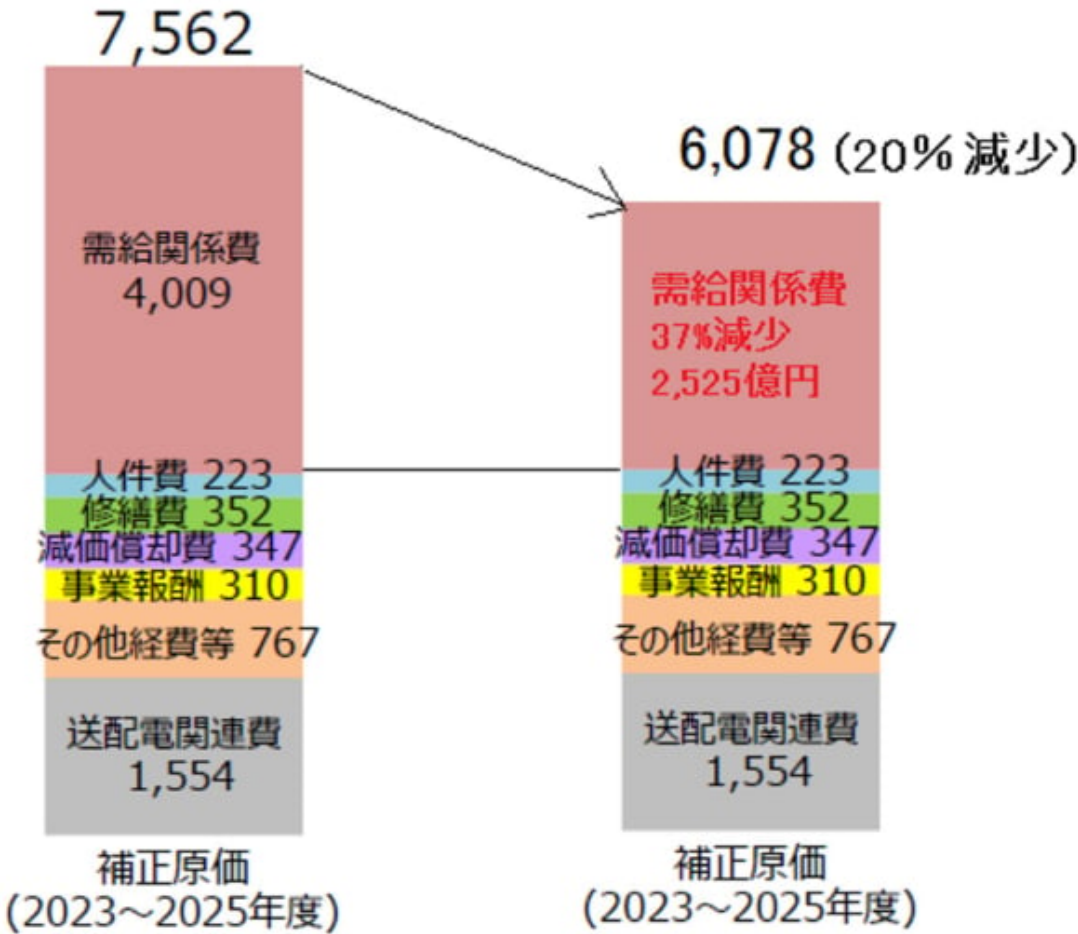
?4????????????????????????????

????????????????????????????

?5??2023?5??4,009????????????????????
???37?????2,525????????????????

実際に申請した値

需給関係費を 37%減少
させた場合の総原価



5????????????????????????????????

37????????????????20????????????????????????????20????????????????

2022??

??15??20????????????????

15????????????????????????3????????????????????????????

15????????????B????????????1????????????????????2???

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

			現行料金		15%値下げ
従量電灯B	基本料金	10A	374円		317円
		15A	561円		476円
		20A	748円		635円
		30A	1,122円		953円
		40A	1,496円		1,271円
		50A	1,870円		1,589円
		60A	2,244円		1,907円
	電力量料金	120KWhまで	35円44銭		30円12銭
		120～280KWh	41円73銭		35円47銭
		280KWh超える	45円45銭		38円63銭
標準家庭の料金			14,301円		12,155円

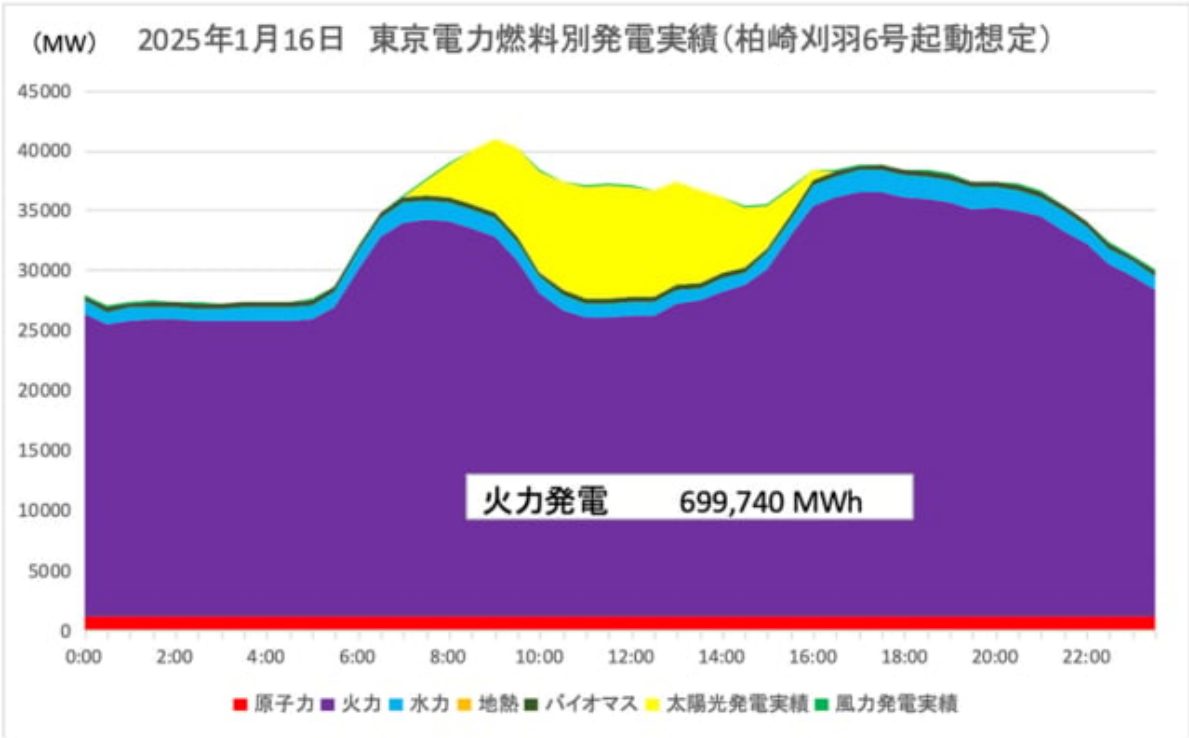
?1?15????????????????????

????????????????HTB?UHB????????108??
??100??
????????????????????????????

????????????????

2025?8?4????????7??6????????????
????????????????????

?6????????????????????6??
????????????????????????????



6116????????6????????????????????

????????????????6????75????????????????3??1????????

????????????

6????????75????????15????????

????????1????????

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

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6????100kW????2????

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

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

?? ?? · Tuesday, August 12th, 2025



NadyaPhoto/iStock

??

????????????????????????????????????Climate Working Group, CWG????2025?7?23????????

??A Critical Review of Impacts of Greenhouse Gas Emissions on the U.S. Climate????

????8? ?????????????????????????????????

????????CWG????????????????

?

??8??

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???IPCC?19????????????????????1????????CO2??

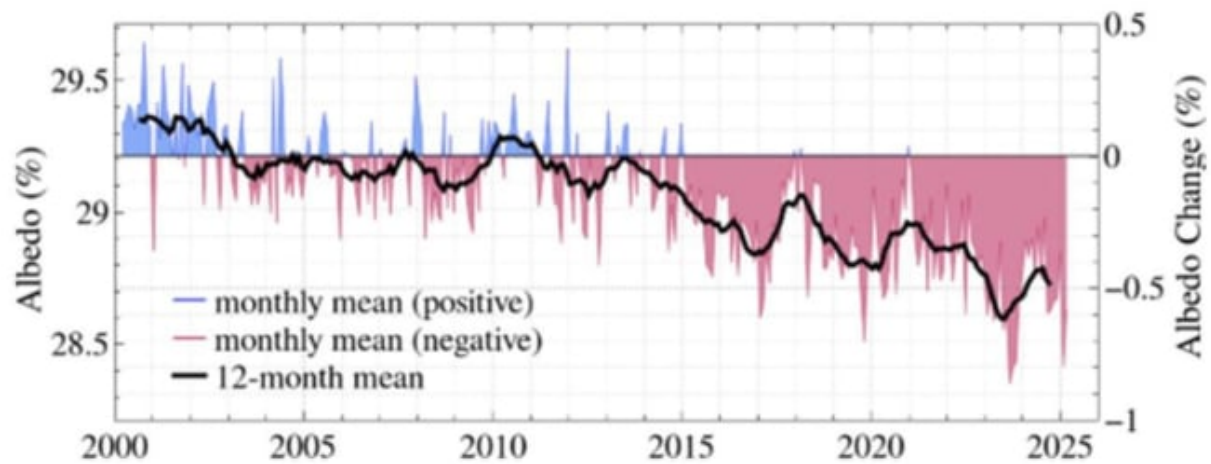
????CWG????

??

????????????????????????????????

1950????????????????????????????????20????????40????????????????????McLean et al., 2009; Tung and Zhou, 2013; Chylek et al., 2016; Scafetta, 2021??

2015 8.2 0.5%



8.2
Hansen?Karecha?2025?

12
ECS?
10

CWG?

IPCC? 8.1

6 8.1
IPCC?

Climatic Impact-driver Type	Climatic Impact-driver Category	Already Emerged in Historical Period
Heat and Cold	Mean air temperature	1
	Extreme heat	2
	Cold spell	4
	Frost	
Wet and Dry	Mean precipitation	
	River flood	
	Heavy precipitation and pluvial flood	
	Landslide	
	Aridity	
	Hydrological drought	
	Agricultural and ecological drought	
	Fire weather	
Wind	Mean wind speed	
	Severe wind storm	
	Tropical cyclone	
	Sand and dust storm	
Snow and Ice	Snow, glacier and ice sheet	
	Permafrost	
	Lake, river and sea ice	11
	Heavy snowfall and ice storm	
	Hail	
	Snow avalanche	
Coastal	Relative sea level	
	Coastal flood	
	Coastal erosion	
Open Ocean	Mean ocean temperature	
	Marine heatwave	
	Ocean acidity	
	Ocean salinity	13
	Dissolved oxygen	14
Other	Air pollution weather	
	Atmospheric CO ₂ at surface	
	Radiation at surface	

High confidence of decrease

Medium confidence of decrease

Low confidence in direction of change

Medium confidence of increase

High confidence of increase

?8.1?IPCC AR6???I???12.12??1????
????????????????CID????????????
????????????????????????????????

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????IPCC??CWG???????

IPCC??AR6??
WG1??11????Seneviratne et al., 2021????????????????

??AR5????????????????????????
????????????????????????/??
????????????????????

??WG1??12??8.5??12.12????????????????????????????????????2??
??Ranasinghe, 2021??

- ???
- ???
- ???

????11??
????????????????????????????????CWG???????

??
??World Weather
Attribution?WWA?worldweatherattribution.org??
??

WWA??
????????WWA??
????????????????????????????????????Pielke Jr.
2024????????????????WWA??
????????????100??

CWG??
??2????1????????????????????????????????

??????? – 2021???????

2021????????2021?6??116????????107????????????????10
8????????103????????????????????????Mass et al., 2024??

WWA??WWA, 2021; Philip et al., 2022??

- ???
- ?????????????????1000??1????????????????
- ?????????????????????????150????????????????

Posted in ???, ????? | No Comments »

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?? ?? · Monday, August 11th, 2025



ALLVISIONN/iStock

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????????????????????Climate Working Group, CWG????2025?7?23???????

????????????????????A Critical Review of Impacts of Greenhouse Gas Emissions on the U.S. Climate??????

??????7? ???????????????????

????????CWG????????????????

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??????19??1????2.54?????????

1900????????????8??

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 ???AR6?2050??????

 ?????1995-2014????????????????2025??

 ?????????????????????????????????

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 ???

 ???

 AR6??1901??2018????????????????7.9?5.9–9.8??199

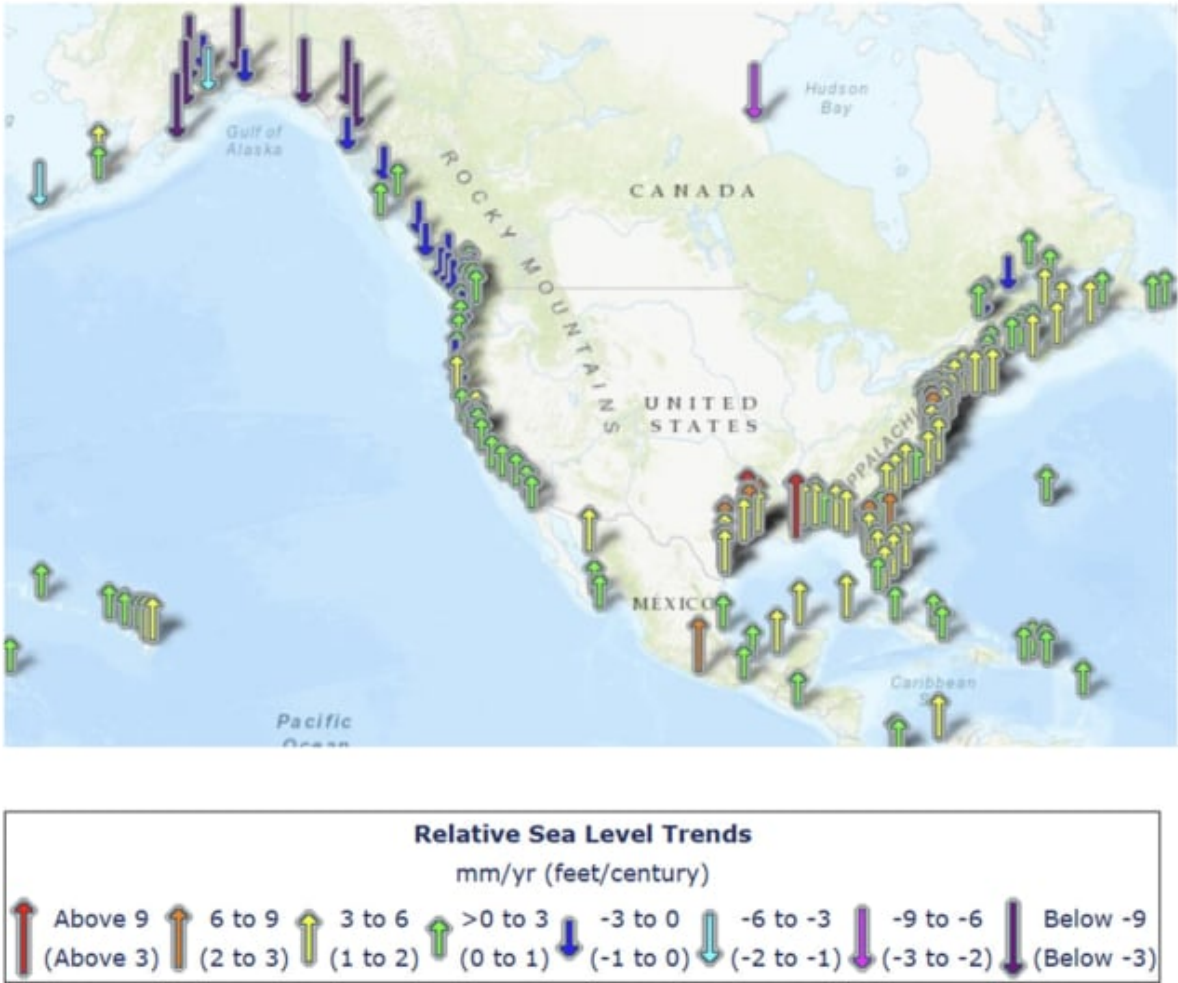
 3??2018??Fox-Kemper et al.,

 2021????????????????0.12????????????????2????????????????????????NASA, 2020??

 ???GPS????

 ?????????????????????????1993????????????????7.1??

 ???



?7.1????????????????NOAA??

????????????????????????????????1993????????????????????????????????1????????????????
 ?????????????????????????????????19????????????????????1820??1860????????????????
 ?????????????????????????????????

?7.1??
 ???

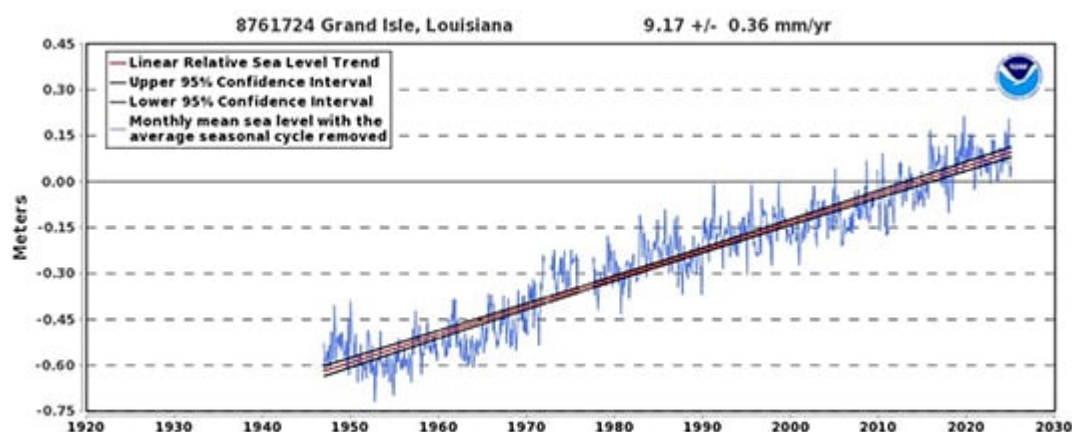
地点	RSLR	VLM	ASLR
サンフランシスコ、カリフォルニア	+0.08	-0.06	+0.02
ガルベストン, TX	+0.26	-0.19	+0.07
グランド・アイル、ルイジアナ州	+0.36	-0.28	+0.08
セントピーターズバーグ, フロリダ州	+0.12	-0.02	+0.10
ニューヨーク市, NY	+0.11	-0.05	+0.06

7.1 ASLR/RSLR/VLM

[illegible]

????????????????

????????????????????????????100????????0.36????????3????????7.4????????
??-0.28????????7.1????????+0.08????????



7.4. NOAA 2025422

???1950?????????????????
 ???????????????????50%???????Maloney
 2018??1/3????????????????Neinhuis et al.
 2017????????????????12??

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 ?????????????????CO2????????????
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Posted in ???, ????? | No Comments »

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?? ?? · Sunday, August 10th, 2025



benmoss/iStock

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????????????????????????????????????Climate Working Group, CWG????2025?7?23????????

??**A Critical Review of Impacts of Greenhouse Gas Emissions on the U.S. Climate**??????

????6? ?????????????????

???????CWG????????????????

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??1950????????????????????AR6????
????????1920???1930??
??
????????????1980????????????????????1960???2000????????????????????????????????
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????????????????????????????????????CWG????????????????????????????????

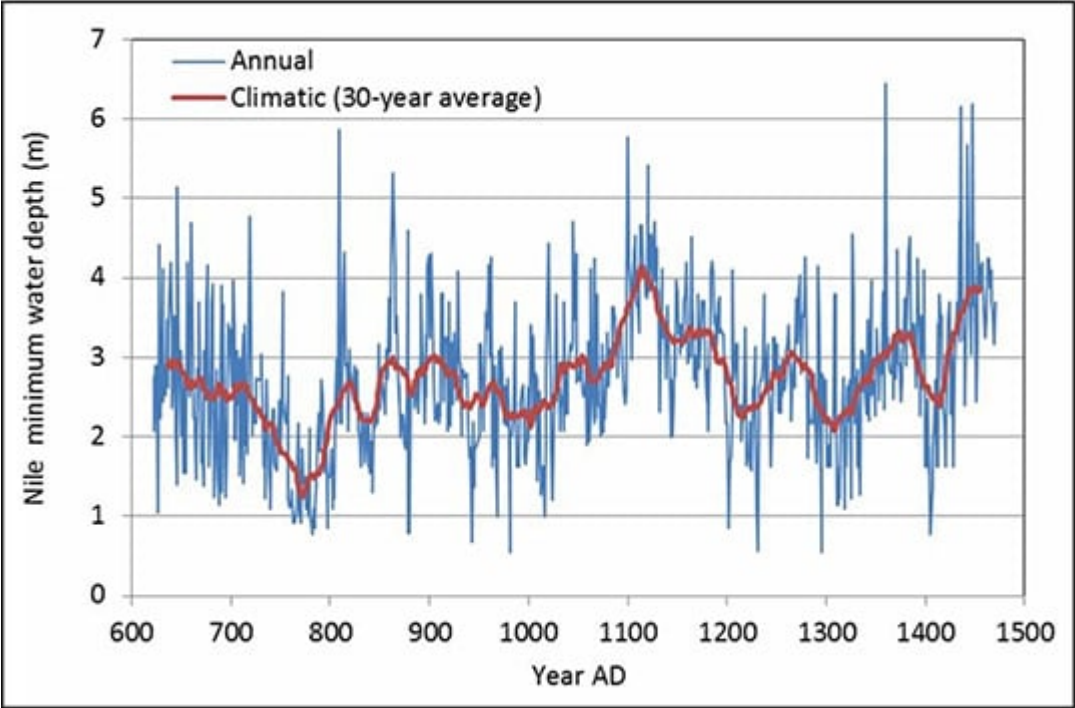
??

??800????????????????????????????CO2????

??

??Hurst 1951, Cohn and Lins 2005, Markonis and Koutsoyiannis 2016??Cohn and Lins 2005??

??800????????????6.1.1????????????????3??1????400????????????????????????????????20????????????????????????????????30????????????????????????7????8? ???



?6.1.1????????????????650????????622???1284???
??
????Koutsoyiannis?2013???

????630????770????????????3????1.3????????????????????????????????
????????????????140????????????????????????????????????

????????????IPCC????????????

AR6??40????????3?5????????????????????????????...

??CWG????????????????????????????

????????????????????variation????????change????????????????????
??
????????????AMO????????????????????????????????????

????????????????????????????????????

?????variation????????????????????????change????????CO2????????change????????
??CWG??????

??????????????

IPCC?NCA????????????????????????

AR6??1950????????????????????????????

AR6????????????????????????1950????????????????????????????????????SPM A3.2?

AR6?????1950??1950??2018?????[1??
][5????]????????????????11?p. 1560?

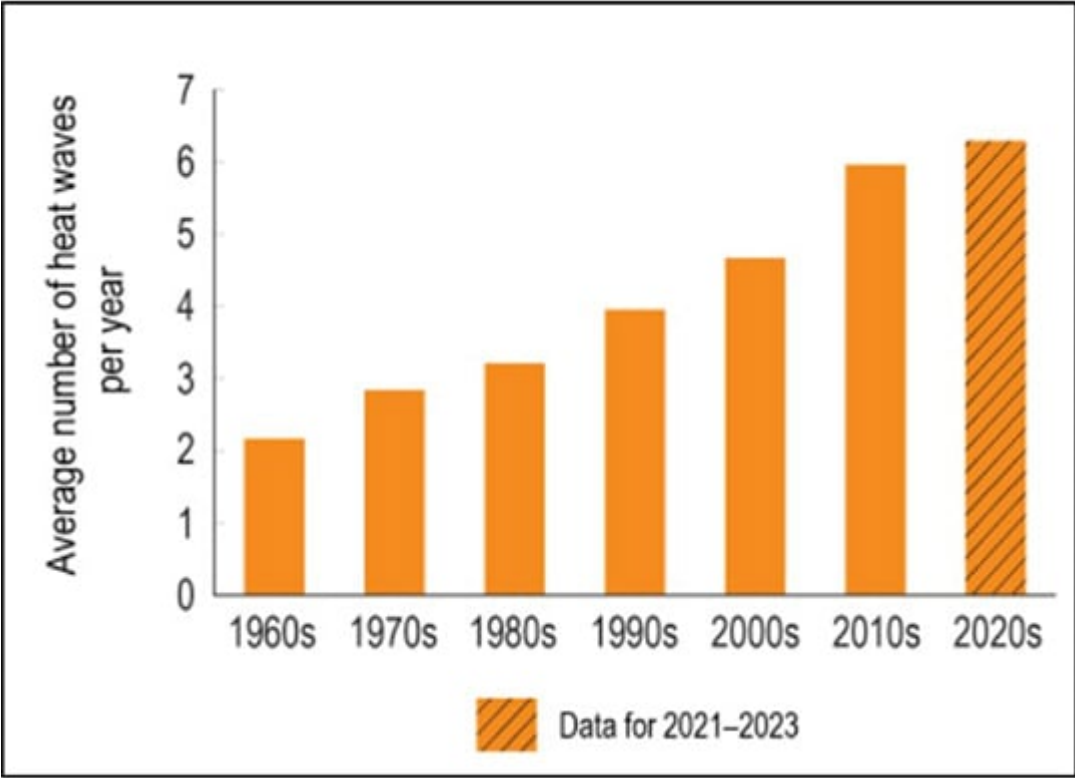
????????NCA4?NCA5????????????????????????????????1901????1958????????????
????????????????????????????????

????????????????????????????????????CWG??????

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???5????????NCA5????????????USGCRP
2023????????1960????10????????????????6.3.7??????



6.3.750
?
<https://www.globalchange.gov/indicators/heat-waves>
2025522

?????????CWG???????

19602202610
8550

USGCRP202319602GHG
1960191019702
1960TminTmaxTmin
Karl et al. 1988, Runnals and Oke 2006, Christy et al. 2009, McNider et al. 2012

1196070193019602
?

NCA

?????????CWG???????

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????????????????CO2????????
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Posted in ???, ????? | No Comments »

????????????????????

?? ?? · Saturday, August 9th, 2025



Laurence Dutton/iStock

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

????????????????????Climate Working Group, CWG????2025?7?23????????

????????????????????A Critical Review of Impacts of Greenhouse Gas Emissions on the U.S. Climate??????

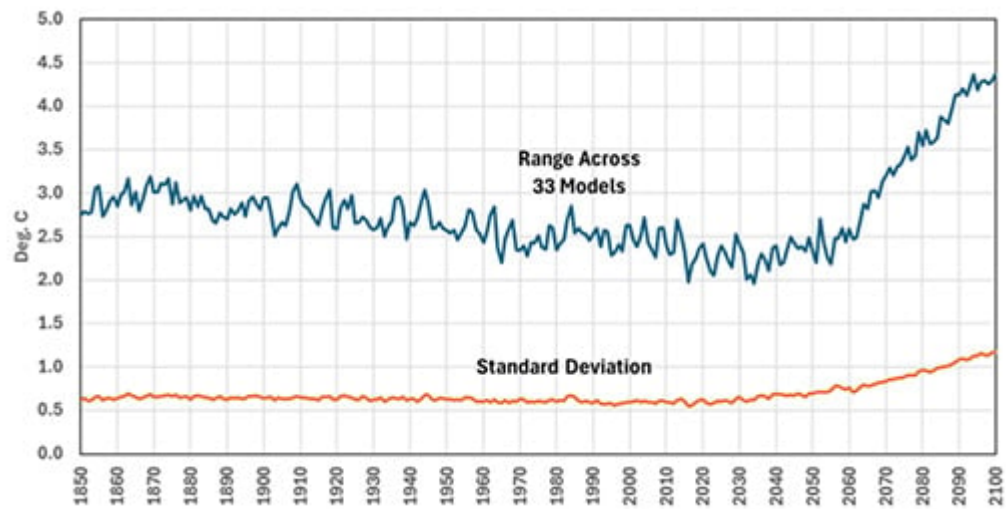
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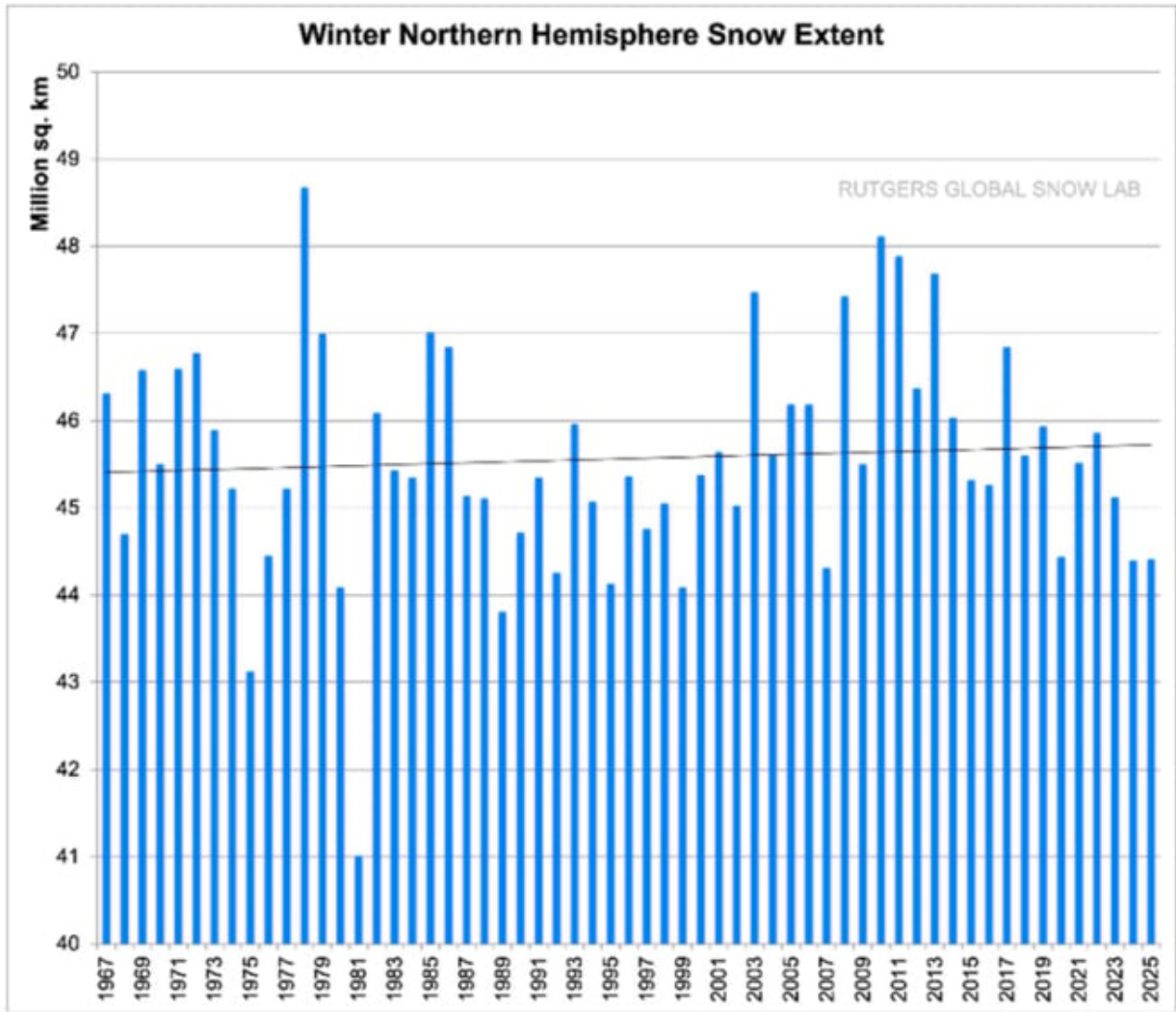
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???https://climate.rutgers.edu/snowcover/chart_seasonal.php?ui_set=nhland&ui_season=1

2025?5?27??????

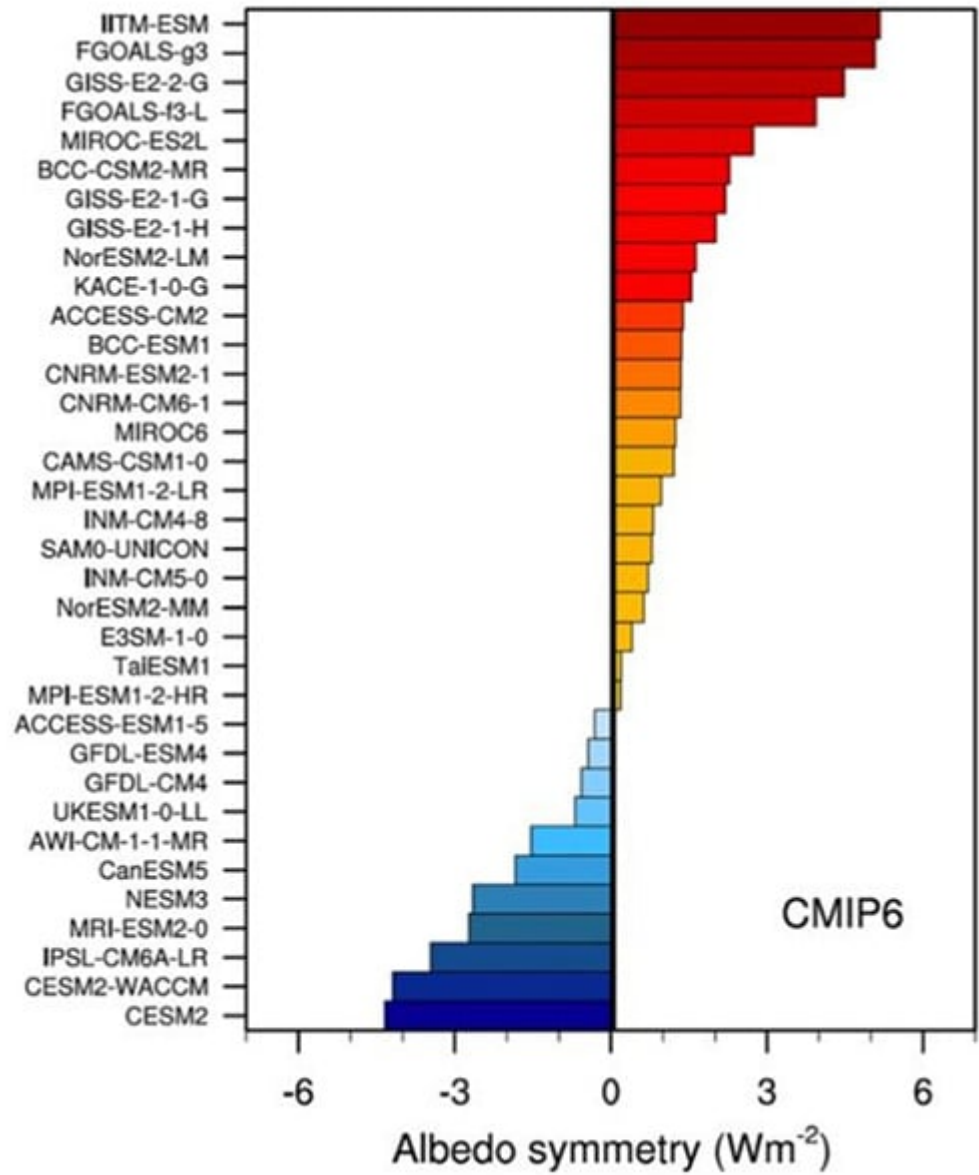
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Wm⁻²????????????????????????????????????5Wm⁻²????????????2.7
Wm⁻²??2????????



?5.8. CMIP6?????IPCC????????????????????20????????????????????
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Rugenstein?Hakuba?2023???

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Posted in ???, ????? | No Comments »

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?? ?? · Friday, August 8th, 2025



Sashkinw/iStock

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??A Critical Review of Impacts of Greenhouse Gas Emissions on the U.S. Climate??????

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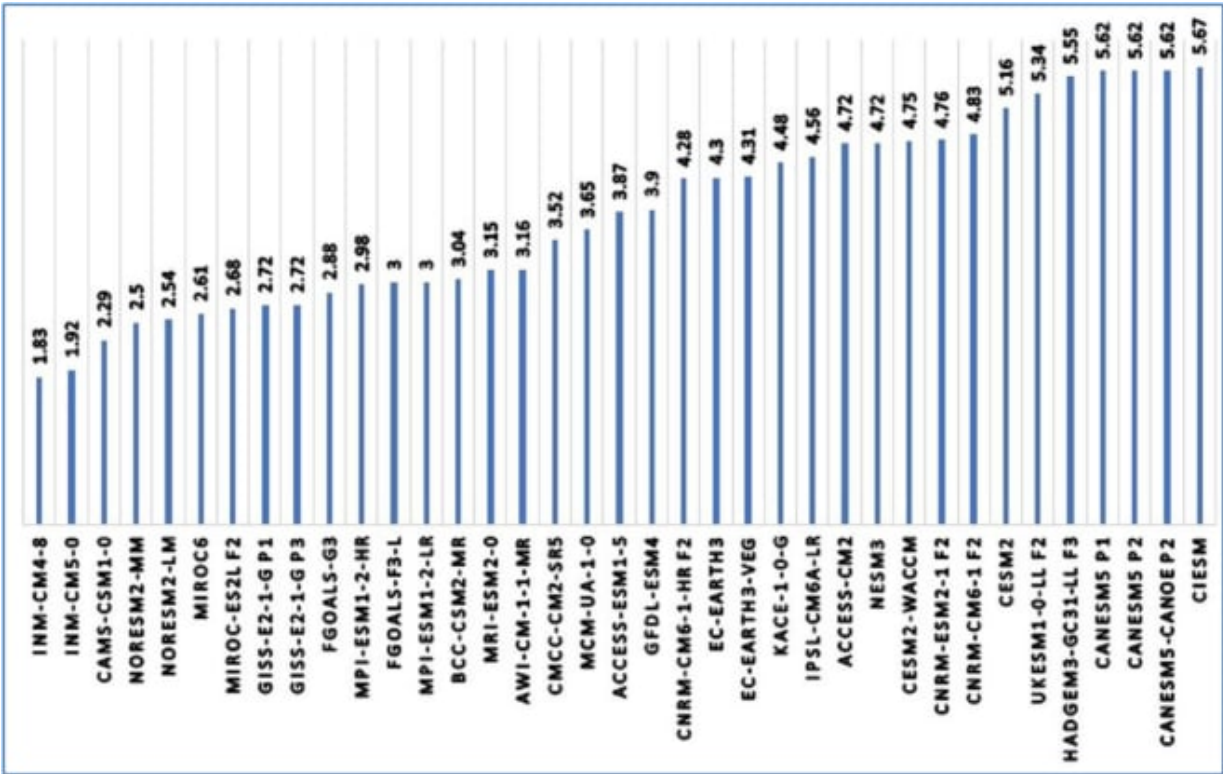
????????????????????ECS????CO2????????????????AR5?AR6????IPCC??5??6??????

????CO2????????????ECS????????????????????????????IPCC????????????????
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????ECS????????????????????????????IPCC

AR6?ECS????????????4.0????AR5?4.5????????????????????????
 ??AR6?ECS????????????2.5??AR5?1.5????????????????????????AR6
 ?????????????1.8°C??????

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?4.1 CMIP6????37?????

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????Scafetta, 2021?

???4.1??MPI-

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Mauritsen?Roeckner?2020????MPI?????

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ESM1.2?????

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2022-2023
37°C
2022-2023
13°C
300
3.1°C
2.6–3.9°C

AR6
IPCC
Sherwood
et al.
2020
ECS
3.1°C
2.6–3.9°C

ECS
Lewis
Lewis
IPCC
AR6
Sherwood

Lewis
2022
Sherwood
2022
2.2
17
83
1.8
2.7°C
5
95
1.6
3.2
IPCC
AR6
ECS
2.3
5
Lewis
50
Sherwood
Lewis

ECS
AR6
AR5
CWG
ECS
Lewis
1.8

ECS
CO2
TCR
TCR
IPCC
Lewis

TCR
ECS
TCR
ECS
AR6
TCR
1.2
2.4
ECS
TCR
Lewis
2023
TCR
1.2
5
2.0
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Lewis
1.25
2.0

IPCC
Lewis
CWG

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Posted in ???, ????? | No Comments »

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?? ?? · Thursday, August 7th, 2025



Dilok Klaisataporn/iStock

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Climate Working Group, CWG2025723

A Critical Review of Impacts of Greenhouse Gas Emissions on the U.S. Climate

CO2CO2

CWG

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3.1

IPCC202116TSI16002000TSI20TSI20

IPCC11IPCC

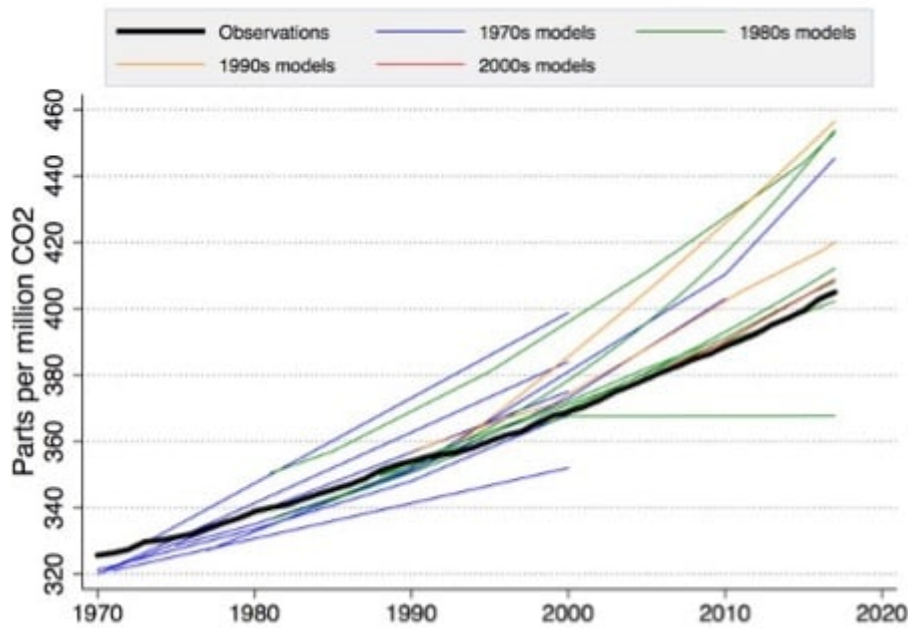
IPCC

TSI

TSIIPCC

IPCC

IPCCIPCC34SRESMcKittrick2012SRES1SRES2019CO2SRESIPCC3.2.1



3.2.1 1970??

??Hausfather et al.?2019??S4

????IPCC??

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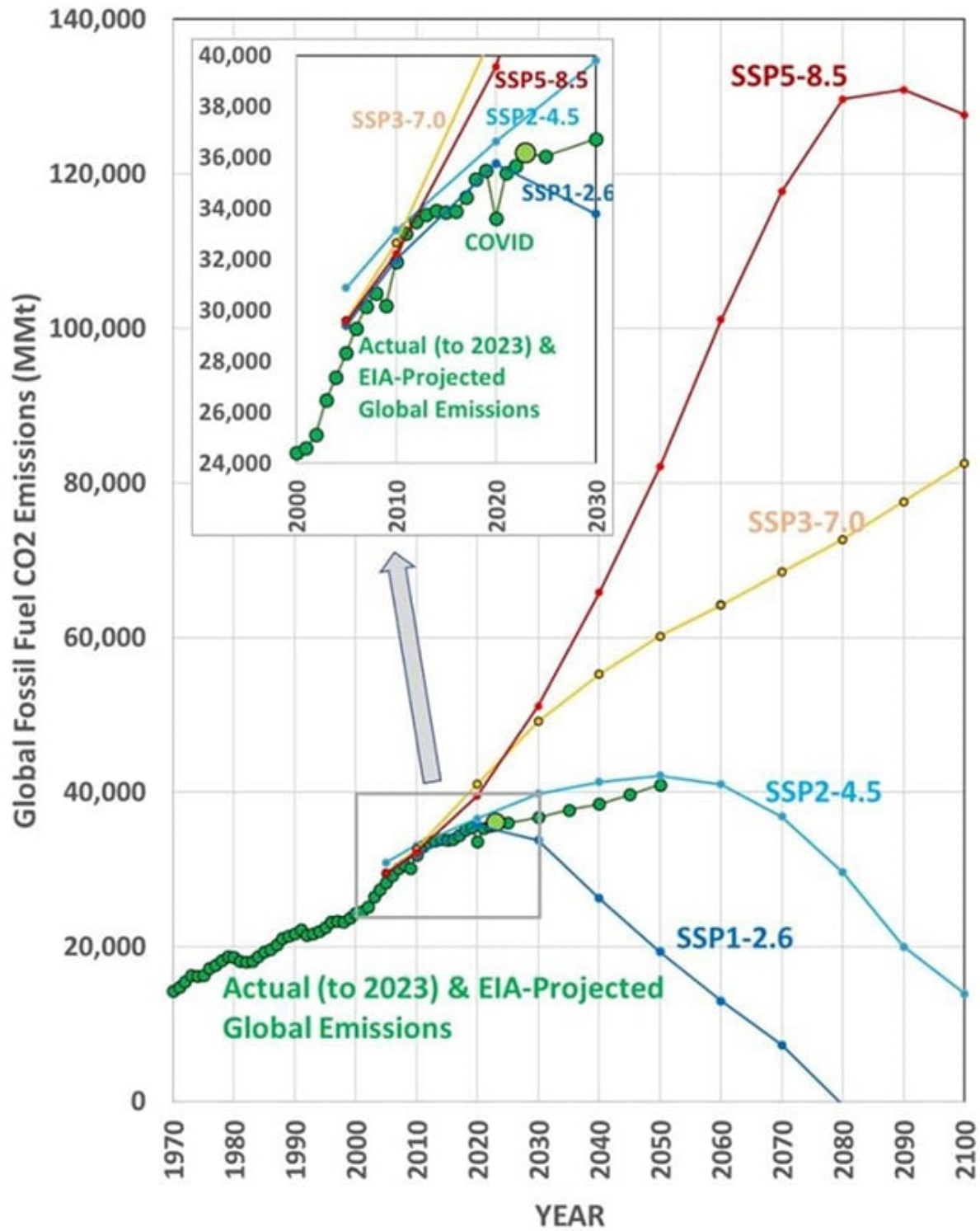
Pielke?Ritchie?2020???RCP8.5????????????1????20????????????????????2???RCP8.5????????business
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usual??10????????SF????????????????“?”????????????????
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3.2.2????IPCC????????????SSP5-8.5????RCP8.5??

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3.2.2. CO₂ Emissions: EIA-Projected vs. SSP1-5

IPCC SSP Emissions

Friedlingstein 2024

CO₂ Emissions: EIA-Projected vs. SSP1-5

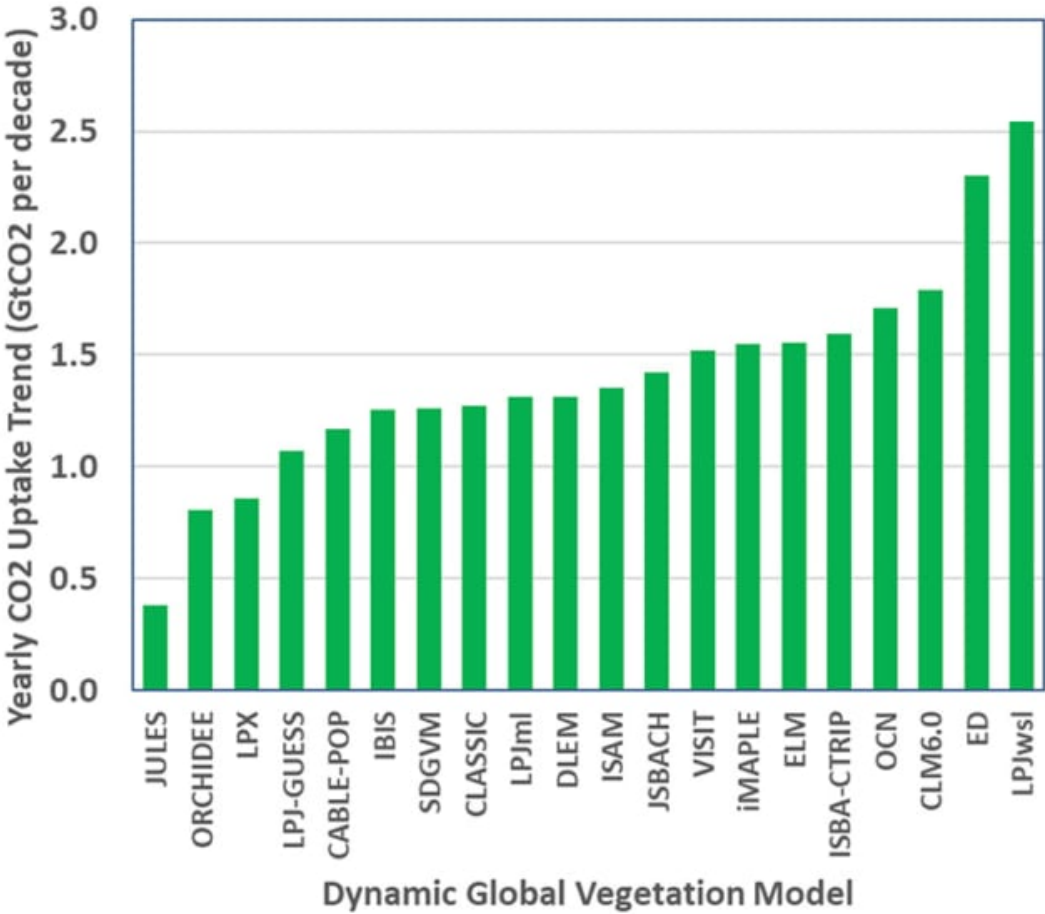
50 Emissions: EIA-Projected vs. SSP1-5

CO2 concentration in 2050
CO2 concentration in 2050

CO2 concentration in 2050
CO2 concentration in 2050

CO2 concentration in 2050
Friedlingstein, 2024
3.2.3 1959-2023 CO2 concentration in 2050

CO2 concentration in 2050
CO2 concentration in 2050



3.2.3 1959-2023 CO2 concentration in 2050
Friedlingstein, 2024

CWG
IPCC
IPCC
CWG
CWG

CO2 concentration in 2050

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Posted in ???, ????? | No Comments »

??????CDP?SBTi????????????

?? ?? · Wednesday, August 6th, 2025

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CDP????ESG??
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100+?TNFD????????JCLP????????

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CDP?RE100?TCFD?SBTi????????????????
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Posted in ???, ????, ????? | No Comments »

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?? ?? · Wednesday, August 6th, 2025



Tunatura/iStock

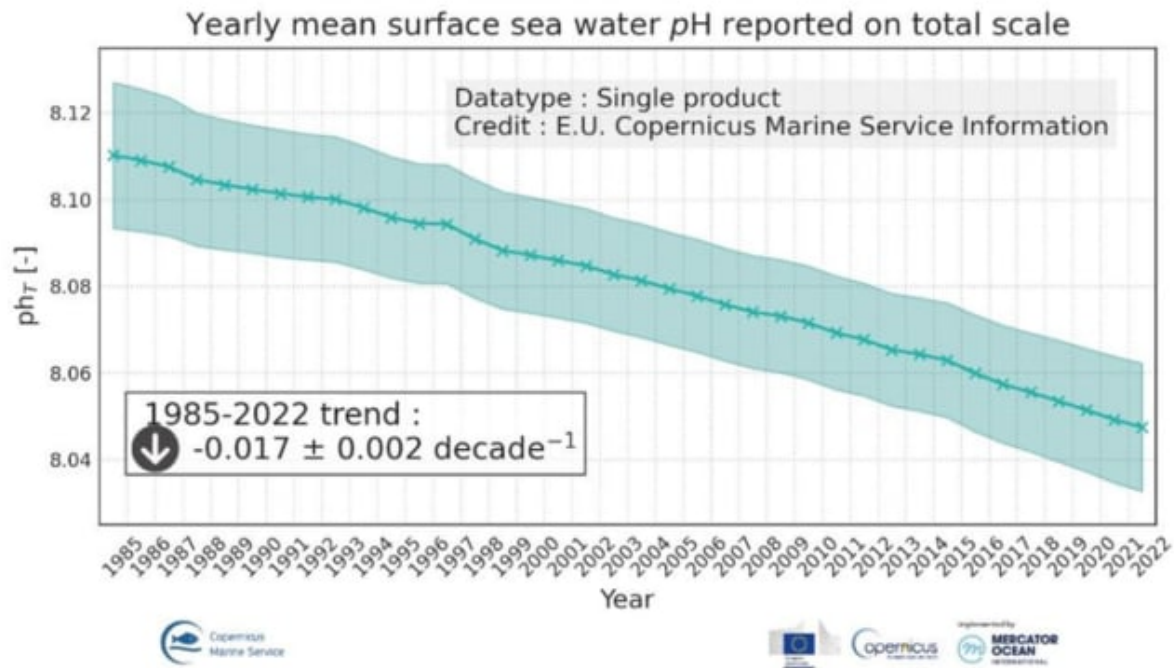
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??Climate Working Group,
CWG?????2025?7?23??A Critical Review of
Impacts of Greenhouse Gas Emissions on the U.S. Climate??

????2??CO2????????????????2.2????????????????????????????????????CWG????????????????

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2.3??pH 1985?2022
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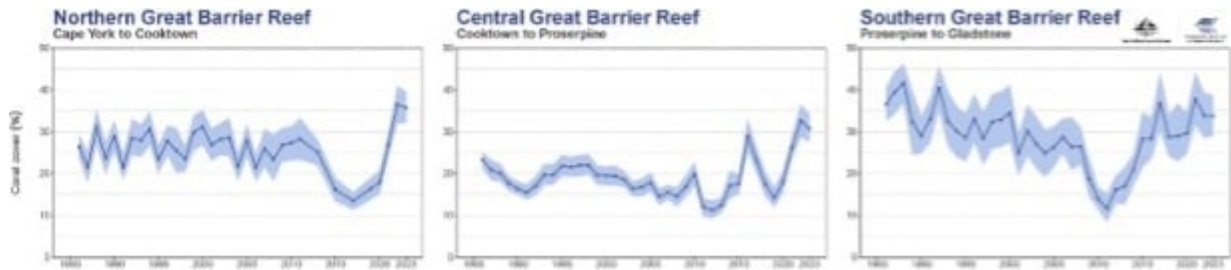
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al., 2018????????????????????pH????????????????pH????????????

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1957??De’ath??2009????????GBR????????1990????14????
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2.4 1985-2023
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CO2 GBR
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Posted in ???, ???? | No Comments »

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?? ?? · Tuesday, August 5th, 2025



hikastock/iStock

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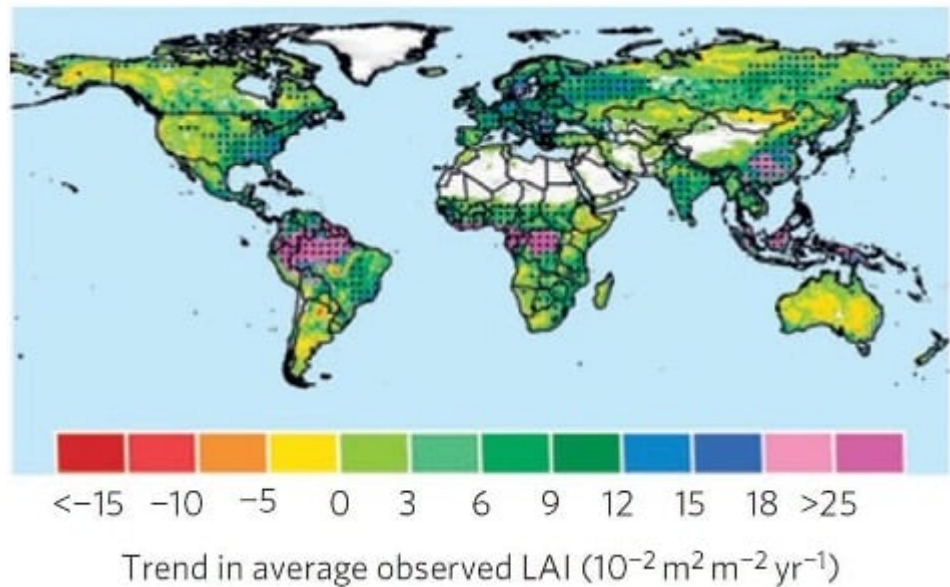
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CWG????2025?7?23????????????????????????????????A Critical Review of
Impacts of Greenhouse Gas Emissions on the U.S. Climate??

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2.1? CO2????????????

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2.1 LAI
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LAI
LAI

CO₂ 2,000-4,000 ppm
5,000-1,000 ppm
Berner 2006, Judd et al. 2024
3,500-170 ppm
Gerhart and Ward 2010

CO₂

60
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CO₂

2.2 CO₂



2.2
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Gerhart and Ward 2010
Current 1988

Deryng 2016
Zhang 2024
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CO2

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AR6

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Posted in ???, ????? | No Comments »

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?? ?? · Monday, August 4th, 2025



2025723A Critical Review of Impacts of Greenhouse Gas Emissions on the U.S. Climate

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Posted in ???, ????? | No Comments »

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?? ?? · Sunday, August 3rd, 2025



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crbellette/iStock

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??Climate Working Group, CWG????????????????????
A Critical Review of Impacts of Greenhouse Gas Emissions on the U.S. Climate????????????

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Posted in ???, ????? | No Comments »

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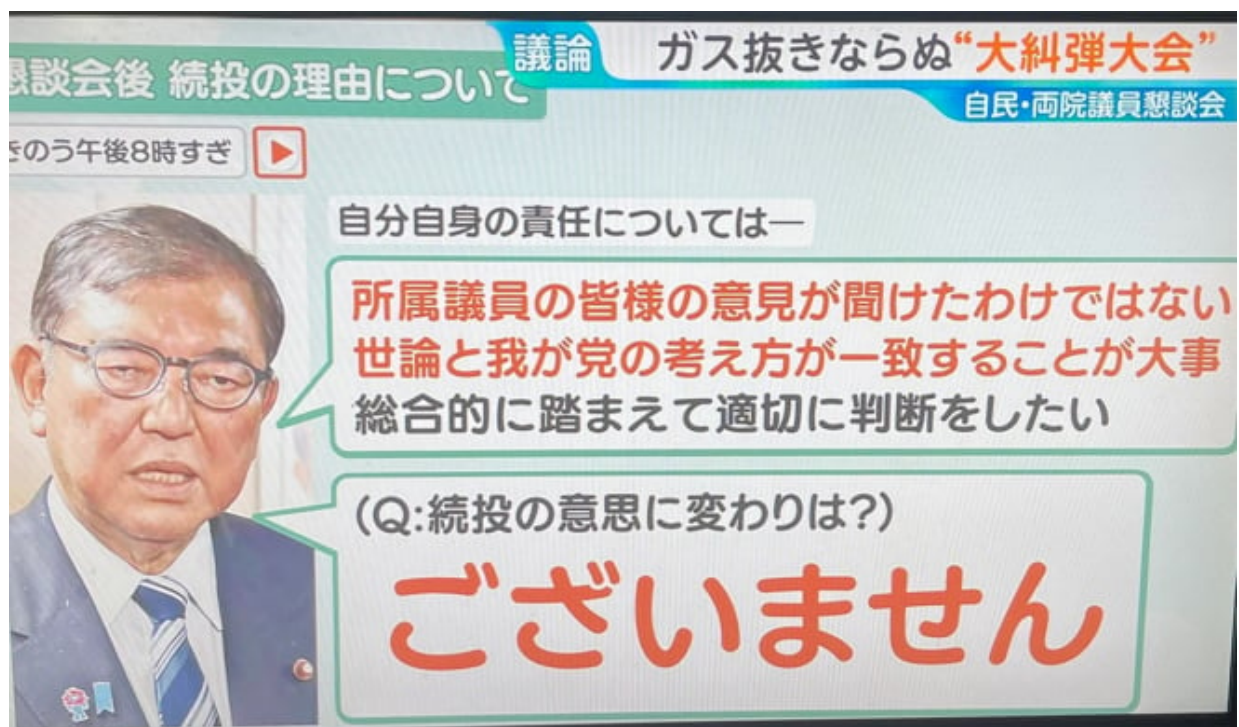
?? ?? · Saturday, August 2nd, 2025



oasis2me/iStock

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<https://agora-web.jp/archives/250701073617.html>

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近年の党派別得票数・率(比例)の推移

	2022年 参院選	24年 衆院選	25年 参院選
自民	1826 34.4	1458 26.7	1281万票 21.6%
立民	677 12.8	1156 21.2	740 12.5
国民	316 6.0	617 11.3	762 12.9
公明	618 11.7	596 10.9	521 8.8
維新	785 14.8	511 9.4	438 7.4
参政	177 3.3	187 3.4	743 12.6
共産	362 6.8	336 6.2	286 4.8
れいわ	232 4.4	381 7.0	388 6.6
保守	— —	115 2.1	298 5.0
社民	126 2.4	93 1.7	122 2.1
ちみ	— —	— —	152 2.6

※得票数・率はいずれも四捨五入。総務省の衆院選・参院選結果調(速報)より

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

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?? ?? · Friday, August 1st, 2025



RapidEye/iStock

20257723
A Critical Review of Impacts of Greenhouse Gas Emissions on the U.S. Climate??

4

2050??CO2
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Executive Summary

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Posted in ???, ????? | No Comments »

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?? ?? · Friday, August 1st, 2025



XH4D/iStock

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Electricity generated from wind and solar cannot replace fossil fuels! – America Out Loud News

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

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??? ?? · Wednesday, July 30th, 2025



Megane Adam/iStock

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

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??? ?? · Thursday, July 24th, 2025

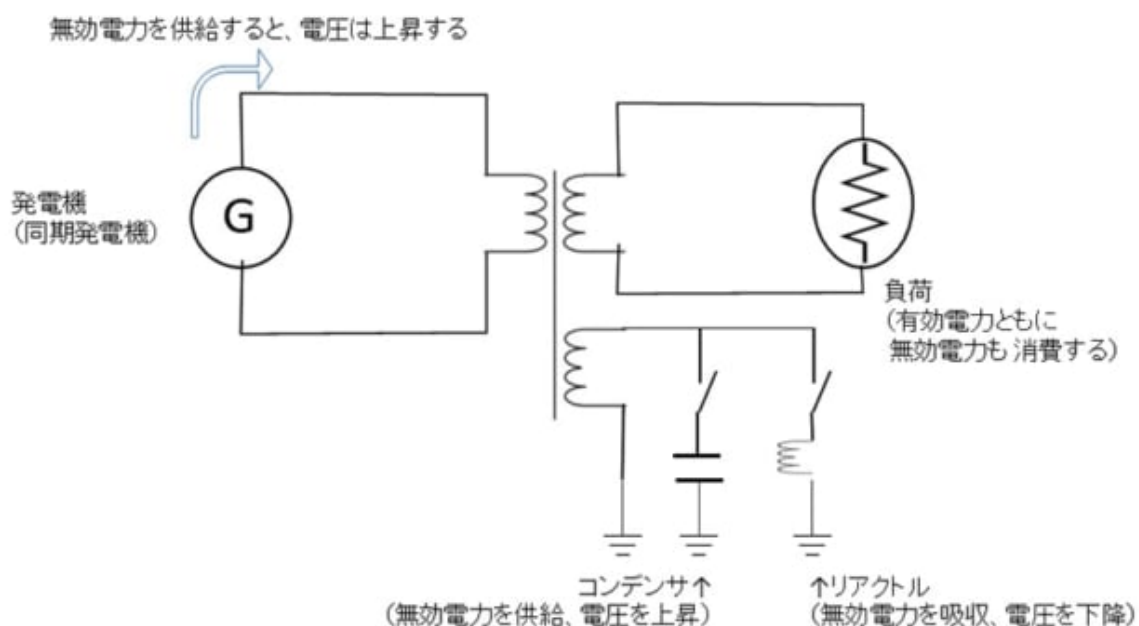


JaviJ/iStock

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“reactive power?????” ??????????????

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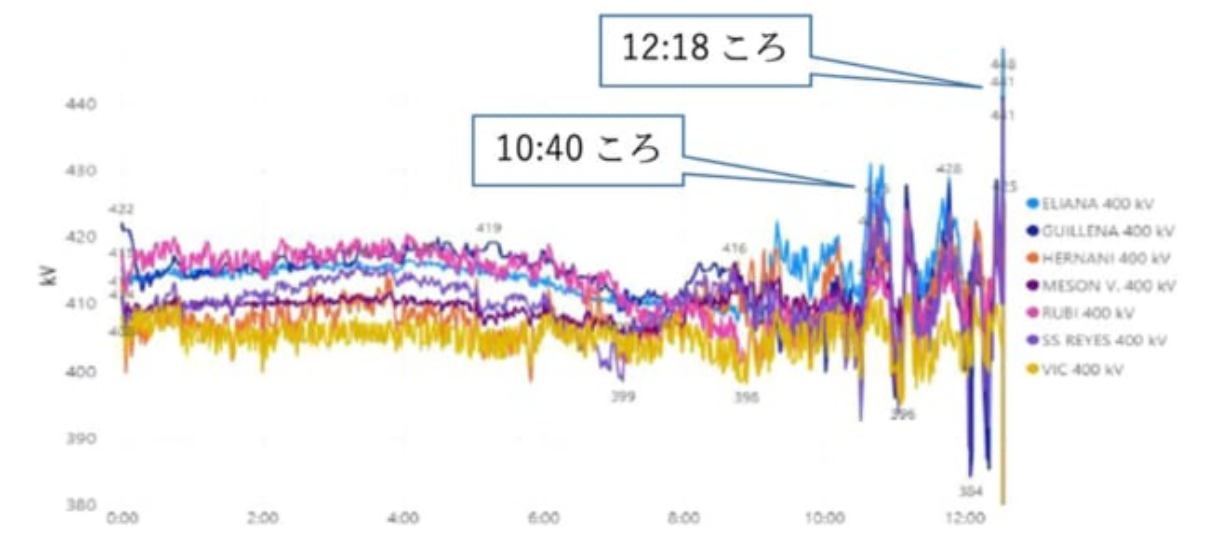
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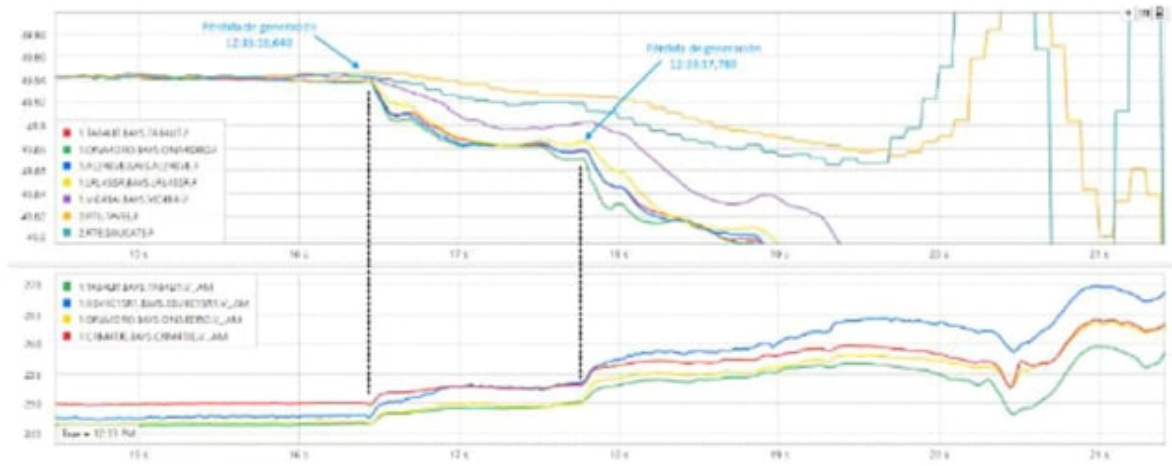
4?28???10??2????????????????????????????????



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

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?? ?? · Monday, July 21st, 2025



nu1983/iStock



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????????????????2010??14.33?/kWh????74????2023??24.89?/kWh????[i
ii]????????3??????

??EEG????????????

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

??G7?????
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G7??BRICS????????????????????????????????

??????1.5????2050????????????????G7??
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1975???1?G7????????????????G7?BRICS?G20????????????????????

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1?Saudi Arabia sits on fence over BRICS with eye on vital ties with US
2?BRICS Summit signs historic commitment in Rio for more inclusive and sustainable governance

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?? ?? · Saturday, July 19th, 2025



DesignRage/iStock

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News??
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?? ?? · Wednesday, July 16th, 2025



BeeBright/iStock

2004??1????????????????????????????

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	定格出力	運転開始年月	2025 年現在の稼働年数
1 号機	110 万KW	1985 年 9 月	40 年
2 号機		1990 年 9 月	35 年
3 号機		1993 年 8 月	32 年
4 号機		1994 年 8 月	31 年
5 号機		1990 年 4 月	35 年
6 号機	135.6 万KW	1996 年 11 月	29 年
7 号機		1997 年 7 月	28 年

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2017?6????????????????????6?7????????2????1?5????????

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40???60????????????????40????????

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2025?7?3????????

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style-photography/iStock

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???ChatGPT??

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????????????	Envision?Chifeng Net?Zero Park????????	500?MW????2.5?GW?2025?07???? 2?GW????????300?MWh????????	?	? ??(Hydrogen Insight, hydrogentechworld.com)
	Iberdrola Puertollano???? 20?MW???100?MW??PV2022?05??	????????20?MWh????????		? ??(Iberdrola, eFUEL- TODAY)

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???H2?????CH4????????1????????????????3????

1 mol あたりの燃焼反応と標準燃焼エンタルピー（25 °C, 1 bar）

燃料	化学反応式（完全燃焼, 生成物は液体水）	$\Delta H^{\circ}_{\text{c}}$ [kJ mol ⁻¹]
水素	$\text{H}_2 (\text{g}) + \frac{1}{2} \text{O}_2 (\text{g}) \rightarrow \text{H}_2\text{O} (\text{l})$	-285.8 Chemistry LibreTexts
メタン	$\text{CH}_4 (\text{g}) + 2 \text{O}_2 (\text{g}) \rightarrow \text{CO}_2 (\text{g}) + 2 \text{H}_2\text{O} (\text{l})$	-890.3 webbook.nist.gov

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