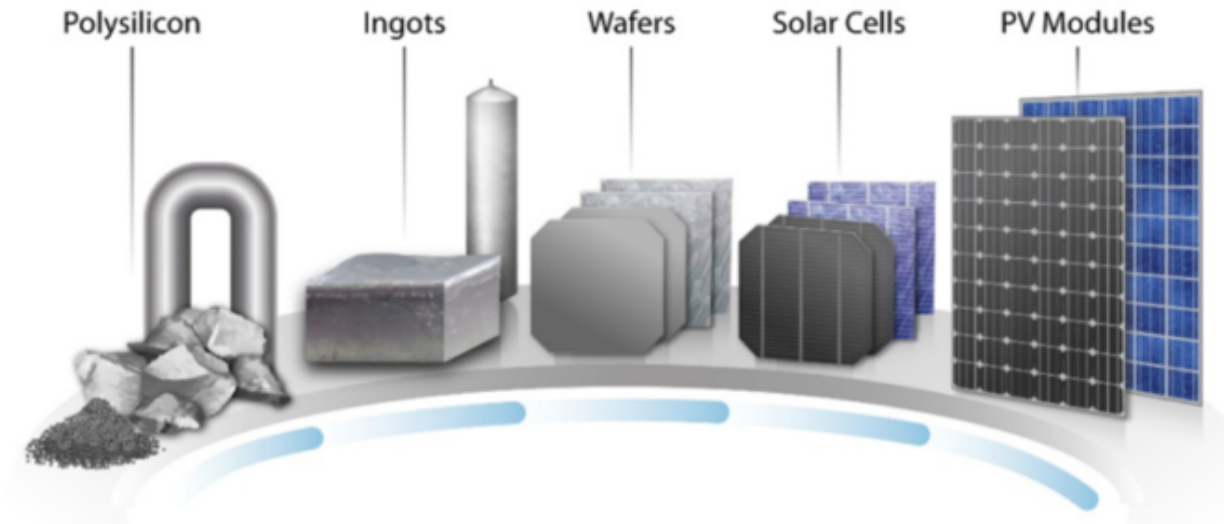
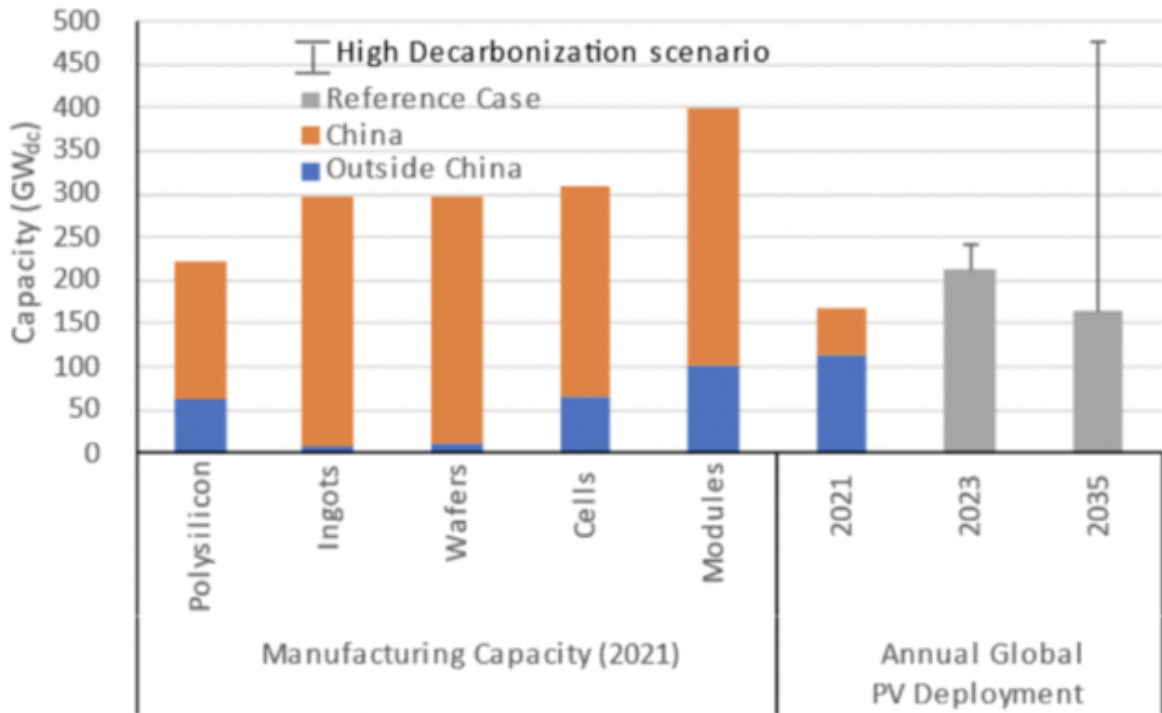


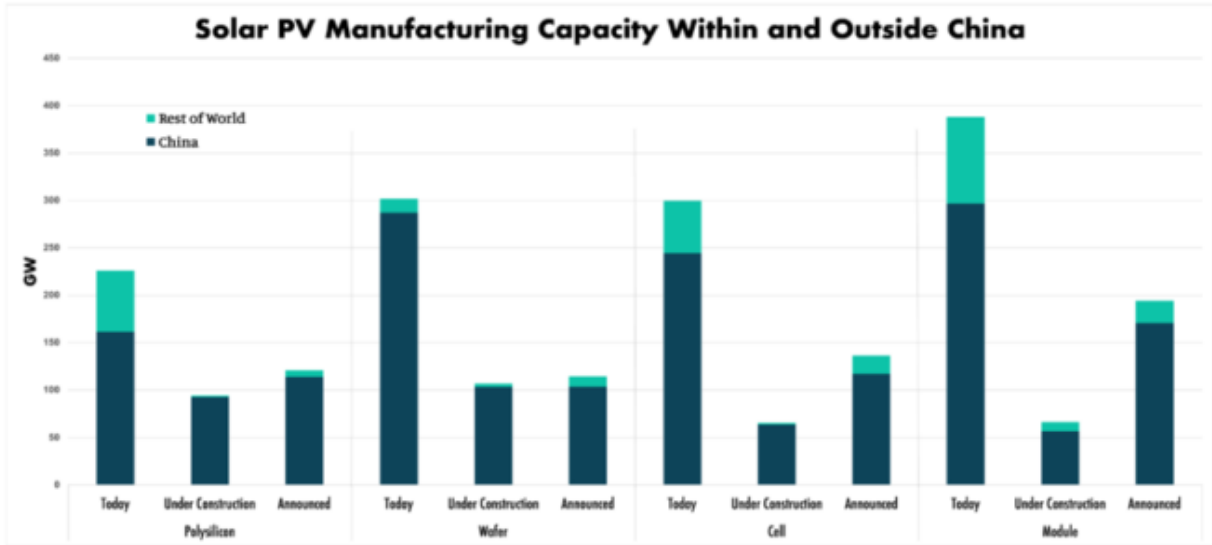
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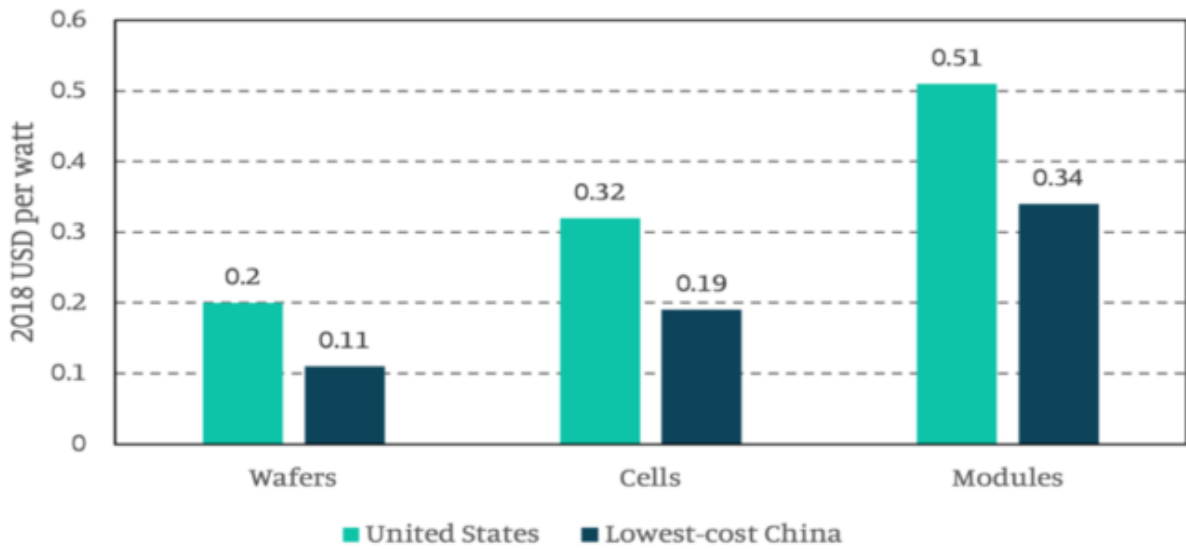


????????????????????????????????Xinjiang????????????????????????KWh????6????????



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Minimum Sustainable Price (MSP)



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?? ? · Saturday, November 19th, 2022



Nastco/iStock

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Kalghatgi??

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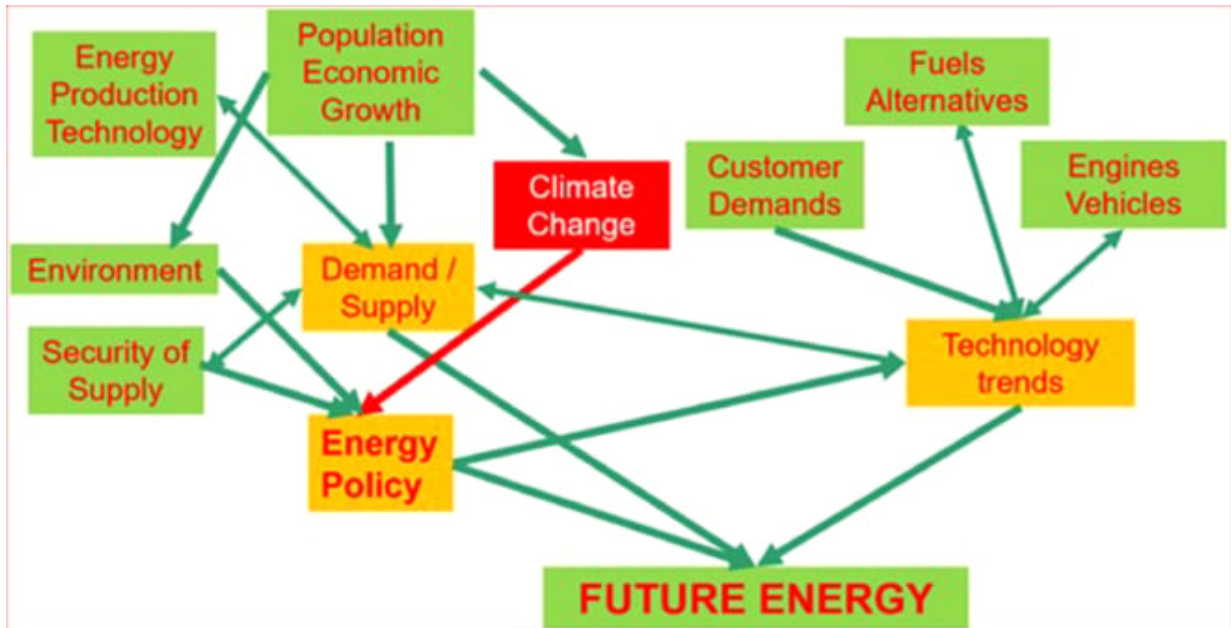
??Gautam????????Gautama????????????????????????????????????
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?????1??2021??BP??82.3%????????????489.66EJ/??595.15
 EJ????????????????1.75%??????????

Table 1. Primary energy and electricity sources in exajoules, EJ (10¹⁸ joules) and installed wind and solar capacity in GW for 2021 [7]. Electricity generation converted to EJ from TWh. 1 EJ= 277.8 TWh.

Country	World	China	U.S.A	India	UK
Oil, EJ	184.21	30.6	35.33	9.41	2.5
Natural Gas, EJ	145.35	13.63	29.76	2.24	2.77
Coal, EJ	160.1	86.7	10.57	20.09	0.21
Total fossil fuel, EJ	489.66	130.93	75.66	31.74	5.48
Actual delivered Wind, EJ	6.7	2.36	1.38	0.245	0.232
Actual delivered Solar, EJ	3.72	1.177	0.594	0.246	0.045
Nuclear, EJ	25.31	3.68	7.4	0.4	0.41
Hydro, EJ	40.26	12.25	2.43	1.51	0.06
Other, EJ	29.5	7.253	5.306	1.289	0.953
Total Primary Energy, EJ	595.15	157.65	92.97	35.43	7.18
Electricity Generation					
Installed wind capacity, GW	824.9	329	132.7	40.1	27.1
Installed Solar Capacity, GW	843.1	306.4	93.7	49.3	13.7
Total electricity generated, EJ	102.47	30.72	15.86	6.173	1.116

Other includes bioenergy, geothermal etc.

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 ??????????????BP?????IEA?????

?1????????????????EJ?10¹⁸joules??????T?10¹²Wh??EJ?????1 EJ =
 277.8TWh???1J =

2.778×10⁻⁷kWh??10¹⁸????????????????????????????????

??????1kWh????????????????????1kWh = 860.6kcal = 3.6kJ????100????????????????????100????????????????????40????????

??????1kWh??860.6kcal????860.6kcal??1kWh????????????????Wh????????

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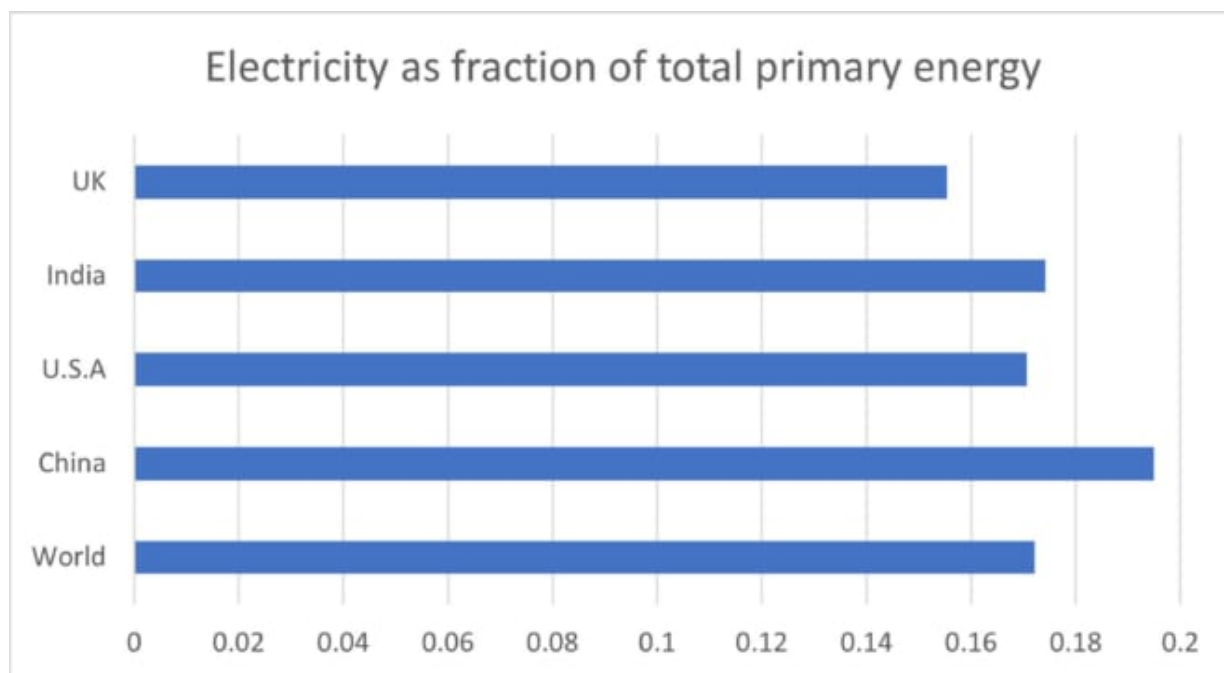
????????BP????1kWh = 860.6kcal = 3.6kJ?IEA????41.5%????0.415??1kWh = 2074kcal = 8.67kJ????0.415????

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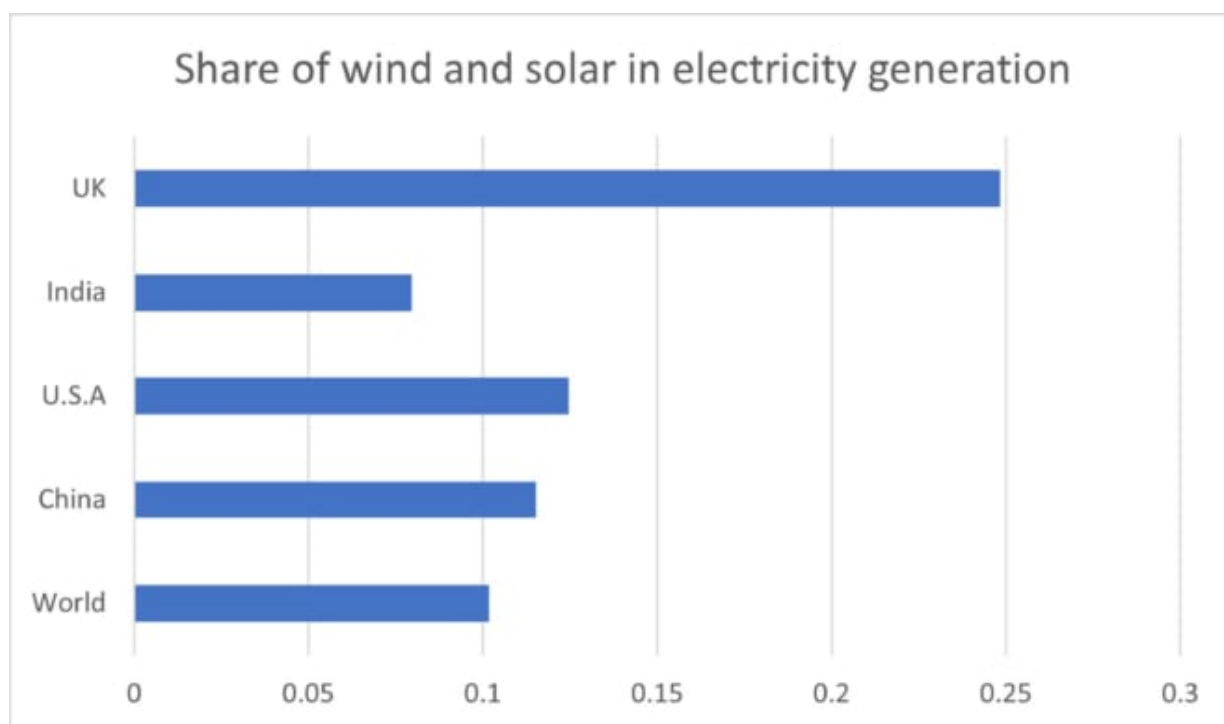
????????1????489.66EJ????105.49EJ??254.19EJ????0.415????2.4????5 95.15EJ??743.85EJ????17.7%?=106.49/595.15????34.2%?=254.19 /743.85????

????????10????2????34.2%????40????



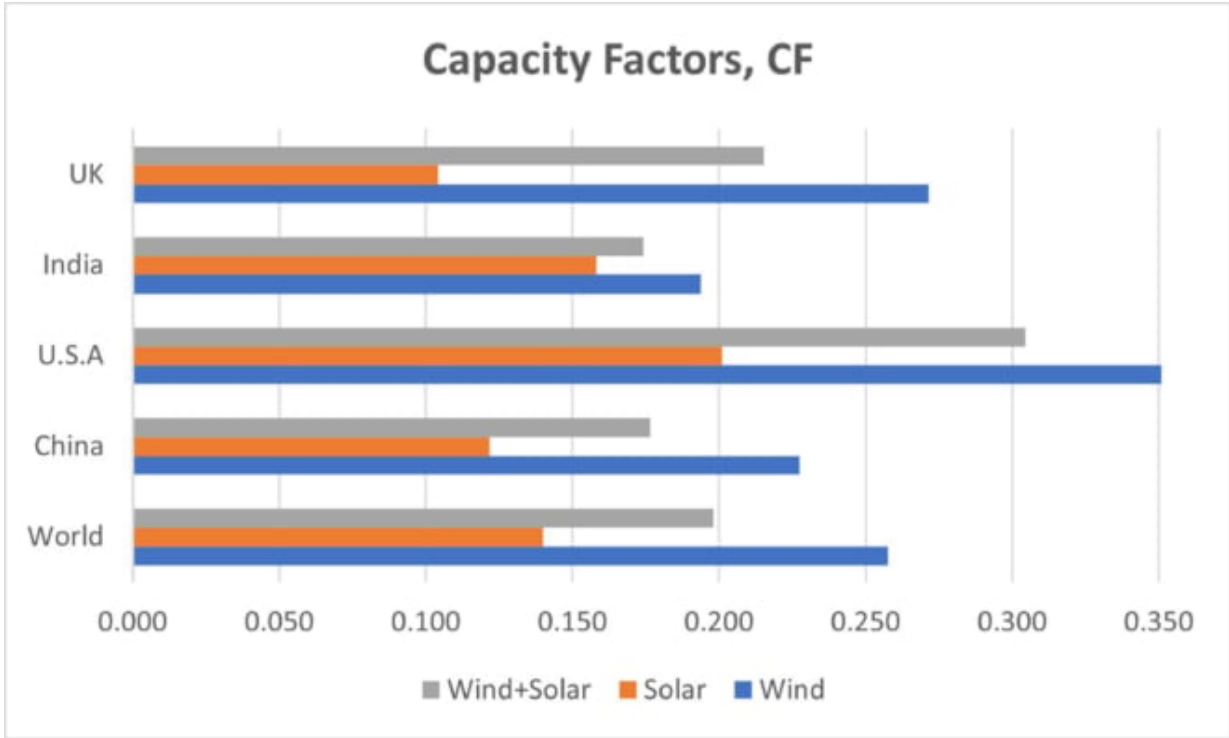
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3?25?10?CO2?



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4? Capacity Factors, CF? 1?



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Posted in ???, ????? | No Comments »

??140????????COP27????????????

?? ?? · Wednesday, November 16th, 2022



fergregory/iStock

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Posted in ???, ????? | No Comments »

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?? ?? · Wednesday, November 16th, 2022



Nebasin/iStock

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

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?? ? · Sunday, November 13th, 2022

TBS YouTube

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alle12/iStock

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?? ?? - Saturday, November 12th, 2022



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

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?? ?? · Thursday, November 10th, 2022



hanibaram/iStock

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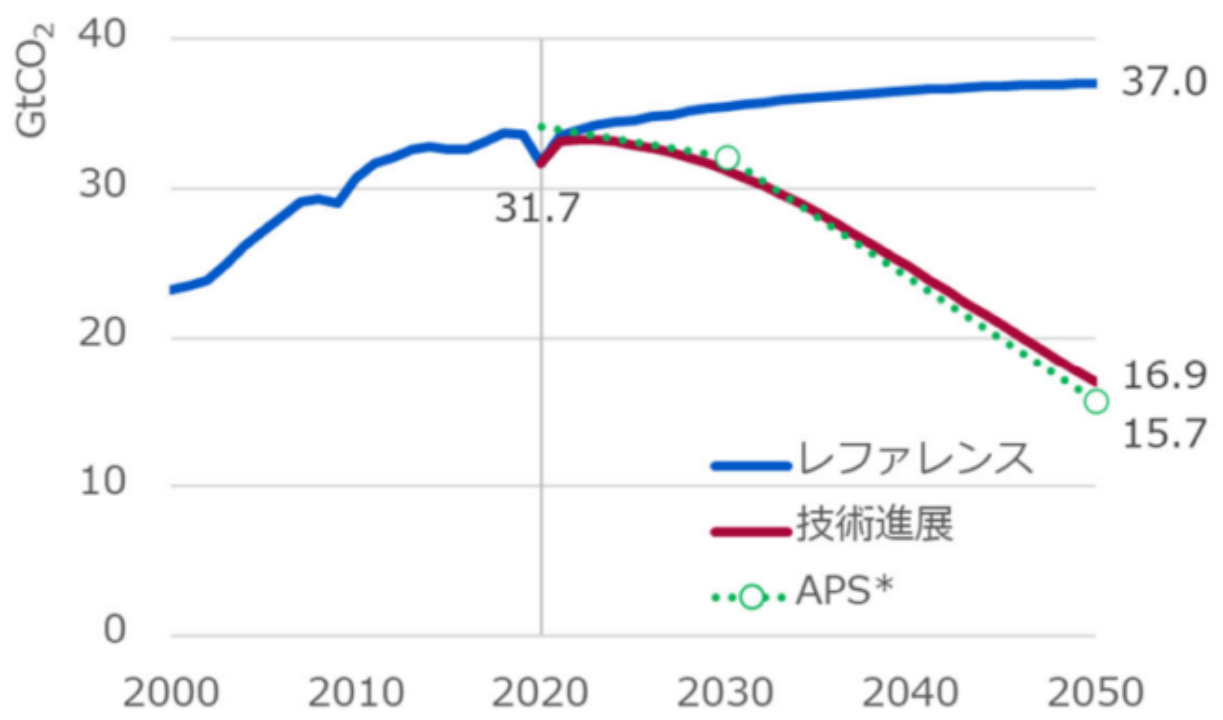
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エネルギー起源CO₂排出量の見通し



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Posted in ???, ????? | No Comments »

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?? ?? · Thursday, November 3rd, 2022



bee32/iStock

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兵研施設で技術者と言葉を交わす金正恩・朝鮮労働党委員長。写真はKCNAが2016年3月配信。

©?Reuters

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

????????COP27

?? ? · Sunday, October 30th, 2022

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Heiness/iStock

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9????????????G20????????????????G7????????????1.5????????????????????????????????
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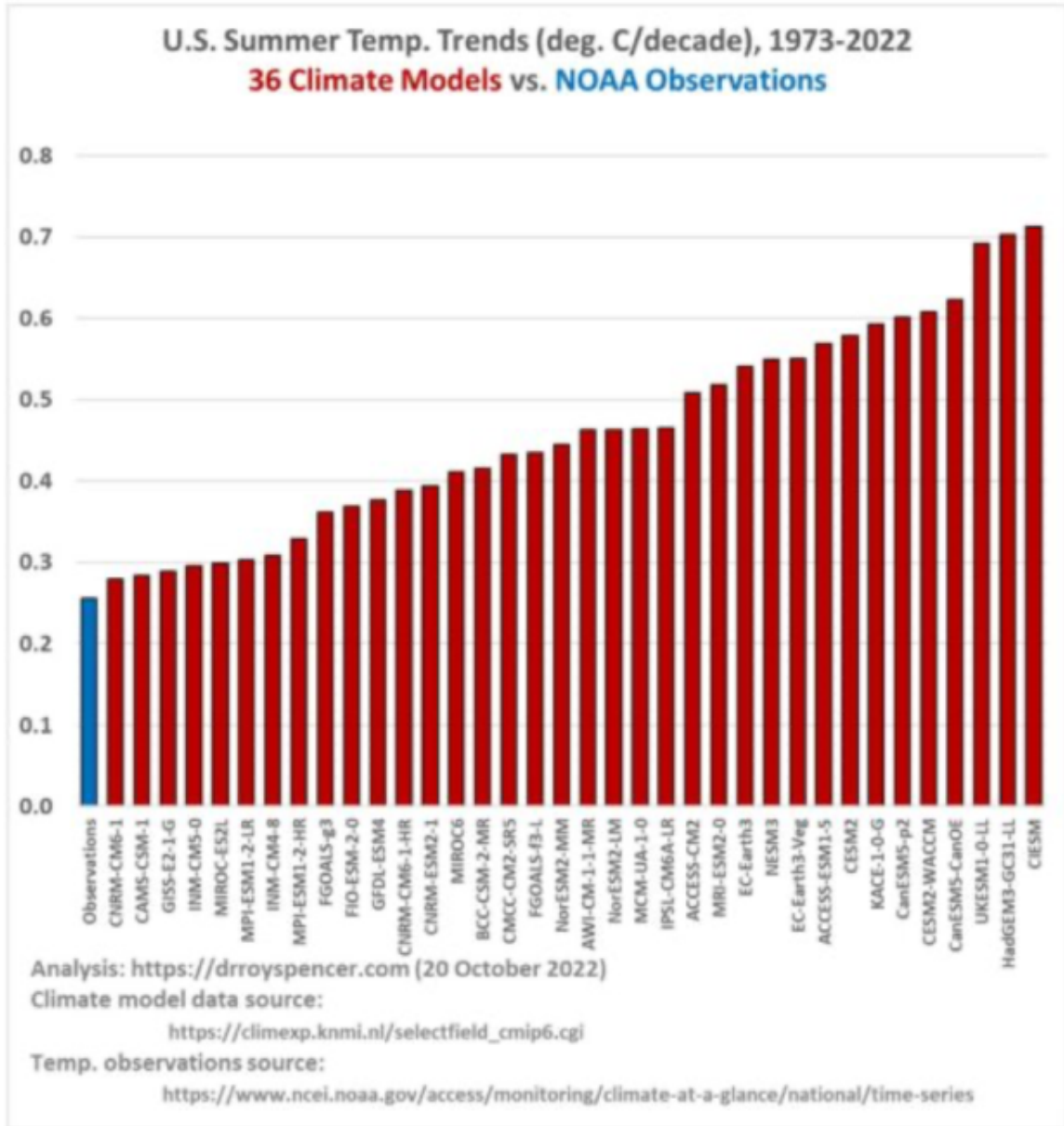
?? ?? · Friday, October 28th, 2022



Tr6/iStock

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Posted in ???, ????? | No Comments »

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

?? ?? · Friday, October 28th, 2022



AleksandrVS/iStock

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ESG??The Epoch Times????????????????????????????

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Research????????????????????ESG????????????????????????????????????
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ESG Watch: Banks' net-zero pledges in the spotlight at Climate Week New York

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**AG Paxton Demands BlackRock Account for its Underperforming, Potentially Illegal ?'ESG'
State Pension Fund Investments**

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????????1860????????ESG????8????????ESG????
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Governor Ron DeSantis Eliminates ESG Considerations from State Pension Investments

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

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?? ?? · Thursday, October 27th, 2022



RapidEye/iStock

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Posted in ???, ????? | No Comments »

2050???????????????????? ?

GEPR??? · Monday, October 24th, 2022

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Parradee Kietsirikul/iStock

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

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G??

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50????GHG??

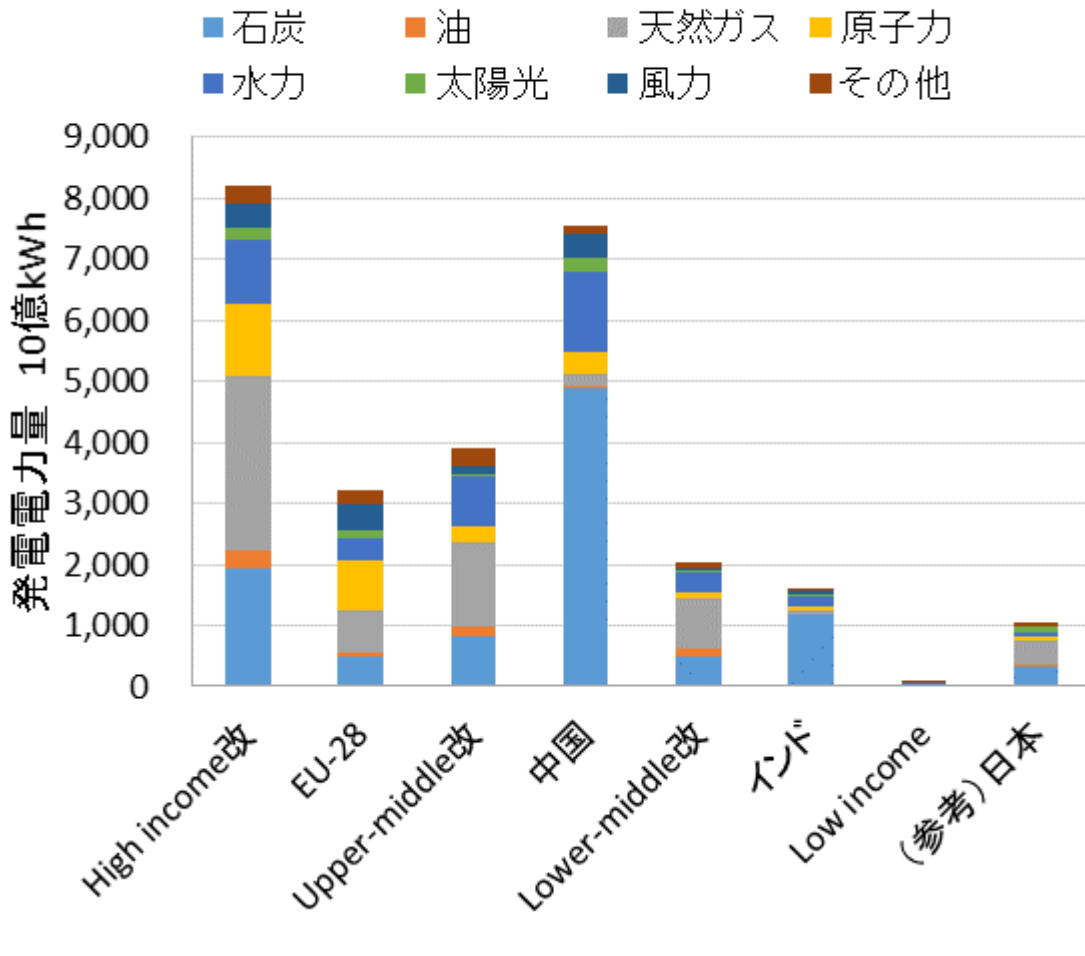
????2050?????????????????? ??

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GHG??-6
?2019??IEA????????????????????????????
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図-6 発電電力量(2019年)

出所:IEAデータベース



26

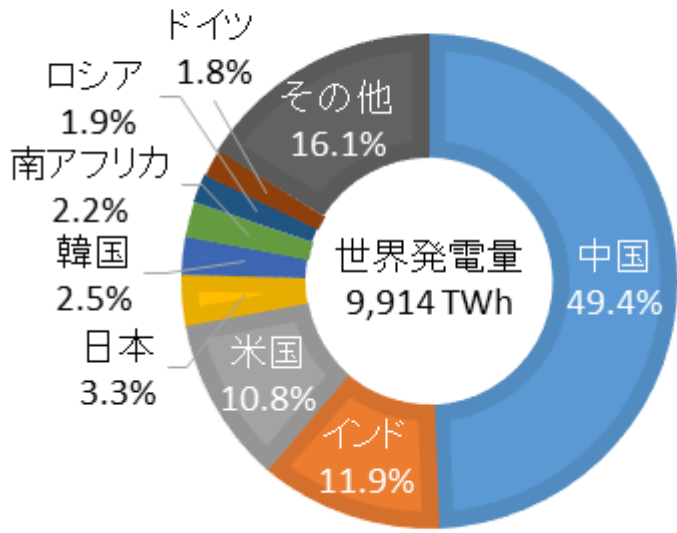
図-6のデータによると、2019年の世界全体の発電電力量は約8,000億kWhであり、そのうち約65%が化石燃料（石炭、油、天然ガス）によって生成されています。これは、2019年の世界のGHG排出量の約65%に相当するものと推定されます。

また、2019年の世界の発電電力量は、2023年の予測値と比較すると、約73%の水準に留まっています。これは、2019年の世界のGHG排出量が、2023年の予測値と比較して、約73%の水準に留まっていることを示しています。

さらに、2019年の世界の発電電力量は、2019年の世界のGHG排出量の約65%に相当するものと推定されます。これは、2019年の世界のGHG排出量が、2023年の予測値と比較して、約73%の水準に留まっていることを示しています。

図-7 世界の石炭火力(2019年)

出所: IEAデータ



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????????31.5% ?????????????????1970 ???
 ???GHG ???EU-28 ?????????????15.4% ??????????????

EU-28 ???????25% ?EU ?????????????????14% ??????????????????BRICs ???
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 ???GHG ??????????EU ?????????????????????????????????

表-2 太陽光発電と風力発電の総電力量比 %

グループ	太陽光発電	風力発電	合計
High income改	2.6	4.6	7.2
Upper-meddle income改	1.0	3.0	4.1
Lower-middle income改	0.8	1.0	1.8
Low income	0.8	0.6	1.4
EU-28	4.1	13.4	17.5
中国	3.0	5.4	8.4
インド	3.1	4.3	7.4
(参考)日本	6.6	0.7	7.3

2

?????????9% ??High income?????-6??GHG??

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??20-30% ???

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

2050???????????????????? ?

GEPR??? · Sunday, October 23rd, 2022

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Khaosai Wongnatthakan/iStock

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income?Lower-middle income?Low income?4?????????????

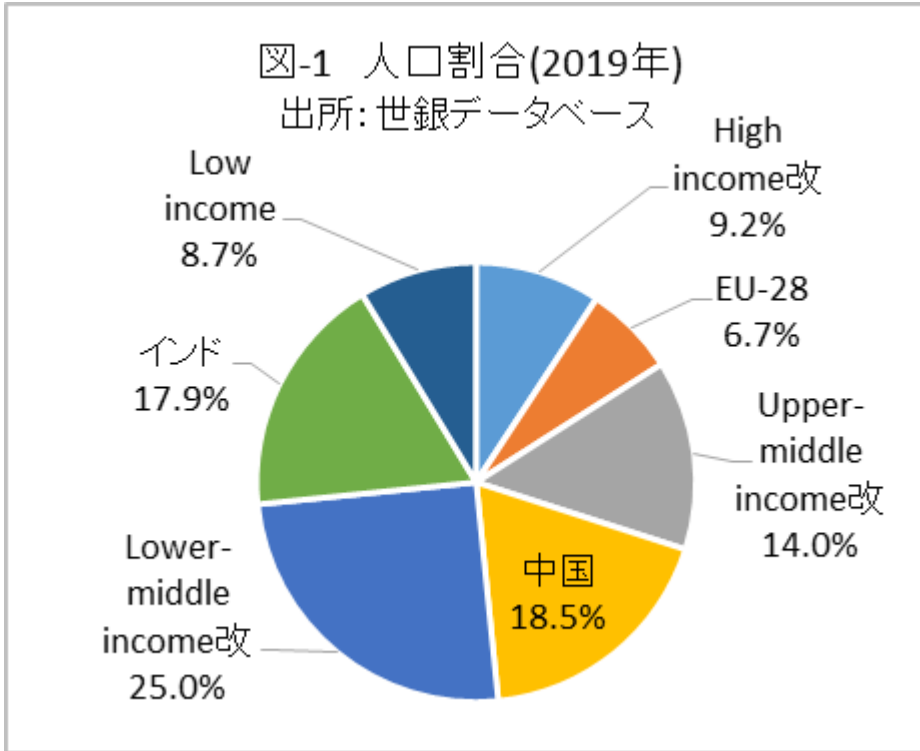
表-1 世界銀行データベース、所得分類 (2021-2022年)

所得グループ	所得範囲 (1人当り名目GNI, US\$)
High income	> 12,695
Upper-middle income	4,096-12,695
Lower-middle income	1,046-4,095
Low income	< 1,046

?????EU-28????????????High income????????????????????High income????????????????????Upper-middle income?Lower-middle income??

????????EU-28????High income????????????????????Upper-middle income?Lower-middle income????????????Low income??

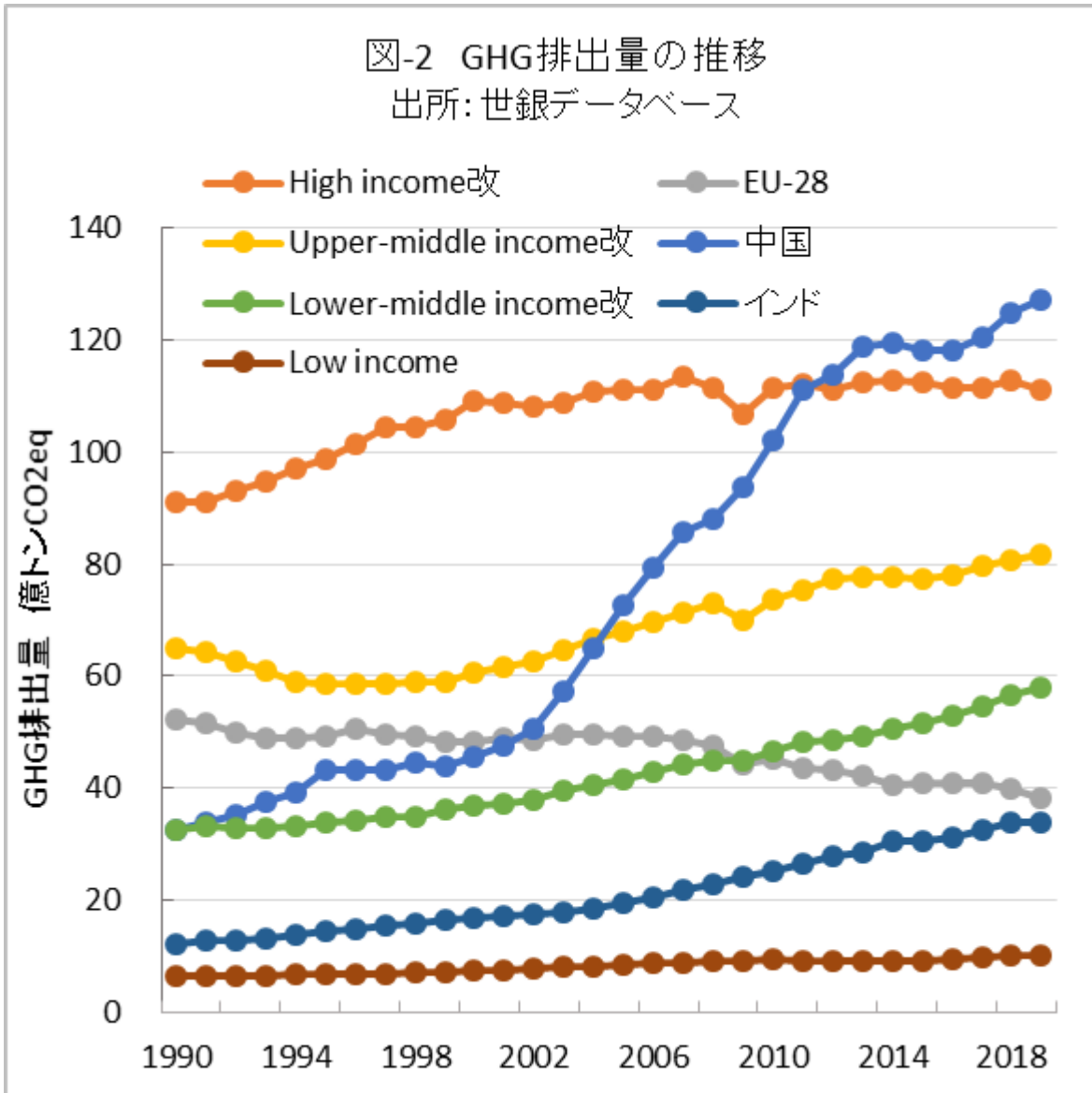
?-1????????????????2019????????????????????????????????????16%????????



?1

?GHG????2/3???????

?-2????????GHG????????????????????????????????????GHG????????????????EU-28?GHG????????????????High income??2010??

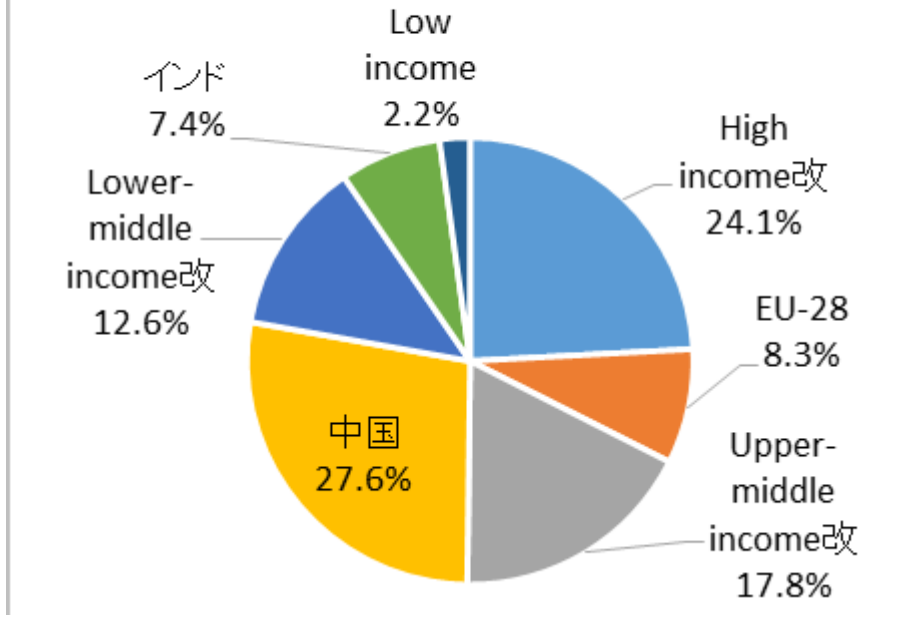


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?-3?2019??GHG????????????????????1/3????????????????2/3????????????????GHG????????????2%??
????????????GHG????????????????????????????

図-3 GHG排出量割合(2019年)

出所: 世銀データベース



23

2050??GHG??????EU-28?GHG????????????GHG??
 ?GHG????????EU????????????????????????GHG????????????????????????EU?????
 ?????????????????????????

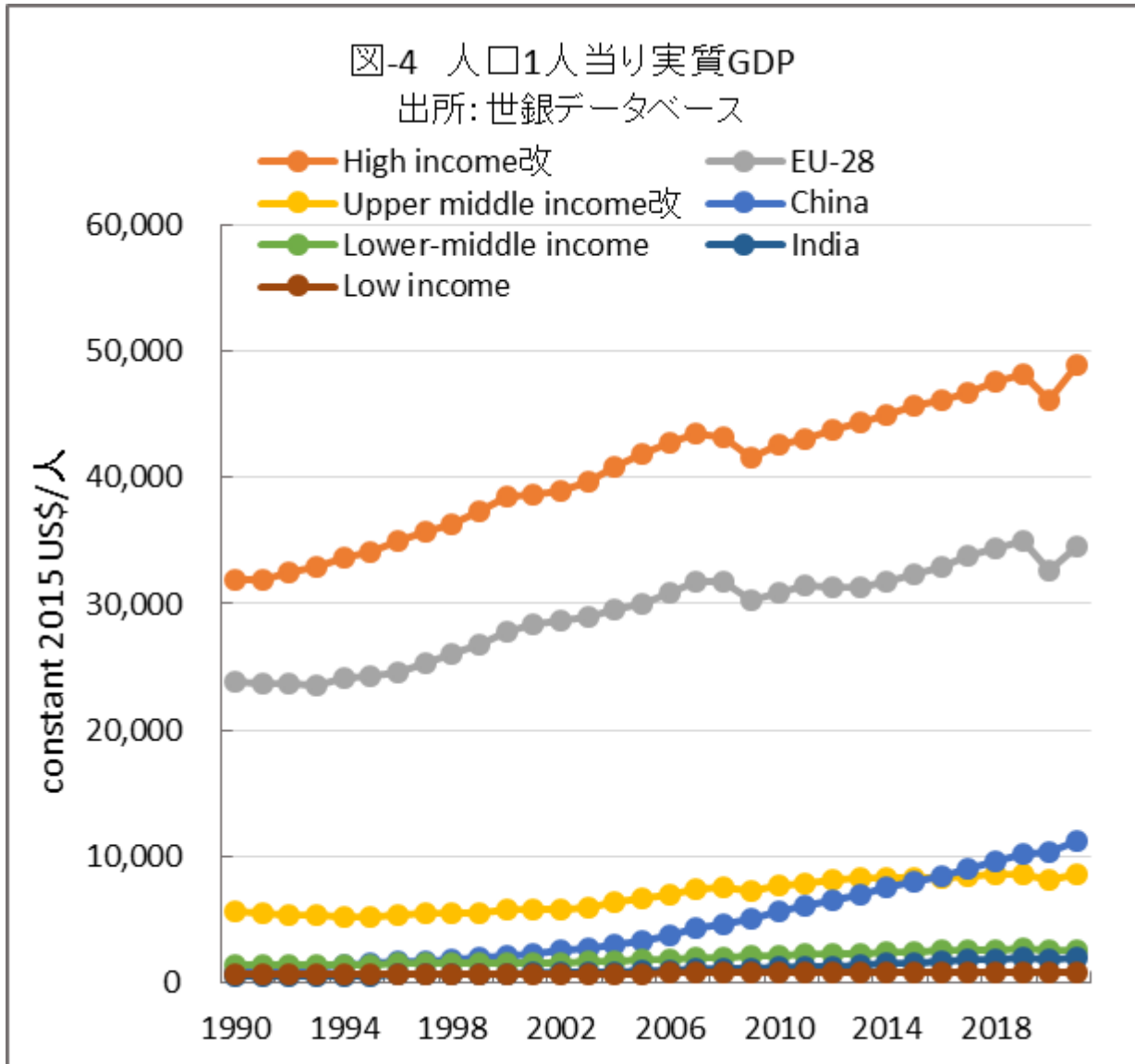
High
 income???2019?GHG??90%?????
 ??????2060?????2050??

??GHG????????????????????????????????
 ??????????GHG????????????????????????

?GHG????????????

2050?????GHG??

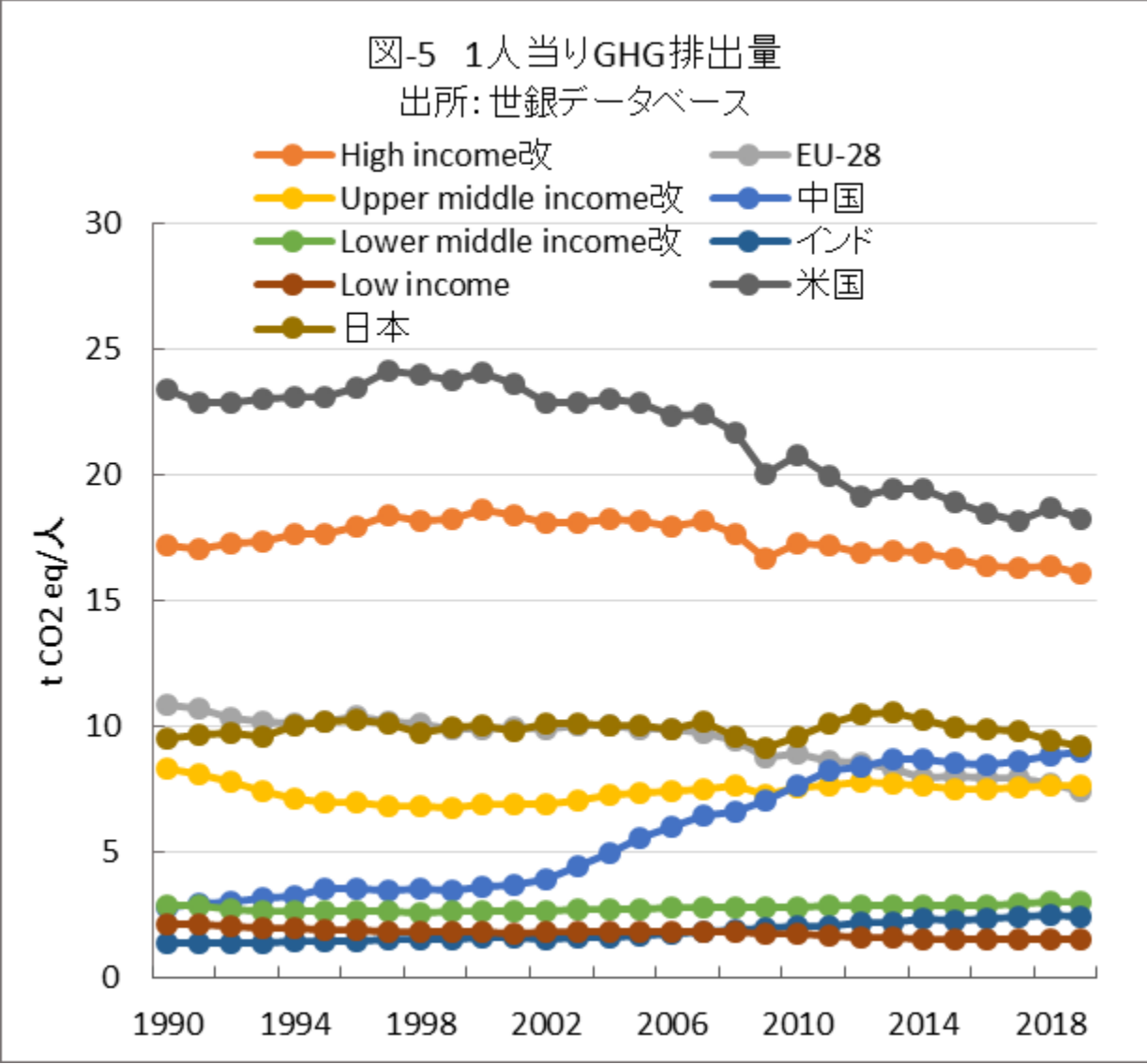
?-4??1?????GDP????????????-1?????????GNI????????????????????????????????????GDP??????G
 DP?GNI????????????????????????GDP?GHG????????????????????1????????????????



24

????????????1???GDP??
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?-5??1?????GHG??



25

GHG????????EU????2019??1????????????Upper-middle
income?EU-28????????????1990???GHG????????????????????EU-28???High
income??GHG?????2????????????????Lower-middle
income????????????GHG????????????????????

??2????????????????????GHG????????????????????

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

????????????????????2050????????1.5????????????????????????????????????

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LewisTsePuiLung/iStock

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NEW – UN Secretary for Global Comms says they "own the science" on "climate change," and opposing viewpoints have now been pushed down in search results through their partnership with Google.<https://t.co/fMaPYsHGUT>

— Disclose.tv (@disclosetv) October 2, 2022

?????9????????????????????WEF??

?Tackling
Disinformation??COVID-19??
????Google??

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- ???
- ?????????????Google??
- ??????????????????????own?????

You Tube??TikTok?????????Team
Halo????????????????????????

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twitter????????Democratic Dictatorship?George Orwell????????????????

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Farm??
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Disinformation????????????????WEF????????????????????COVID-19????????????????????????????
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Posted in ???, ????? | No Comments »

ESG????????3E?S????????????

?? ?? · Thursday, October 20th, 2022



ipopba/iStock

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

??COP26????????????ESG????????????????

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????ESG??

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????????????2021??

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??World Energy Investment 2022, IEA

????????2015????????????????????????????????????25????????????

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??IEA????????Net Zero by 2050????????2050????????????????????????????????1.5????????????????????????????????
????????????????????8????????????????????2050????????????????????2????????2030????????3????????????
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????????2050??IEA?21????????World Energy Outlook
2021??STEPS????????2030????????????????????
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ESG?

ESG
ESG

Economy
Environment
Energy
Security
Security
ES

ESG

ESG
E

Social
S
Sustainability
ES
ES

ESG 2.0

ESG
ESG
ESG

2050
2030

ESG
ESG
ESG

ESG
80

10
ES

ESG

ESG
ES
ESG 2.0

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

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?? ?? · Thursday, October 20th, 2022



1?2050????????????2030??
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2??

3??4?10?25??

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??2022?2??
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MadamLead/iStock

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??21????????
????????????ESG????????????????????...????2022?10??
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?SDGs??

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

11??COP27????????????????????????????????????

?? ?? · Sunday, October 16th, 2022

11?6??????11?18??27????????COP27??????????

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Asiya Hotaman/iStock

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????????????COP26??/????????????????

??????COP27????????????COP27??

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COP26??

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Reuters????????????????????????????????????Africa Oil Week 2022 Conference????????????????

- ?????????????????????COP27??
- ?????????????????????????????????????1??
- ???
- ???6????????????????10????????

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

2021?4????????????????????????????????????COP26????UNFCCC Race to Zero????????????????????????????????????GFANZ????????

GFANZ????????45????????500????????????????????GFANZ????????????Race to Zero????????????????

????COP27????GFANZ????????????????????

??Climate Change Dispatch????????????JPMorgan Chase, Morgan Stanley, Bank of America????????????????????????????????GFANZ????????????????????????????????

U.S. Banks Threaten To End Support For UN Climate Edicts Over Legal Risks – Climate Change Dispatch

?GFANZ??GFANZ????????????????

????????????????????2050??

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

??JPMorgan Chase
????????????CEO??

????CEO??
????????????????????????????????CO₂????????

‘Road to hell for America’: JP Morgan CEO snaps back at Rep. Tlaib on fossil fuels

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COP??26????COP????????????
??CO₂??????

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26??CO₂????????????????????????

CO₂??
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??COP27????????????????????

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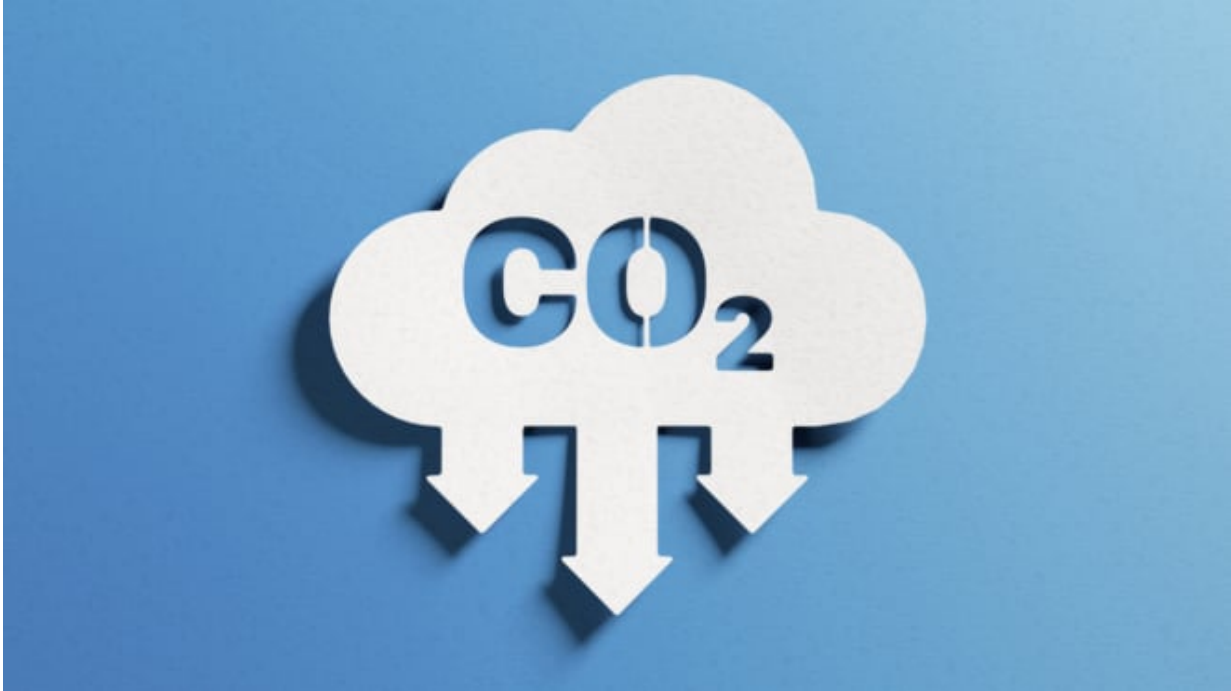
Posted in ???, ????? | No Comments »

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?? ?? · Tuesday, October 11th, 2022

??2030????CO2????????????????????????
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NicoElNino/iStock

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????2030????CO2????2000??2000????CO2????5775?????
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1. 2000????2030????CO2????????????????????????2030????????????????????????CO2????????????????????
2000????2030????????????????????????????????
2. ?????????????????????????????????CO2????????????????????????????CO2?1????????????????0.5????
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3. ?????????????2030????1??100??1????????
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4. ???

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1. ?????????????CO2????????????
????????????CO2????5775????×31=17.9??????

- ??????????CO2??????5775??×31×3÷4=13.4?????
- ??????????CO2??????5775??×31×1÷4=4.48?????
2. ?????4.48×0.5÷10000=0.00022???
3. 100????????100×0.00022×0.06=0.0013?????

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1. 4.5????
2. 0.00022??
3. 0.0013??
4. ???1????CO2??????0.5????????
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1. ?????????????????????

■エネルギー起源CO₂排出量

各部門が、それぞれ現状（2019年）から半減を目指すものとして提示（ただし、現状までに大幅削減の部門は考慮）

(単位：万t-CO₂eq)

	2000年 (基準)	2019年 (現況)		2030年 (目安)			東京都 環境基本計画 (現行) (2000年比)
	排出量	排出量	2000年比	排出量 (目安)	部門別目標 (2000年比)	2019年比	
産業・業務部門	2,727	2,763	1.3%	1,381	約50%程度削減	▲50.0%	20%程度削減
産業部門	679	381	▲43.9%	222		▲41.8%	
業務部門	2,048	2,382	16.3%	1,159	約45%程度削減	▲51.3%	(20%程度削減)
家庭部門	1,283	1,612	25.6%	728	約45%程度削減	▲54.8%	20%程度削減
運輸部門	1,765	940	▲46.7%	612	約65%程度削減	▲34.9%	60%程度削減
エネルギー起源CO ₂ 計	5,775	5,315	▲8.0%	2,721		▲48.8%	

(参考)

廃棄物部門 計	120	190	58.3%	137	2017年比 40%削減 ※1	▲27.9%	
その他ガス (フロン等) 計	325	706	117.2%	252	2014年比 約65%程度削減 ※2	▲64.3%	
温室効果ガス排出量 合計	6,220	6,211	▲0.1%	3,110		▲49.9%	

※ 1 家庭と大規模オフィスビルからの廃プラスチック焼却量の削減目標

※ 2 代替フロン (HFCs) の削減目標

2030?????????????????????? 2022???

2.

??CO2????????????????????IPCC????????????????????????????????CO2???1
000GtCO2?????1???CO2????????????0.5??????????????

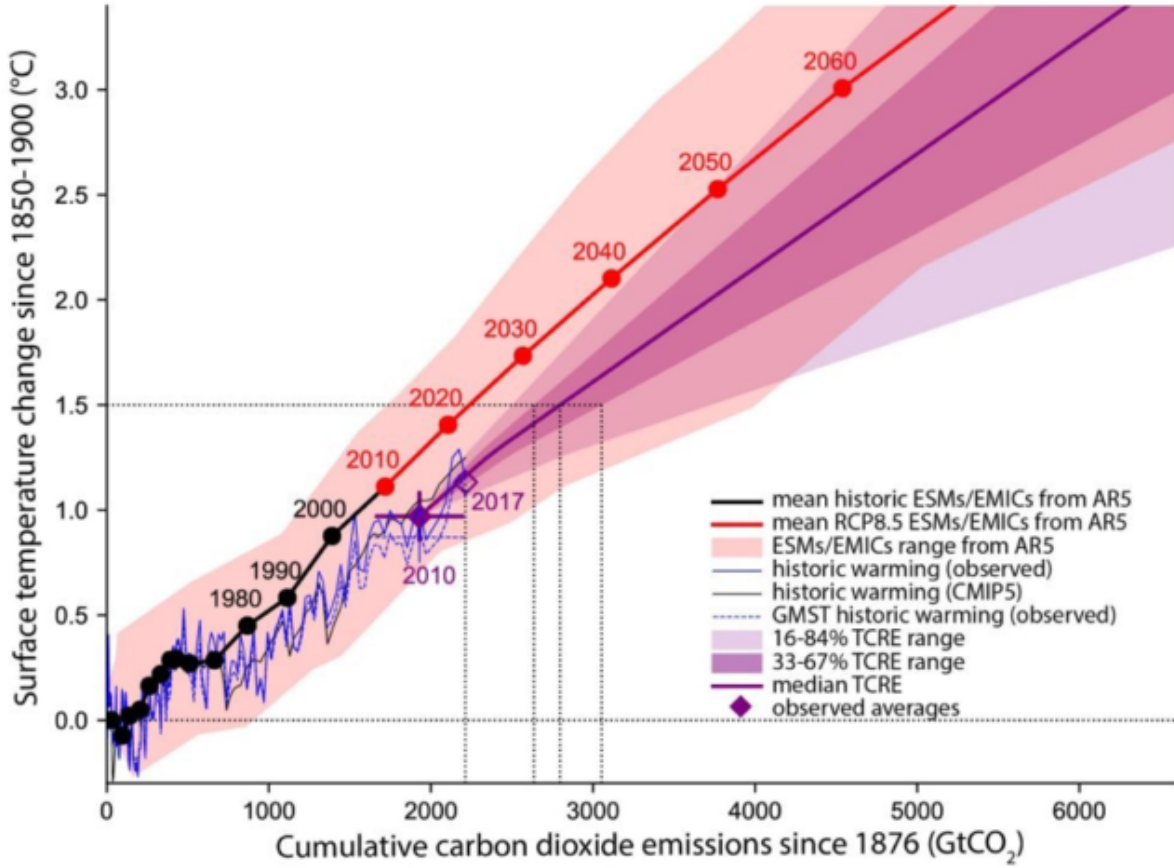


FIGURE 2.3 Temperature changes from 1850–1900 versus cumulative CO2 emissions since 1st January 1876.

??IPCC

3.???

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Posted in ???, ????? | No Comments »

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?? ?? · Monday, October 10th, 2022

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3????????????????1000?????????....??????12????????????????????



??3????????????1000?

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y-studio/iStock

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?SDGs??

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

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?? ?? - Sunday, October 9th, 2022

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Time????TIME/??
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bee32/iStock

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allanswart/iStock

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

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?? ?? · Tuesday, October 4th, 2022



Daniele Mezzadri/iStock

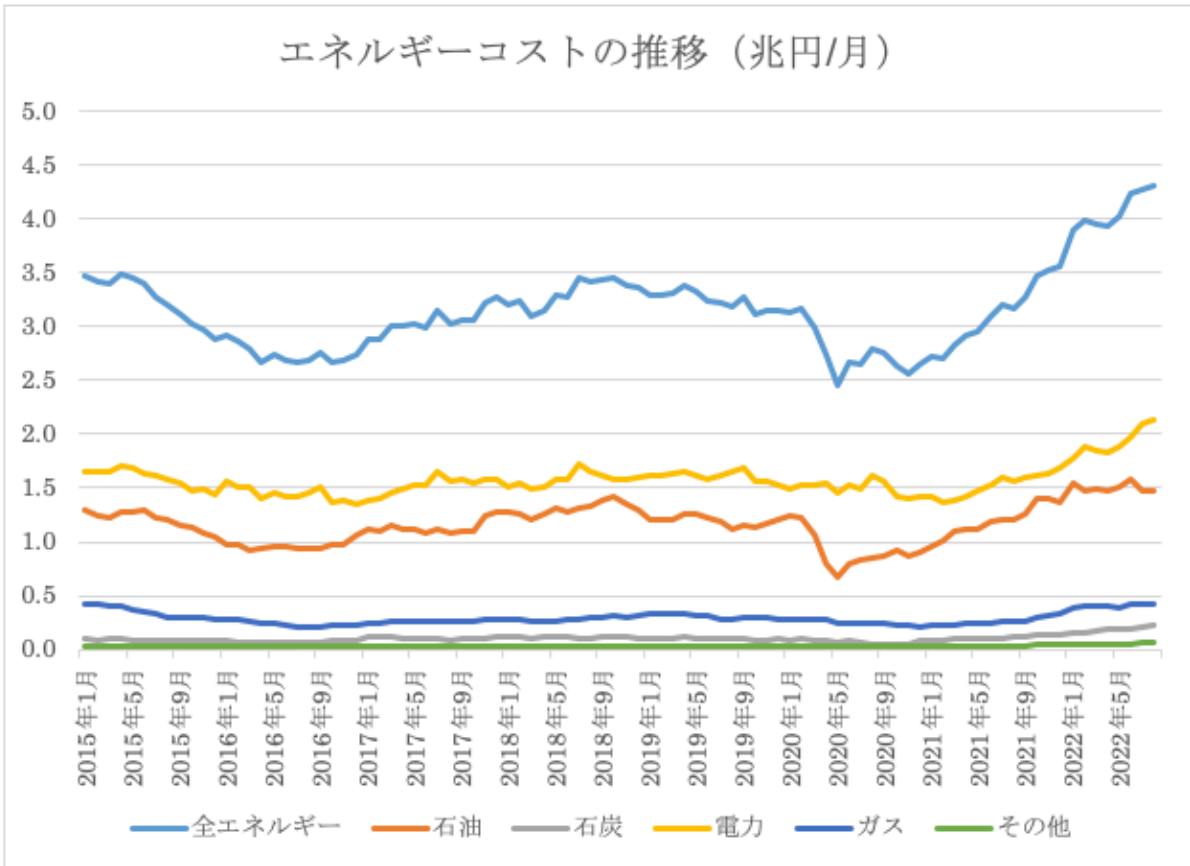
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Posted in ??????????, ??? | No Comments »

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?? ?? · Monday, October 3rd, 2022



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

????????SRZ1200????

?? ?? · Sunday, October 2nd, 2022

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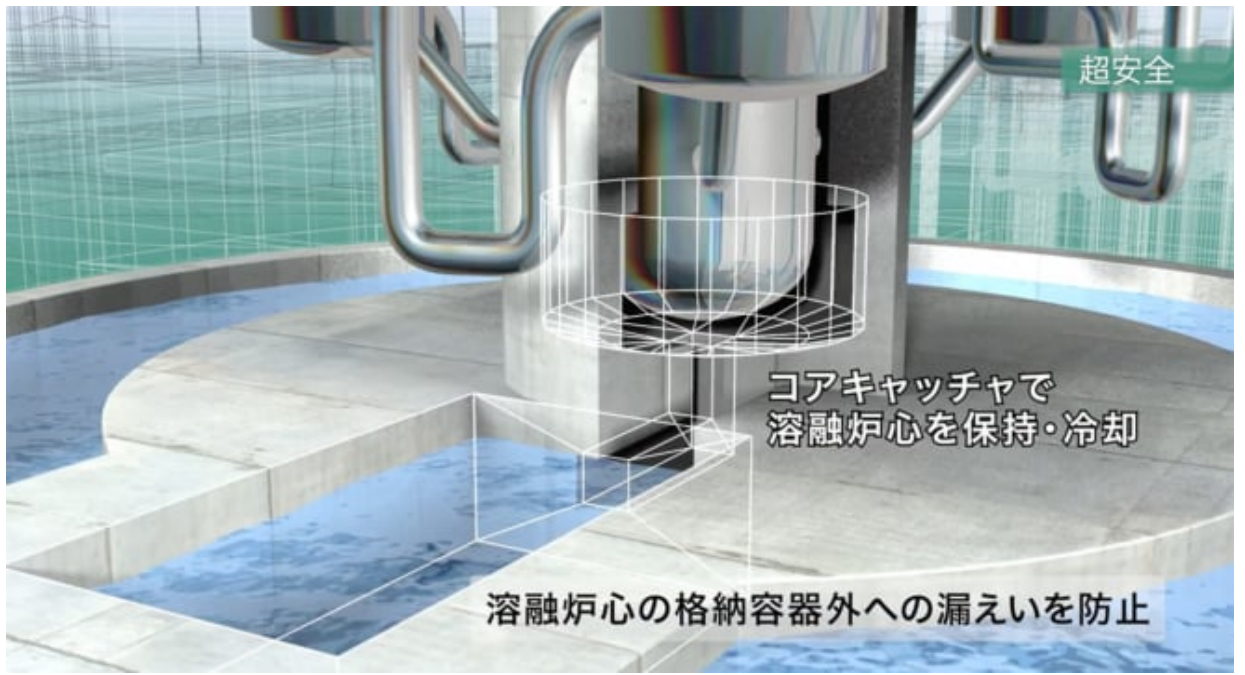
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??????929????????????????????????????????4????????????????????????????????????2030????????????
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SRZ1200?????

S????Super-safe????????????Sustainability?R????(Resilience)???Z????????Zero-Carbon??????????

1200????????????????????120kW??
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DiscoverMHI (Mitsubishi Heavy Industries, Ltd.)??

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

NHK????????????????????????????

?? ?? · Sunday, October 2nd, 2022



???NHK??
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?2020??CO₂????????????

??28.4??14.7??6.9??4.7??3.2??2.1??1.8??3.7??

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??2050??1.5????
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2021??8??2030????????????????????????????2030????????????1kW
h????8.2??11.8??

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? ii)???????????????????? iii)??

???LCOE??
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???JP????????????????????CEO??

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??2015????????????????????????????????
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Twitter??

10 NHK

record 1.5 NHK

NHK 1.5

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NHK NHK

1.5°C

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1.5?????	1.5????????????	1.5????????????
46?????	46????????????	46????????????
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?1??1.5??2030?46????????????????2050????????????????1.5??
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????????2030????45????????????????????2030????????????????CO2????????????2030????????????

?1.5??ASEAN????????1.5????????????????????????????
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?2????????????????2000??4????????????????
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??kwh??29?36????????????
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?100????????????????????

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

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

?? ?? · Thursday, September 29th, 2022

2050????????2030?CO2??ESG????
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???ESG?S??????????????
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???ESG?S??????????????
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?ESG???ESG?S??????????????
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???ESG????????????????????????

?????2021?10?22???A?????agricultural, solar and garment
sectors??3????????????????????????2021.11.04??????????

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

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

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?? ?? · Monday, September 26th, 2022

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

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small smiles/iStock

????2030????????????4??1????????????56?????1?????100????????????48??
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NV??9????????????????????????????????OCI????????????????????
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Posted in ???, ????? | No Comments »

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?? ?? · Saturday, September 24th, 2022



halbergman/iStock

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8?16??

??3.5????????????Build Back
 Better(?????)????????????????????????????????????10????7370????????4370????????????????????????3690
 ?????52??

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??2030????????2005????????????????40????????????
 ???CO2????????????????????2030????25????????
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??50?52????????????????????????
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米インフレ抑制法の気候変動対策支出内訳

(¥140/\$)

	億ドル/10年	億円/10年
グリーン電力投資・生産税控除	1,603	224,420
再エネ	651	
CCS	32	
原子力	300	
技術中立	621	
クリーン燃料税控除	234	32,760
クリーン自動車税控除	155	21,700
自家用車(最大\$7500/台)	89	
商用車	36	
郵便公社	30	
クリーン製造業税控除	403	56,420
多排出事業者向け補助金	95	13,300
建築物グリーン化補助金	453	63,420
農業再エネ化支援	126	17,640
気候対策農業支援	153	21,420
その他	293	41,020
	3,515	492,100

(7月27日CBO分析ベース:成立法とは異なる)

出典: 電力中央研究所 上野貴弘氏レポート <https://criepi.denken.or.jp/jp/serc/discussion/22007.html>

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