

Global Energy Policy Research | GEPR

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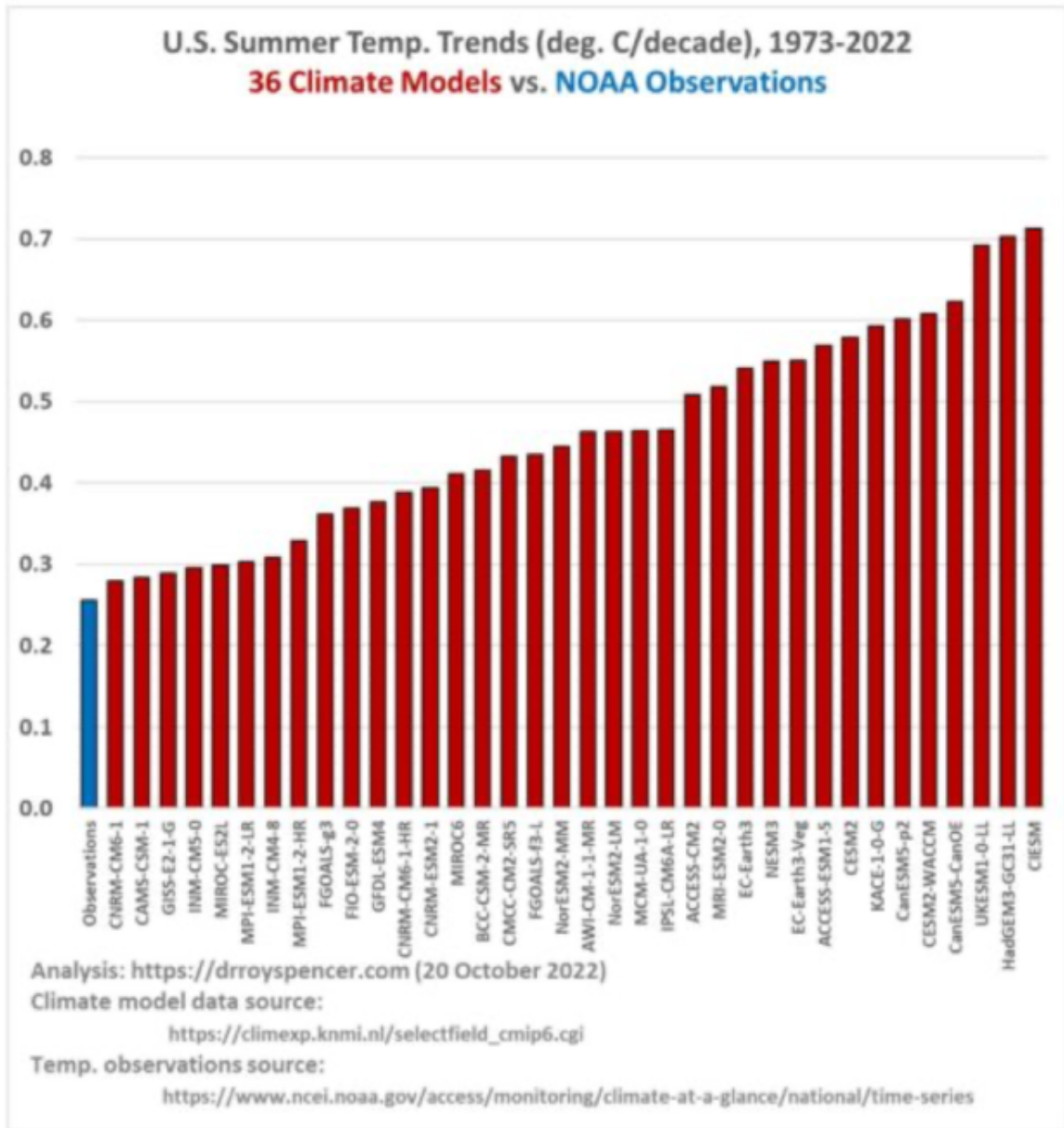
?? ?· Friday, October 28th, 2022



Tr6/iStock

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??50??6??8??



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Posted in ???, ????? | No Comments »

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

?? ?? · Friday, October 28th, 2022



AleksandrVS/iStock

??21????????????????ESG????????????????????

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

??19??????NZBA????????????????????

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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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????UBS????????????????????700????585????????

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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??????

??GHG
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50????GHG??

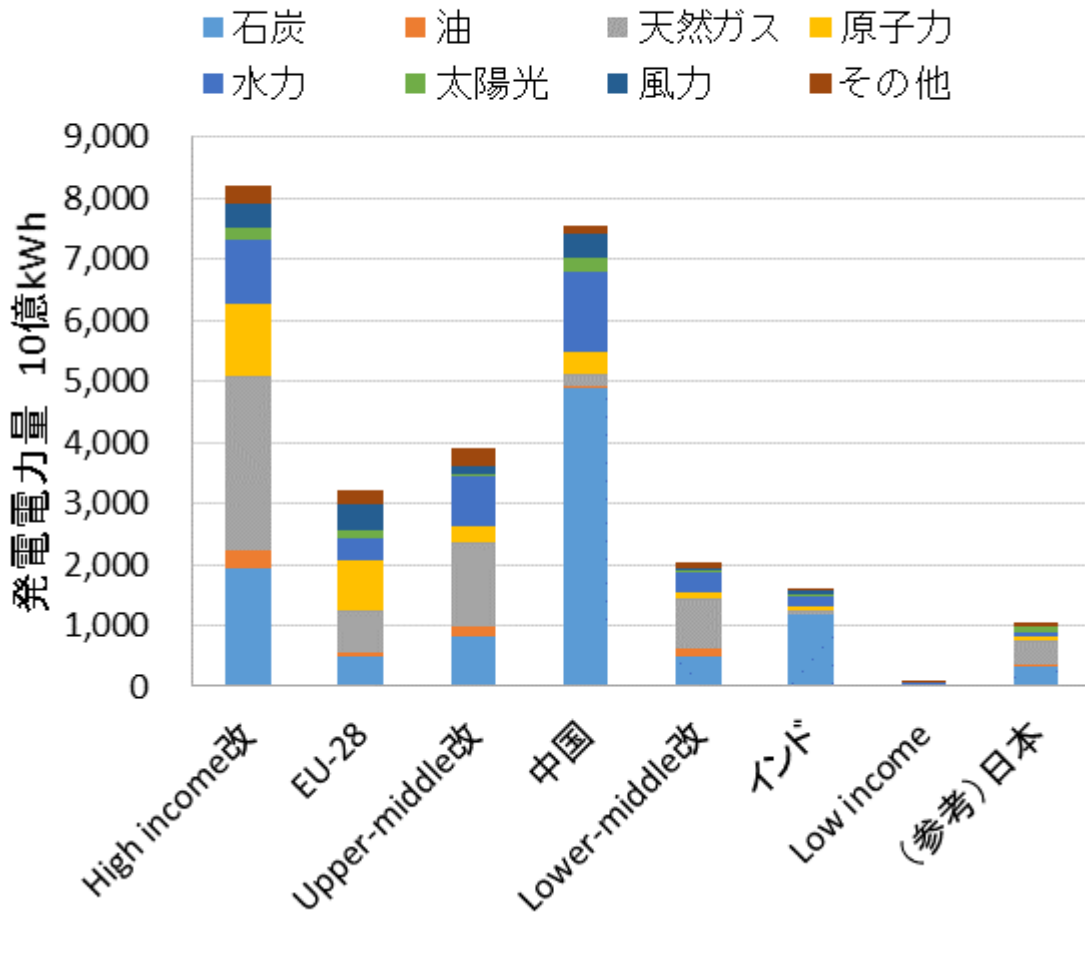
????2050?????????????????????? ??

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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



76

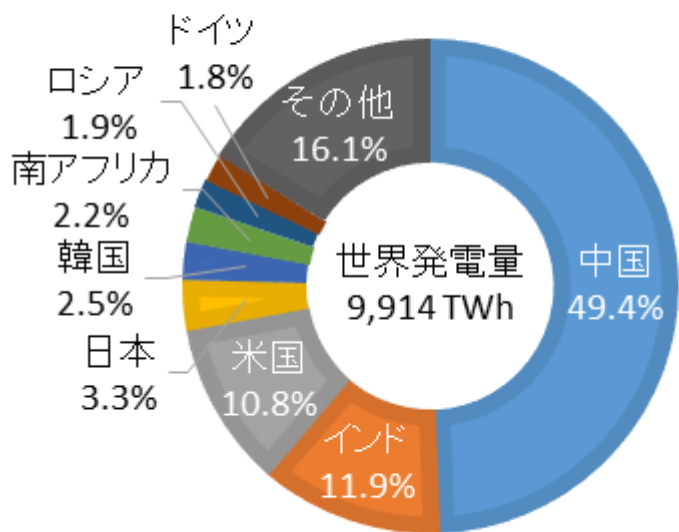
図-6のデータによると、2019年の発電電力量は、高所得国改が最も高く、約8,200億kWhに達しています。これは、天然ガスと水力の貢献が大きいです。中国は約7,500億kWhで、水力が主要な電源です。EU-28は約3,200億kWh、Upper-middle改は約3,800億kWh、Lower-middle改は約2,000億kWh、インドは約1,500億kWh、Low incomeは約100億kWh、(参考)日本は約1,000億kWhです。

2019年の発電電力量は、高所得国改が最も高く、約8,200億kWhに達しています。これは、天然ガスと水力の貢献が大きいです。中国は約7,500億kWhで、水力が主要な電源です。EU-28は約3,200億kWh、Upper-middle改は約3,800億kWh、Lower-middle改は約2,000億kWh、インドは約1,500億kWh、Low incomeは約100億kWh、(参考)日本は約1,000億kWhです。

2019年の発電電力量は、高所得国改が最も高く、約8,200億kWhに達しています。これは、天然ガスと水力の貢献が大きいです。中国は約7,500億kWhで、水力が主要な電源です。EU-28は約3,200億kWh、Upper-middle改は約3,800億kWh、Lower-middle改は約2,000億kWh、インドは約1,500億kWh、Low incomeは約100億kWh、(参考)日本は約1,000億kWhです。

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

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

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??GHG??capacity factor????????????

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??2??% ?? ???20-30% ???

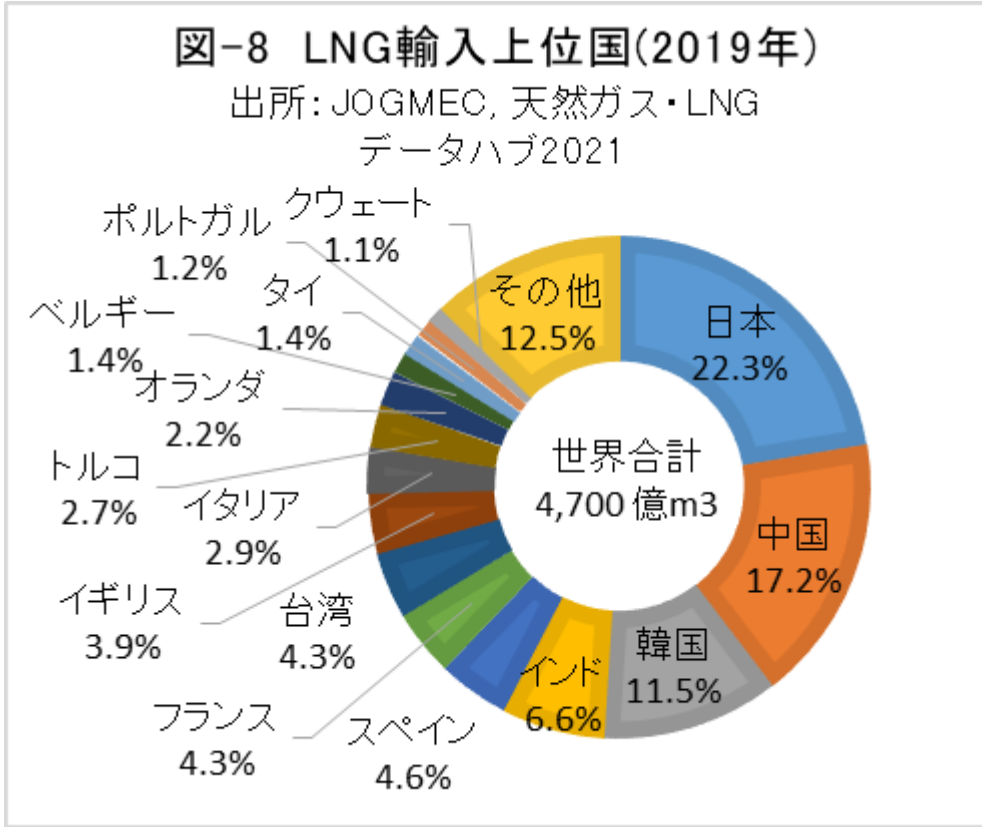
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????????????????????????GHG??Upper-middle income??Lower-middle income??

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LNG??LNG????????????????LNG?????????8?L
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?8

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Khaosai Wongnatthakan/iStock

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??210????????????????????????????????????1????????????????????High income?Upper-middle 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)

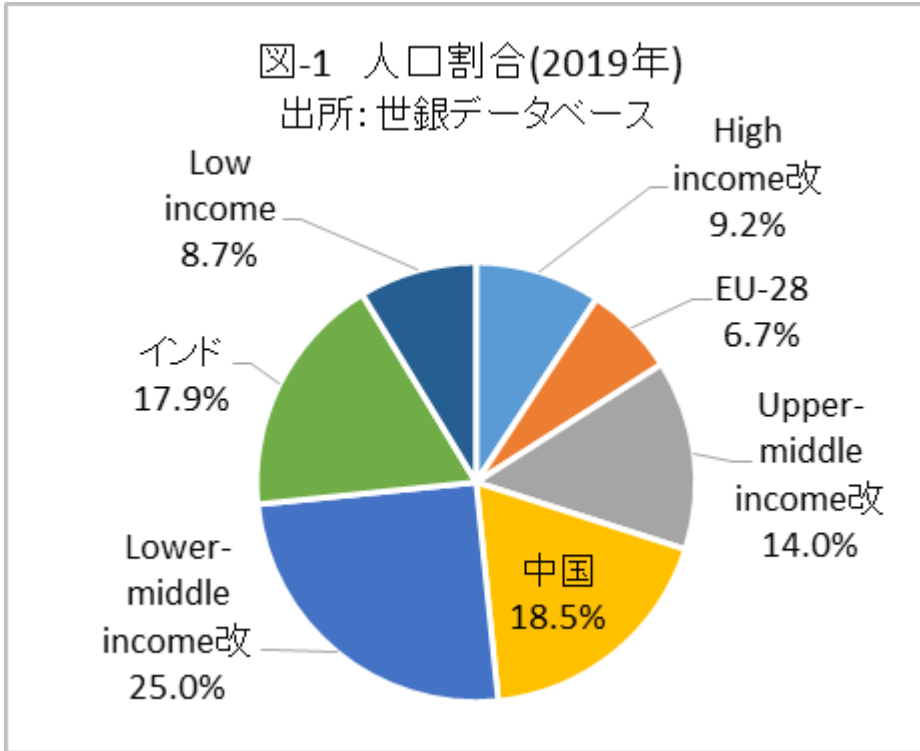
所得グループ	所得範囲 (1人当り名目GNI、US\$)
High income	> 12,695
Upper-middle income	4,096-12,695
Lower-middle income	1,046-4,095
Low income	< 1,046

?1

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

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

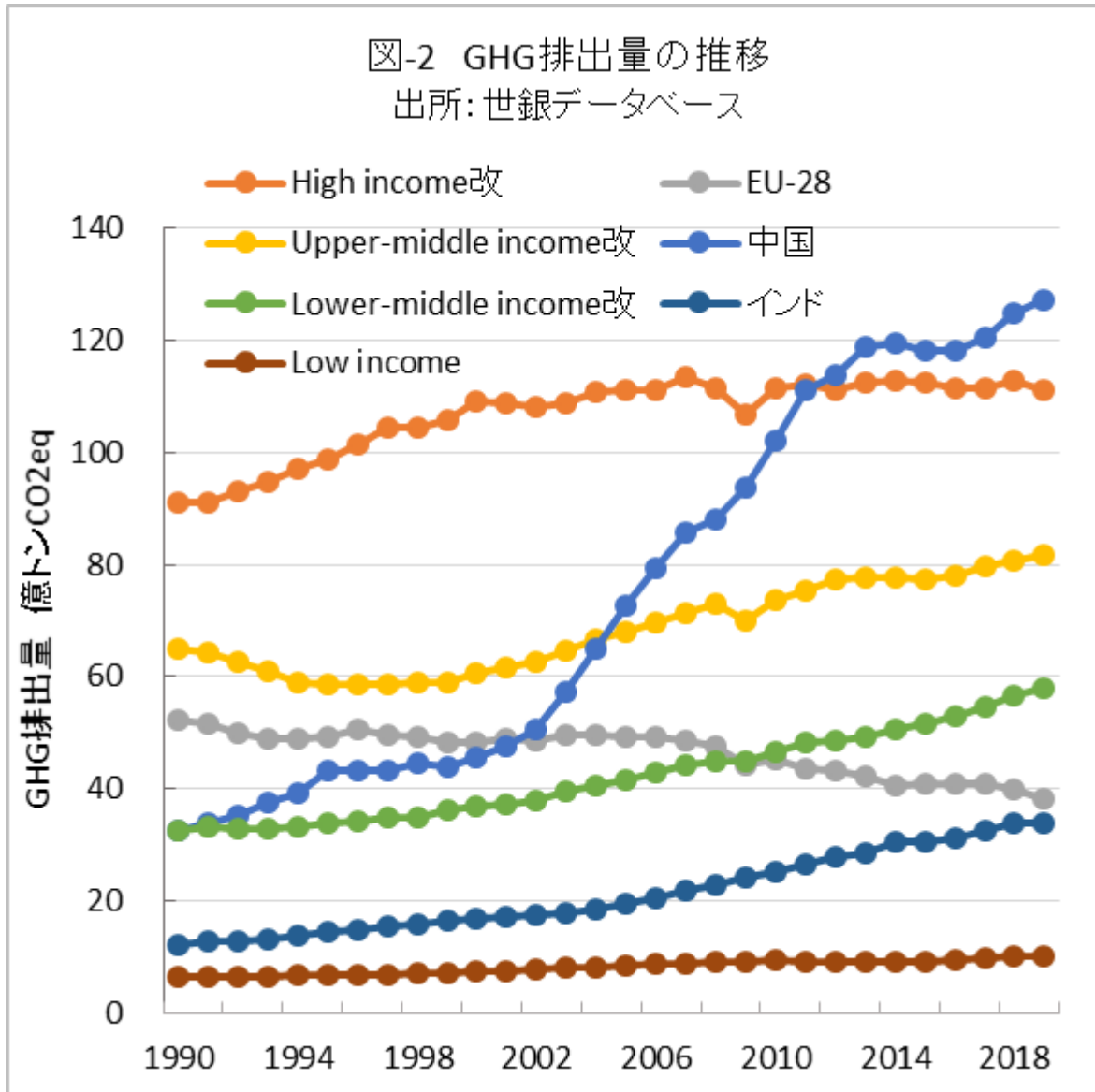
?-1????????????????2019????????????????????????????????????16%????????



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

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

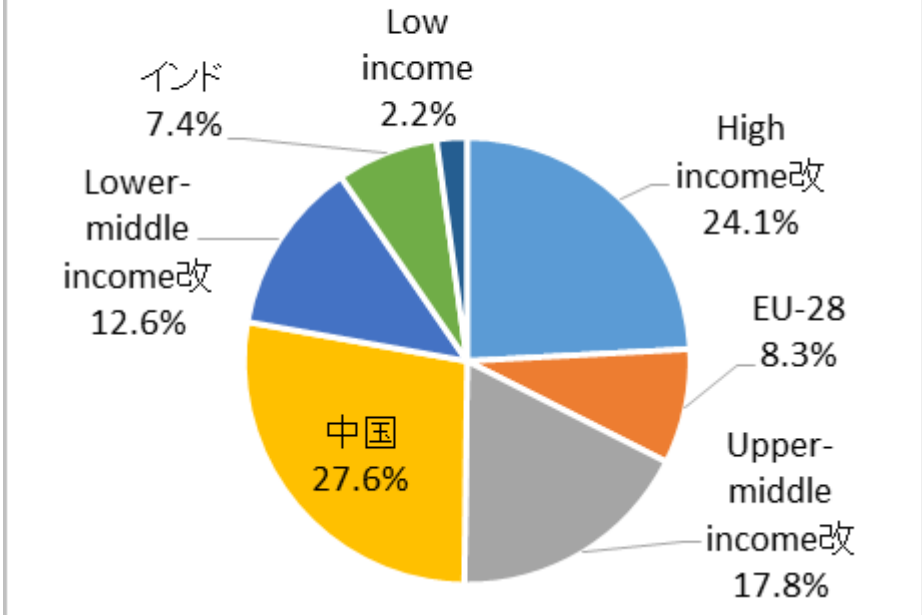


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?-3?2019??GHG????????????????????1/3????????????????2/3????????????????GHG????????????2%??
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図-3 GHG排出量割合(2019年)

出所: 世銀データベース



23

2050??GHG??????EU-28?GHG????????????GHG??
 ?GHG??????????EU??GHG????????????????????????????????
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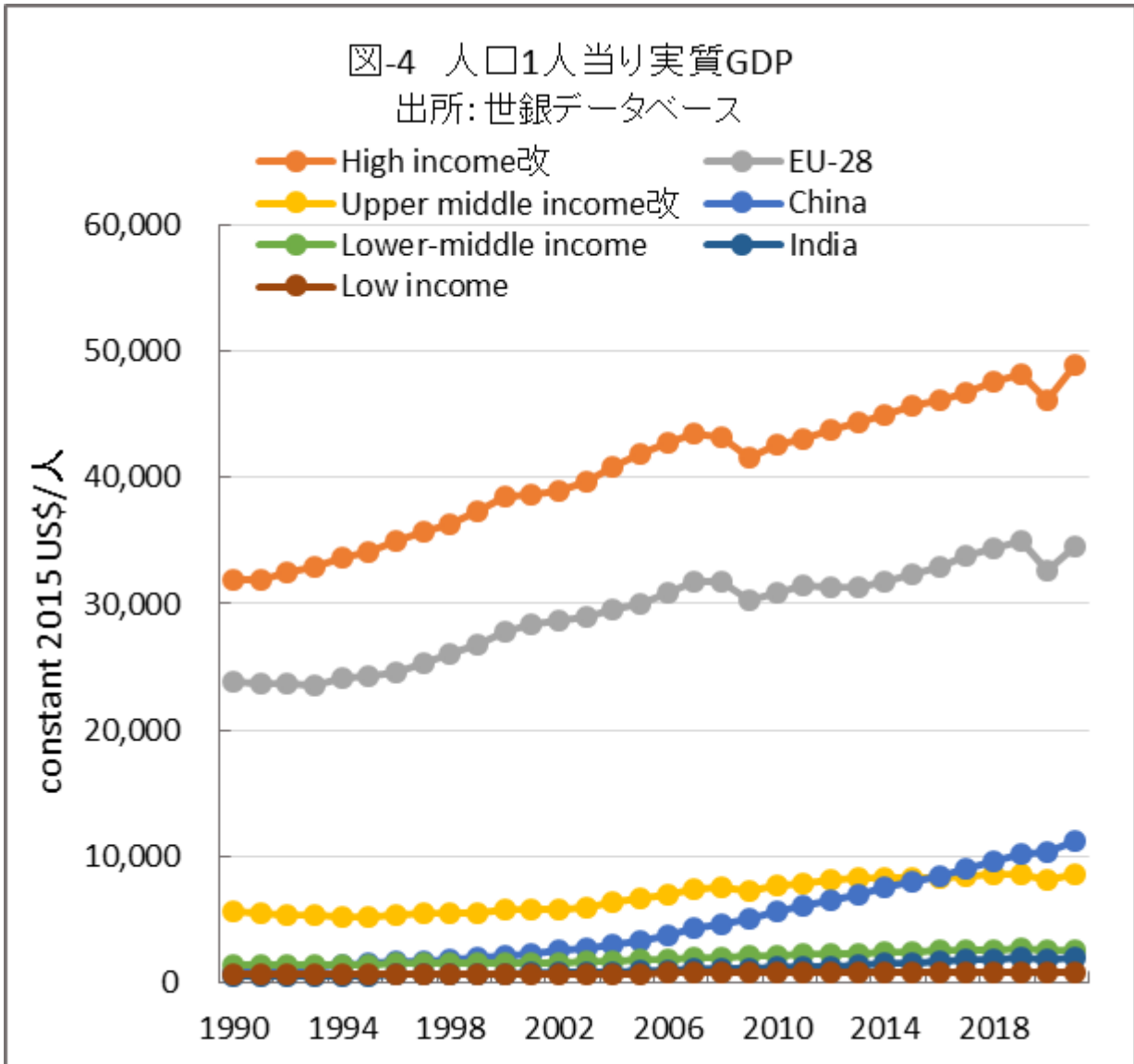
High
 income???2019?GHG??90%?????
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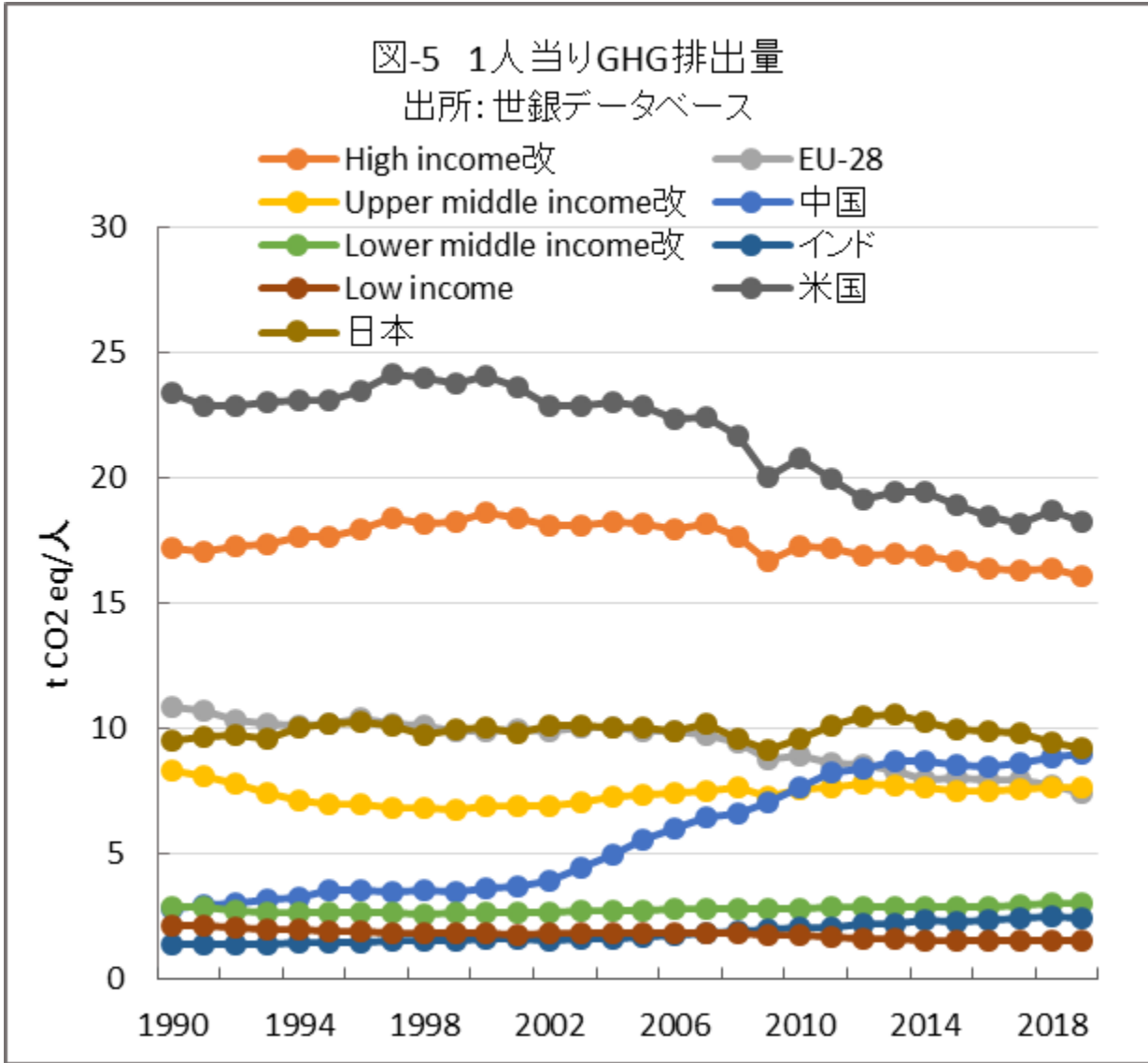
?-4??1?????GDP?????????????-1?????????GNI??GDP????????G
 DP?GNI?????????????????????????????GDP?GHG????????????????????????1????????????????????



24

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GHG????????EU????2019??1????????????Upper-middle
income?EU-28????????????1990???GHG????????????????????EU-28???High
income??GHG?????2????????????????Lower-middle
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??GHG????CO2????2030????2060????2030?????
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1980????COP26??
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????GHG????1??3?????

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IEA??2050??CO2????

??????IEA??2021?11??Figure
1.1??2050??CO2??APS????GHG????NDCs??
2050????

WEO-2021 APS?2021?5????Updated
APS?2021?10????GHG??CO2?????
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????STEPS?NDCs????NZE?IEA?202
1?5????2050????



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.pic.twitter.com/fMaPYsHGUT

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

??????9????????????????????WEF??
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?Tackling

Disinformation??COVID-19????????????????????????????????
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You Tube??TikTok?????????Team
Halo???????????????????????

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

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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

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

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??9?ESG??????????????????????3????????

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???World Energy Investment 2022, IEA

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???IEA????????Net Zero by 2050????????2050????????????????????????????????1.5????????????????????????????????
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????????2050??IEA?21????????World Energy Outlook
2021??STEPS????????2030????????????????
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ESG 2.0

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

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?? ?? · Thursday, October 20th, 2022



1?2050????????????2030??
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MadamLead/iStock

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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??

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

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

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

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COP??26????COP??????????

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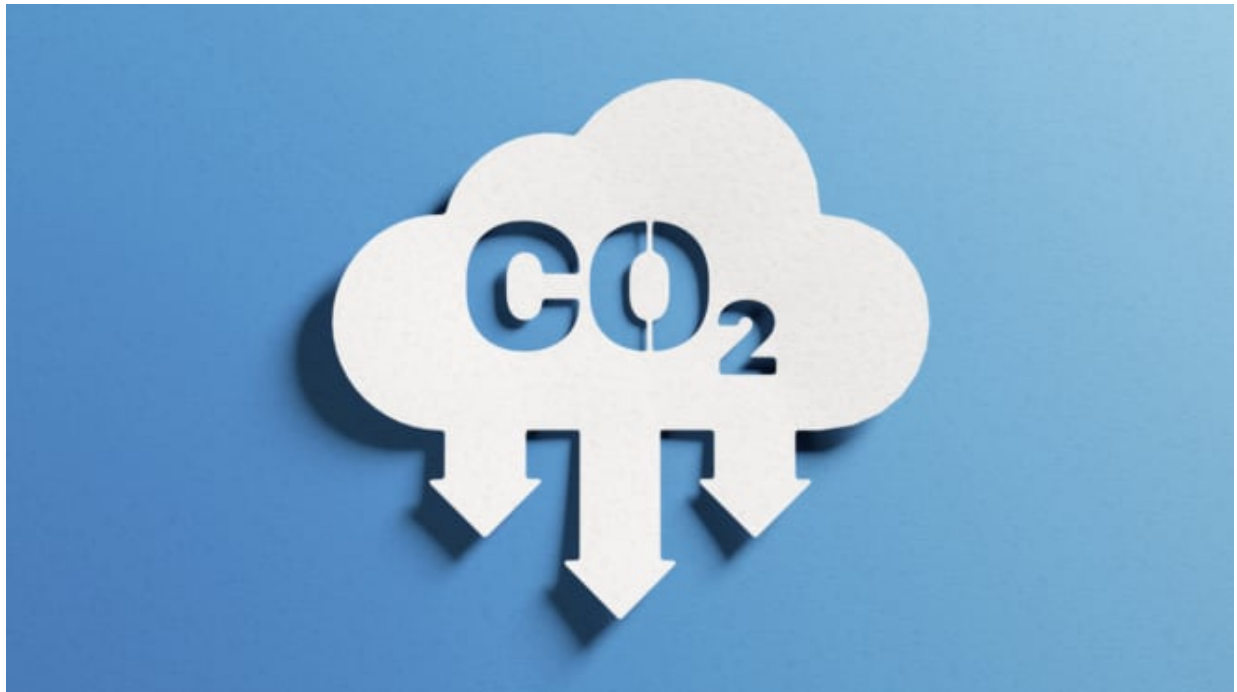
Posted in ???, ????? | No Comments »

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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????????????????6.5????
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3. ?????????????2030?????1??100??1????????
??????6?????????????????
4. ???

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

- $5775 \times 31 \times 3 \div 4 = 13.4$
 $5775 \times 31 \times 1 \div 4 = 4.48$
 2. $4.48 \times 0.5 \div 10000 = 0.00022$
 3. $100 \times 0.00022 \times 0.06 = 0.0013$

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- 4.5
- 0.00022
- 0.0013
- $13.4 \times 0.5 \times 0.06 = 0.4008$
 $4.48 \times 0.5 \times 0.06 = 0.1344$
 $0.4008 + 0.1344 = 0.5352$

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■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??

2.

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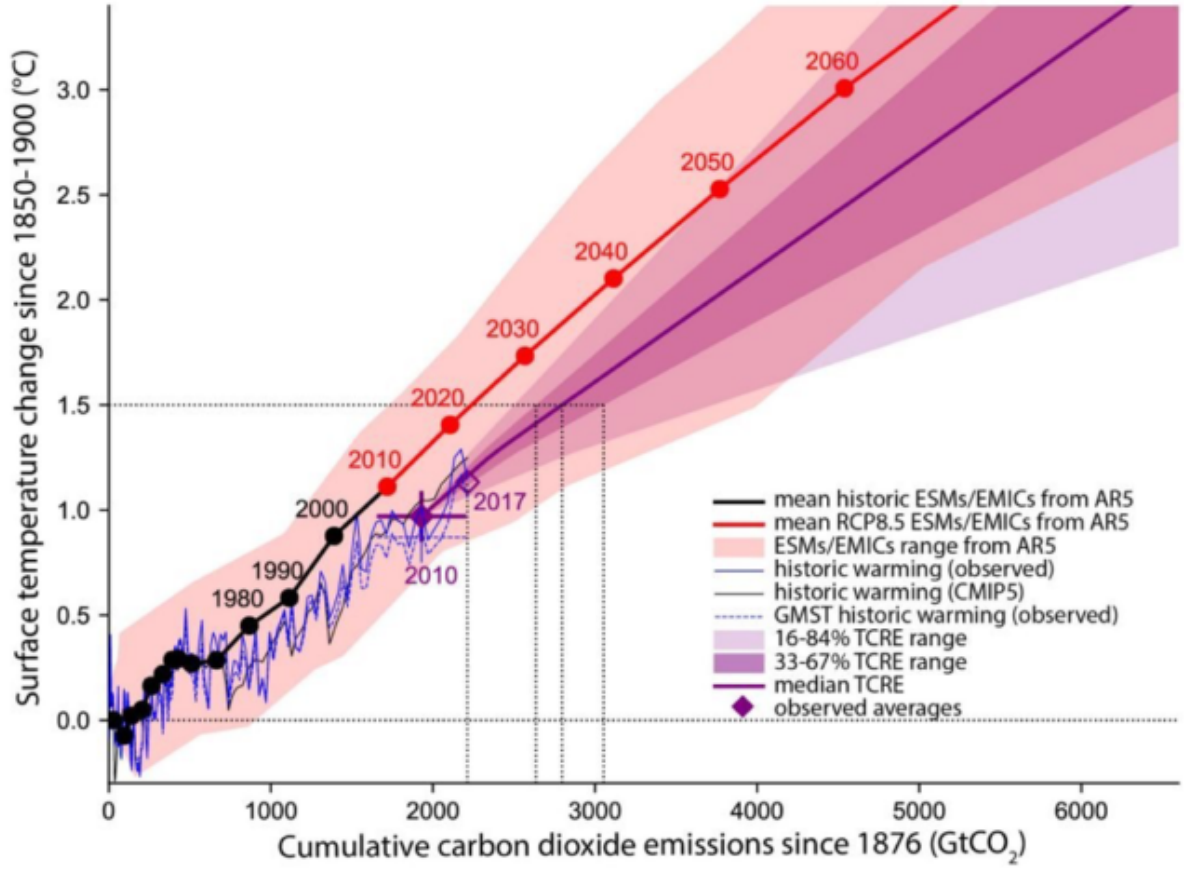


FIGURE 2.3?Temperature changes from 1850–1900 versus cumulative CO2 emissions since 1st January 1876.

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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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allanswart/iStock

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?? ?? · Tuesday, October 4th, 2022



Daniele Mezzadri/iStock

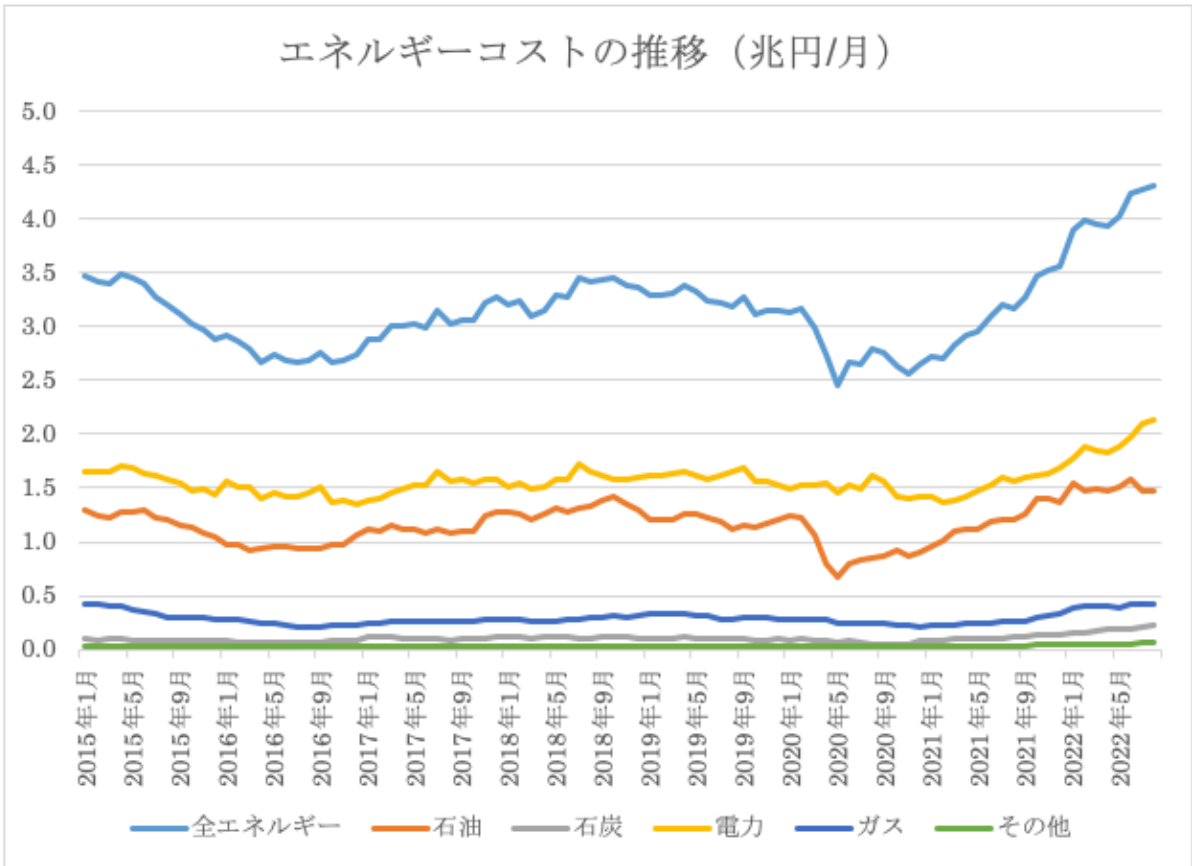
??25????????28????????????????

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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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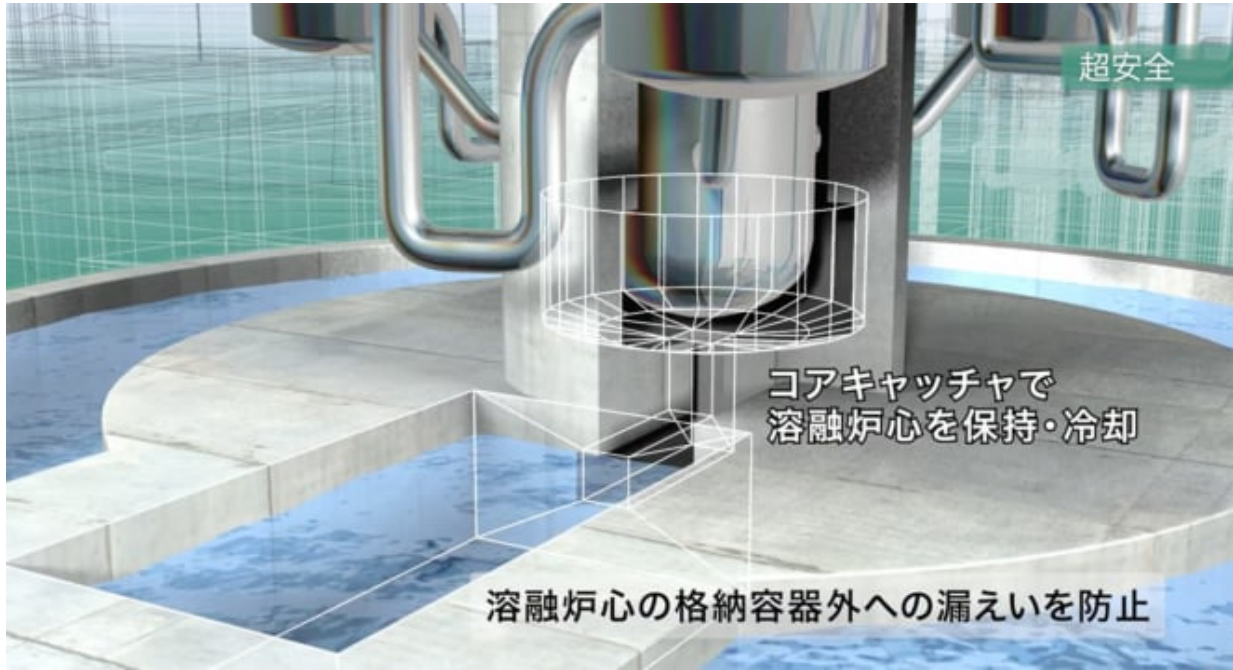
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??????9?29????????????????????????????????4????????????????????????????????????2030????????????
?????10???????????

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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2021??8??2030????????????????????????????2030????????1kW
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??JP????????????CEO????????????????????

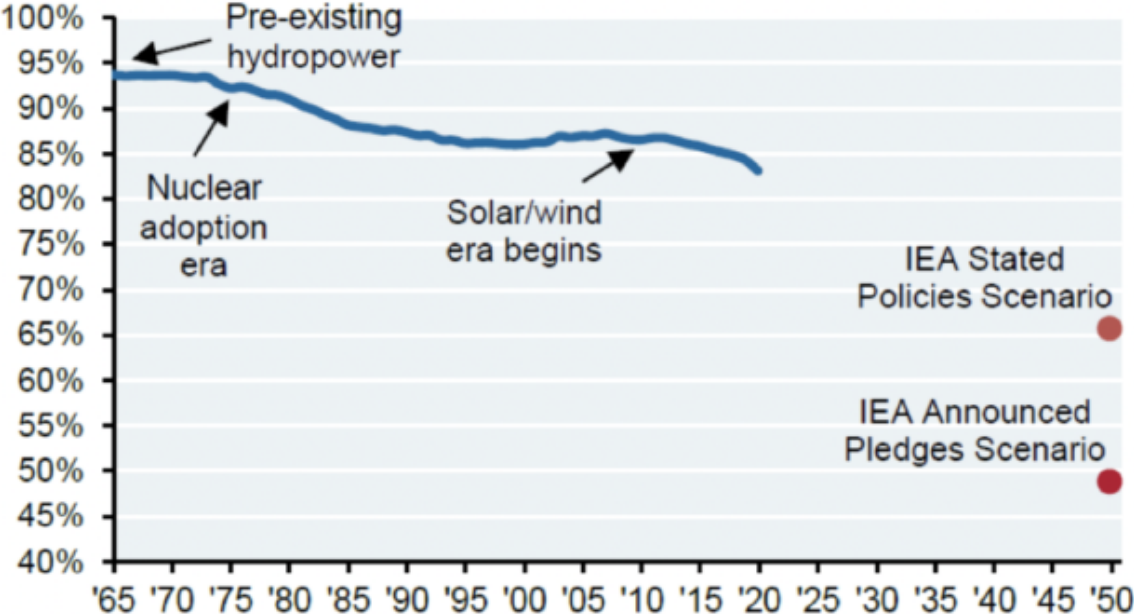
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????????????????2015????????????????
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??COP27????????
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??BP?IEA????????????????????????????????
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The world uses fossil fuels for ~83% of its energy % of global primary energy consumption from coal, oil and nat gas



Source: BP Statistical Review of World Energy, IEA, JPMAM. 2021.

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

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

?? ? · Saturday, October 1st, 2022

9?25??NHK????????????????????????1.5????????????????????



Twitter??

10 NHK

record 1.5 NHK

NHK 16 1.5

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NHK NHK

1.5C

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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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?100????????????????????????

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

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

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

2050????????????2030?CO2??ESG????????
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xijian/iStock

ESG?E??CO2??CO2????????????
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??ESG?SDGs??CSR????????????????????
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??2012??2010??2019??10????????????????????????22
 %????????25%????????????????2022??

ESG S

ESG S

ESG S G

ESG

2021 10 22 agricultural, solar and garment sectors 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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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
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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
建築物クリーン化補助金	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 »

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?? ?? · Sunday, September 18th, 2022

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

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?? ? · Friday, September 16th, 2022



ayhan turan/iStock

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1991??(???)????????1970?80????????????????????80?????????
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CO2

12 CO2

10 15 CO2

FIT

13 CO2

(EV) EV

CO2

2050

14

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Posted in ???, ????? | No Comments »

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?? ?? · Thursday, September 15th, 2022



igorartmd/iStock

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herraez/iStock

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Posted in ???, ?? | No Comments »

??21????????????????ESG????????????

?? ?? · Saturday, September 10th, 2022

ESG??
????????????????????????SDGs??2015????????
?????ESG????????????????????

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LumerB/iStock

8?16????21????????????SEC????ESG????????????SEC????????????
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8?23????????????????????????????ESG????????????

8?24????????????????????????????????10?350????????????6????????13??
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350????????????ESG????????????????????????UBS????????????

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????CO2??2030????1000?kW????????????
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??EU????????????????????
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Posted in ???, ?? | [No Comments](#) »

????????????14????????

?? ? · Saturday, September 3rd, 2022



ayhan turan/iStock

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????7????????????????14??



??????372????2420????????????????????176????1650????????????????????

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CO2 CO2 150 ppm

1 30 0.2 0.3

2 IPCC

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3 80 60

HP 10 1950 60 1993 30

4 CO2

1000

() CO2

5 CO2

NHK

6
CO2 1850

CO2 100
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CO2
CO2

170 2000 42
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Posted in ??, ??? | No Comments »

LCOE

?? - Thursday, September 1st, 2022



vchal/iStock

IRENA J.P.Morgan

IRENA

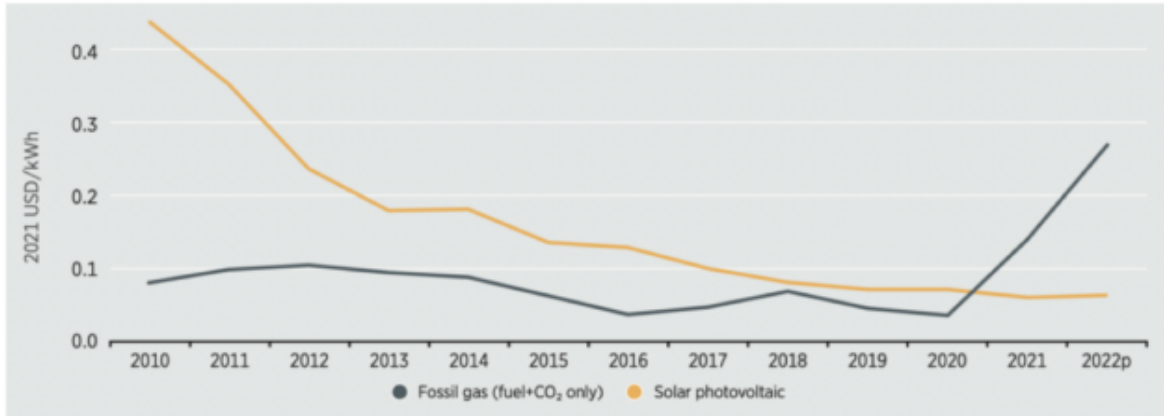
2022 13 IRENA 2021

Renewable Power Generation Costs in 2021 – Executive Summary (irena.org)

IRENA

- 2021 163GW LCOE G20
-
-

Figure ES.3 The weighted average LCOE of utility scale solar PV compared to fuel and CO₂ cost only for fossil gas in Europe, 2010-2022



?????2021?8?????????????2030????????????????????

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2. J.P.Morgan?????

?????5?J.P.Morgan????????????????????

12th Annual Energy Paper | J.P. Morgan Private Bank (jpmorgan.com)

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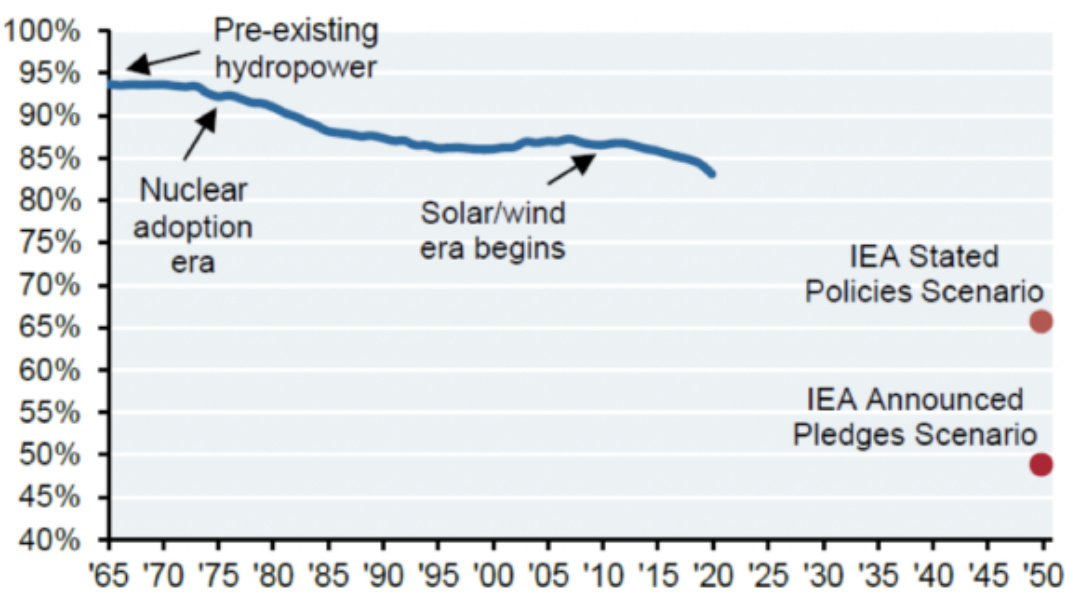
?2050??????

IEA?????????????????????????????2050?????????????66?????

???10????????????????????????????
?????????????????70???

The world uses fossil fuels for ~83% of its energy

% of global primary energy consumption from coal, oil and nat gas



Source: BP Statistical Review of World Energy, IEA, JPMAM. 2021.

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????????????LCOE??LCOE????????????
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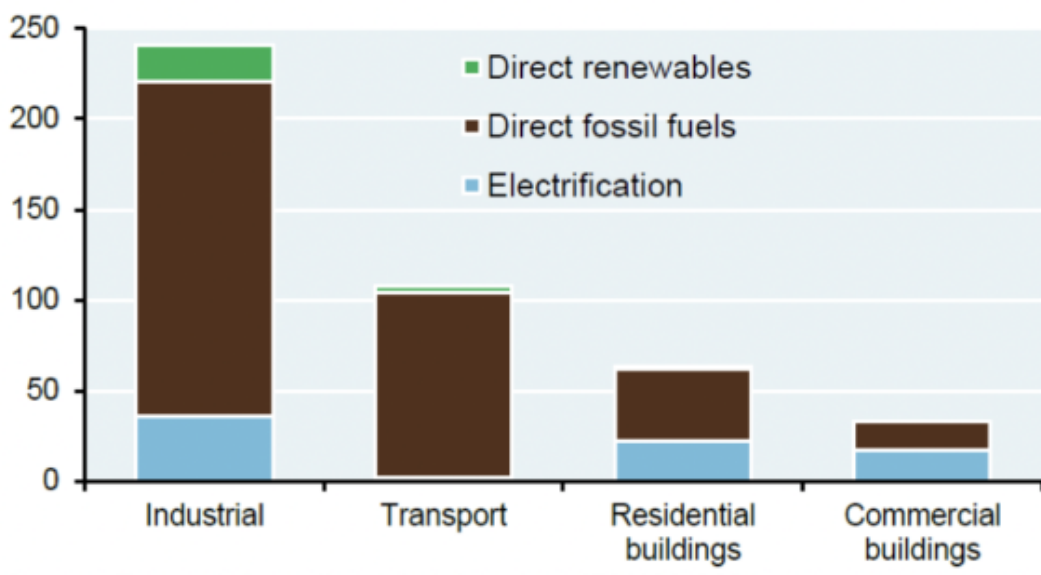
LCOE??i)???????????????????????????? ii)????????????????
iii)??

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Low levels of electrification in global industry and transport

Quadrillion BTUs of final energy consumed by sector



Source: Energy Information Administration, JPMAM. 2021.



imagedepotpro/iStock



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????????????200????????11??CO₂????????????????
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????????????????????COP?????????1997??COP3????????????????????????????COP3?1997??12?????????
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COP?????26????????????????????????????COP?????????????????2015??COP21????????????

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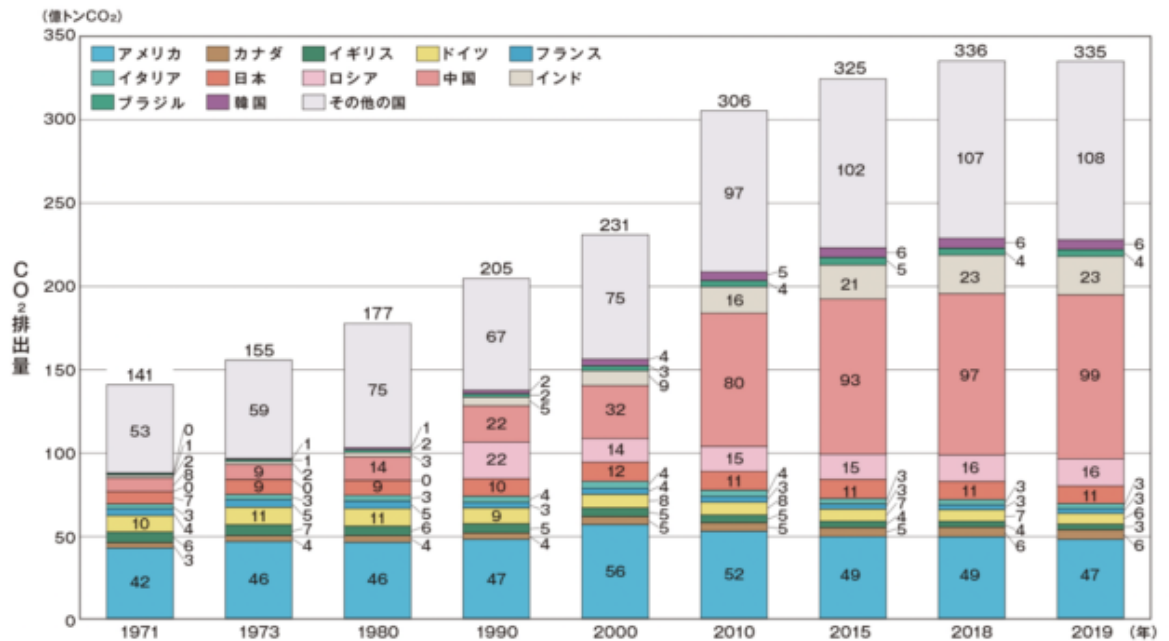
COP?????????????????????26??

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

????CO₂?????????2000??230?????2019???1.5??340????????????

世界のCO₂排出量の推移



(注) 四捨五入の関係で合計値が合わない場合がある
 ロシアについては1990年以降の排出量を記載。1990年以前については、その他の国として集計

2-1-4

出典：(一財)日本エネルギー経済研究所「エネルギー―経済統計要覧2022」より作成
 原子力・エネルギー四国集

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?????????????????0.06????????

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?????CO₂

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H₄??2030????????????30????????????????

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????????????????????30%????????????????

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??2020????????1000????????????????

?COP27????????????????????????????????1000????????????????

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

???????COP27??

??2030????5800????????????

?????COP27??
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Posted in ??, ???? | No Comments »

GX????????????

?? ?? · Sunday, August 28th, 2022



marrio31/iStock

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8?24????2?GX(????????????)????????

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??passive safety??????

??In-Vessel
Retention(?????)?????????Ex-Vessel Retention(?????)?????

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2????????????????100????1/????????????3????????????2????????????????1????1/??????
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Safety by design????

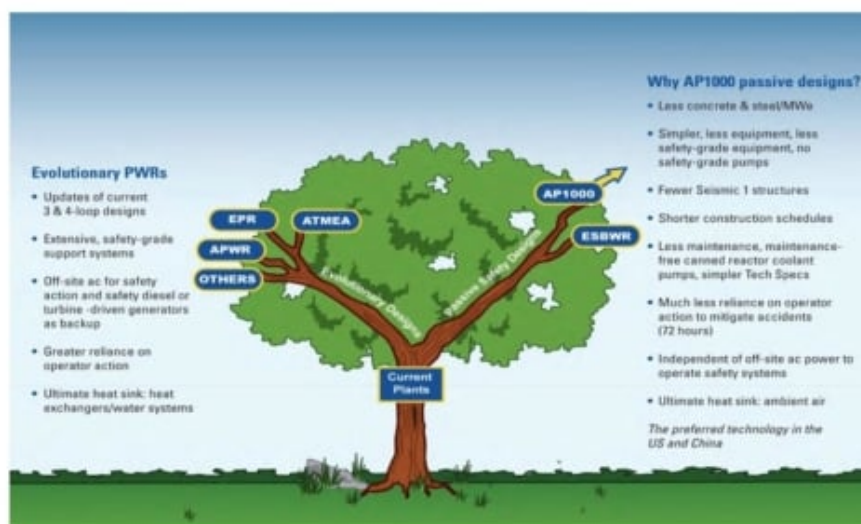
?Safety by design????????1980????????????????1979??????TMI?????????by
design??Safety by
design??

TMI????????????????????????????????safety by
design??
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AP1000: Generation III+ & Evolution



©Westinghouse Electric Corporation.

Current Plants) safety by design (passive safety)
AP1000 ESBWR
ATMEA EPR APWR ABWR
AP1000

ABWR APWR ATMEA

ABWR APWR
ABWR 6 7 11

ABWR ABWR

4 3 4 PWR APWR
APWR safety by design
ATMEA

Posted in , | No Comments »