



ラベル	用途	項目	備考
A	住宅用	製造時CO2	2190.0
B	住宅用	年間CO2削減量	531.0 設備利用率13.8%、電力のCO2排出係数は2020年の値(0.441)
C	住宅用	CO2回収年数	4.1 C=A/Bとして計算
D	メガソーラー	製造時CO2	3070.0 過積載率40%
E	メガソーラー	年間CO2削減量	662.0 設備利用率17.2%、電力のCO2排出係数は2020年の値(0.441)
F	メガソーラー	森林破壊CO2(建設時)	604.0 2ヘクタールを想定
G	メガソーラー	森林破壊CO2(年間)	17.6 2ヘクタールを想定
H	メガソーラー	CO2回収年数	5.7 H=(D+F)/(E-G)として計算
I	住宅用	CO2回収年数	7.3 電力のCO2排出係数を2030年の値(0.250)とした。I=C・(250/441)として計算
J	メガソーラー	CO2回収年数	10.1 電力のCO2排出係数を2030年の値(0.250)とした。J=H・(250/441)として計算

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

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

?? ? · Monday, November 28th, 2022



ricochet64/iStock

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# COP27????????????????????

?? ?? · Friday, November 25th, 2022

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?? ? · Thursday, November 24th, 2022



metamorworks/iStock

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	2020年	2030年(1)	設備稼働年数	設備利用率	2030年(2)
原子力	11.5円	11.7円	40年	70%	14.4円
太陽光（事業用）	12.9円	8.2～11.8円	25年	17.2%	18.9円
太陽光（住宅用）	17.7円	8.7～14.9円	25年	13.8%	
陸上風力	19.8円	9.9～17.2円	25年	25.4%	18.5円
洋上風力	30.3円	26.1円	25年	30%(33.2%)	
石炭火力	12.5円	13.6～22.4円	40年	70%	13.9円
LNG火力	10.7円	10.7～14.3円	40年	70%	11.2円

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	原子力発電	石炭火力発電	LNG火力発電
CO <sub>2</sub> 対策費	0	3.9	1.8
社会的費用	1.9		
（事故リスク対応費用）	0.6		
（政策経費）	1.3		
発電原価	9.6		
（燃料費）	1.7	4.2	6.4
（追加的安全対策費）	1.3		
（運転維持費）	3.3	2.3	1.2
（資本費）	3.3	2.0	1.3
合 計	11.5円kWh	12.5円kWh	10.7円kWh

2021?8?3?  
LNG?10.7kWh?12.5kWh?11.5kWh?1???

2030?2022?10?9?

2018?4??

10kW?2019?1?

2019?1?

3?50??

2021?3?50?2022:20?3?1?5?45???

25?183.9MW?18?3900kW?9?2021?2022?7?1?20?20???

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expressive?instrumental?

2050?030?46???

2020?2?GX?

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2020?2?GX?

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# COP27????????14????????

?? ?? · Wednesday, November 23rd, 2022



imagedepotpro/iStock

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## COP27?? “????” ??????????NHK?

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The cover decision, known as the **Sharm el-Sheikh Implementation Plan**, highlights that a global transformation to a low-carbon economy is expected to require investments of at least USD 4–6 trillion a year. Delivering such funding will require a swift and comprehensive transformation of

??4?6?????????GDP??

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22. *Notes with grave concern*, according to information in the contributions of Working Groups II and III to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change, the growing gravity, scope and frequency in all regions of loss and damage associated with the adverse effects of climate change, resulting in devastating economic and non-economic losses, including forced displacement and impacts on cultural heritage, human mobility and the lives and livelihoods of local communities, and *underlines* the importance of an adequate and effective response to loss and damage;

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and also welcomes the adoption of decisions -/CP.27<sup>12</sup> and -/CMA.4,<sup>13</sup> on matters relating to funding arrangements responding to loss and damage associated with the adverse effects of climate change;

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30. *Highlights* that about USD 4 trillion per year needs to be invested in renewable energy up until 2030 to be able to reach net zero emissions by 2050,<sup>18</sup> and that, furthermore, a global transformation to a low-carbon economy is expected to require investment of at least USD 4–6 trillion per year;<sup>19</sup>

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32. *Notes with concern* the growing gap between the needs of developing country Parties, in particular those due to the increasing impacts of climate change and their increased indebtedness, and the support provided and mobilized for their efforts to implement their nationally determined contributions, highlighting that such needs are currently estimated at USD 5.8–5.9 trillion<sup>20</sup> for the pre-2030 period;

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7. *Decide to establish new funding arrangements* for assisting developing countries that are particularly vulnerable to the adverse effects of climate change, *in responding to loss and damage, including* with a focus on addressing loss and damage by providing and assisting in *mobilizing new and additional resources*, and that these new arrangements complement and include sources, funds, processes and initiatives under and outside the Convention and the Paris Agreement;

8. *Also decide*, in the context of establishing the new funding arrangements referred to in paragraph 2 above, to *establish a fund for responding to loss and damage whose mandate includes a focus on addressing loss and damage*;

????????????????????? Transitional  
Committee?????????COP28??10?????????14?????????

**III. Composition**

4. The Transitional Committee shall have 24 members, to be nominated no later than 15 December 2022, comprising 10 members from developed country Parties and 14 members from developing country Parties, with geographical representation as follows:

- a) Three members from Africa, including a representative of the President of COP 27;
- b) Three members from Asia and the Pacific, including a representative of the incoming President of COP 28;
- c) Three members from Latin America and the Caribbean;
- d) Two members from small island developing States;
- e) Two members from the least developed countries;
- f) One member from a developing country Party not included in the categories listed above.

??COP28?????UAE????????????????????????????????????1????????  
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COP21 in 2015 in Paris. The \$1 trillion per year is a very different concept – it is a requirement based on an analysis of the investment and actions necessary and the domestic finance potentially available, for an internationally agreed and vital purpose. The \$1 trillion is not the new \$100 billion. The latter was negotiated, not deduced from analyses of what is necessary for a purpose.

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?? ?? · Tuesday, November 22nd, 2022



Olga Burkova/iStock

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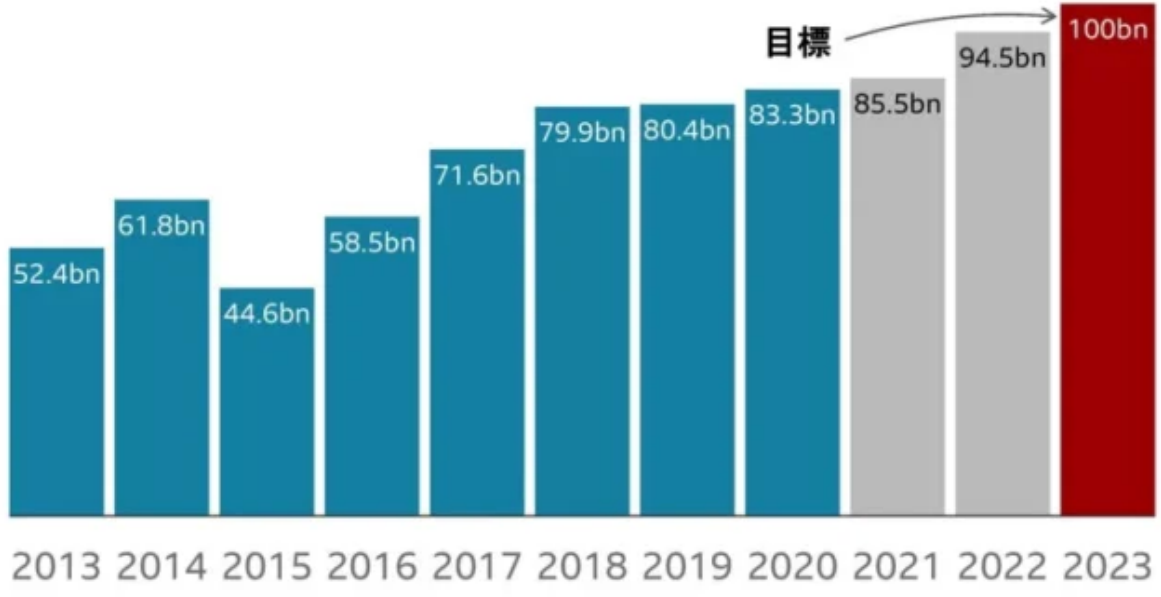
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### 気候変動対策の支援額 先進国が資金集めと供給を行った額(単位:10億米ドル)



2021年と2022年のデータはOECDによるシナリオの平均値

出典:経済協力開発機構(OECD)



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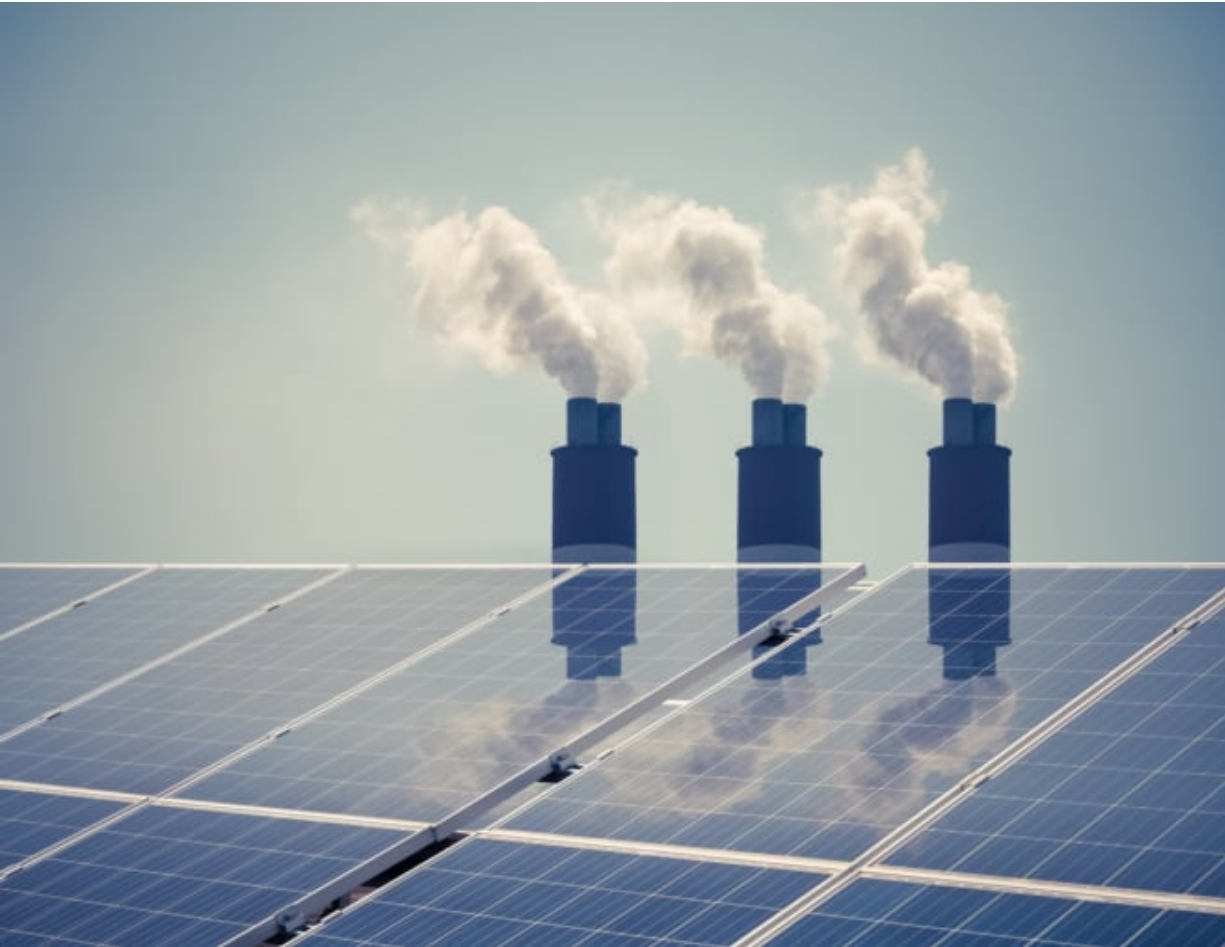
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?? ?? · Saturday, November 19th, 2022

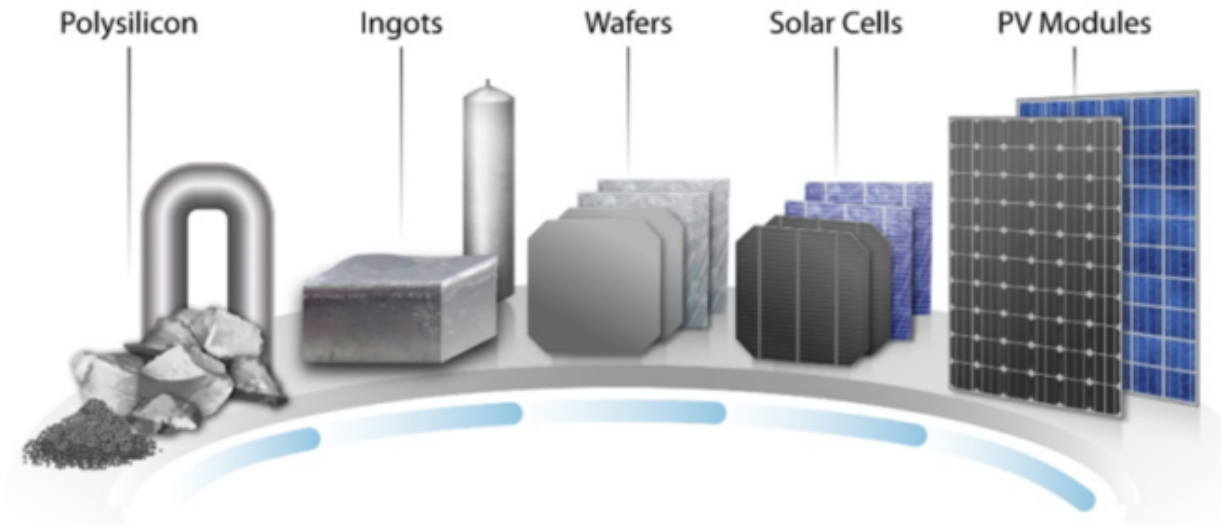


chuyu/iStock

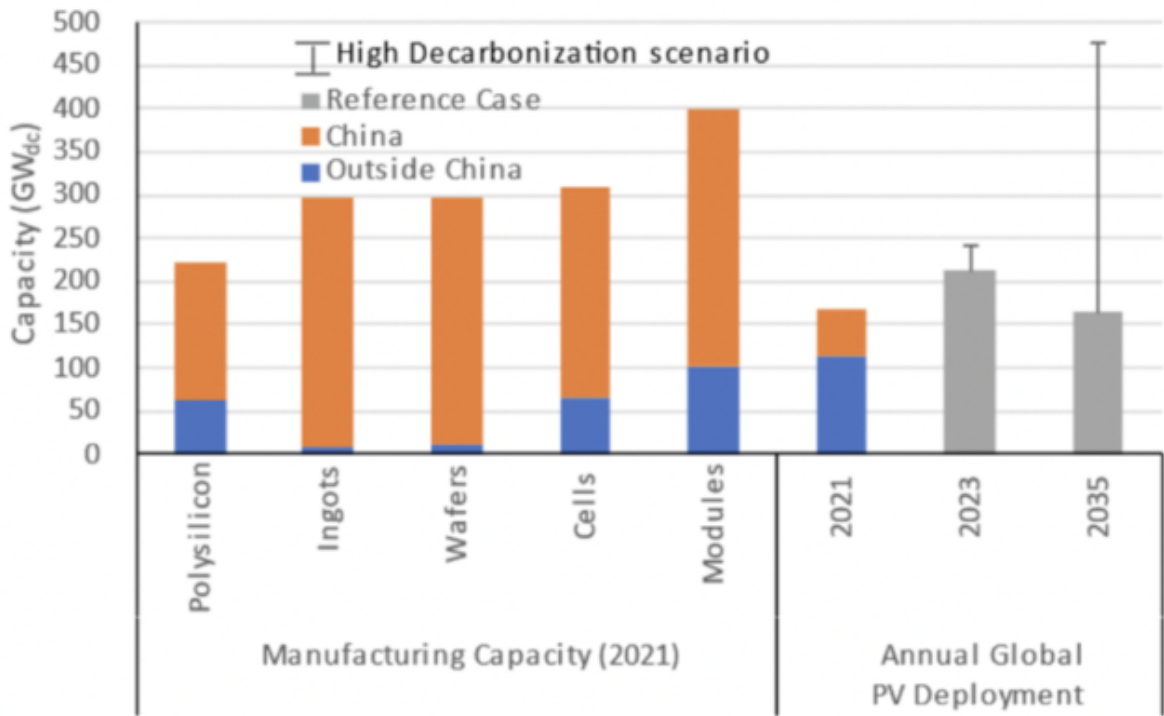
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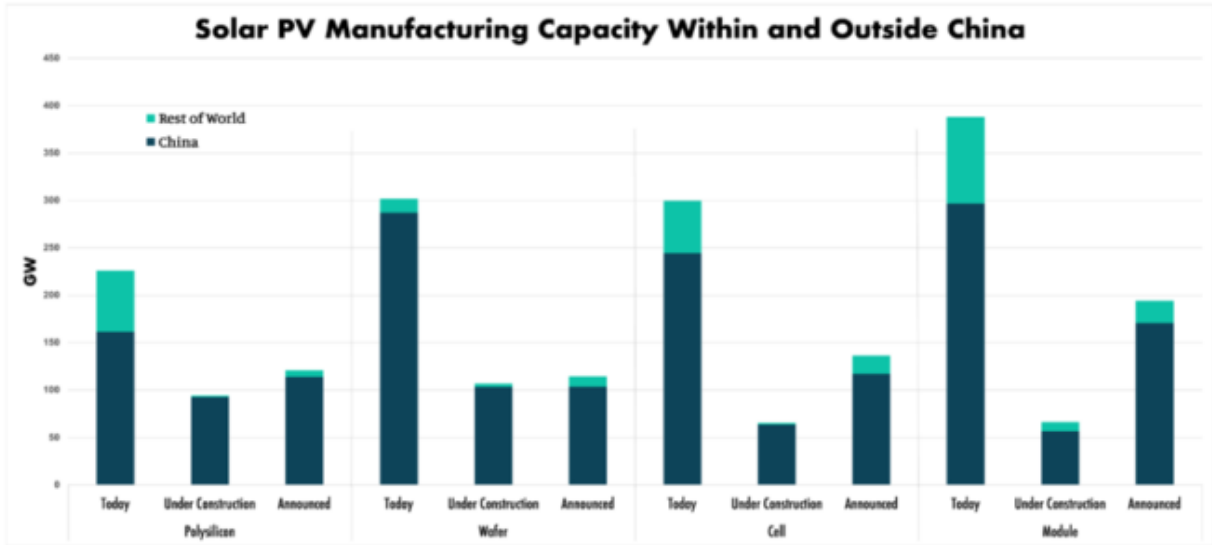


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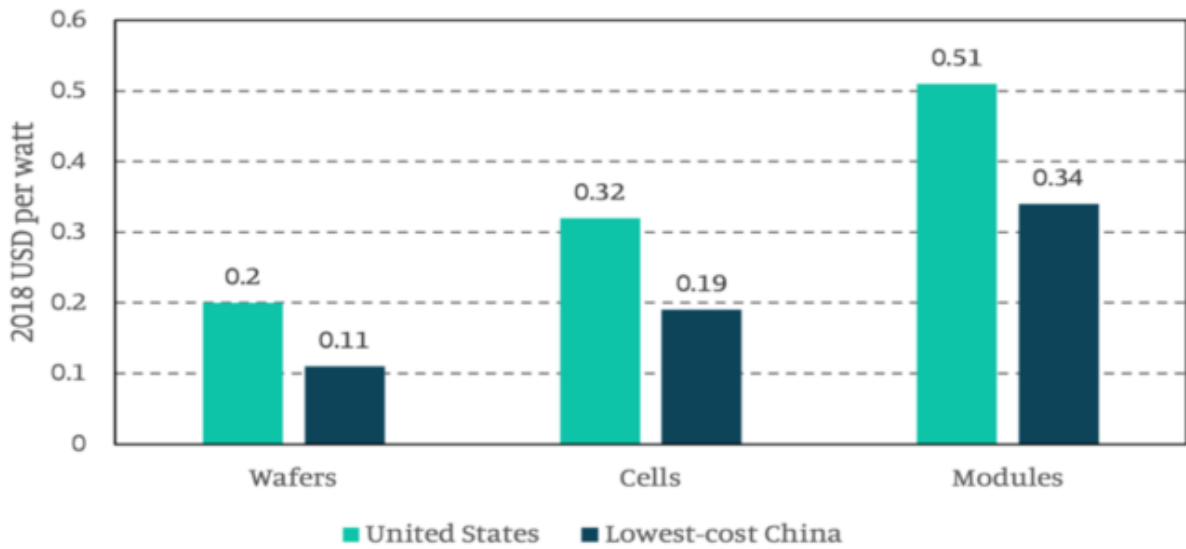
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### Minimum Sustainable Price (MSP)



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?? ? · Saturday, November 19th, 2022



Nastco/iStock

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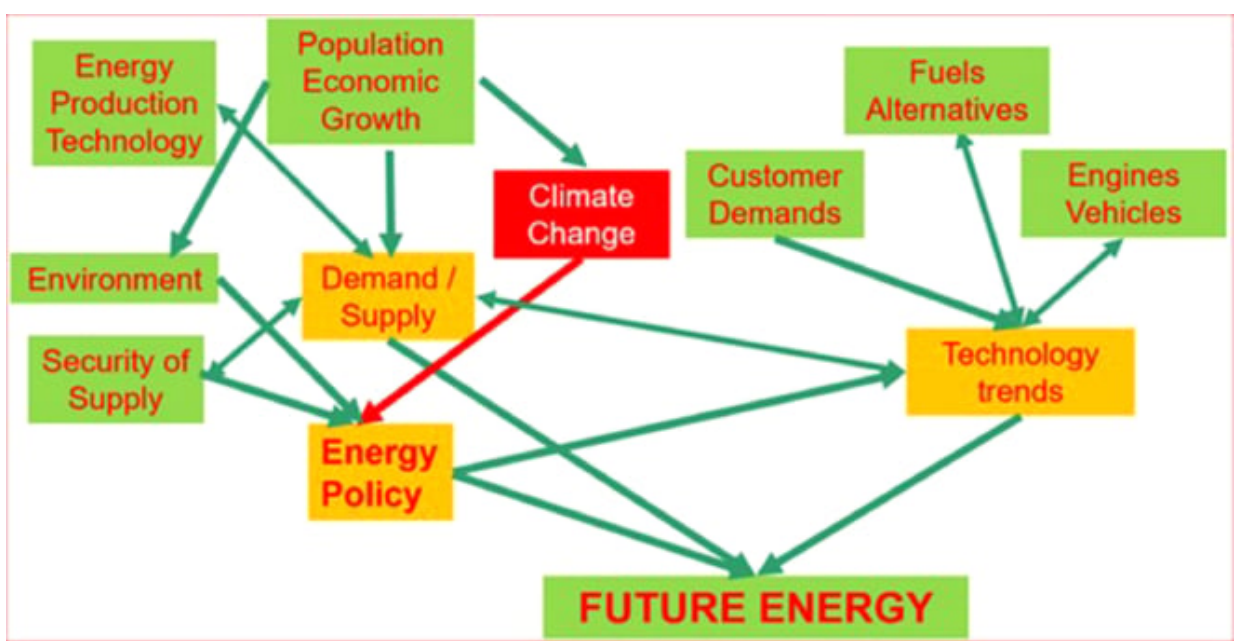
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2.778x10<sup>-7</sup>kWh??10<sup>18</sup>????????????????????????????????

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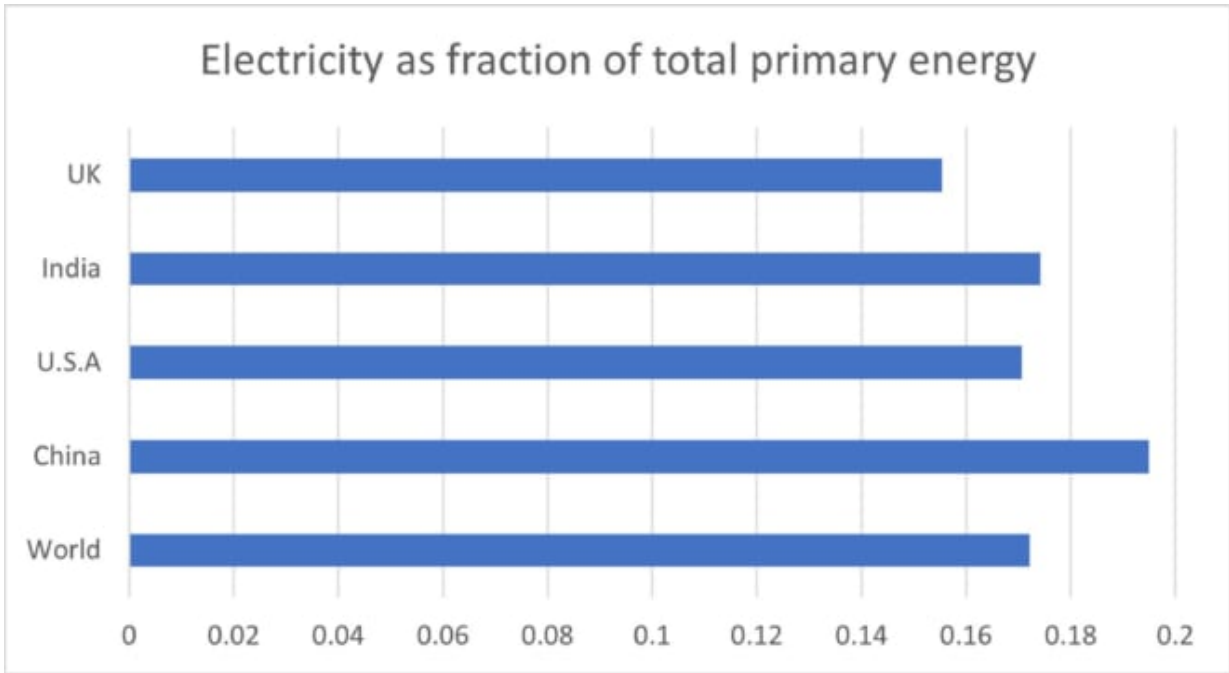
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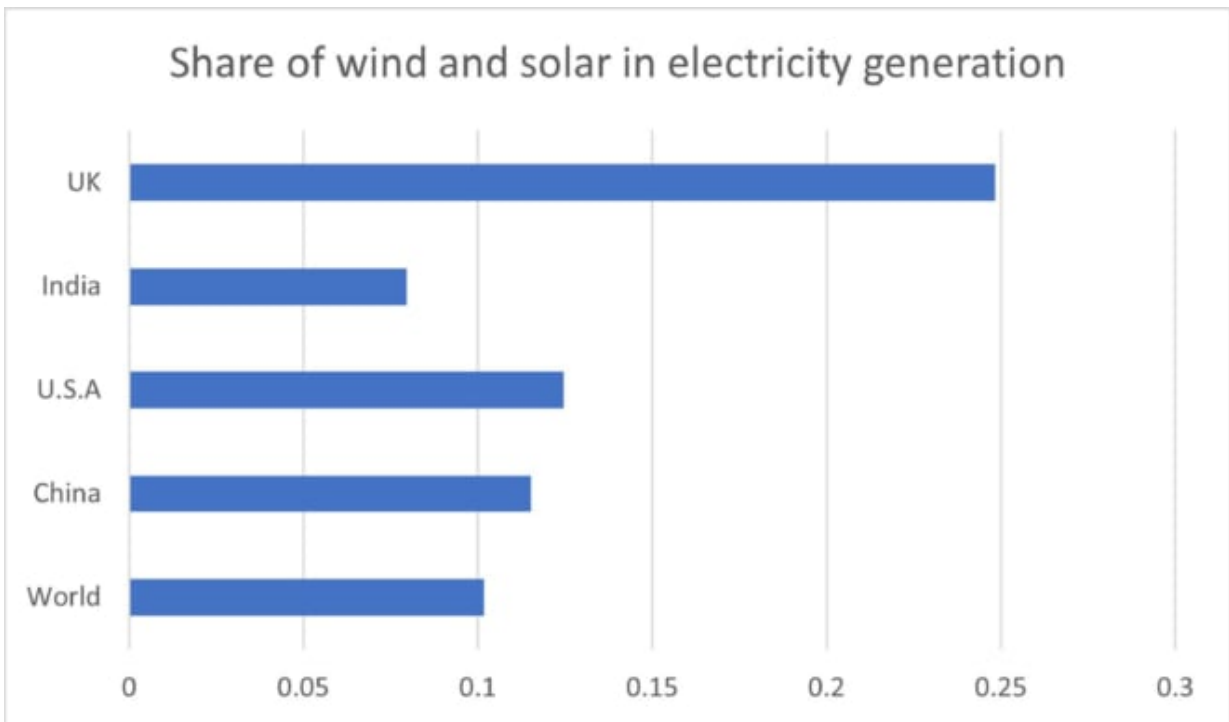
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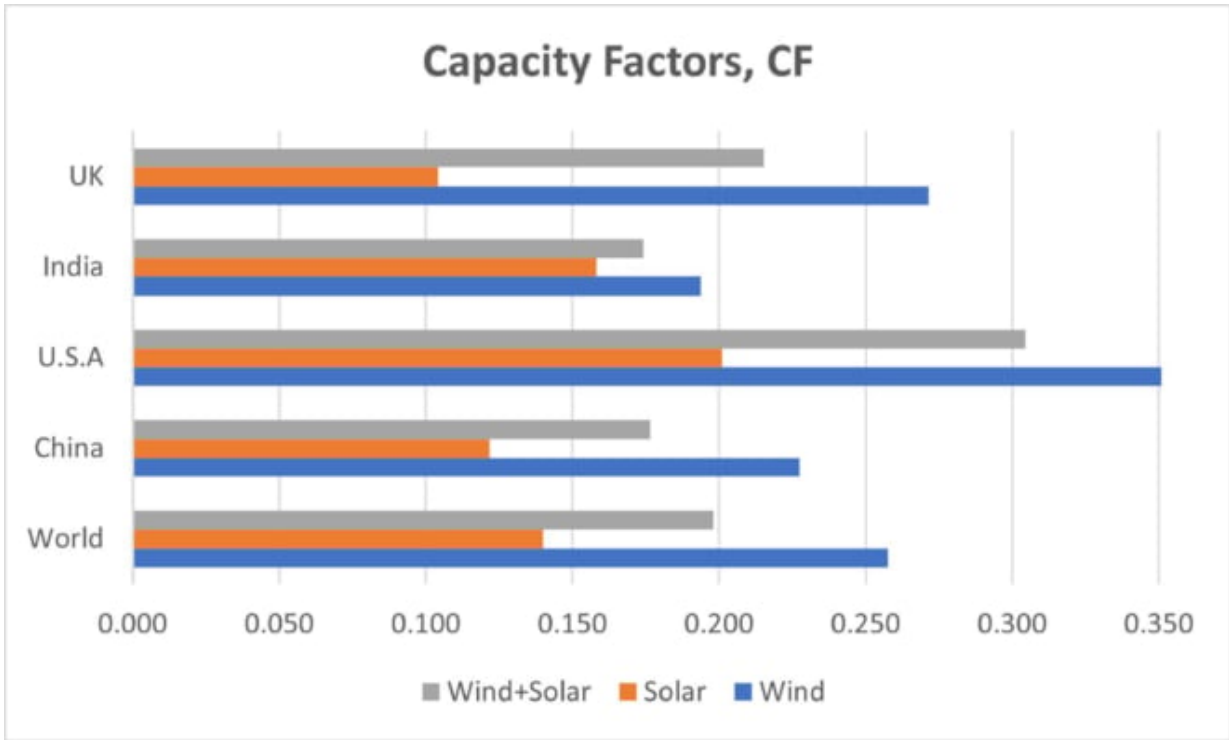
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### ??140????????COP27????????????

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





fergregory/iStock

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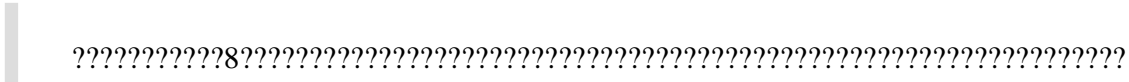
?? ?? · Wednesday, November 16th, 2022



Nebasin/iStock

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?? ? · Sunday, November 13th, 2022





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



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?? ?? · Thursday, November 10th, 2022



hanibaram/iStock

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

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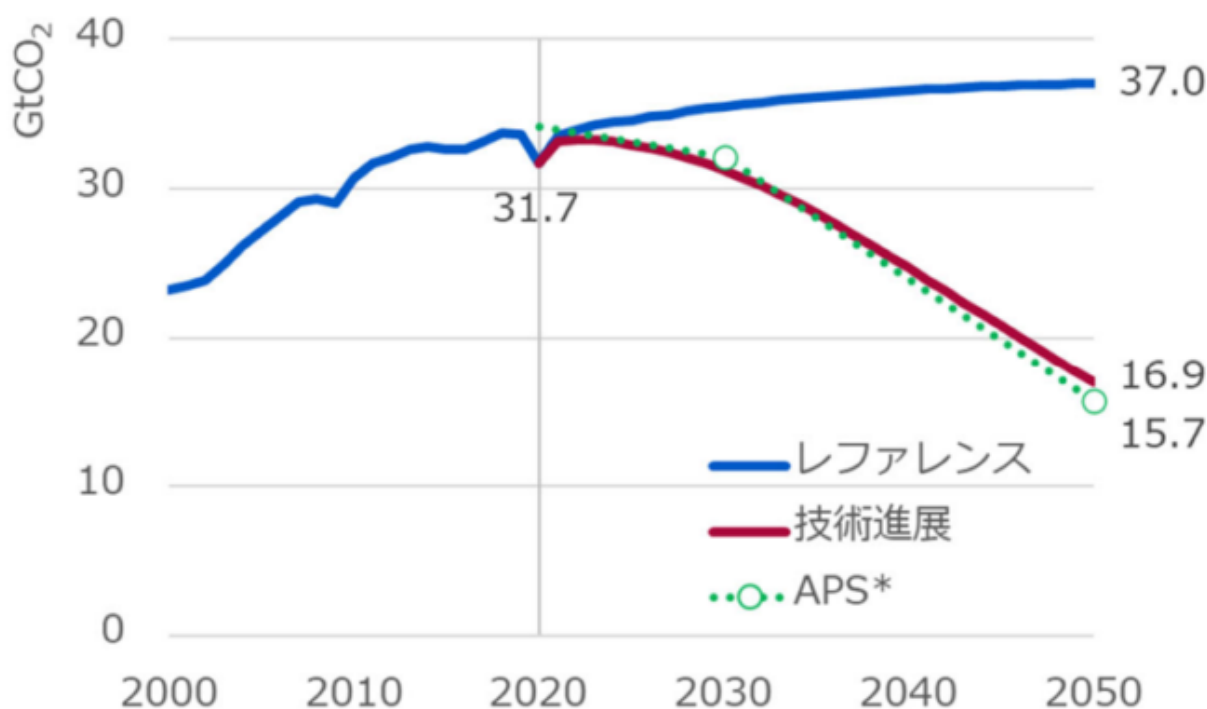
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CO2??  
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### エネルギー起源CO<sub>2</sub>排出量の見通し



??IEEJ????????????????

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CCS??

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IPCC????????????????????1????CO2????????????????????0.5????????????IPCC?2013????????????????0.44????????????????  
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2020????2050????????????

- ?????????????0.47?

- ???????0.35?
- ??? 0.12?

??2020??CO2????30????????????2050????30??????1??????  
 ?1??????0.5????????????????????????????????????0.5????????????

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??1????????????CO2??

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Posted in ???, ????? | No Comments »

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

?? ?? · Thursday, November 3rd, 2022



bee32/iStock

???????GX?????10?26?????????????10???150????????????????????

???2009??3????????????????????????  
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Posted in ????????????, ??? | No Comments »

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?? ?? · Monday, October 31st, 2022

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

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????2017?9?3????????????6????????????10????????16  
0????????

????????ICBM????????????



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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????ICBM????8????????500????

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

**????????COP27**

?? ? · Sunday, October 30th, 2022

11??7??18????????????????????COP27????????1????????COP????????17????

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Heiness/iStock

**????????COP26????????**

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

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??5?????????????REPowerEU?6??G7??  
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??17??SDGs????SDG13?????  
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9????????G20????????????????G7????????????1.5????????????????????????????????  
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**COP27????????????????????**

COP27????????????????????COP26????????????????????COP27????????????????????  
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??COP????????????????COP????????  
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Posted in ???, ????? | No Comments »



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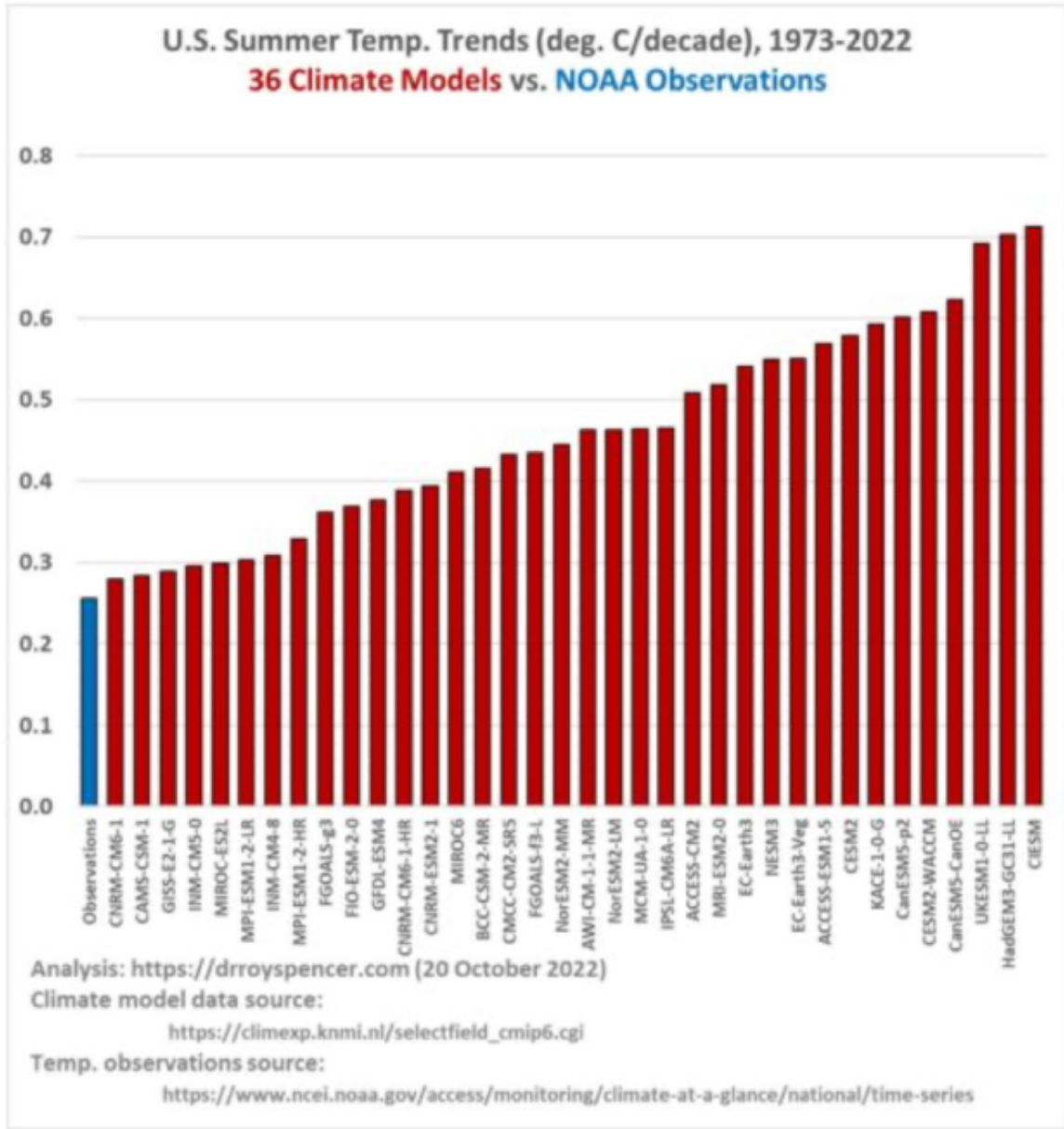
?? ?? · Friday, October 28th, 2022



Tr6/iStock

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Posted in ???, ????? | No Comments »

## ESG????????????????????

?? ?? · Friday, October 28th, 2022



AleksandrVS/iStock

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

**??21????????????????ESG????????????**

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

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

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10,500????????????????39????NZBA????????????2050????????????????????????????????????  
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??NZBA????????????19????????????????????

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

????????ESG????????UBS????????

????????????????????BLK????????????????ESG????????????BLK?ESG????????????????  
????UBS????????????????????????????????700????585????????

????????????BLK????????????3????ETF?MMF????????8????????????BLK????  
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**AG Paxton Demands BlackRock Account for its Underperforming, Potentially Illegal 'ESG' State Pension Fund Investments**

????????????????????????????????BLK????

????????????????JP????????????????????????????????

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

ESG??NZBA????????  
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??IPCC????????????????????  
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?2020?IPCC????????????????????2.5?4??  
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Parradee Kietsirikul/iStock

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

??GH  
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????2050????GHG??20  
50????GHG??

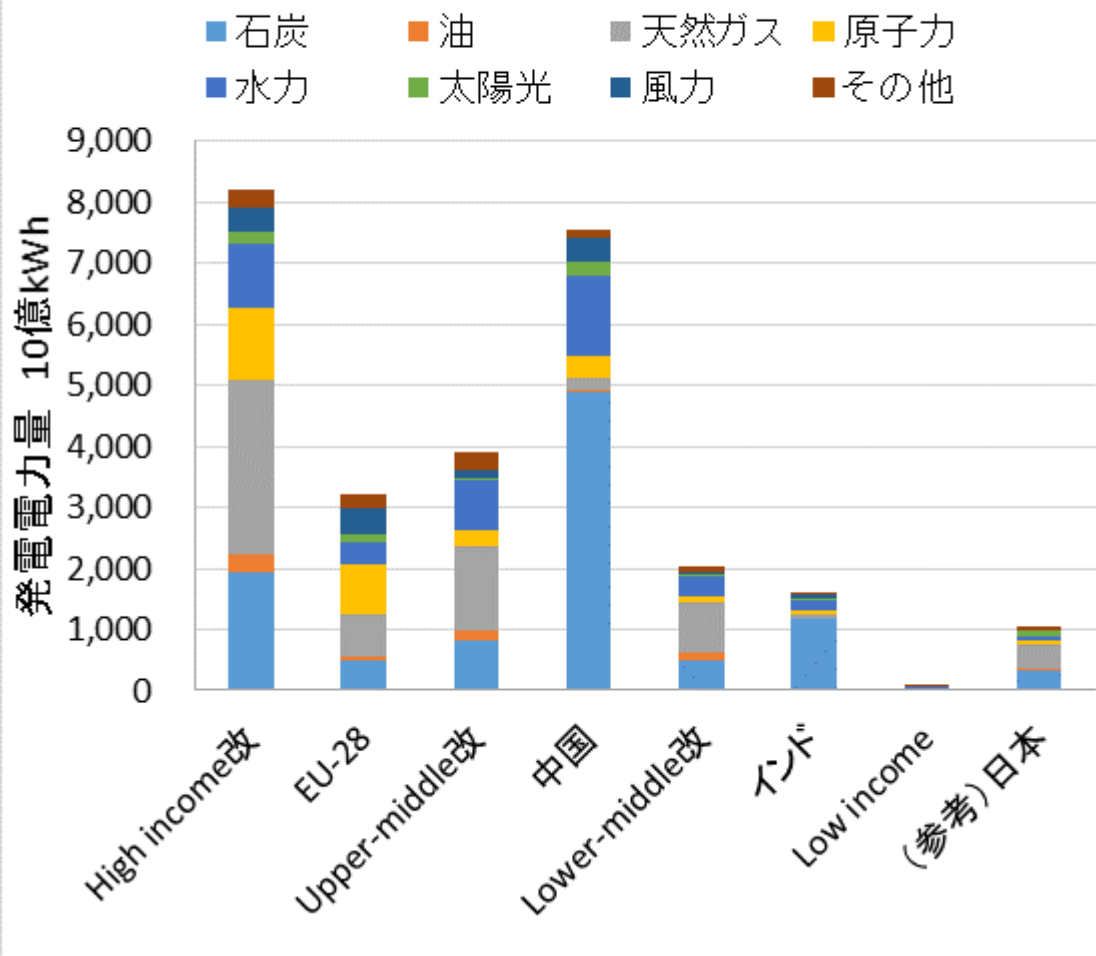
????2050?????????????????? ??

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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

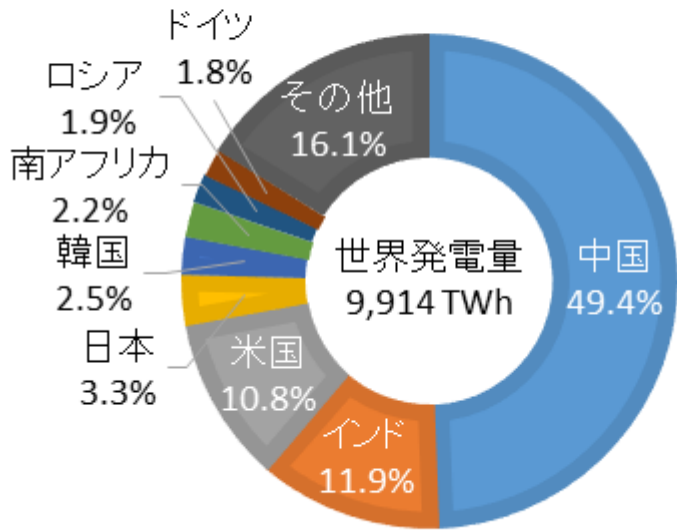
?-6????1????????????????65% ???-2?????????G  
HG??

??73% ???2023??  
??2019?????GHG??GHG????????????????????????  
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GHG??-7??GHG????????????????????  
????????????????-6??

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

????????????????EU-27????????????????????????30-35% ???

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??2??% ??

??20-30% ???

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





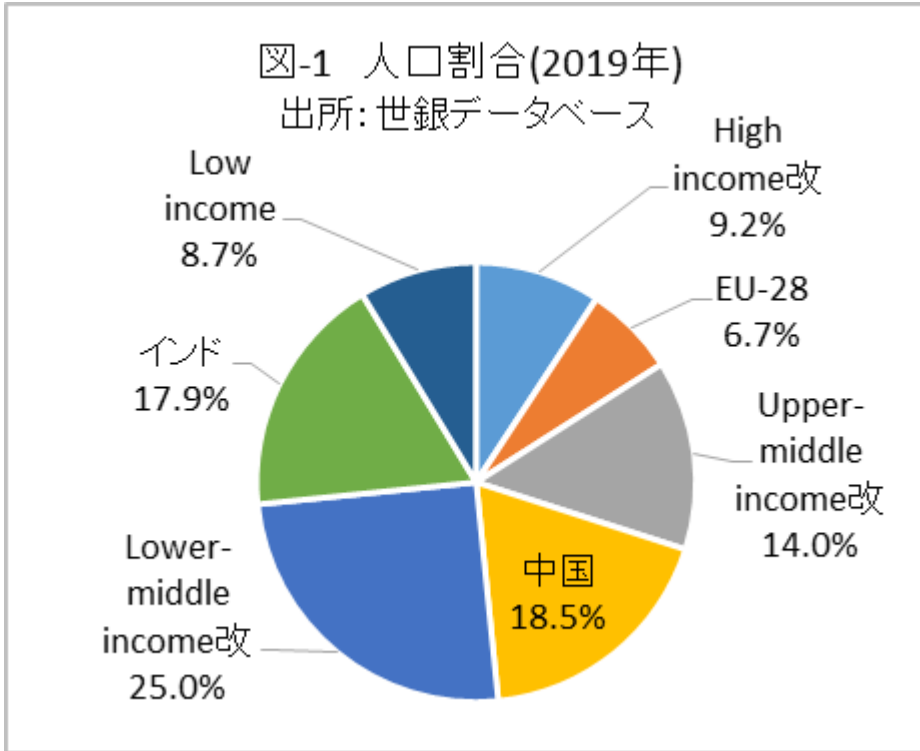




?????EU-28????????????High income????????????????????High income????????????????????Upper-middle income?Lower-middle income??

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

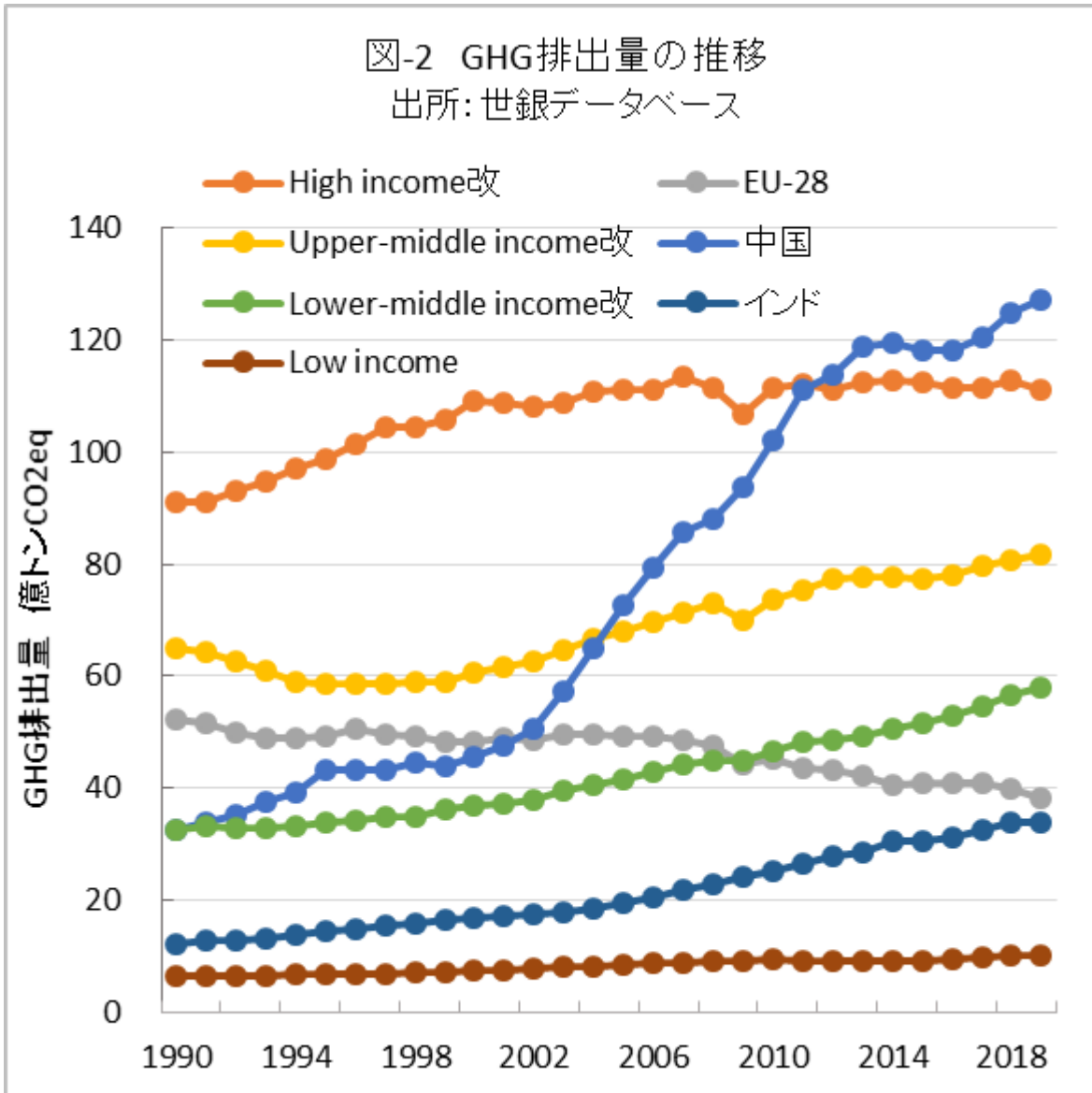
?-1????????????????2019????????????????????????????????????16%????????



?1

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

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

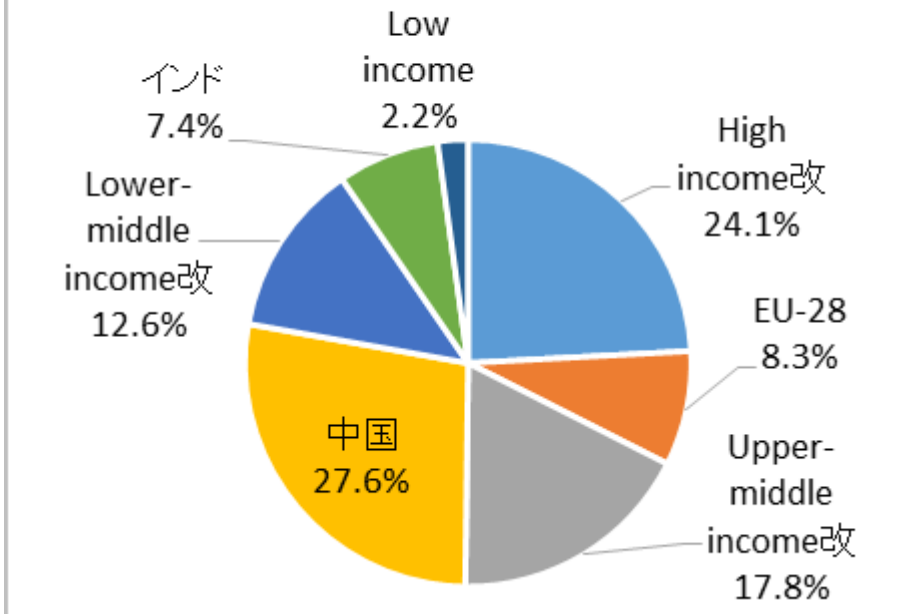


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?-3?2019??GHG????????????????????1/3????????????????2/3????????????????GHG????????????2%??  
????????????GHG????????????????????????????

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

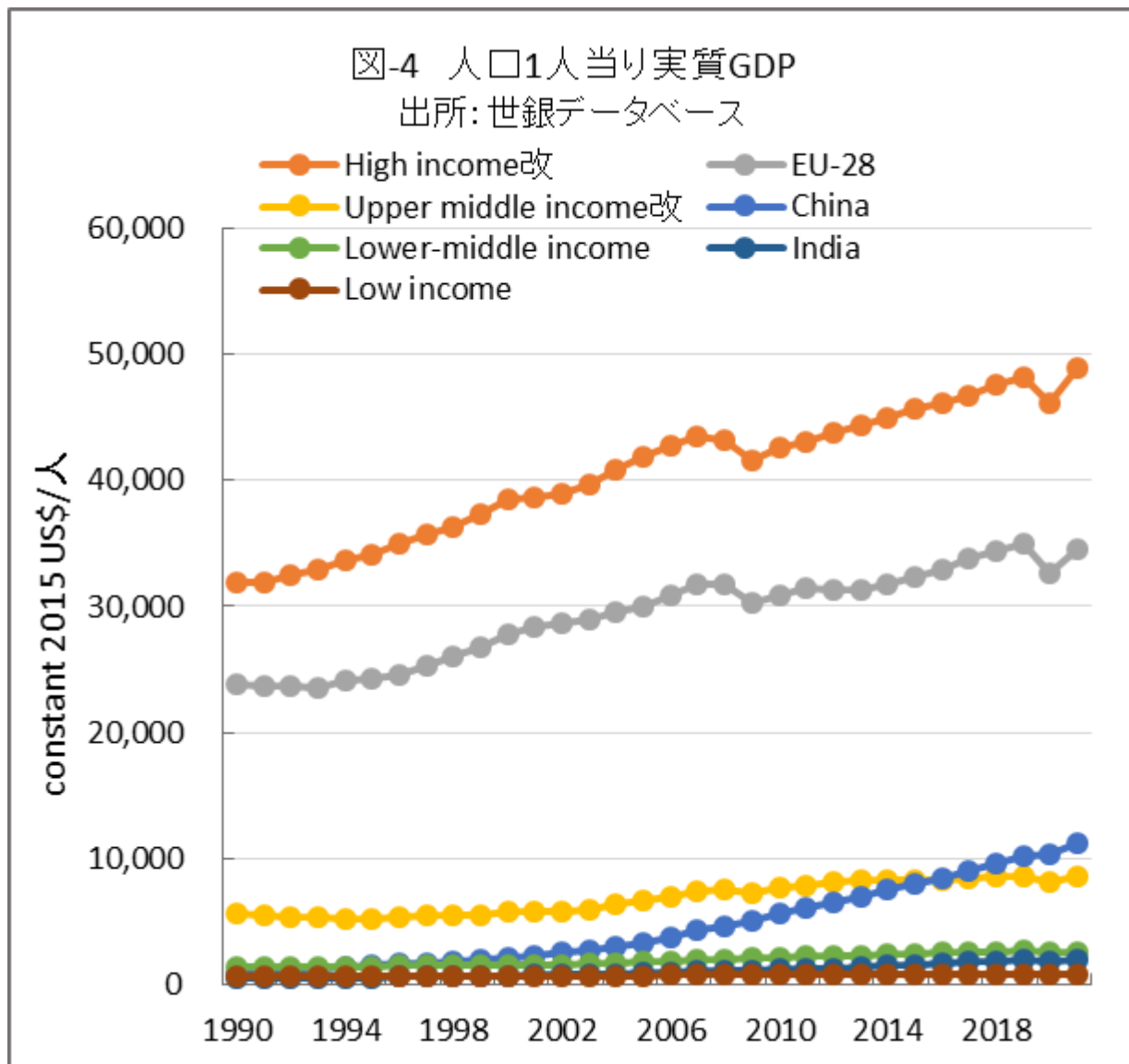
High  
 income???2019?GHG??90%?????  
 ??????2060?????2050??

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

2050?????GHG??

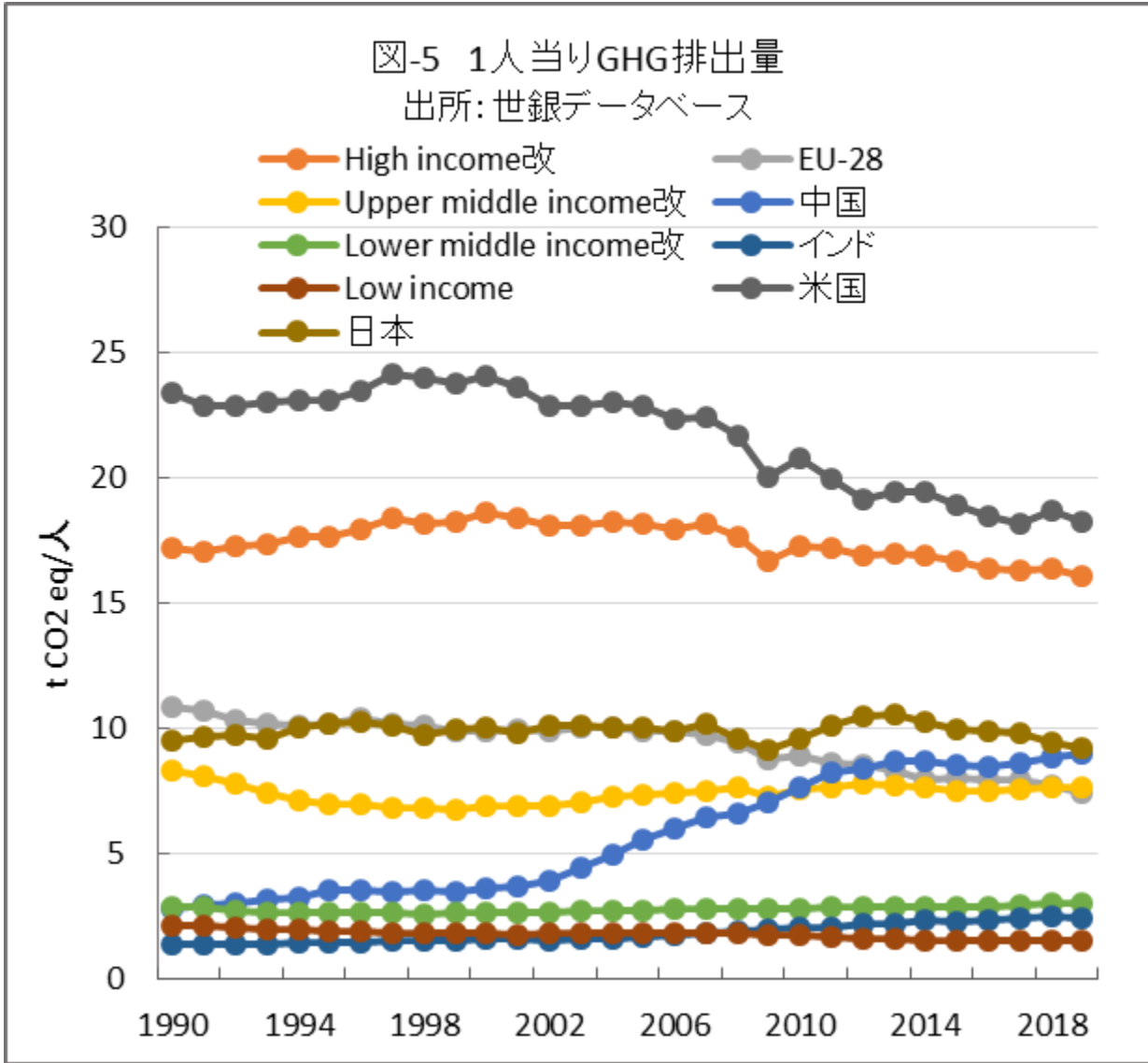
?-4??1?????GDP????????????-1?????????GNI????????????????????????????????????GDP?????G  
 DP?GNI????????????????????????GDP?GHG????????????????????1????????????????



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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????????????????????????21???CO2????????????????????GDP????????????CO2????????  
????CO2????????????????????????????????

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????????2020??1000????6????????????????????  
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??GHG????????CO2????2030????????????????2060????????????????????????????2030????????????????  
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1980??COP26????  
??2070????GHG??20????????????????30??GHG????????  
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??????GHG??????1??3??  
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????????GHG????2/3????????????2050????GHG????????????????GHG????????????????????  
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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.<https://t.co/fMaPYsHGUT>

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

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

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

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

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

????????????1984????????Animal  
Farm??  
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????Tackling  
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????????????????



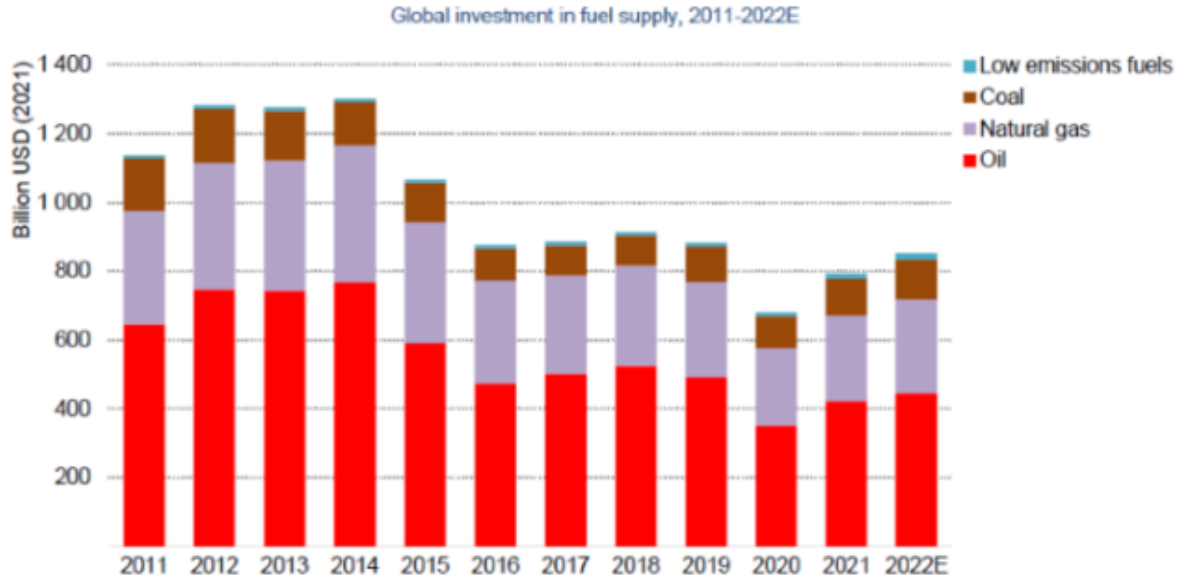
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???World Energy Investment 2022, IEA

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???IEA?????????Net Zero by 2050????????2050????????????????????????????????1.5????????????????????????????????  
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????????2050??IEA?21?????????World Energy Outlook  
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**ESG?**

ESG  
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Economy Environment Energy  
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**ESG 2.0?**

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2050 2030

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ESG 2.0

Posted in | 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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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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????CEO??CO<sub>2</sub>????????

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











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?? ?? · Monday, October 10th, 2022

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allanswart/iStock

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

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

?? ?? · Tuesday, October 4th, 2022



Daniele Mezzadri/iStock

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?? ?? · Monday, October 3rd, 2022



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