

# Global Energy Policy Research | GEPR

GEPR <http://agorajp.com/>

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?? ? · Wednesday, December 14th, 2022



suken/iStock

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

????2021??COP26????????????????????????????????????2050????????????????????????????????????2060????  
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??2022??COP27??  
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????????????????????????IPCC?COP??  
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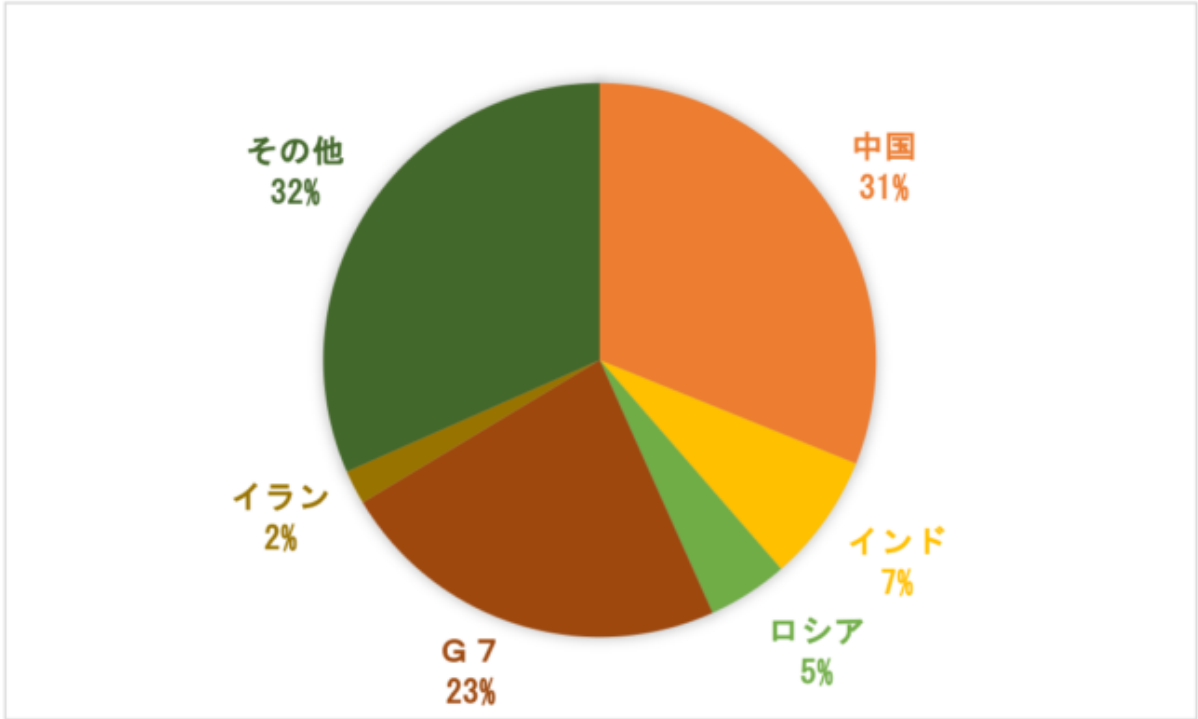
??18????  
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2021年エネルギー政策  
Global Note

**G7**

2021年G7エネルギー政策  
23.2%

2021年G7エネルギー政策  
23.1%

**その他**

2021年その他エネルギー政策  
32%

universal (particular)

2021年その他エネルギー政策  
32%

2021年G7エネルギー政策  
23.1%

**その他**

2021年その他エネルギー政策  
32%

2021年その他エネルギー政策  
32%

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

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12??1.5????????.....????????G7????23????20????77  
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13??3??  
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14????????????????????????????????????GN?GS????  
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????15????????<sup>25</sup>?

????GS????

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?1????????????????3.11??2012)????????????????????????????????

?2????????6?100?????1??????????????

?3?2010????????????????????????????????????25????????????????????????????2010?12?1???50????????????????????????????????????  
?2012:91-93??

?4?????????????????2022??????

?5??  
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- Bernard,C.,1865,*Introduction à l'étude de la médecine expérimentale* .(?1970,????????????????????).
- ??,2012,????????????????????.
- ??,2022,????????????????????????????????????11?24?.
- ??,2022,????????????????????????????12?8?.
- Shumpeter,L.A.,1950,*Capitalism, Socialism and Democracy*,3<sup>rd</sup> .??1977??.
- ??,2022,?COP27????????14????????????????????????11?23?.
- Urry,J.,2016,*What is the Future?* Polity Press Ltd.??2019????????????????????.
- ??,2022,????????????14????????.

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

## ????????????SDGs???????????

?? ?? · Sunday, December 11th, 2022



smolaw11/iStock

**????????????COP15?????????: ??????**



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CO2??  
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CO2

COP27

CO2

2010 COP10

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- 2.
- 3.

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10 1950 1960

NPO

10 COP15

SDGs

2010 COP10







muhammet sager/iStock

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??10????????????????20,000???203  
0????50,000????????????

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????????????2015??2,351????2040??80????????

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

**????????????????10???**

?? ?? · Monday, December 5th, 2022



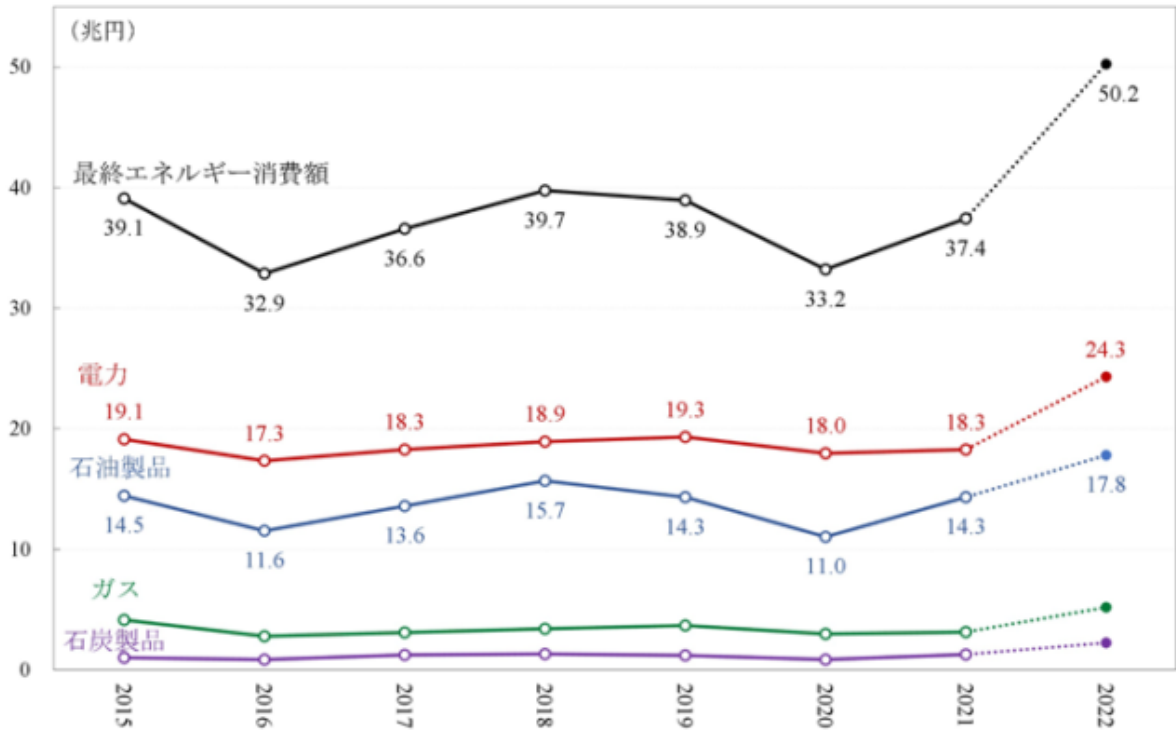
Daniele Mezzadri/iStock

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# エネルギーコストの年次動向

- 2022暦年の最終エネルギー消費額（予測値）は50.2兆円、前年差で12.8兆円（前年比34.2%）の増加見込み。
- 2022暦年の電力消費額（予測値）は24.3兆円、前年差で6.0兆円（前年比33.1%）の増加見込み。



エネルギーコスト・モニタリング (ECM) ECM\_JPN\_202211 © 2022 慶應義塾大学産業研究所 野村研究室

単位：兆円。注：観測期間は2015年—2021年。2022年値は2022年10月値までを反映した予測値。

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????????????????????????????????????2023????????????????????????????????

????9????????????????????????????????2.5????????????????????????

??????10????????????????????????????????2016????????????????10????????????

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

**GX????????????????????**

?? ?? · Thursday, December 1st, 2022



y-studio/iStock

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??Wikipedia

1?????????????????2??BWR?82?kW????2021?9?????????????????1?????????????????  
?????2013?????????????2024??1?????????????????????????????1????????????????????

????3??ABWR?????????137.3?kW?????????????90?????????????????3.11?????  
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?3.11?????????3?????????????????????3?????????????????????????????????????3??  
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3?????????????????????????????????????——?????????????????????3.11?????????  
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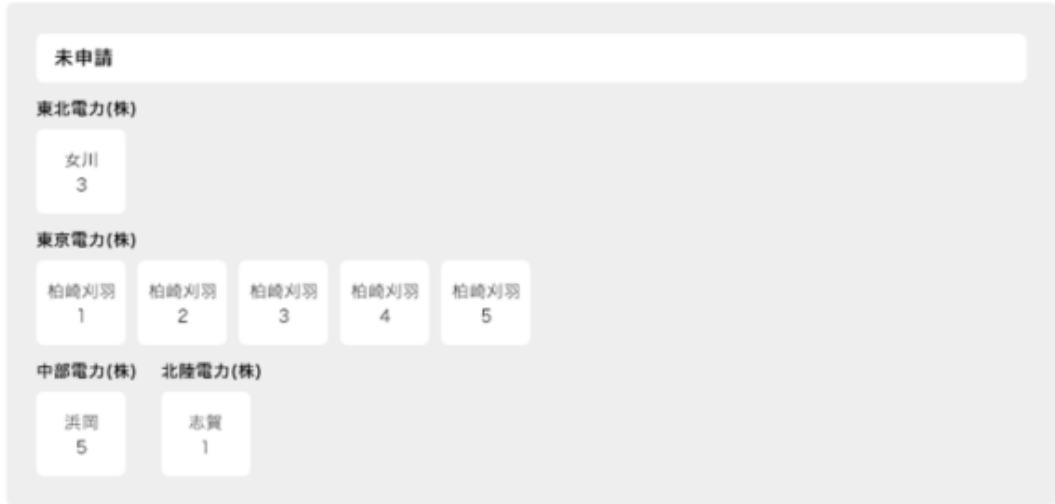
??????67??  
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??8????????????????? ?????????1????5?????????——?????????

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 ?????6?440?kW????????????????????????

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**GX????????????????**

11?24??GX????????????????????

??2050????????????????????????????5????????????

1. ???
2. ???
3. ?????????????????60????????????????????
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?2019????????????30km????????????????????????2018?9?26????????????????????  
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Posted in ??????????, ??? | No Comments »

# ????COP??????

?? ?? · Tuesday, November 29th, 2022

COP27??COP????????????????????????C  
OP??CO  
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dinn/iStock

## COP27???

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??COP????????????????????

??COP27????UAE????  
??COP????EU????

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??COP????1????  
????COP28????

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????COP26????1.5????  
????IPCC????

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??EU????1.5????

????EU????1.5????2025????

????COP27????EU????  
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**???COP????**

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- ??????????2190??CO2?????????????????531??CO2?????????4.1????CO2?????????  
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- ?????????????3070??CO2?????????????????662??CO2?????????????????????????  
????1?????2?????????????????????1?????302??CO2?????????8.8??CO2?????????C  
O2????????????????CO2?????5.7????????
- ??????????2020?????????????2030?????????????????????????250kg-  
CO2/kWh????????CO2?????????????7.3?????????10.1????

??CO2????????????????CO2?????  
?????????????7?????????10????????????????

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

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

?? ? · Monday, November 28th, 2022



ricochet64/iStock

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COP27????????????????????????????????2030??  
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??2025????????????????????????????????  
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1.5??  
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??LMDC????????2  
050?????2030?????????????????????????1.5?????2050????????????????????????????????  
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??1000????????????????  
?????2030?????5.8?5.9??

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Tyranny????????????????????COP27????????COP????????????????????????????

Posted in ???, ????? | No Comments »

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

?? ?? · Friday, November 25th, 2022

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**??????EU??????????????**

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????2022?2024??EU????????????????????????????????  
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??2010=2010:278????????????  
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M1??8?????????11?18??

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??2022?????????  
??2022a??

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2022?  
9?20??2022?12?????????  
??2025?4????????????

??2022a??  
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??1872-1875=1979:4-5??????

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????3.11????????????FIT??10kW????????????????  
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?1??1kWh????????????????2020??2030????????????????????????????????????

|          | 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    |

2020年2030年  
 2021年2022年  
 2023年2024年  
 2025年2026年  
 2027年2028年  
 2029年2030年

2030年

2030年2030年  
 2030年2030年

2030年2030年  
 2030年2030年

|                     | 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 |

2030年

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

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????????????????????1?2030?2????????????????????10????????????9????????????  
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????2019?1????????????????????

**3??????50??**

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????9????2021????????????????2022?7?1????????  
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????????????????????expressive????????????????????instrumental?  
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030????46????????

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

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



imagedepotpro/iStock

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

## **COP27?? “????” ??????????????NHK?**

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O2??

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

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

??46????????????????????????????  
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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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????????????????????????????????4?6??

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>

????????????????????????????2030?????5.8??5.9????????????

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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2030????????6????????????????2024????2029??6????????????????1????????????

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

????????????????????????????????12?13??

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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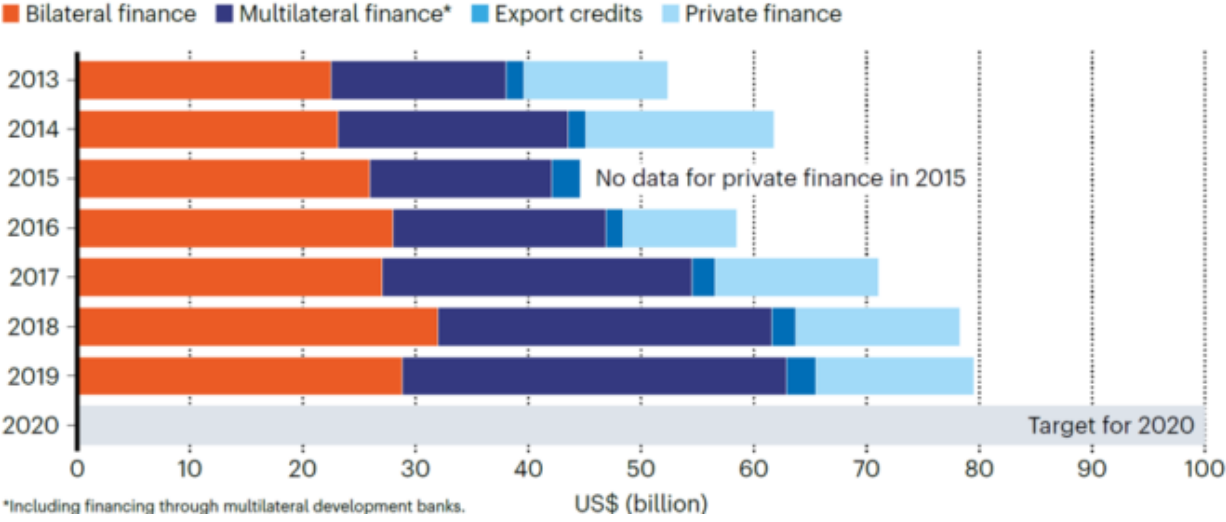
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COP21 in 2015 in Paris. The \$1 trillion per year is a very different concept – it is a requirement based on an analysis of the investment and actions necessary and the domestic finance potentially available, for an internationally agreed and vital 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.

?????1000??2020??Nature????????????????????  
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**MISSED TARGET**

Rich countries promised developing nations US\$100 billion a year in climate finance by 2020.



\*Including financing through multilateral development banks.

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?????1000????????????????COP27???????10???1?????????????140???????1??????????????????  
???????14????14????????????7%????????????????10%????20????????????????????????????7%??????  
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Posted in ???, ????? | No Comments »

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?? ?? · Tuesday, November 22nd, 2022



Olga Burkova/iStock

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????????????(loss and damage)????????????????

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????(adaptation)????????????????????????

1997????????????????????????????????????(mitigation)????????????????  
????????????????????2015????????????????????

COP26????????????????????????????????????1????????????????????  
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COP27??EU?1.5??  
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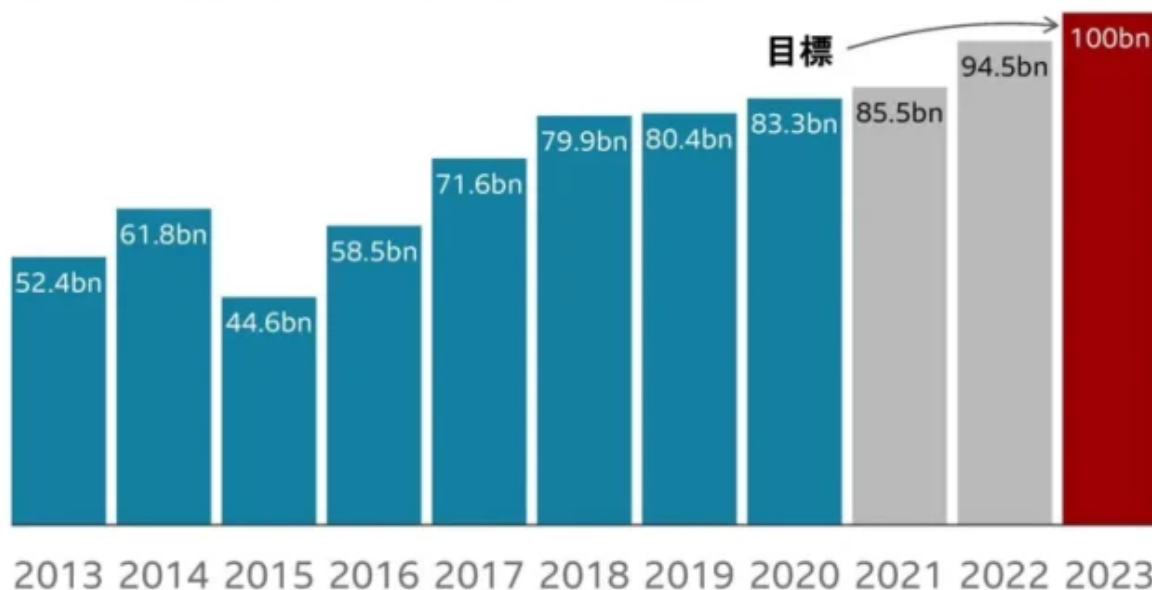
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?????BBC????????????????????????????????833?????2020??????1000????????????????????  
?1????????

## 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)



????IEA????????????????????4????????????????????COP????????????????????????????

????????????1800??????5??

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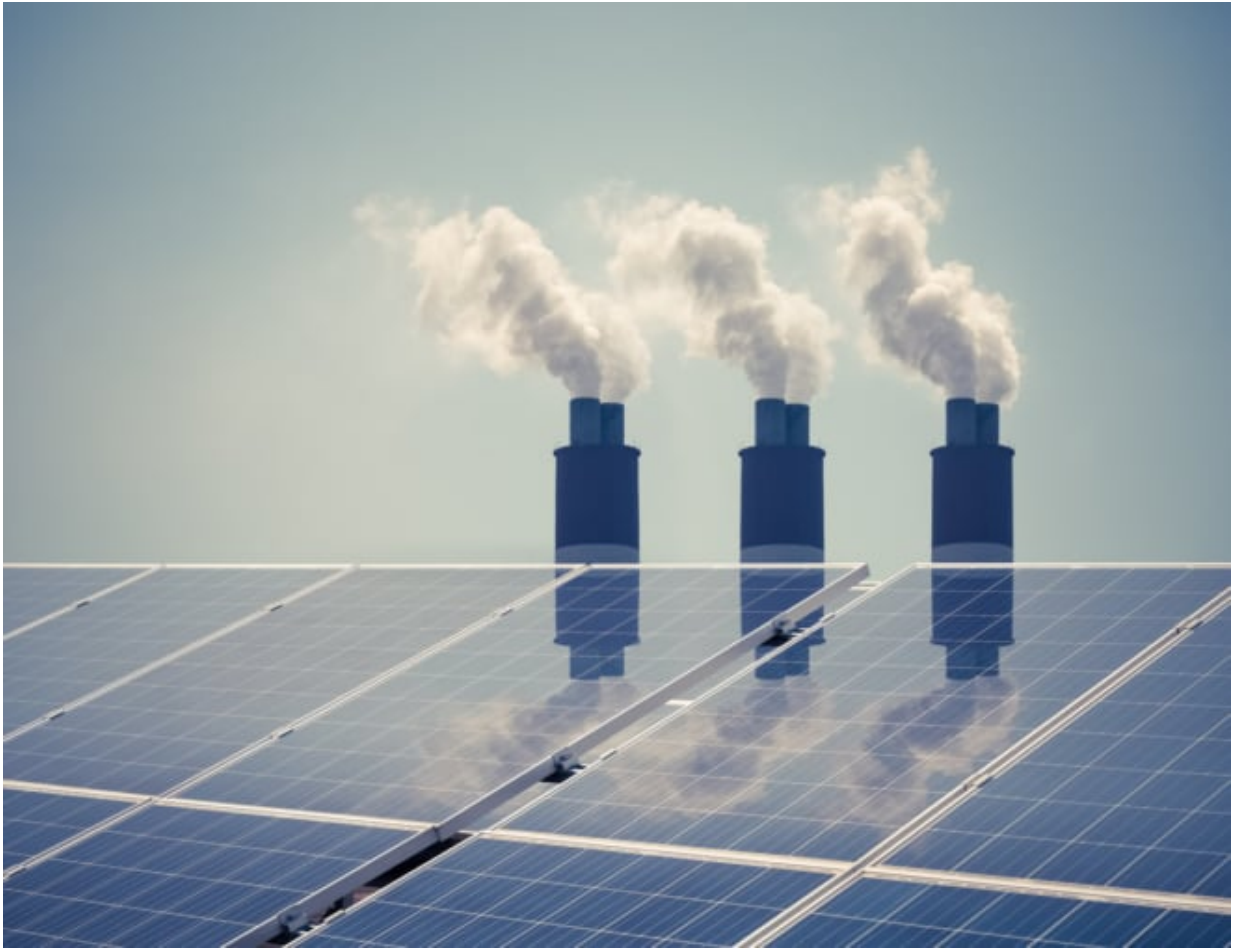
COP27????????????????????COP28?UAE????????????????1.5????????????????

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Posted in ???, ????? | No Comments »

# CO2

?? ?? · Saturday, November 19th, 2022

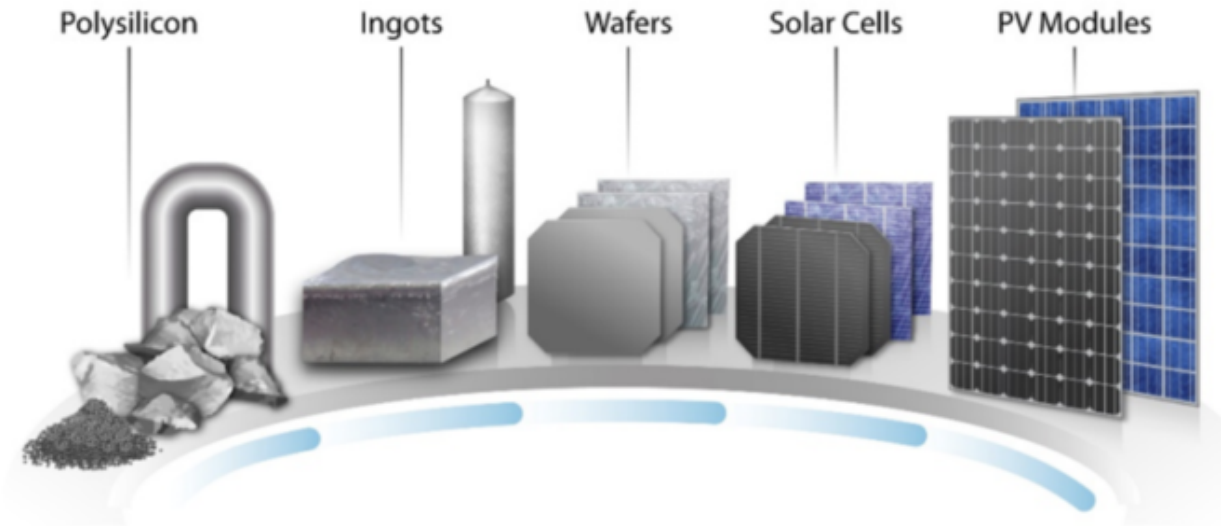


chuyu/iStock

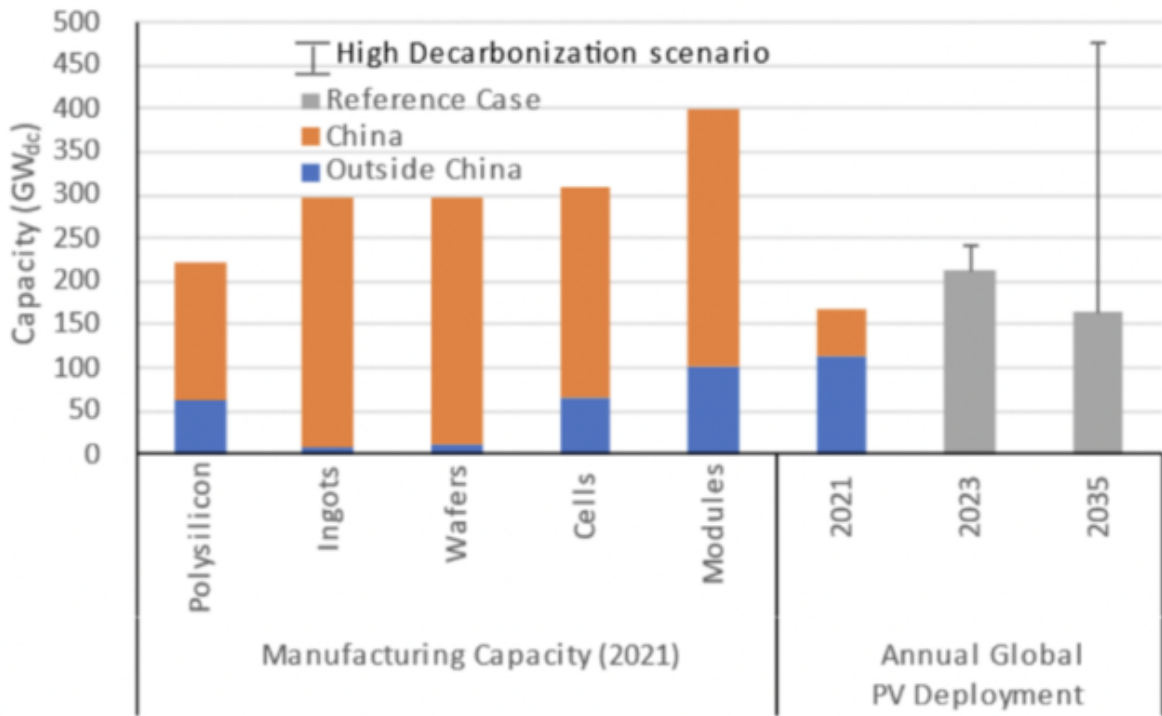
????????????????????(Sins of a solar empire)??10????????CO2??????????????????

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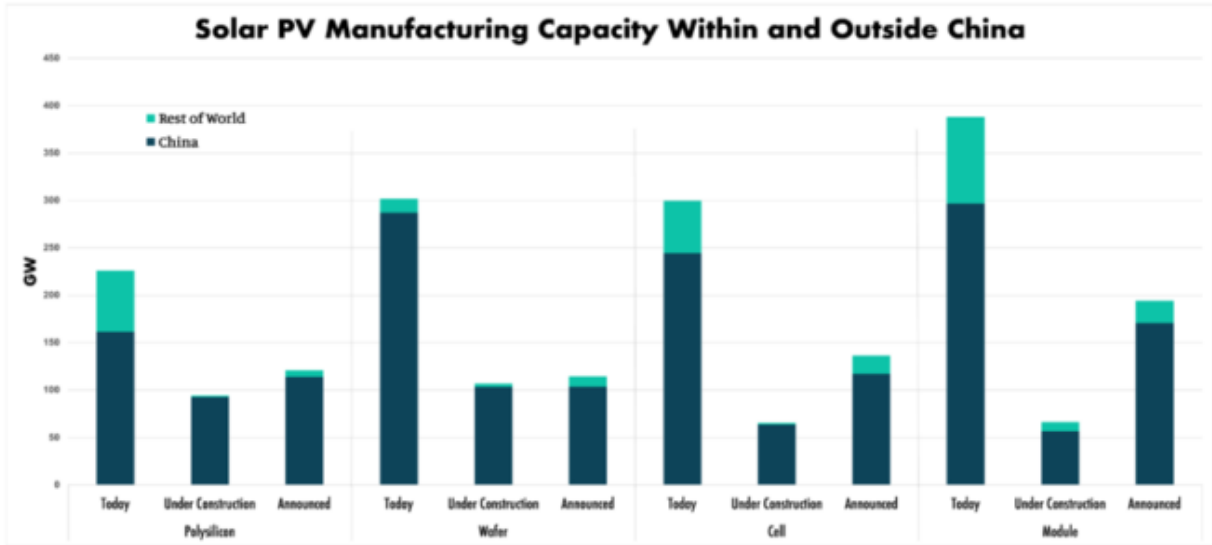
5????????????????2021??



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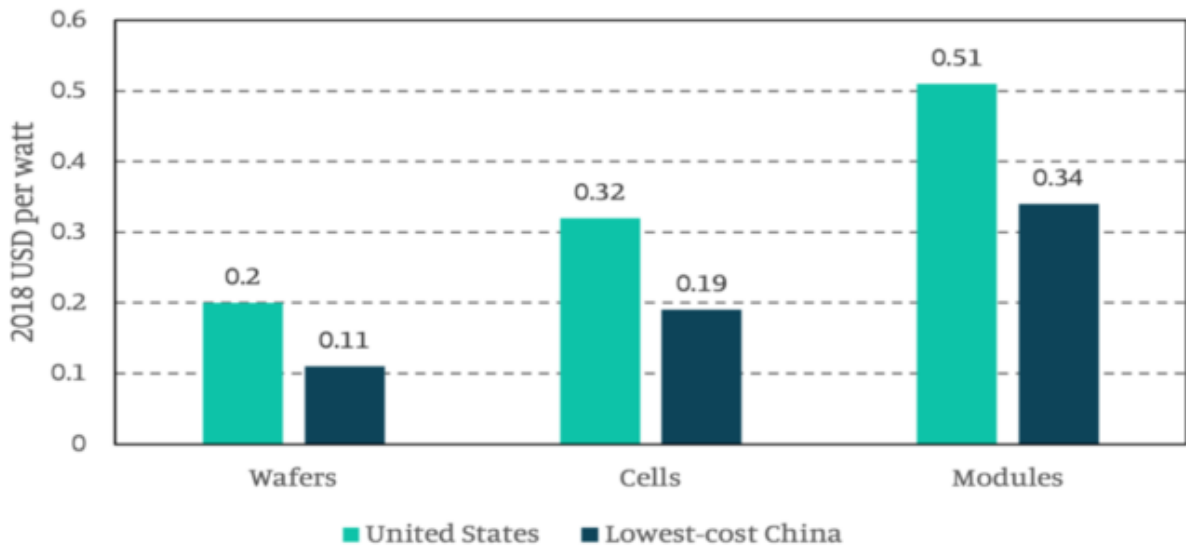






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### Minimum Sustainable Price (MSP)



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Posted in ???, ????? | No Comments »

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?? ? · Saturday, November 19th, 2022



Nastco/iStock

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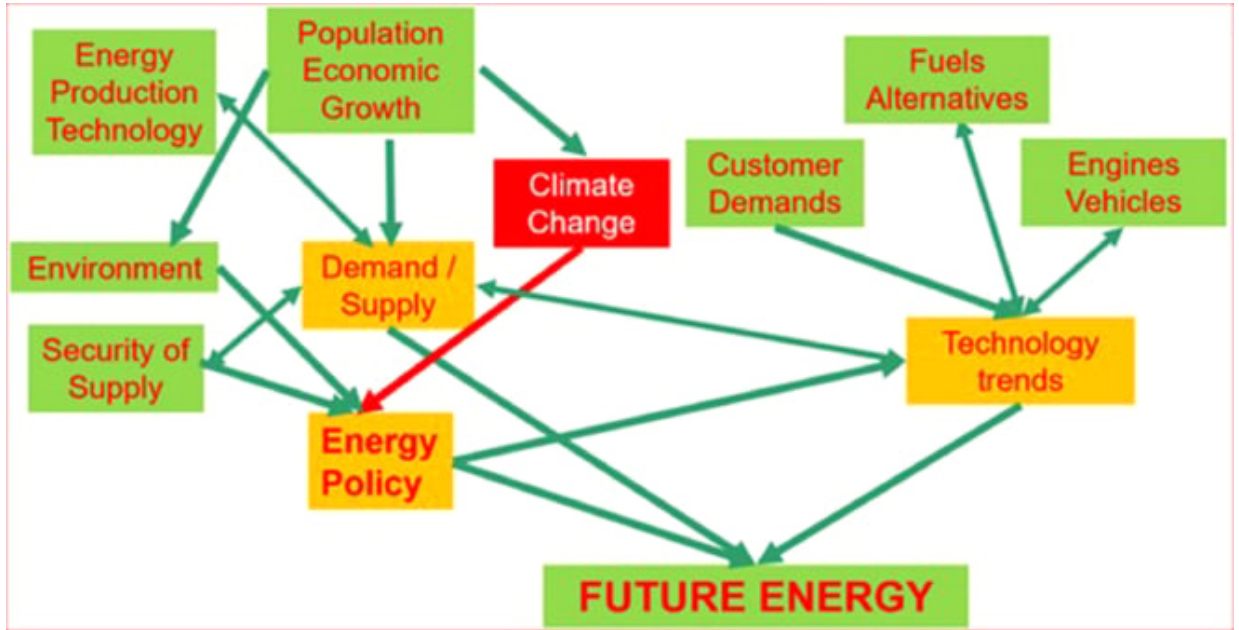
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CO2

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2021 BP 82.3% 489.66 EJ / 595.15 EJ 1.75%

Table 1. Primary energy and electricity sources in exajoules, EJ (10<sup>18</sup> 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        |
| <b>Total fossil fuel, EJ</b>    | <b>489.66</b> | <b>130.93</b> | <b>75.66</b> | <b>31.74</b> | <b>5.48</b> |
| 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       |
| <b>Total Primary Energy, EJ</b> | <b>595.15</b> | <b>157.65</b> | <b>92.97</b> | <b>35.43</b> | <b>7.18</b> |
| <b>Electricity Generation</b>   |               |               |              |              |             |
| 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.

?1

BP IEA

1 EJ = 277.8 TWh

1 EJ = 10<sup>18</sup> joules

1 TWh = 10<sup>12</sup> Wh = 3.6 EJ

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

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

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

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????????????????????Wh????????????J or cal????????41.5%????????IEA????????10????33? ?????100????????

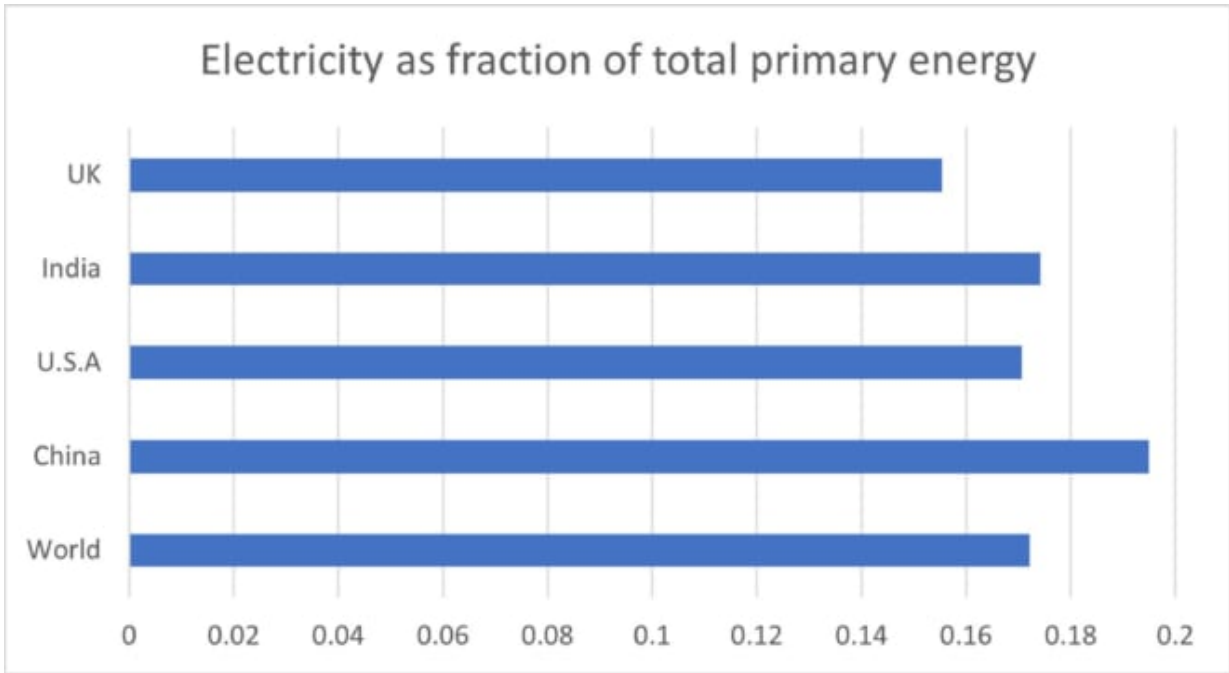
????????????BP????1kWh = 860.6kcal = 3.6kJ?IEA????41.5%????0.415????1kWh = 2074kcal = 8.67kJ????0.415????

????????????IEA????????????????????????????????

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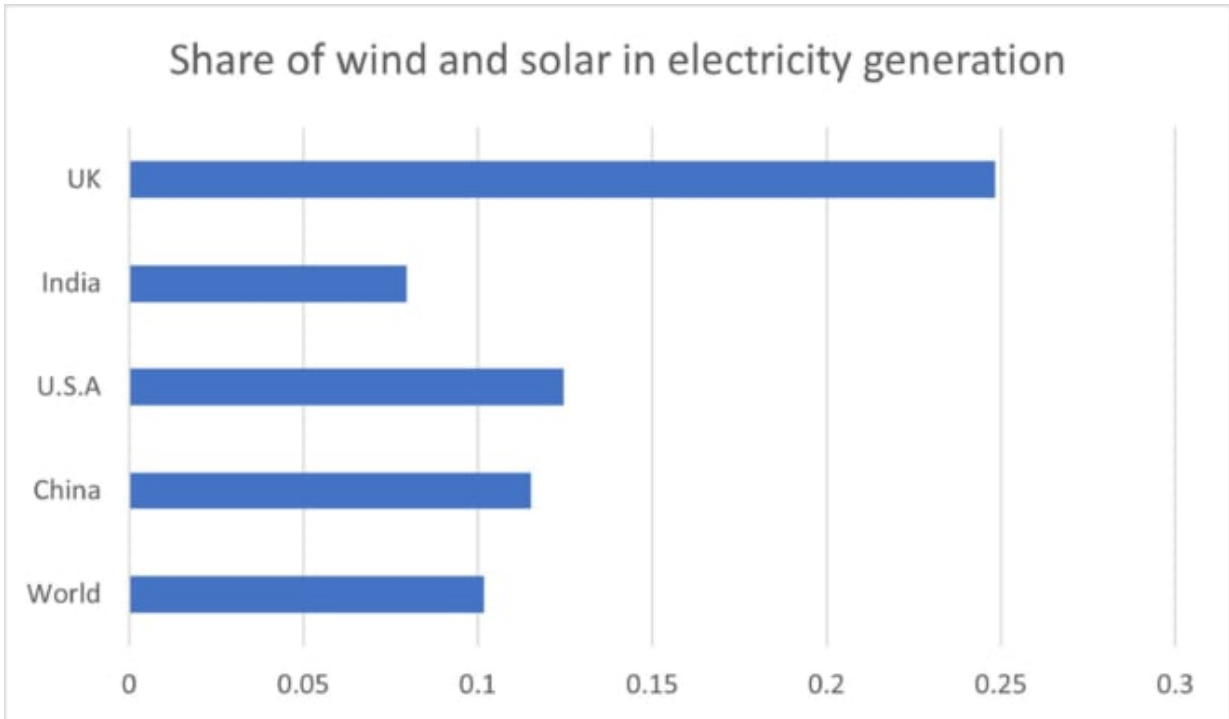
????????1????489.66EJ????105.49EJ??254.19EJ????0.415????2.4????5 95.15EJ??743.85EJ????17.7%?=106.49/595.15????34.2%?=254.19 /743.85????

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



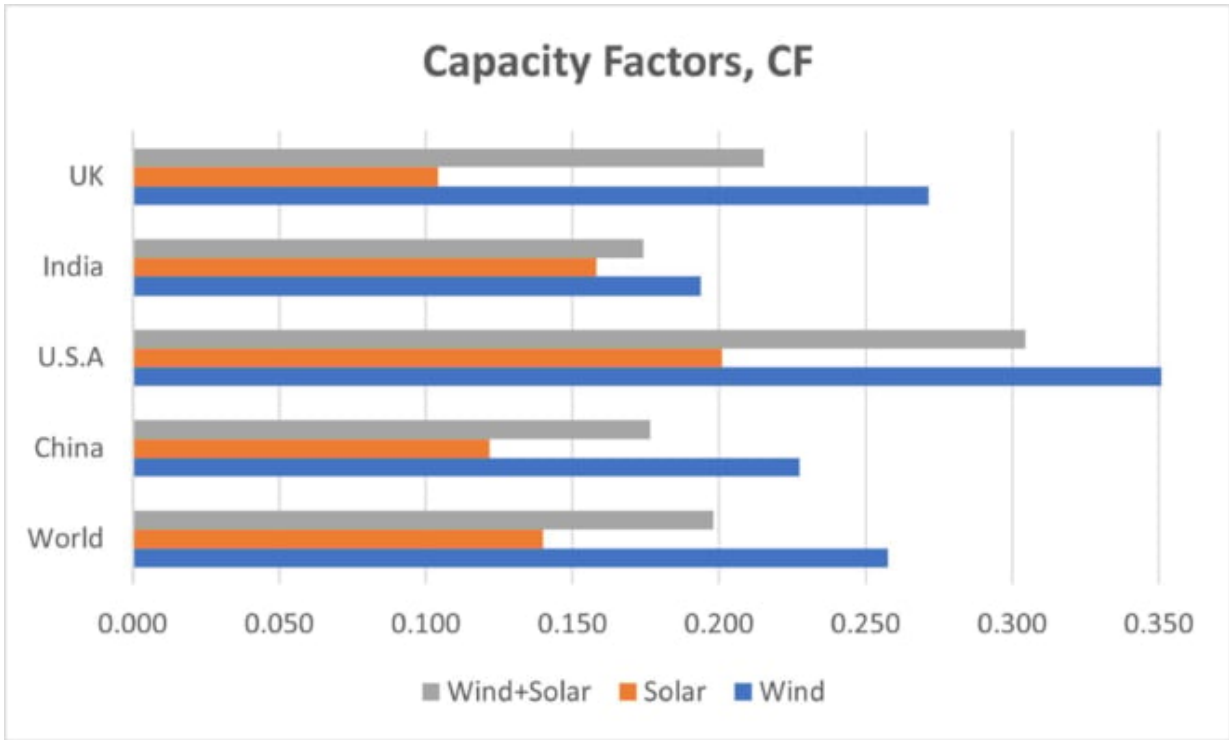
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Posted in ???, ????? | No Comments »

### ??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

??27????????COP27??CSR???  
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**??2022?11?9??**



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2050????????????????2030?CO2??

2030?CO2??  
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alle12/iStock

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Posted in ???, ??? | No Comments »

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



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

### ????CO2????????????????????0.1?

?? ?? · Thursday, November 10th, 2022



hanibaram/iStock

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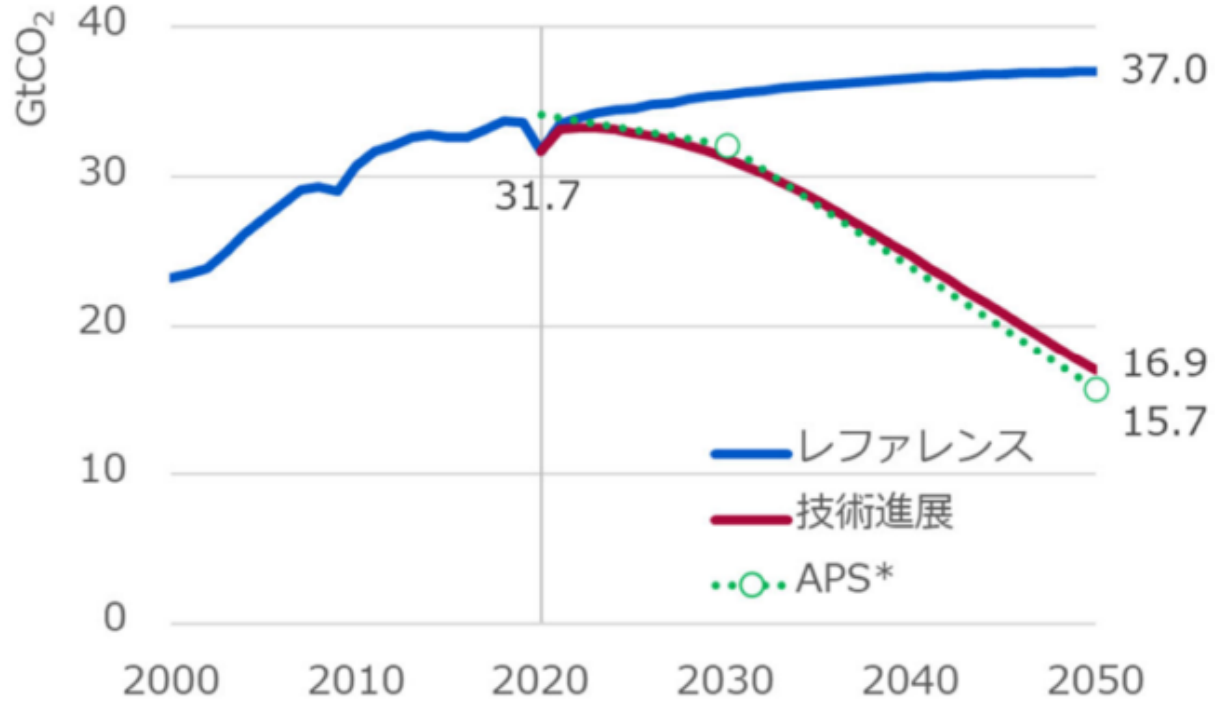
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CO2??CO2????????????????????????????????????? 2050  
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### エネルギー起源CO<sub>2</sub>排出量の見通し



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Posted in ???, ????? | No Comments »

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?? ?? · Thursday, November 3rd, 2022



bee32/iStock

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

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?? ?? · Monday, October 31st, 2022

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

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北兵器研究施設で技術者ら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

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

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Heiness/iStock

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

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

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

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Posted in ???, ????? | No Comments »

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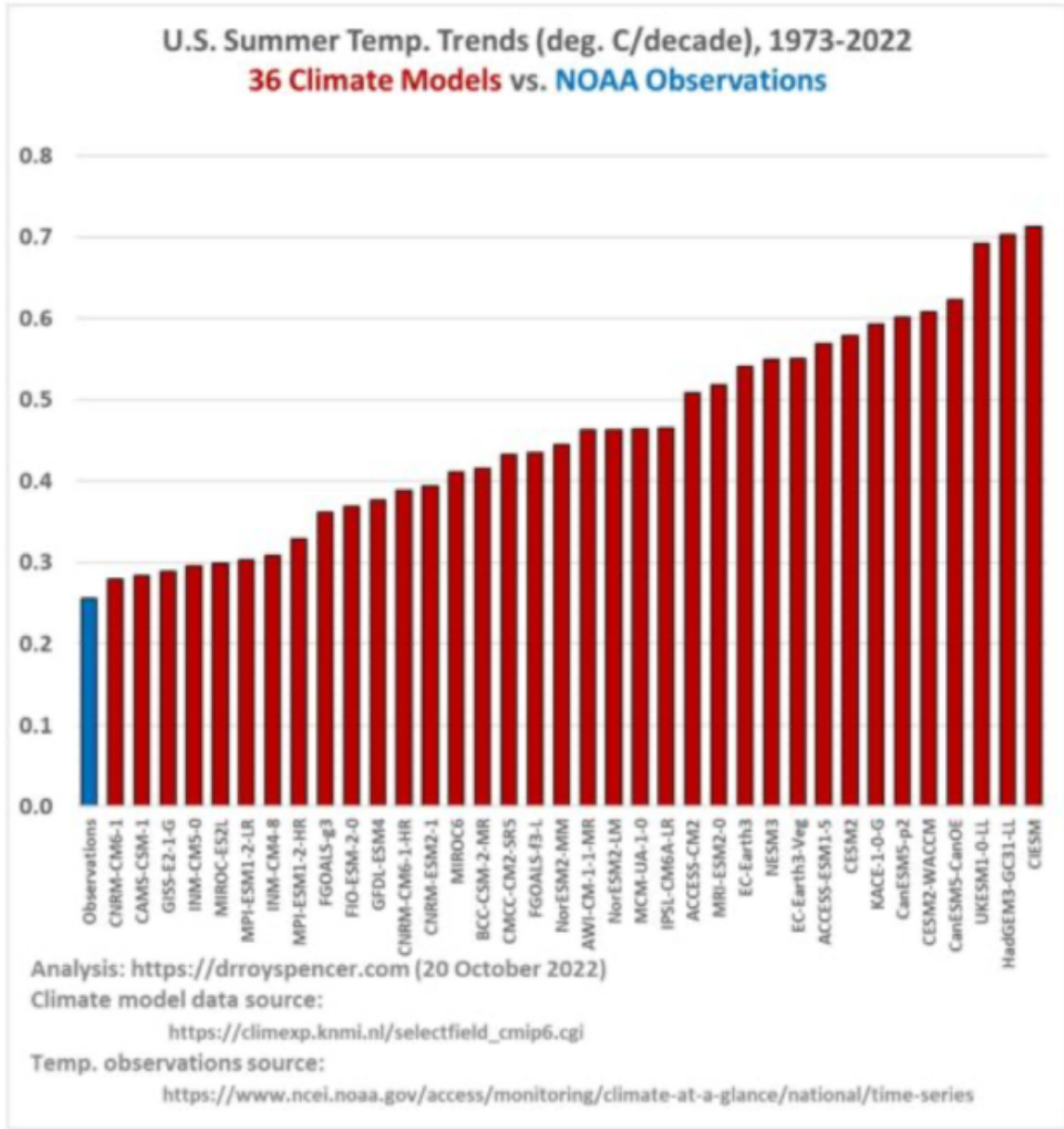
?? ?? · Friday, October 28th, 2022



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

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

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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**

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

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

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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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2020????IPCC????????????????2.5????4????????????????????????????????????

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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  
G??

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50????GHG??

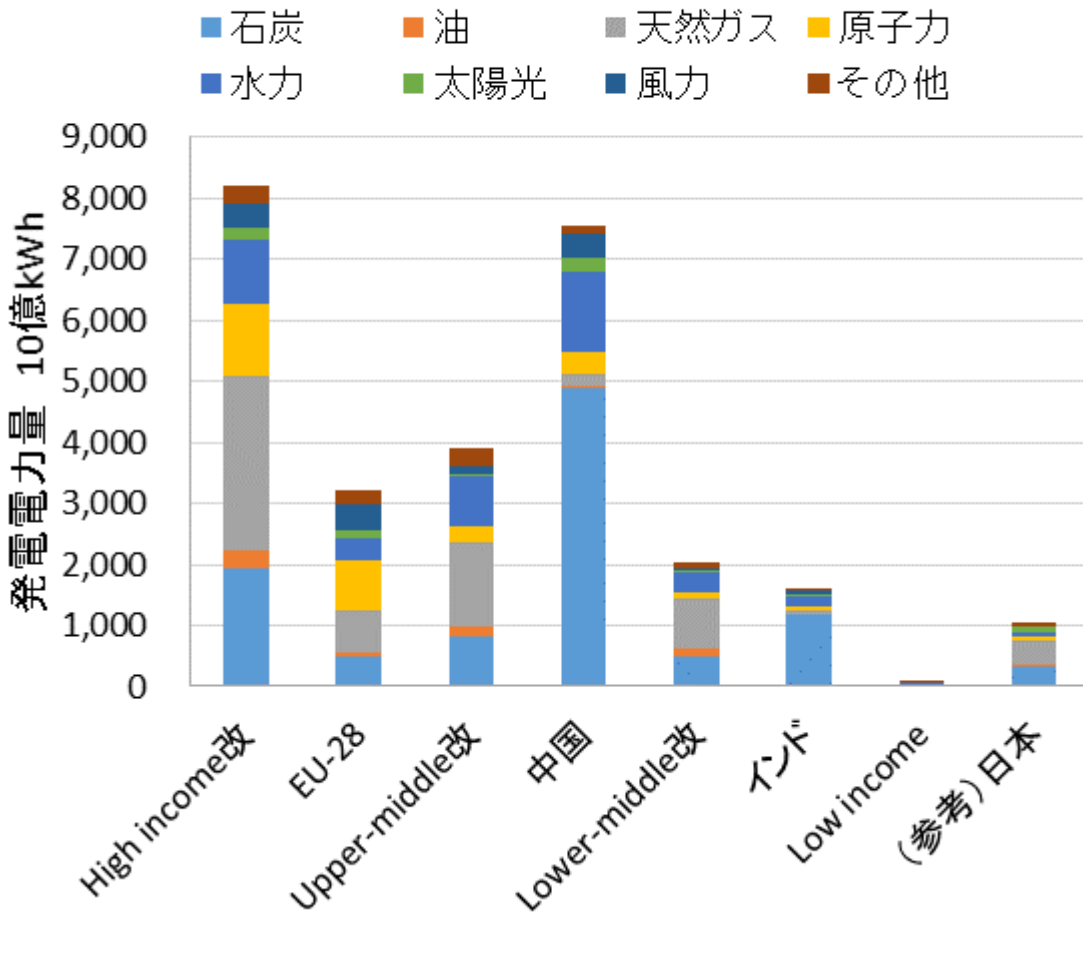
????2050?????????????????? ??

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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



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。

GHGの排出量は、高所得国改が最も高く、約7,000億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6,500億kWhで、水力が主要な電源です。EU-28は約2,500億kWh、Upper-middle改は約3,000億kWh、Lower-middle改は約1,500億kWh、インドは約1,000億kWh、Low incomeは約100億kWh、(参考)日本は約1,000億kWhです。





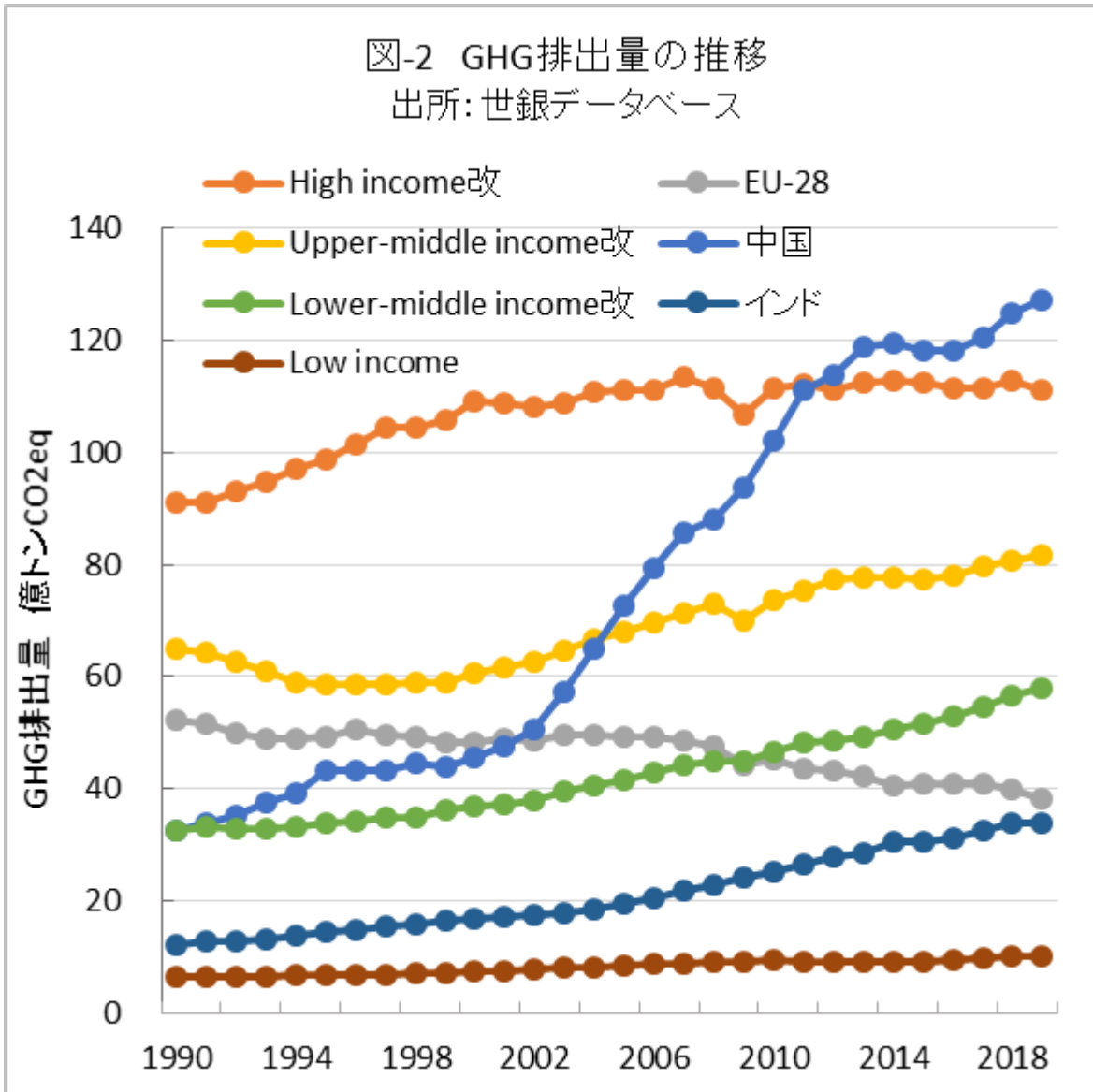










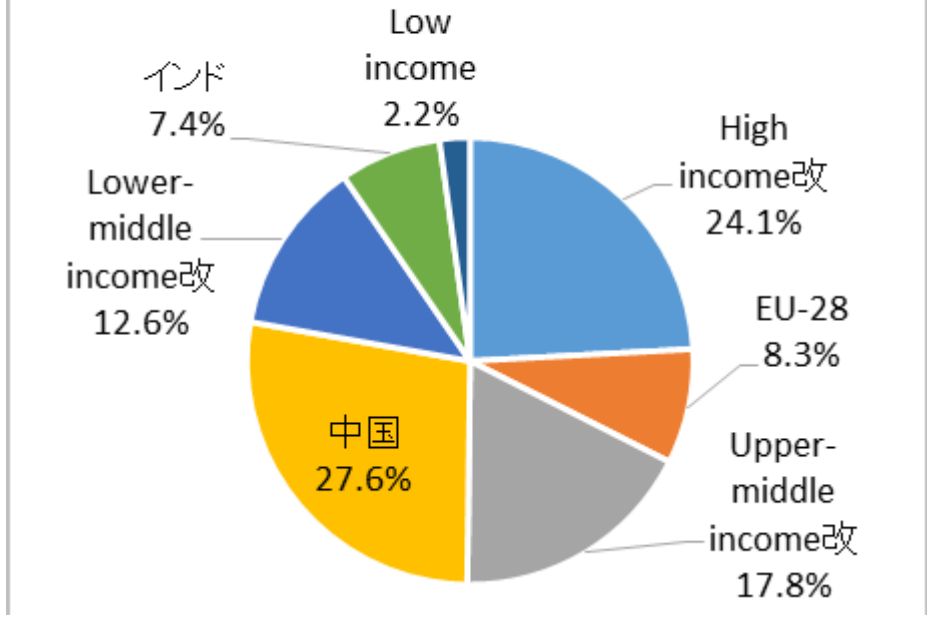


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?-3?2019??GHG????????????????????1/3????????????????2/3????????????????GHG????????????2%??  
????????????GHG????????????????????????????

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

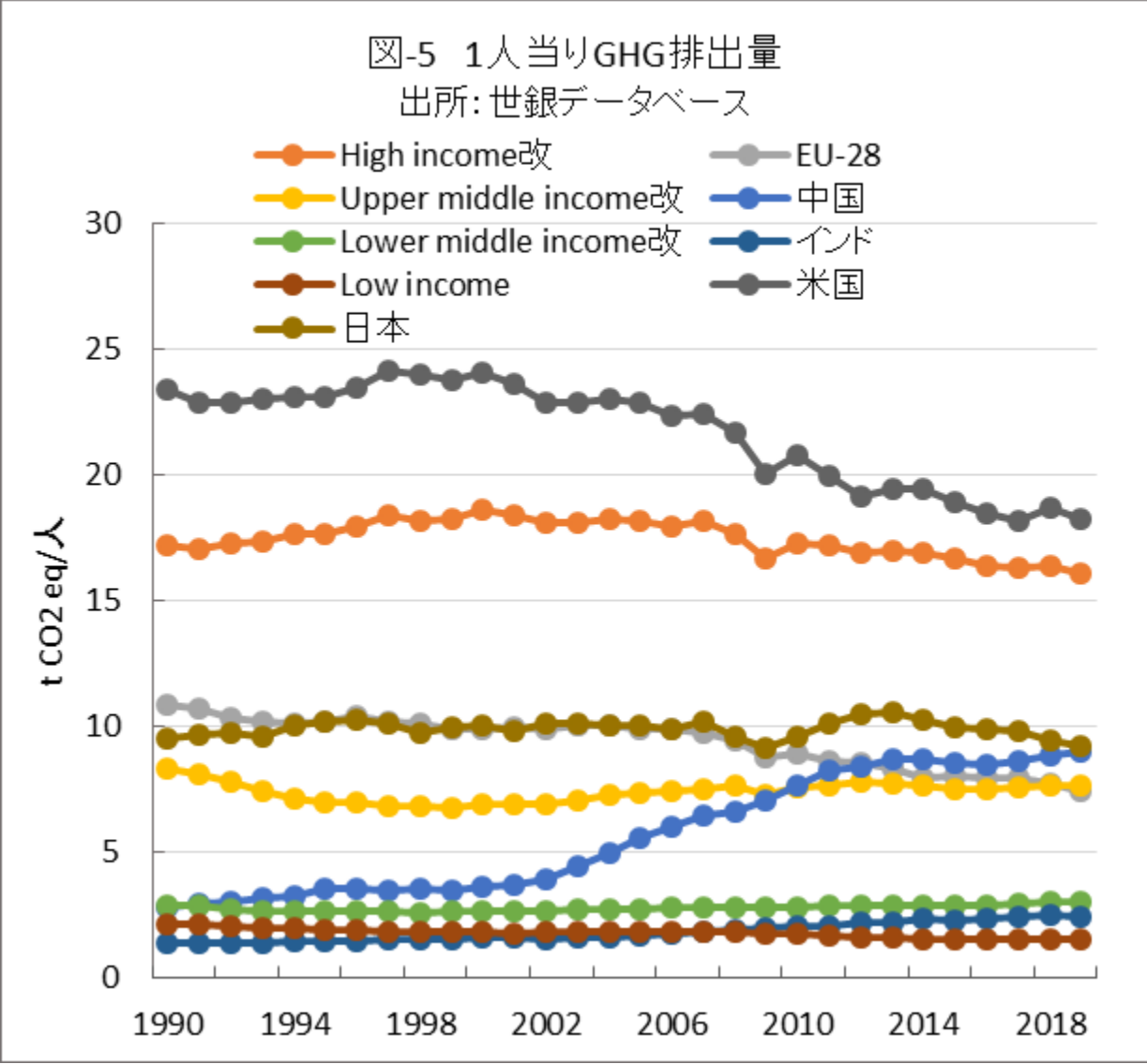
??GHG????????????????????????????????  
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2050?????GHG??

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 DP?GNI????????????????????????GDP?GHG????????????????????1????????????????





25

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

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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

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You Tube??TikTok?????????Team  
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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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2021??STEPS????????2030????????????????  
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**ESG?**

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**ESG 2.0?**

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

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MadamLead/iStock

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