

# Global Energy Policy Research | GEPR

GEPR <http://agorajp.com/>   
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????COP??????

?? ?? - Tuesday, November 29th, 2022

COP27?????1?????COP?????C  
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dinn/iStock

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### ????????????????CO2????10????

?? ?? · Monday, November 28th, 2022



Michael Piepgras/iStock

??10????????CO2????????????????????????

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| 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

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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 |

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- Harvey,D,2014.*Seventeen Contradictions and the End of Capitalism*,?Profile Books.(?2017?????????????????????)
- ??,2009,????????????
- ??,2012,????????????????????



- ???,2022a,????????????????????????????????8?????????????:17-53?
- ???,2022b,????????????????22????.
- Livingston,J.A.,1973,*One Cosmic Instant?Man’s Fleeting Supremacy?*,Houghton Mifflin Company.(?1992????????????????????????????????).
- Marx,K,(traduction de Roy),1872-1875,*Le Capital*,Maurice Lachatre et C<sup>ie</sup>(?1979????????????????????????????????).
- Mosher,S & Fuller,T.,2010,*Climategate-CRUtape Letters*,Createspace.(?2010 ?????????????????????????).
- Parsons,T.,1951,*The?Social?System*,The?Free?Press.??1974????????????????????
- ????,2022,??11?8??
- ????,2022a,????????????????????????????.
- ????,2022b,??11?19??
- ???,2022,????????????14????????

Posted in ???, ????? | No Comments »

### 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

46????????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>

????????????????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;

??CO2????????????????????3????????????????????Nationally Determined Contribution??

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

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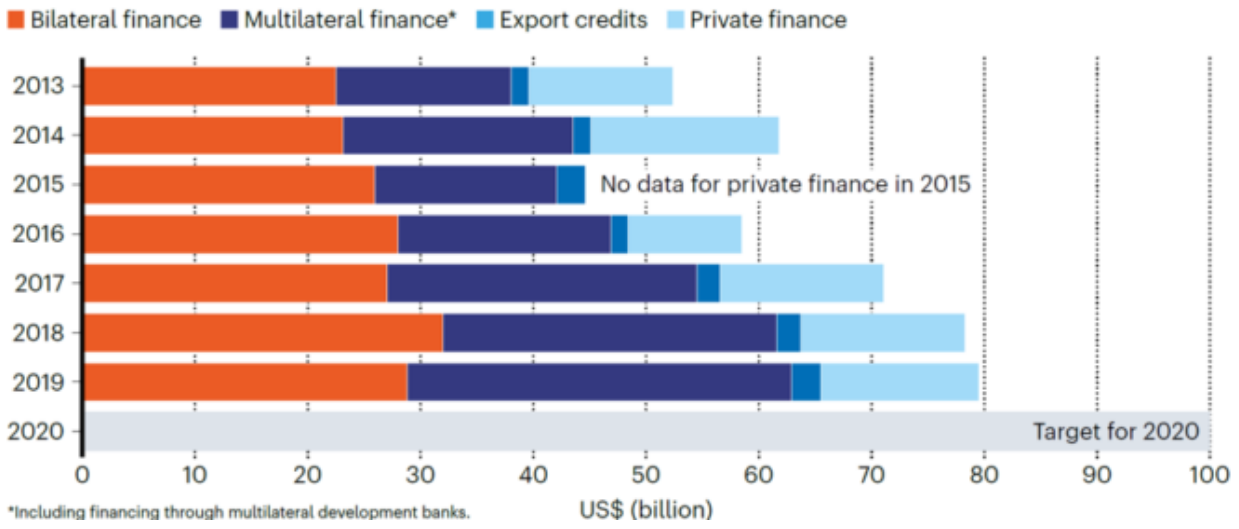
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COP21 in 2015 in Paris. The \$1 trillion per year is a very different concept – it is a requirement based on an analysis of the investment and actions necessary and the domestic finance potentially available, for an internationally agreed and vital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

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



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?? ?? · Tuesday, November 22nd, 2022



Olga Burkova/iStock

????????COP27????????COP26??  
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????(adaptation)????????????????????????

1997????????????????????????????????????(mitigation)????????????????  
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COP26????????????????????????????????????1????????????????????  
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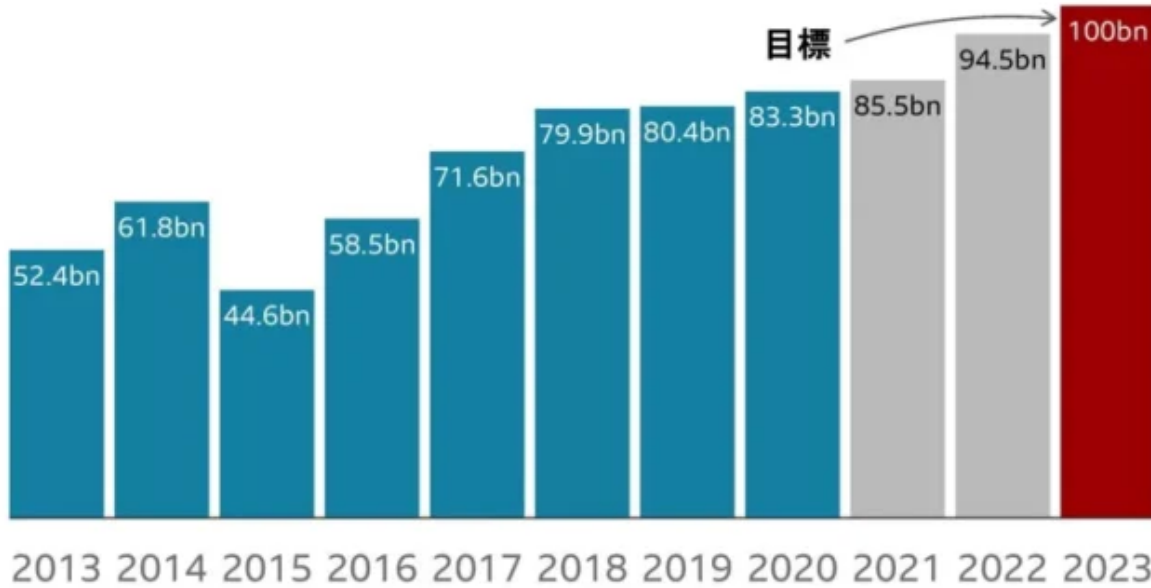
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### 気候変動対策の支援額 先進国が資金集めと供給を行った額(単位:10億米ドル)



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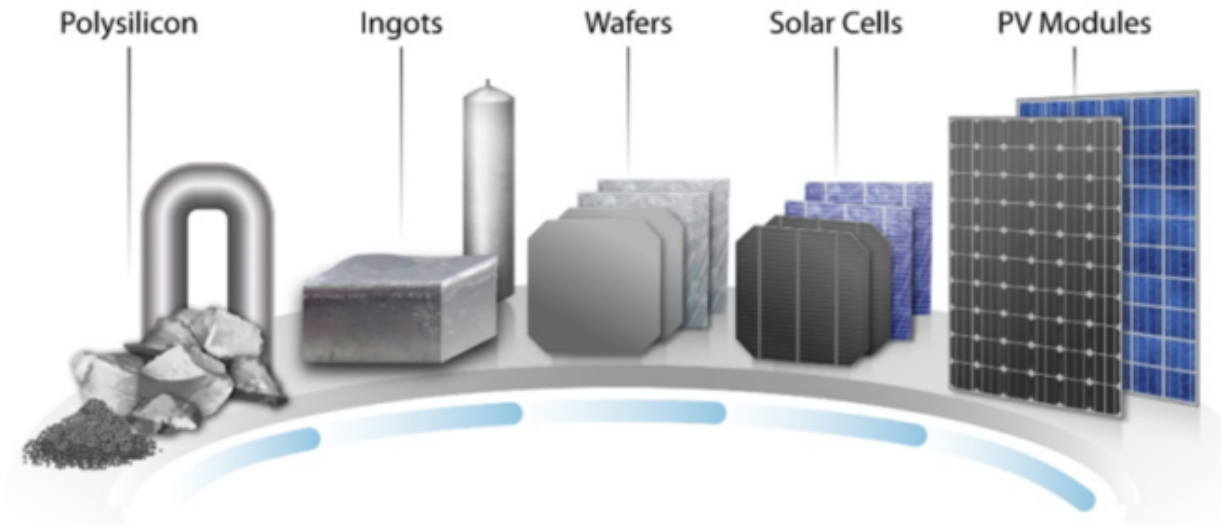
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COP27????????????COP28?UAE????????1.5????????

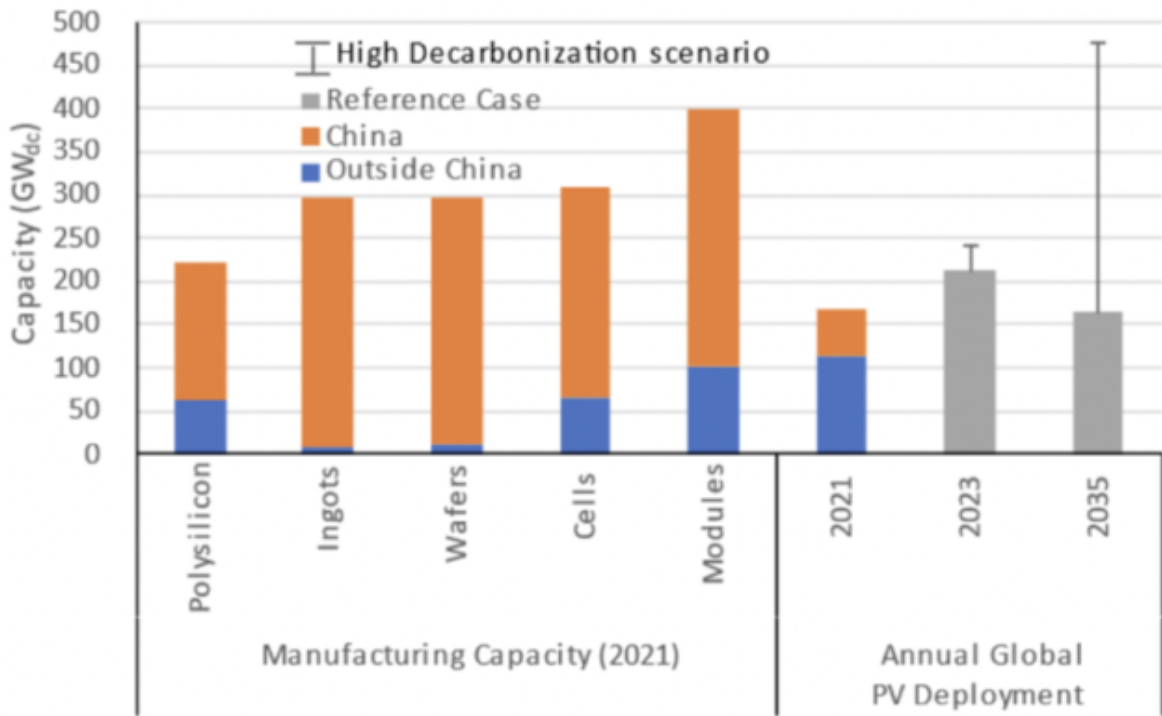
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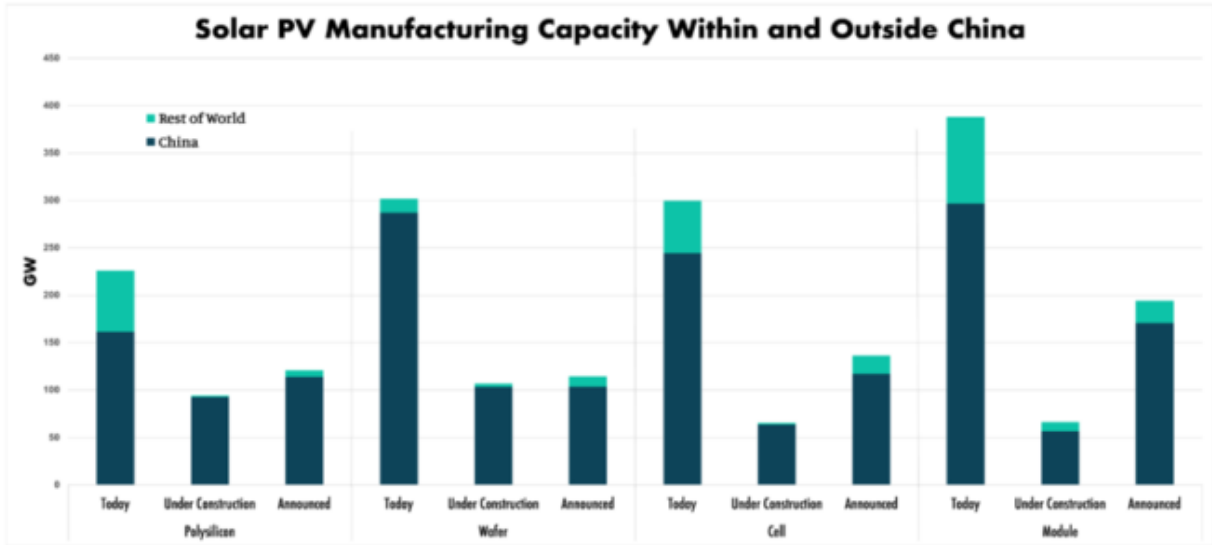


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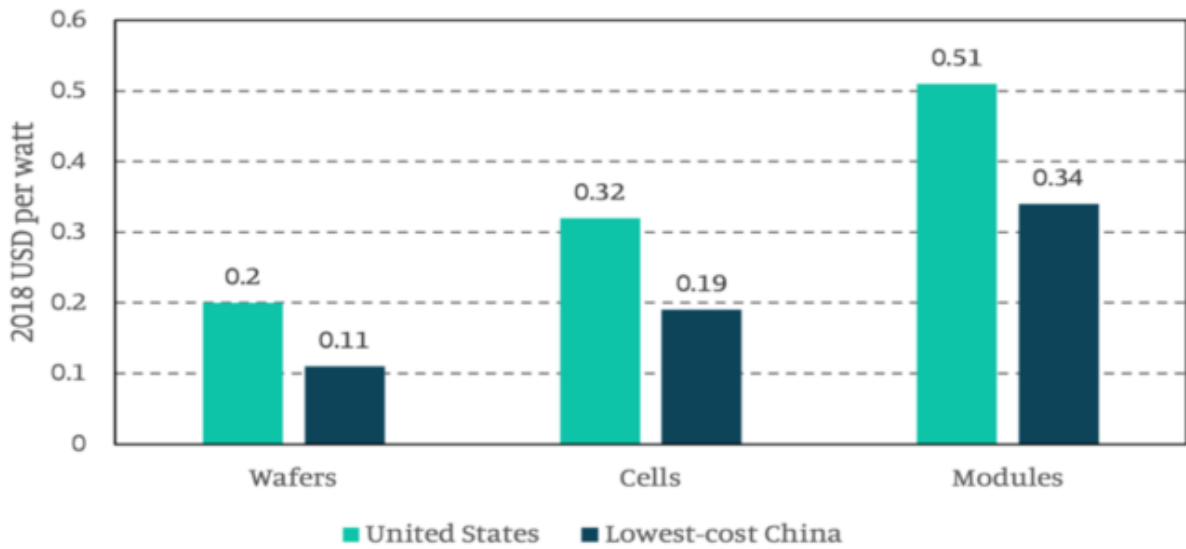
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### Minimum Sustainable Price (MSP)



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?? ? · Saturday, November 19th, 2022



Nastco/iStock

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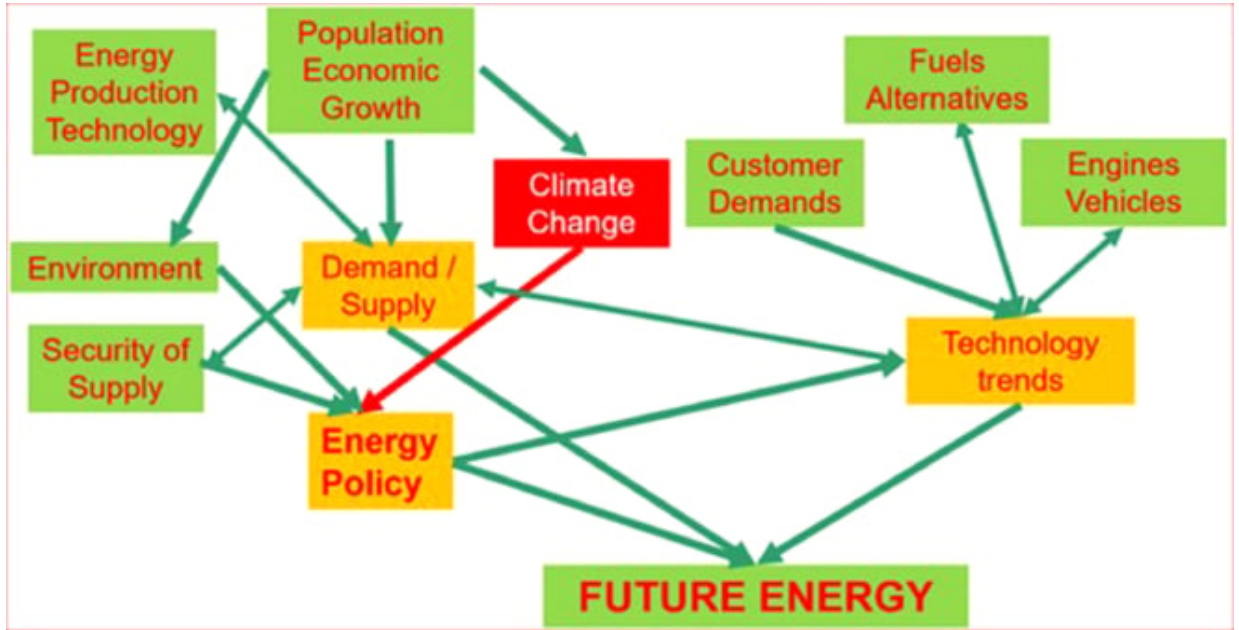
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1 2021 BP 82.3% 489.66 EJ / 595.15 EJ 1.75%

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.

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BP IEA

1 EJ = 277.8 TWh

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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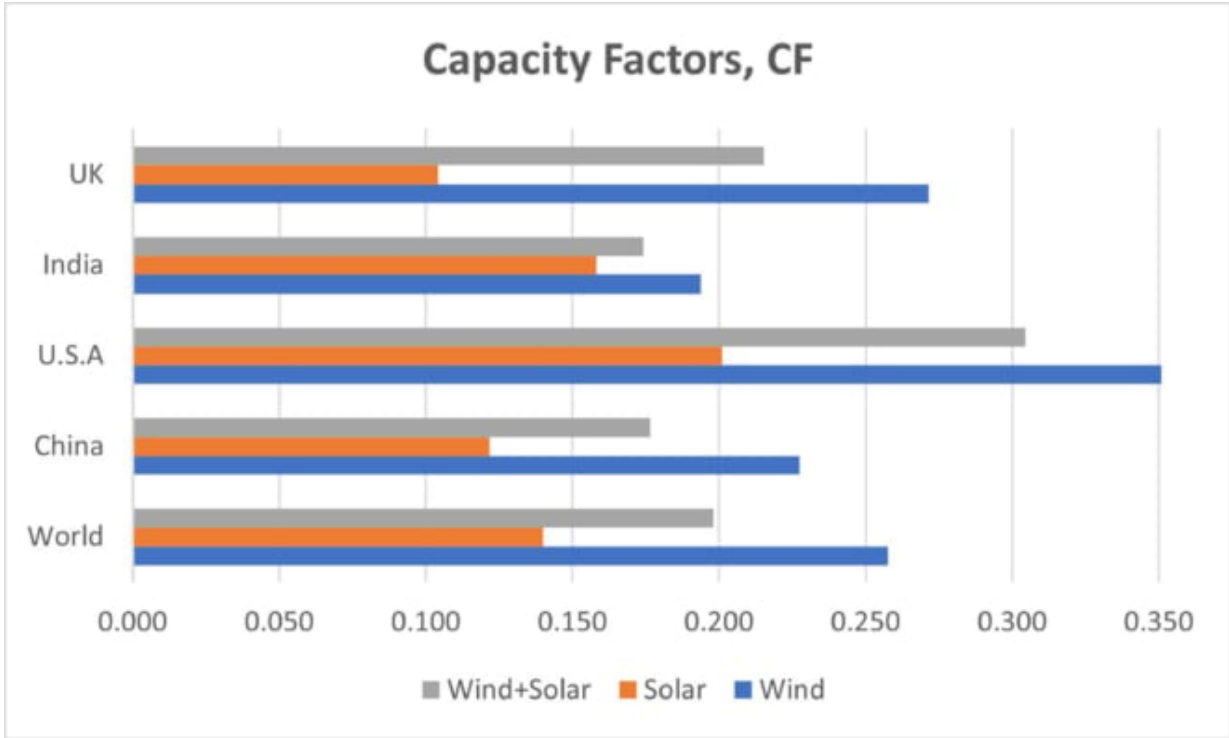
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Posted in ???, ????? | No Comments »

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

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



fergregory/iStock

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



Nebasin/iStock

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CO2 ESG

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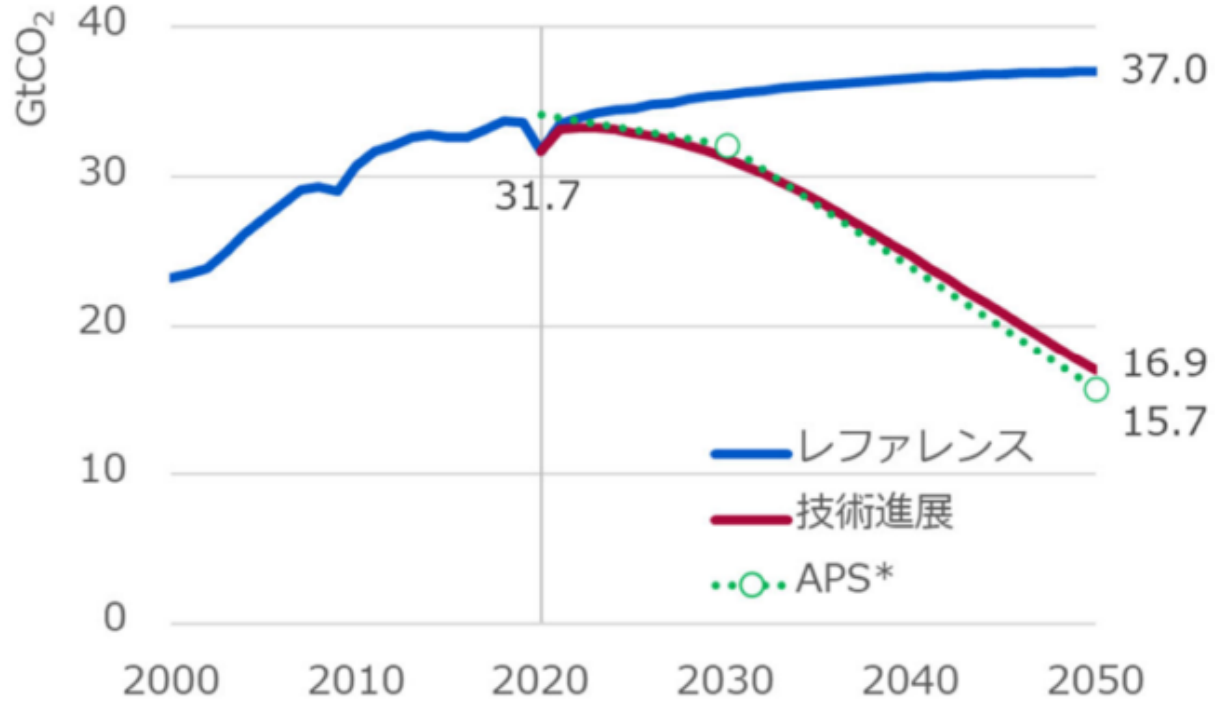
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CO2?? 2050  
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### エネルギー起源CO<sub>2</sub>排出量の見通し



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

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Posted in ???, ????? | No Comments »

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

?? ?? · Thursday, November 3rd, 2022



bee32/iStock

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兵研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??18????????????????????COP27????????1????????COP????????17????

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Heiness/iStock

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

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

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

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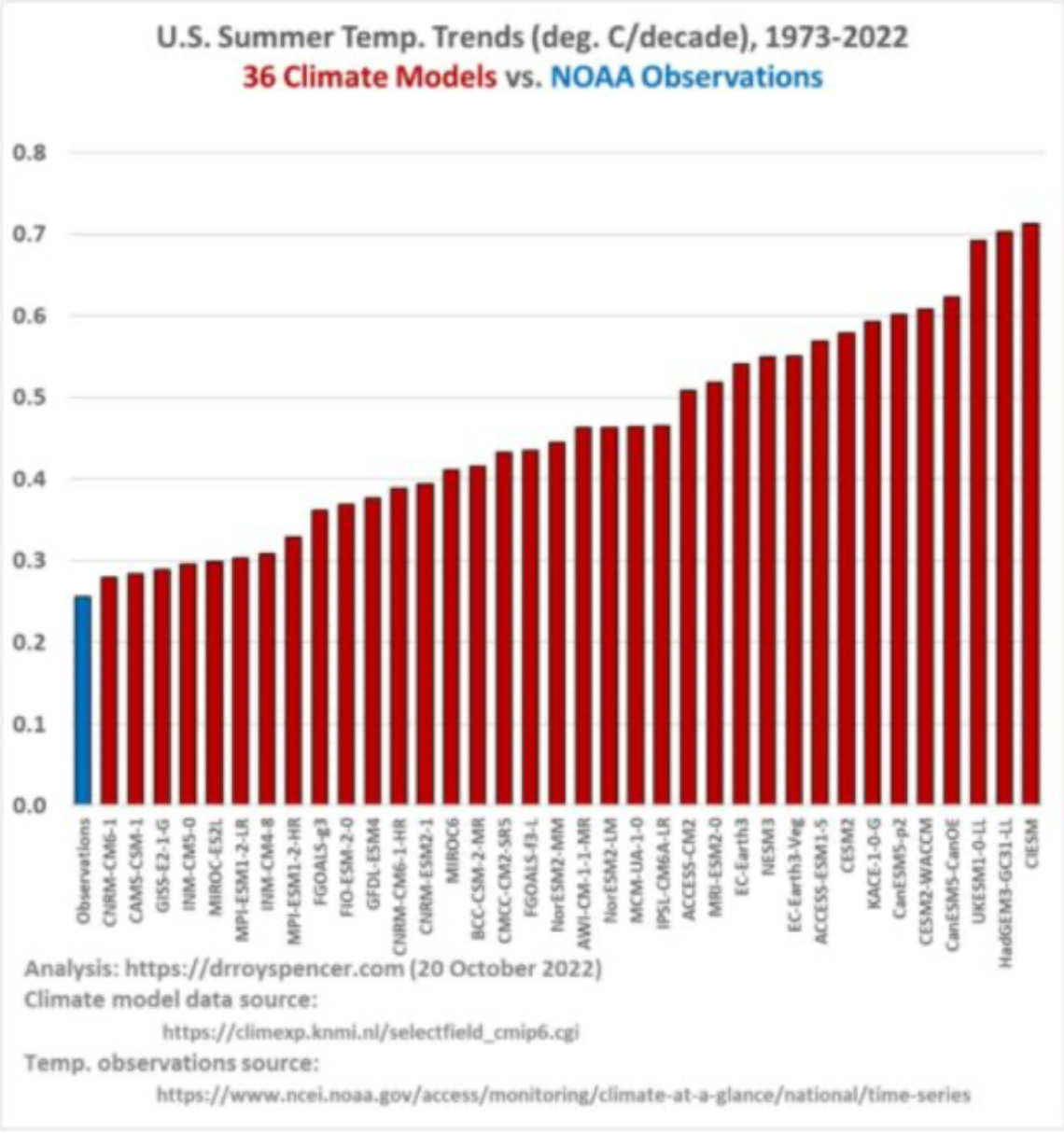
?? ?? · Friday, October 28th, 2022



Tr6/iStock

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????????10???0.26????????????3???0.71??????????

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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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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**

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

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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  
G??

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

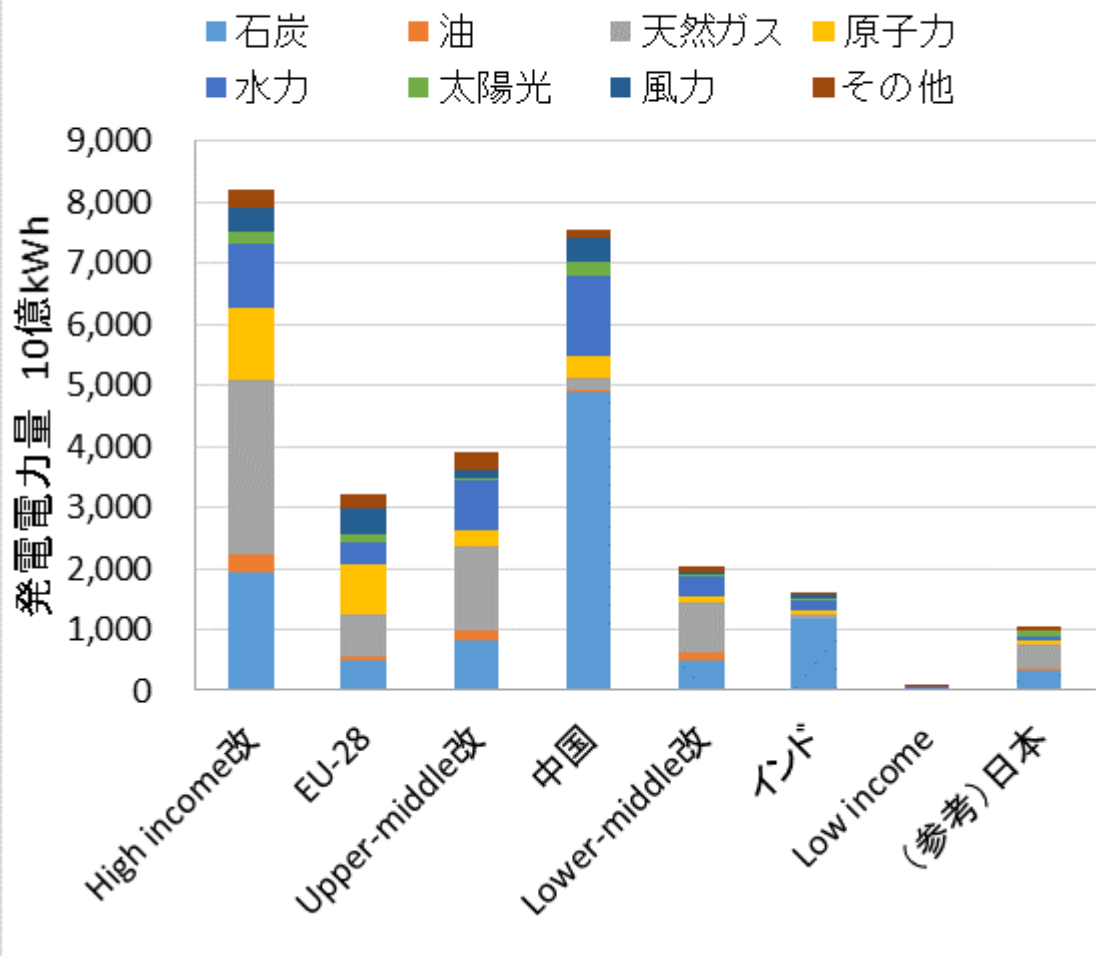
????2050?????????????????? ??

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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

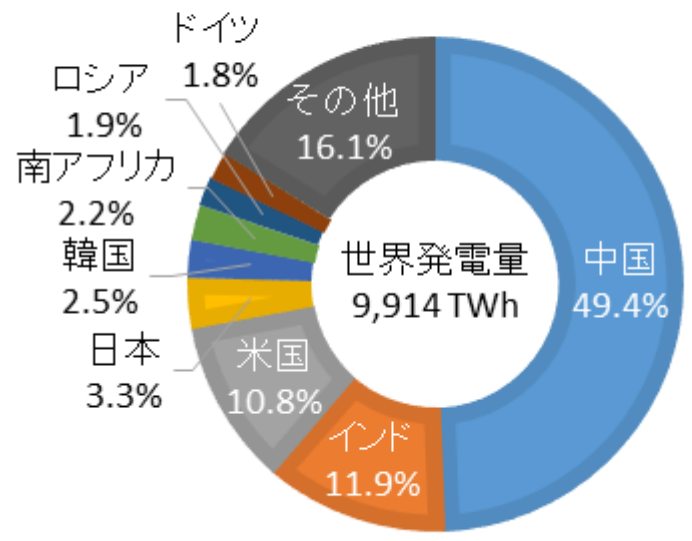
?-6????1????????????????65% ???-2?????????G  
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??2019?????GHG  
??3?????????GHG  
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GHG??-7  
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# 図-7 世界の石炭火力(2019年)

出所: IEAデータ



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????????31.5%????????1970?????????????????????  
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EU-28?????25%?EU?????????14%????????????BRICs????????????  
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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  |

22

High income-6GHG capacity factor EU-27 30-35% Upper-middle income Lower-middle income GHG

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GHG capacity factor

EU-27 30-35%

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20-30% GHG

Upper-middle income Lower-middle income GHG

Upper-middle income Lower-middle income GHG



GHG????CO2????CCS????????????????????CCS????????????????????  
??GHG??  
??CCS????????????????

??2050????????????2080??2100????????????????

????2050????????????2080????????????????????30????????????????????????GHG????????????  
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GHG????????????????????????????????????GHG????1%????????????GHG????????????????  
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????????2050?GHG????????????????????????250????????????????????30????????????????  
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Posted in ??????????, ??? | No Comments »

## 2050???????????????????? ?

GEPR??? · Sunday, October 23rd, 2022

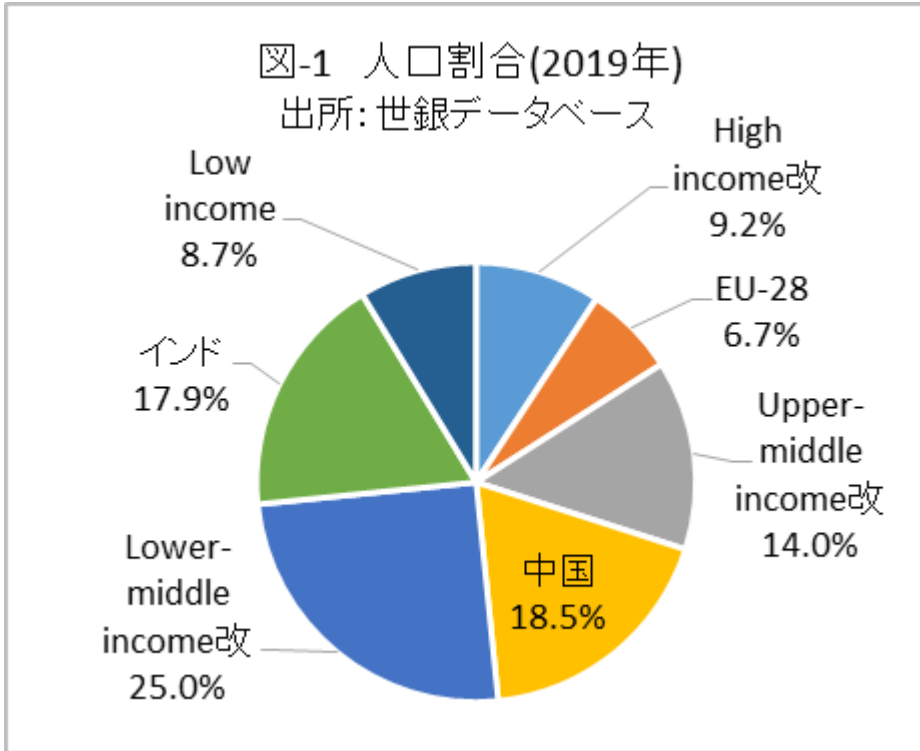
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High income? EU-28? High income? Upper-middle income? Lower-middle income?

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

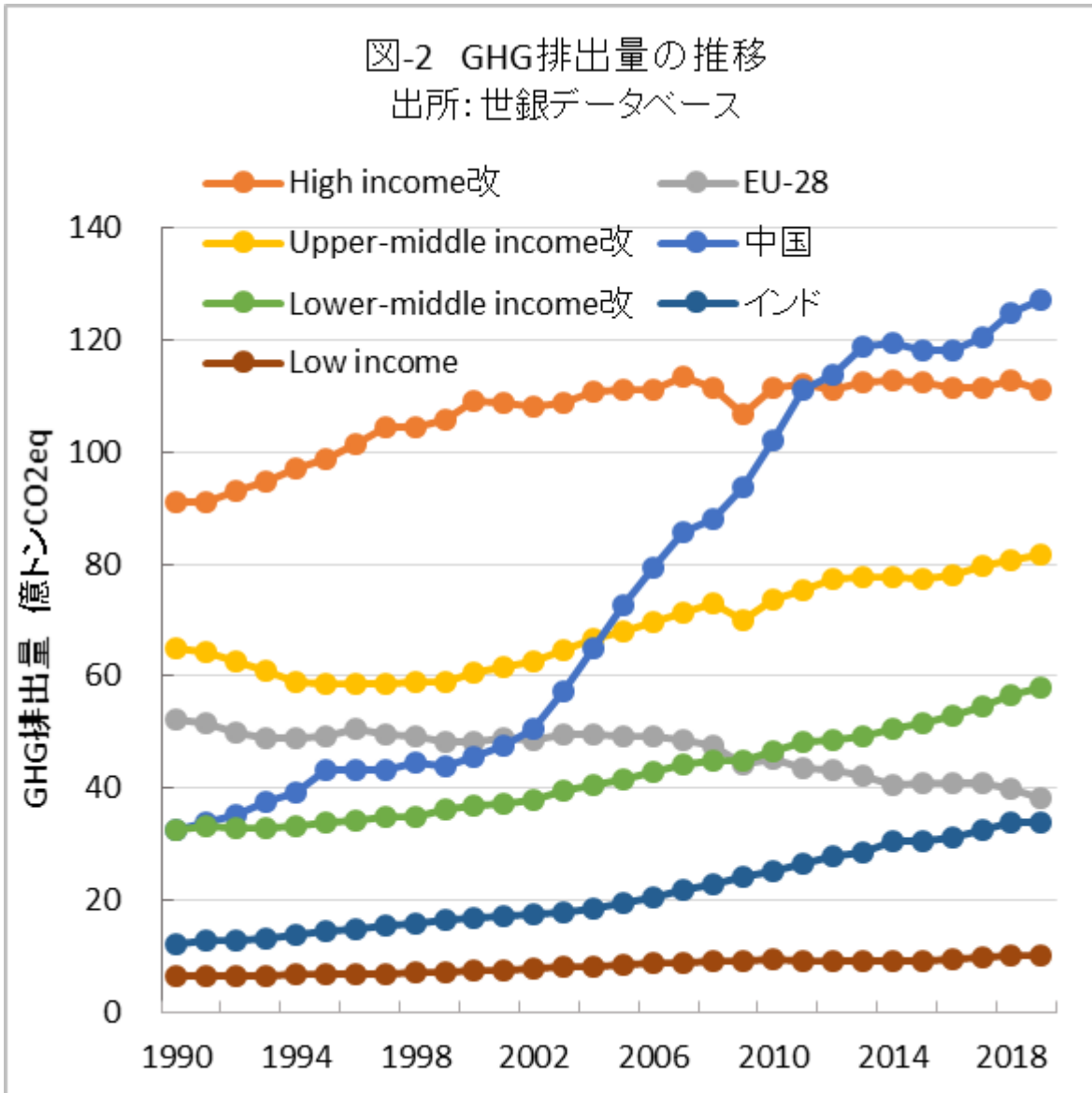
2019? 16%?



?1

?GHG?2/3?

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

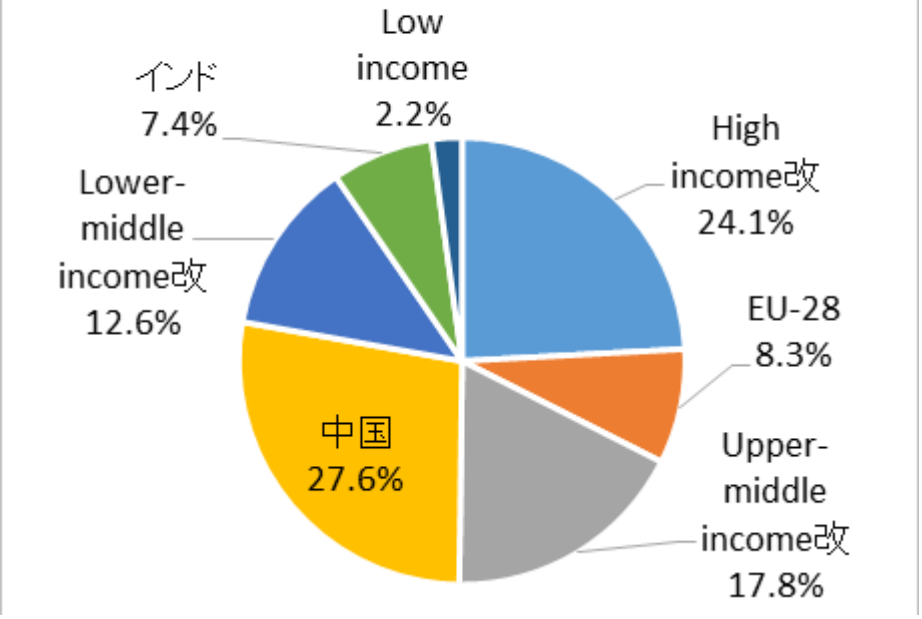


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?-3?2019??GHG????????????????????1/3????????????????2/3????????????????GHG????????????2%??  
????????????GHG????????????????????????????

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  
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High income 2019 GHG 90%  
 2060 2050

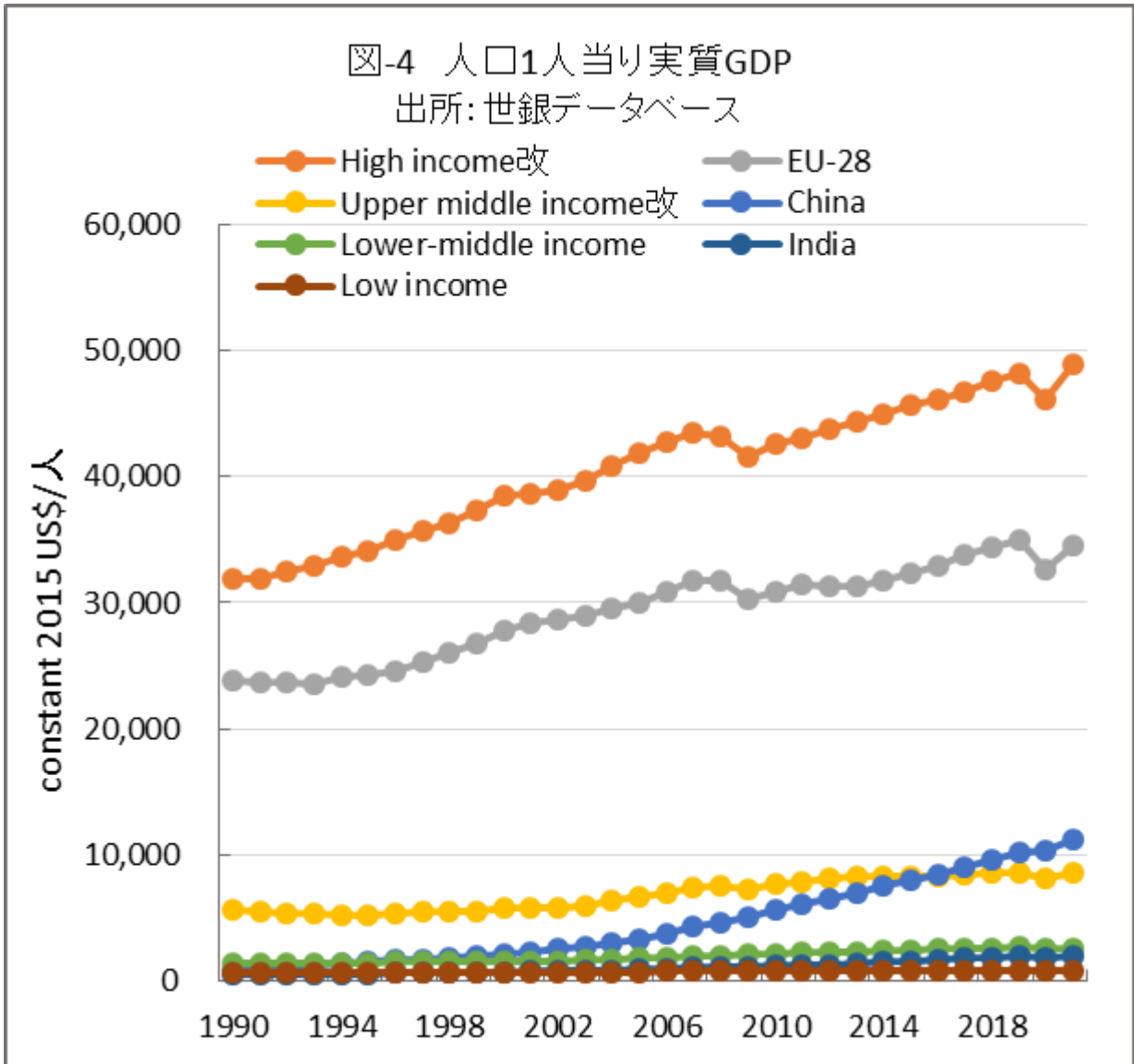
GHG GHG

GHG

2050 GHG

4 GDP 1 GNI GDP GDP GNI GDP GHG 1

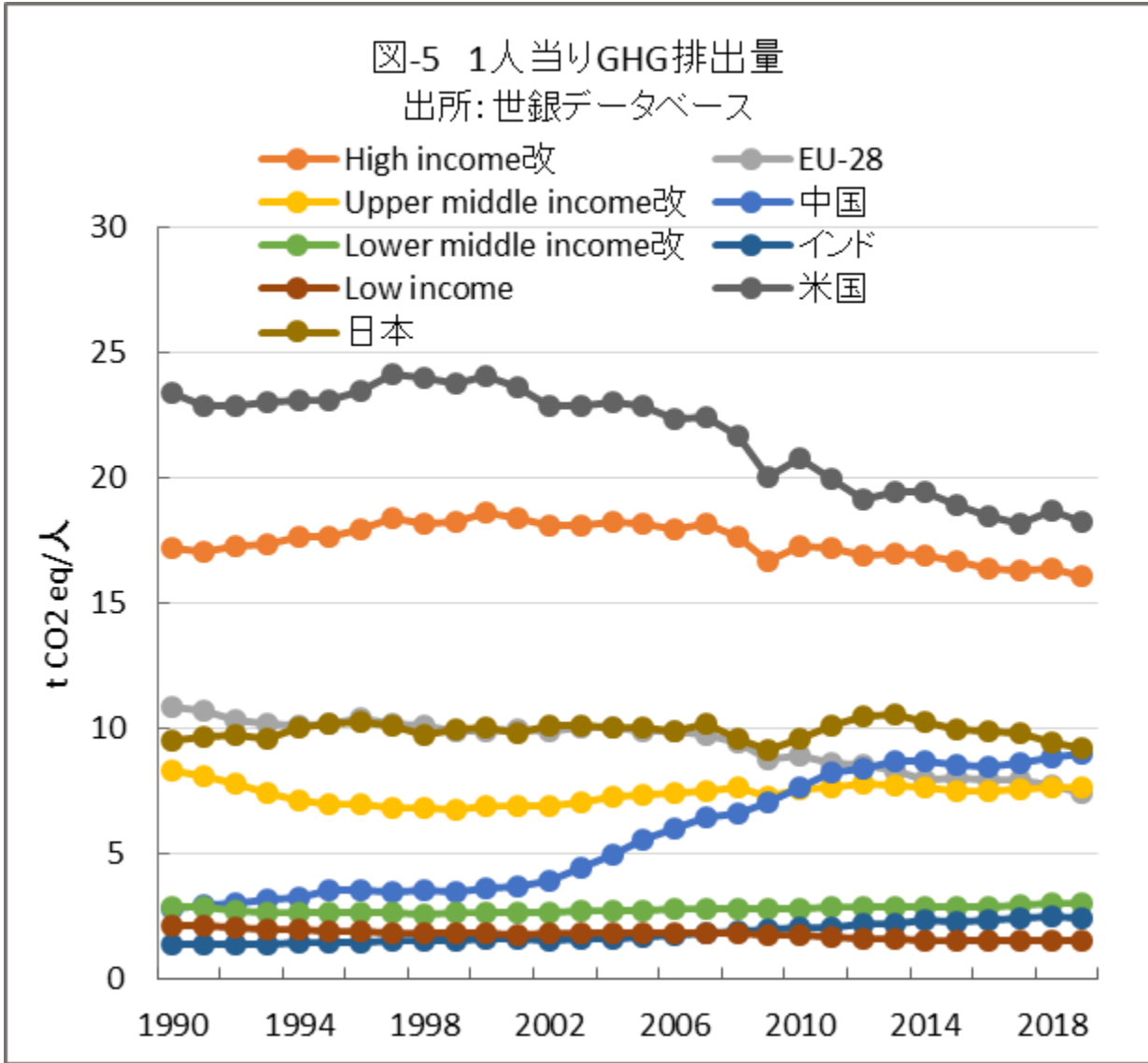




24

?????????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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??GHG????????CO<sub>2</sub>????2030????????????2060????????????????????????2030????????????  
????????????????????30??CO<sub>2</sub>????????????????????????????????????CO<sub>2</sub>????????2060????????????  
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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??CO<sub>2</sub>?????**

????????IEA??2021?11??Figure

1.1??2050????CO<sub>2</sub>????????APS????????????GHG????????NDCs??  
2050????????????????????

WEO-2021 APS?2021?5????????????????Updated  
APS?2021?10????????????????????GHG??CO<sub>2</sub>????????  
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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

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

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

?? ?? · Thursday, October 20th, 2022



ipopba/iStock

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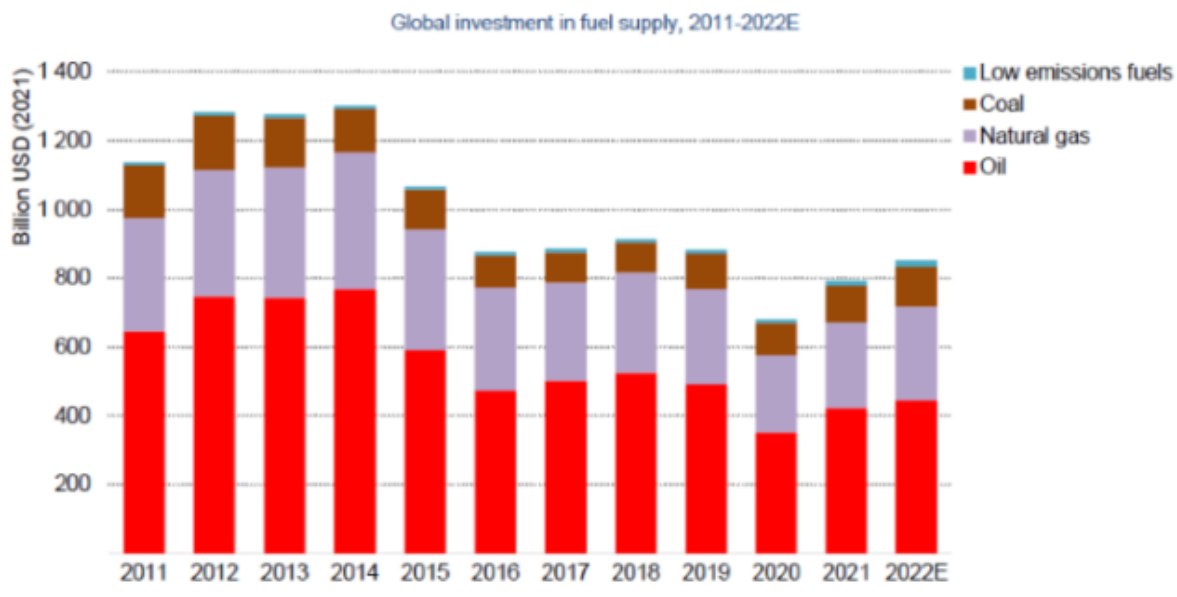
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???World Energy Investment 2022, IEA

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????????2050??IEA?21????????World Energy Outlook  
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**ESG?**

ESG  
ESG

Economy  
Environment  
Energy  
Security  
Security

ESG

ESG

Social  
Sustainability

**ESG 2.0**

ESG  
ESG

2050  
2030

ESG  
ESG

ESG  
80

10  
ESG

ESG

ESG  
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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MadamLead/iStock

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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??

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

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- ???6????????????????10????????

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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  
????????????CEO????????????????????????????????????

????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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COP??26????COP?????????  
??CO<sub>2</sub>??????

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26????????????????????????????CO<sub>2</sub>????????????????????  
CO<sub>2</sub>??  
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??COP27?????????????????

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????????????HELE: High Efficiency Low Emissions ??????????????????????????????????



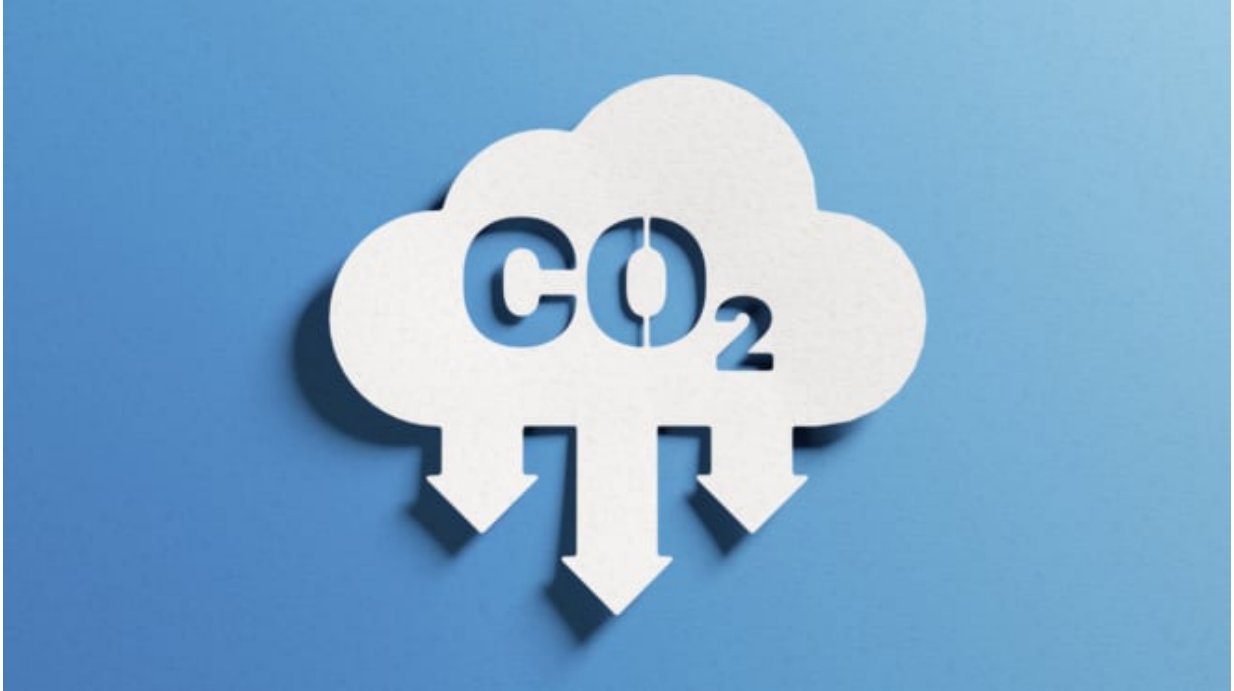
Posted in ???, ????? | No Comments »

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

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- 4.5??
- 0.00022??
- 0.0013??
- ????CO2????0.5????  
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 ?1????6????

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### ■ エネルギー起源CO<sub>2</sub>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-CO<sub>2</sub>eq）

|                             | 2000年<br>(基準) | 2019年<br>(現況) |        | 2030年 (目安)  |                   |        | 東京都<br>環境基本計画<br>(現行)<br>(2000年比) |
|-----------------------------|---------------|---------------|--------|-------------|-------------------|--------|-----------------------------------|
|                             | 排出量           | 排出量           | 2000年比 | 排出量<br>(目安) | 部門別目標<br>(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 <sub>2</sub><br>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<br>40%削減 ※1    | ▲27.9% |  |
| その他ガス<br>(フロン等) 計 | 325   | 706   | 117.2% | 252   | 2014年比<br>約65%程度削減 ※2 | ▲64.3% |  |
| 温室効果ガス排出量<br>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







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?? ?? · Monday, October 10th, 2022

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y-studio/iStock

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?SDGs??

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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

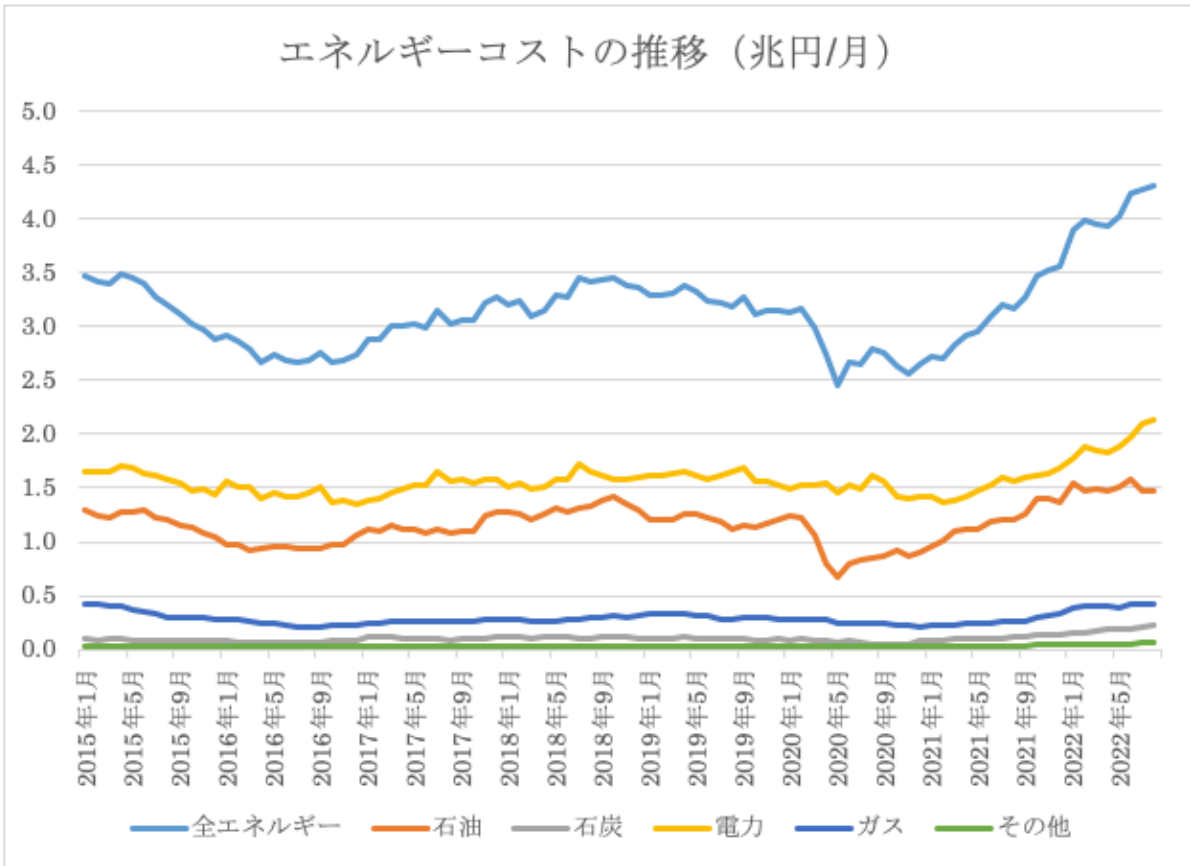
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