



表-1 世界銀行データベースの所得分類  
(2021-2022年)

所得グループ	所得範囲 (1人当り名目GNI, US\$)
高所得国	> 12,695
上位中所得国	4,096-12,695
下位中所得国	1,046-4,095
低所得国	< 1,046

EU-28の所得分類

EU-28の所得分類

2019年のEU-28の所得分類

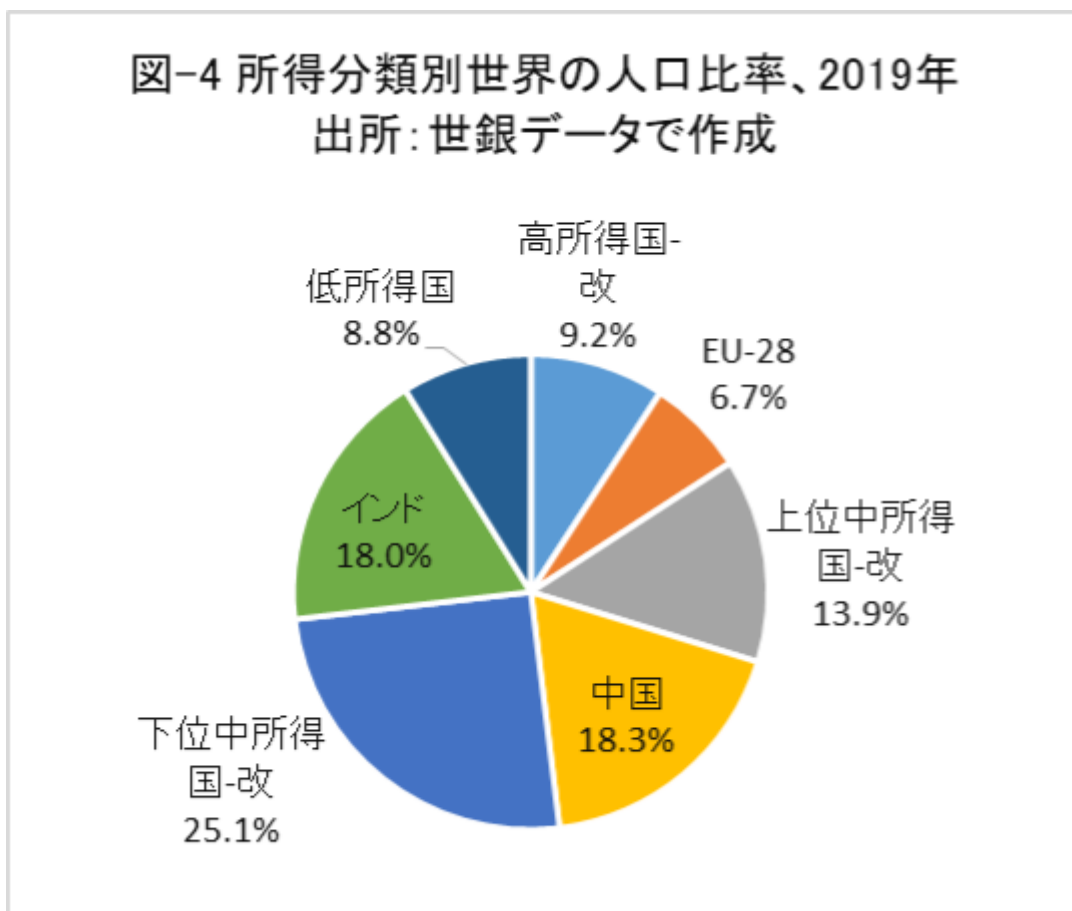
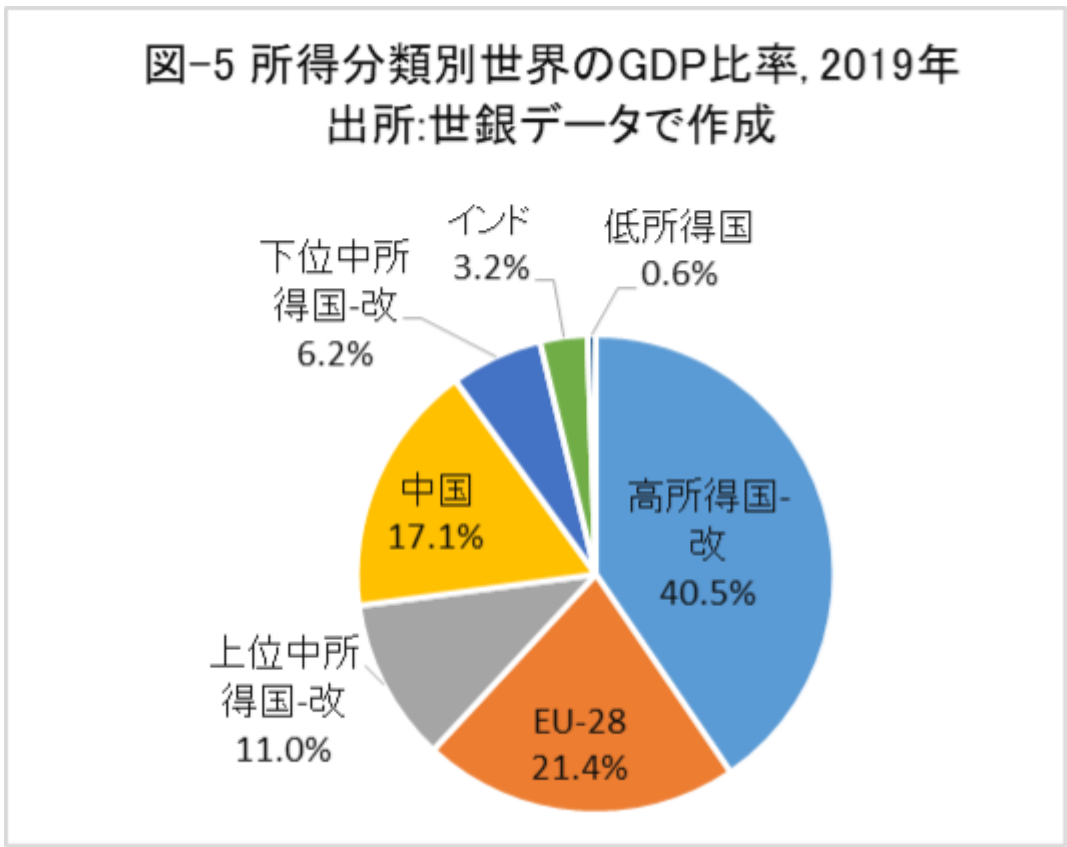


図-5 所得分類別世界のGDP比率, 2019年  
出所:世銀データで作成



????GHG???

????????????????????????????????GHG????????????????10??1%????  
????????2050?GHG??

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

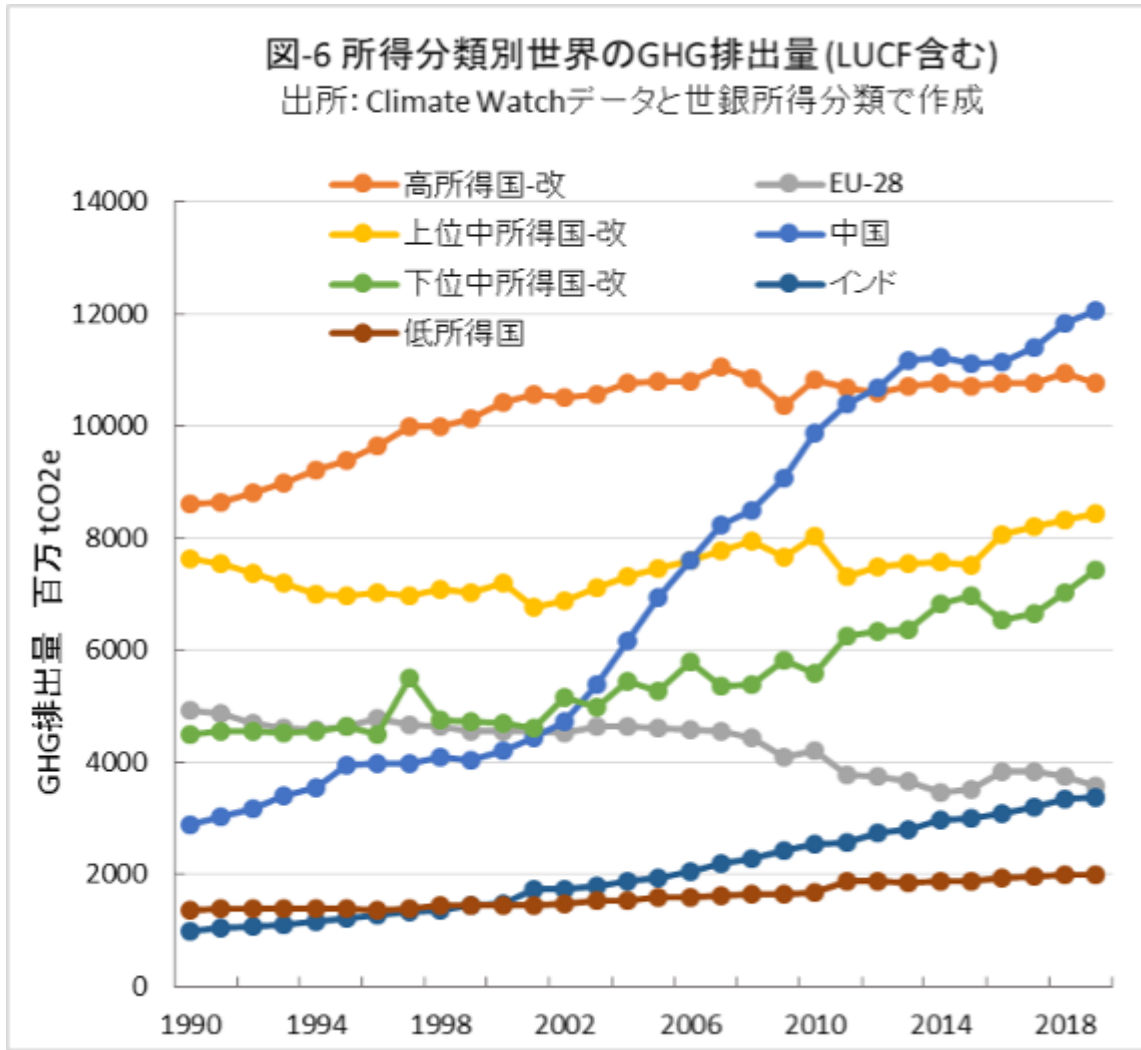
GHG??GHG????????????????????????

????GHG?????

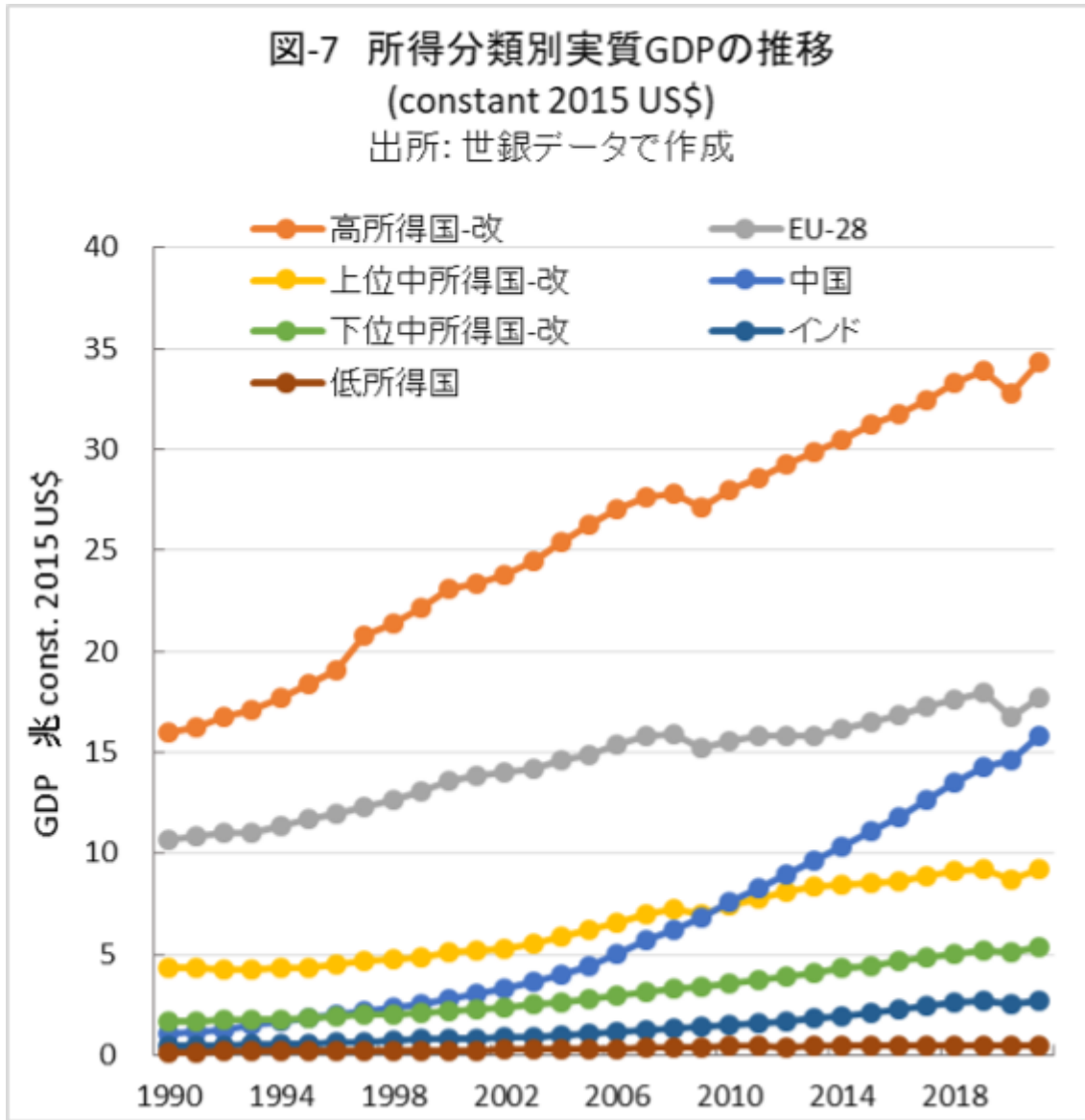
?6????????????GHG????????????????????????GHG?????Climate  
Watch????????????????????????????????????GHG??Climate  
Watch????????????????????????????????????1????????????????????IPCC?6????????????????????????????????

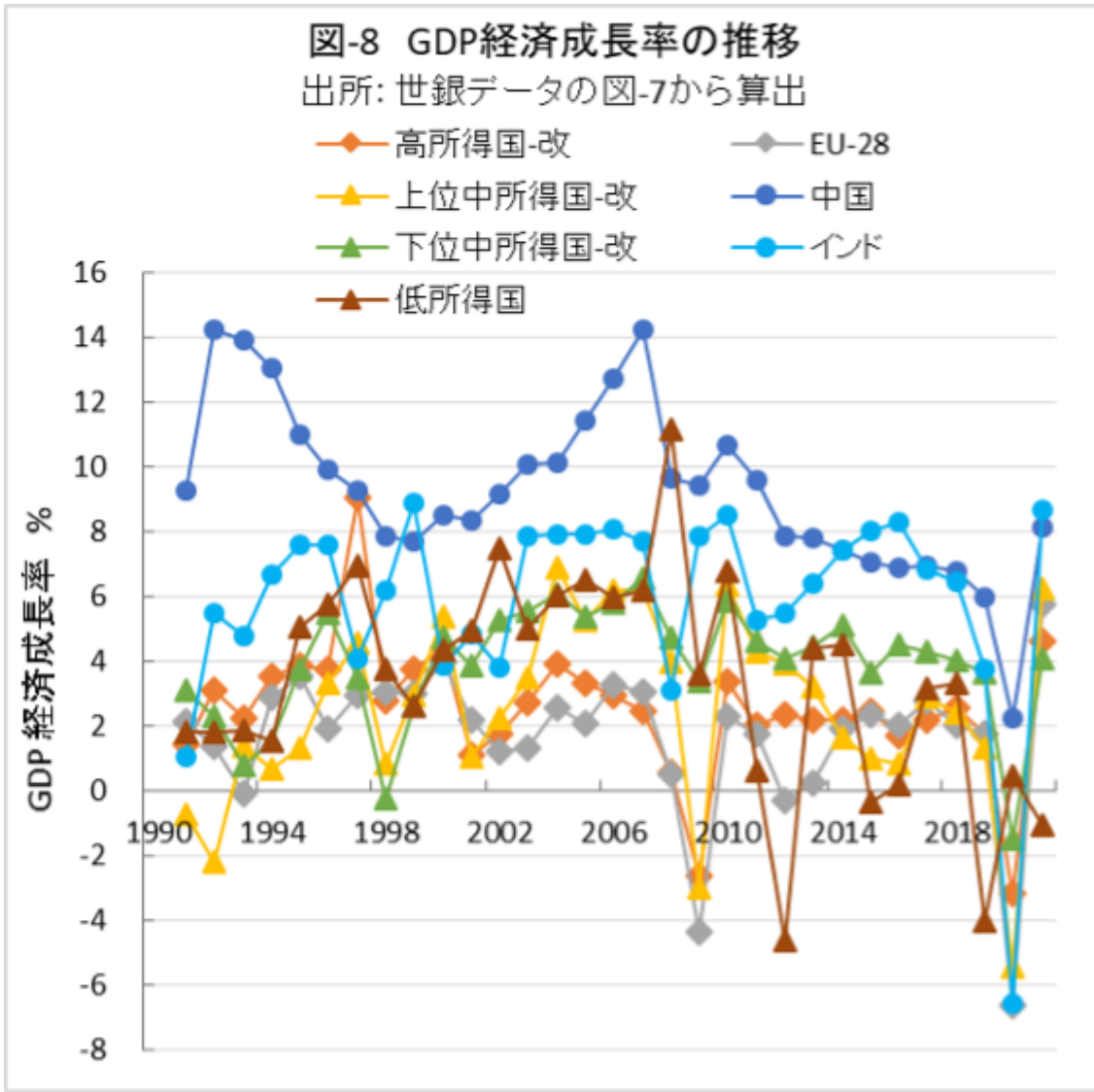
6?????WG3????????????????????CO2????????????8%????????????????????????????CH4????F-  
????30%?N2O??60%????????????????????  
CO2????70%??GHG????????????10%????????????????????

????GHG??6????????????????GH  
G????????????GDP????????????????????



????????GDP????8??GDP????????GDP??  
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 ??EU-28????????2008????????????????3?4%????????????????2%????????????????-  
 ??GHG??EU-28?GHG????????????????????  
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????????????????????10%????????????????????9%????????????GHG????2002????2013????????  
 ?????????????????????????????????????6%????????????GHG????????????????

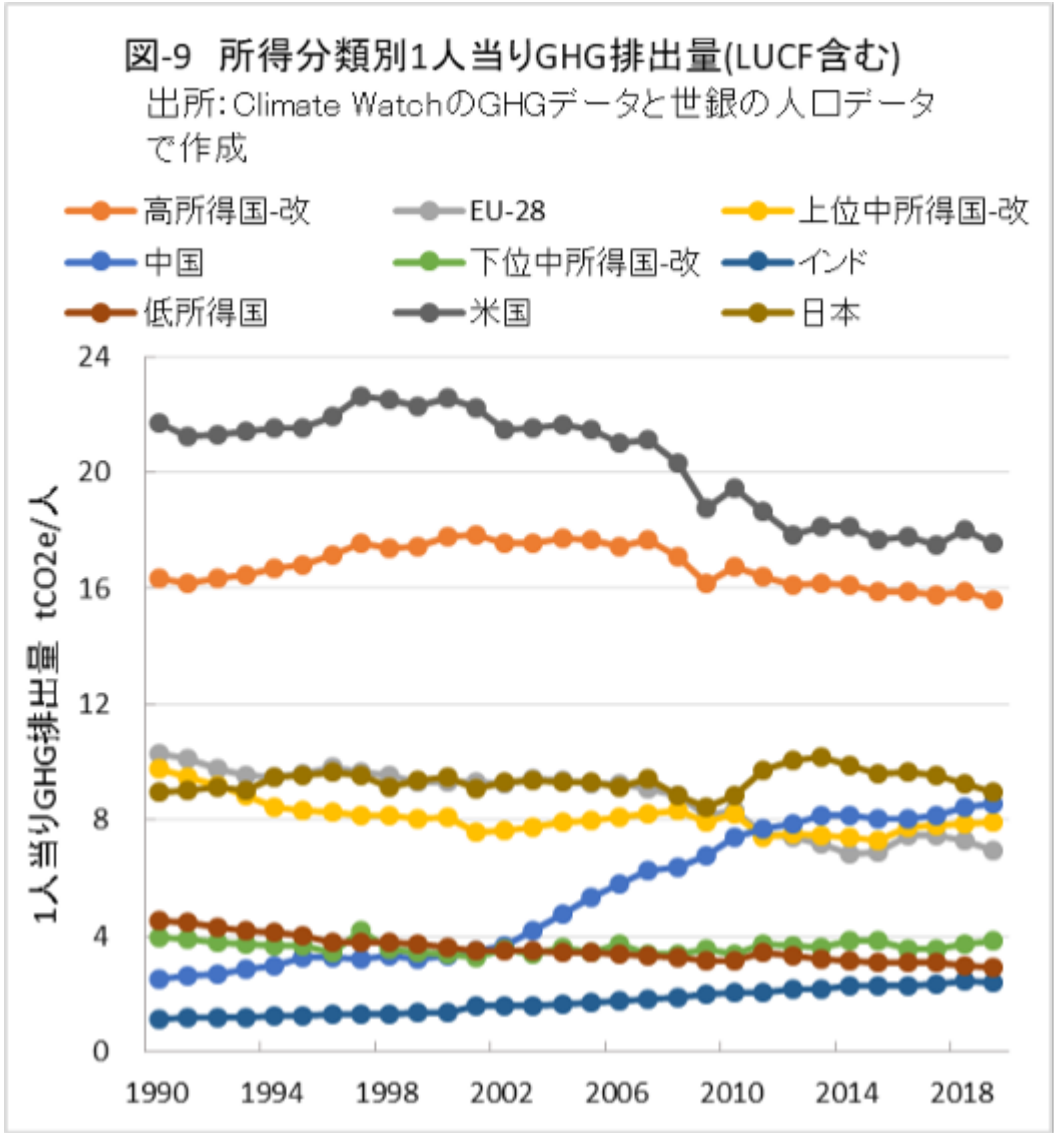
??????-??????????-  
 ?????????????????2005????????6%????????????????2.5%?4%?3.4%???GHG????2000????????????  
 ?????????????????-????????????????

????2%????????????????GHG????GHG????????????EU-28????????GHG????????????????  
 ???4?5%????????????????????????????????GHG????GHG????????????????????GHG??  
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**1???GDP?GHG**

????????????????????GHG????????????GHG????????????????????1????????1????????  
 ?GDP????????GHG1????????????????????

????????1????GHG????????????????1????????GHG????????????????????????????????????2??????  
 ???GHG????????????????????????????  
 ?9????????1????GHG??10??1????GDP????????????

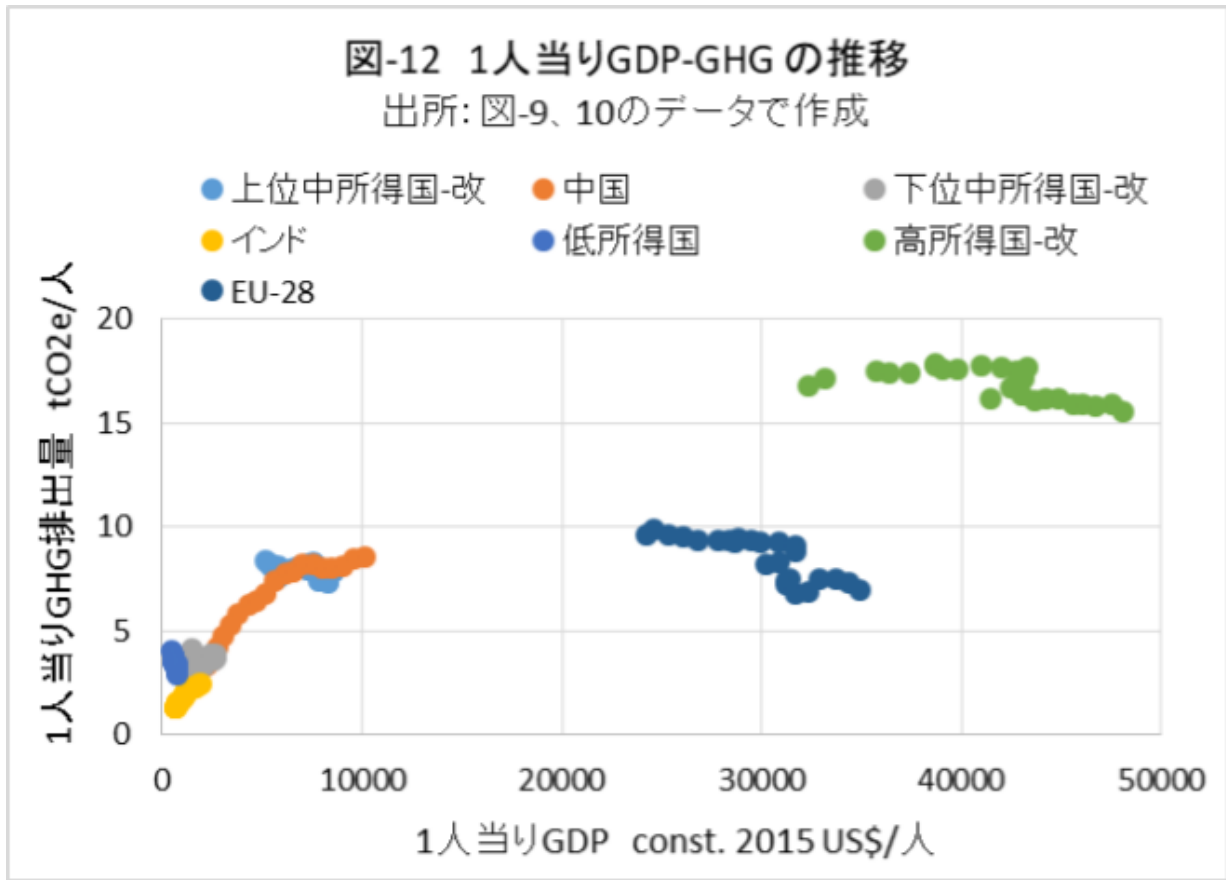








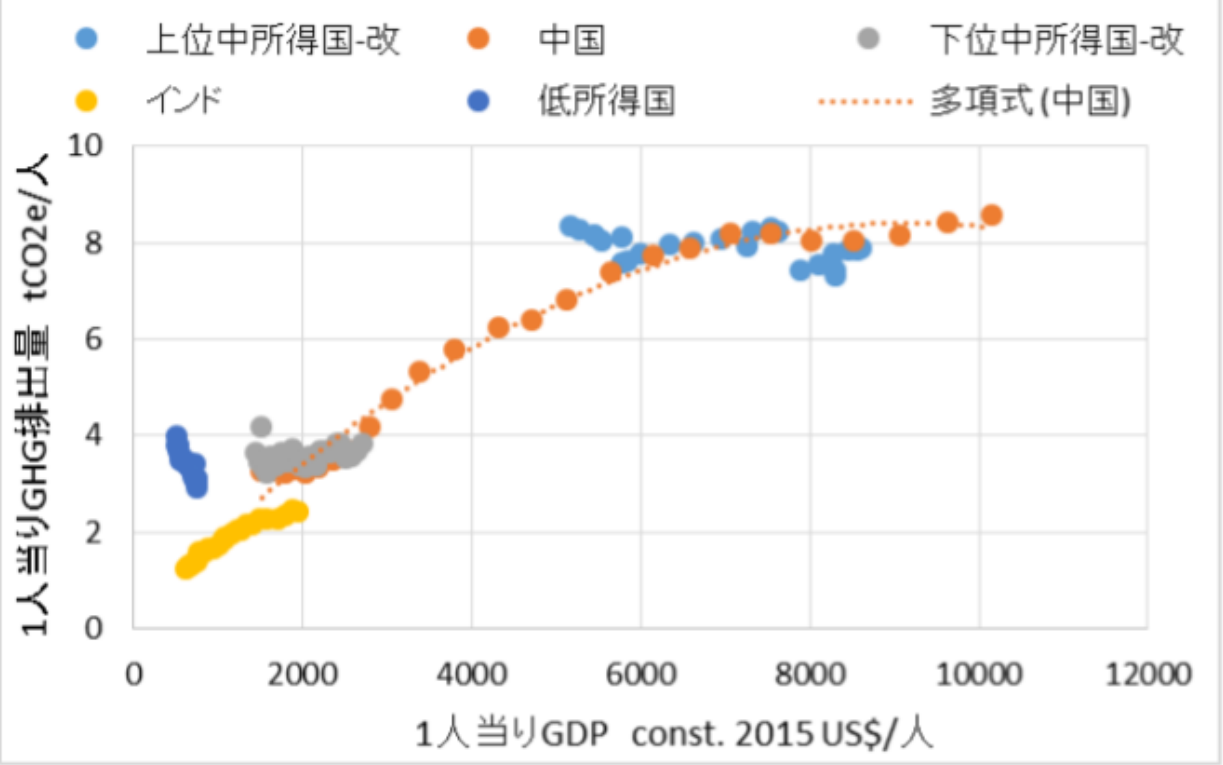
12 GDP GHG 1995 10 1995  
GDP GHG EU-28 GHG  
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13 GHG  
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図-13 発展途上国 1人当りGDP-GHG (1995-2019年)

出所: 図-9,10のデータで作成



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????????????????1970??kindle????????????????????

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

### COP28??80?

?? ?? · Monday, December 4th, 2023



Heiness/iStock

**1. COP28??**

COP28UAE??10?21??????????????????  
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COP??CO2??  
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??27????COP??CO2?????27????????????????????CO2  
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CO2??CO2????????????????????????????????  
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**2. ??????**

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??45?????????????

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# Request to Reconsider Proposed Regulations on Battery Electric Vehicles

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1. BEV????????????????
2. BEV????????????????
3. BEV????????????
4. BEV????????????????

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????????2010????????????2022????????2050????????????????????????????????????

Renewables*	36.59%
Coal	27.96%
Gas	14.86%
Nuclear	12.26%
Hydro	3.30%
Oil	0.83%
Other	4.20%

How is Electricity Generated in Germany?(2019/2022)

(\*) Wind:56.2%, Solar: 21.2%, Others:22.6% ?

??14.9????????78????????????????

<b>Oil</b>	35.2%
<b>Natural gas</b>	25.1%
<b>Renewables</b>	14.9%
<b>Lignite</b>	9.1%
<b>Coal</b>	8.6%
<b>Nuclear</b>	6.4%
<b>Other</b>	0.7%

What Primary Energy Sources are Consumed in Germany? (2019/2022)

???Lignite????:????????????????????????????

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



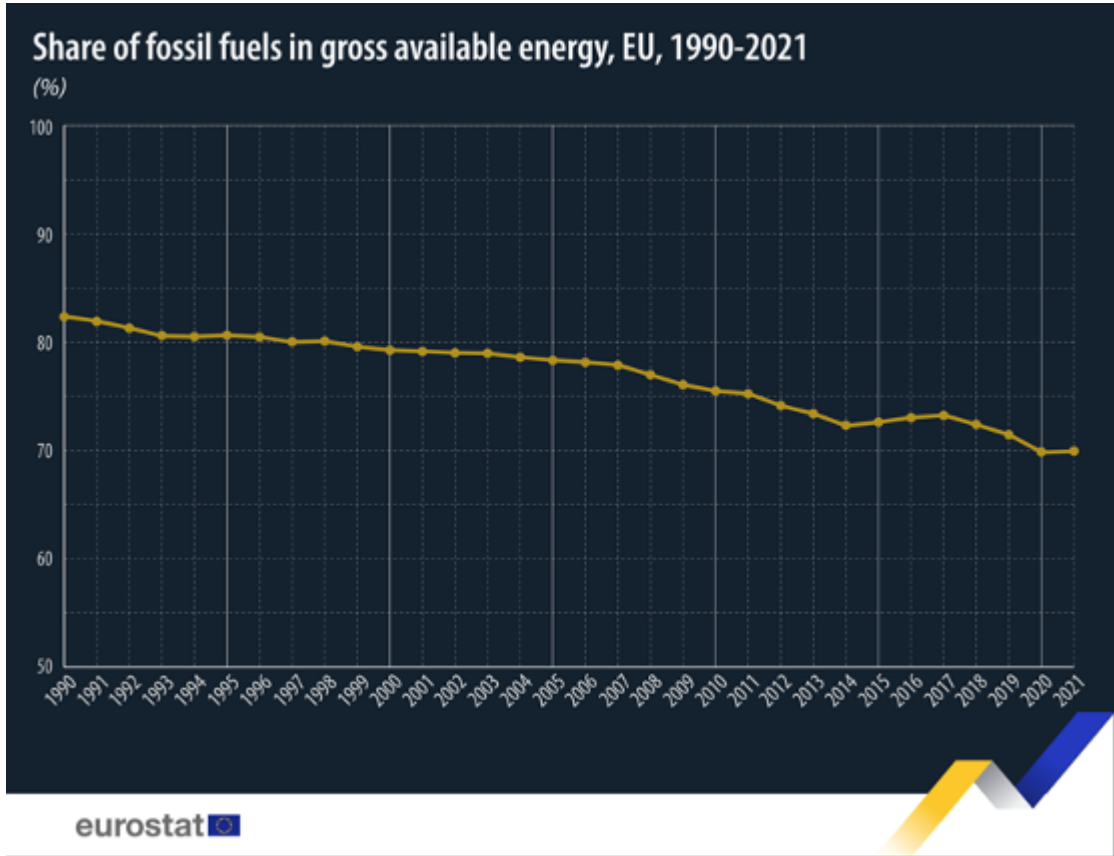
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EU??

EU??70??????????



???Fossil fuels stabilised at 70% of energy use in 2021

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??2006????CO2????????????65????115????????????10???  
????????????100??CO2????????????????25??????????

??CO2??  
??CO2??  
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3. ???

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??COP28????????????

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

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GEPR??? · Monday, December 4th, 2023



deepblue4you/iStock

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??EV????????????????????????????????



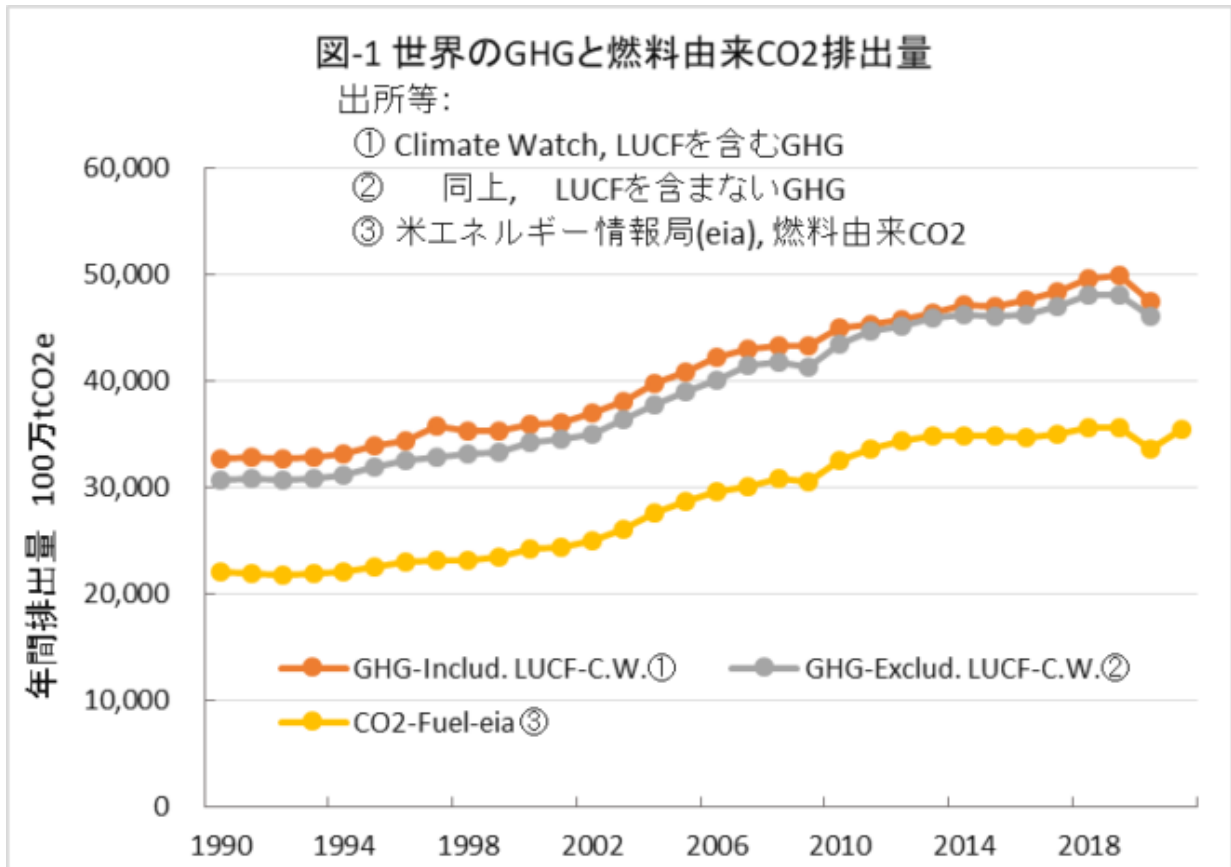
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?1?????GHG?CO2?????????????GHG?Climate  
Watch?????LUCF????????????????????????????CO2?????????eia?????????

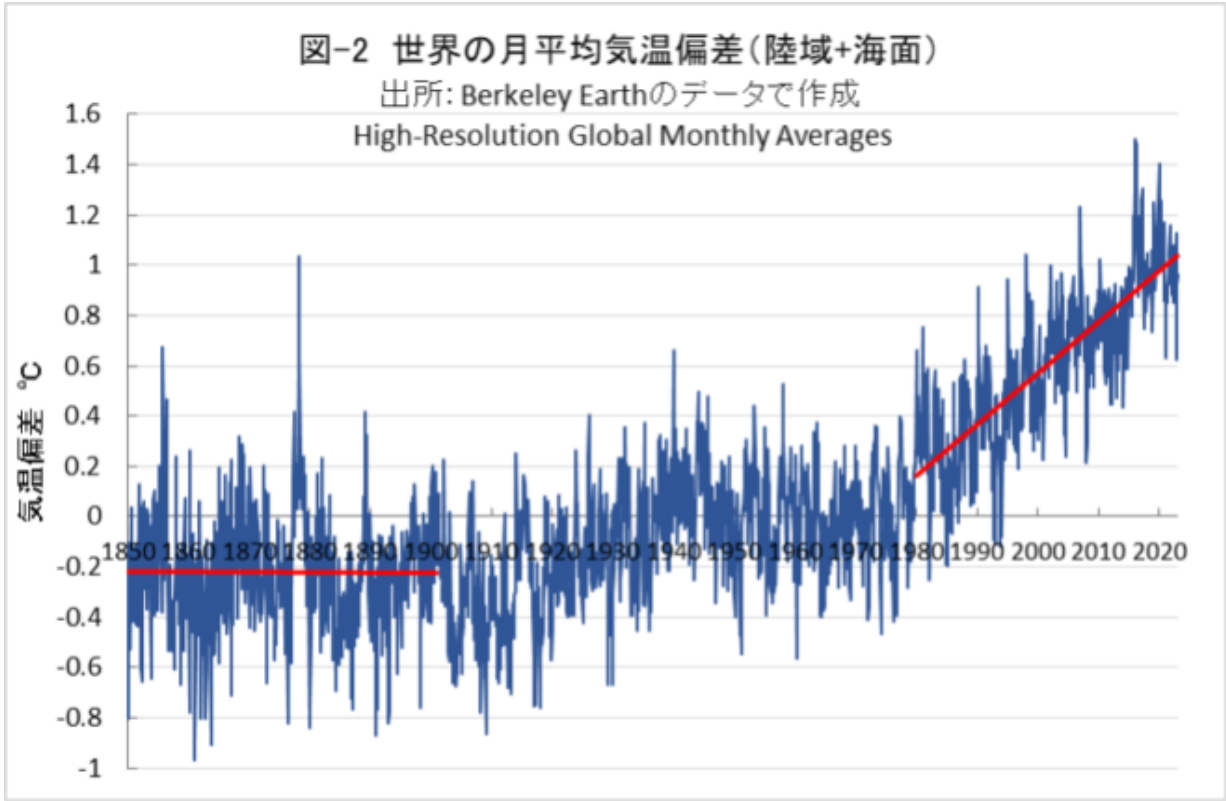


2009?????COP15?????2?????2050?????50%?????80%?????20  
15?COP21?????2?????1.5?????

?????1?????GHG????????????????2009?????2020?????  
CO2?????2021?????

?2????Berkeley

Earth????????????????1850?1900?1980?2022?????

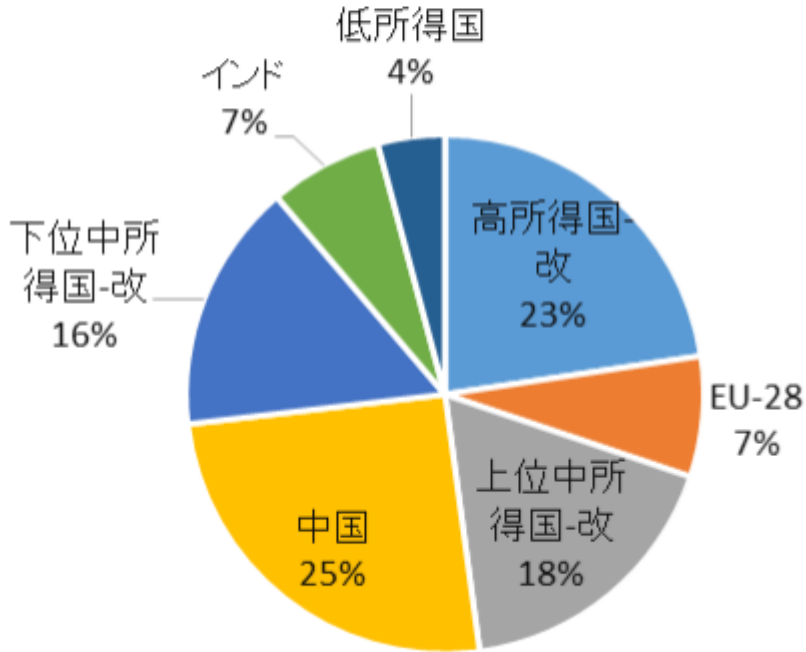


1850??????2022??????1.2????????????????????????????????2030?????1.5????????????????????????1.5??  
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??GHG????????????????????????????????2050????????????????????????GH  
 G????????????????????????????2060????????2070????????????????????

?3??GHG????????????1/3????????????????????1/3????????????1/3????????????????????  
 ???GHG????????????????????????????

図-3 所得分類別世界のGHG排出量比率  
(2019年, LUCF含む)  
出所: Climate Watchデータで作成



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

????????SMR????

?? ?? · Saturday, December 2nd, 2023



mrdoomits/iStock

????SMR????????????

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????SMR????????????????????NuScale????????????????????????????????11????????  
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**??SMR ??????**

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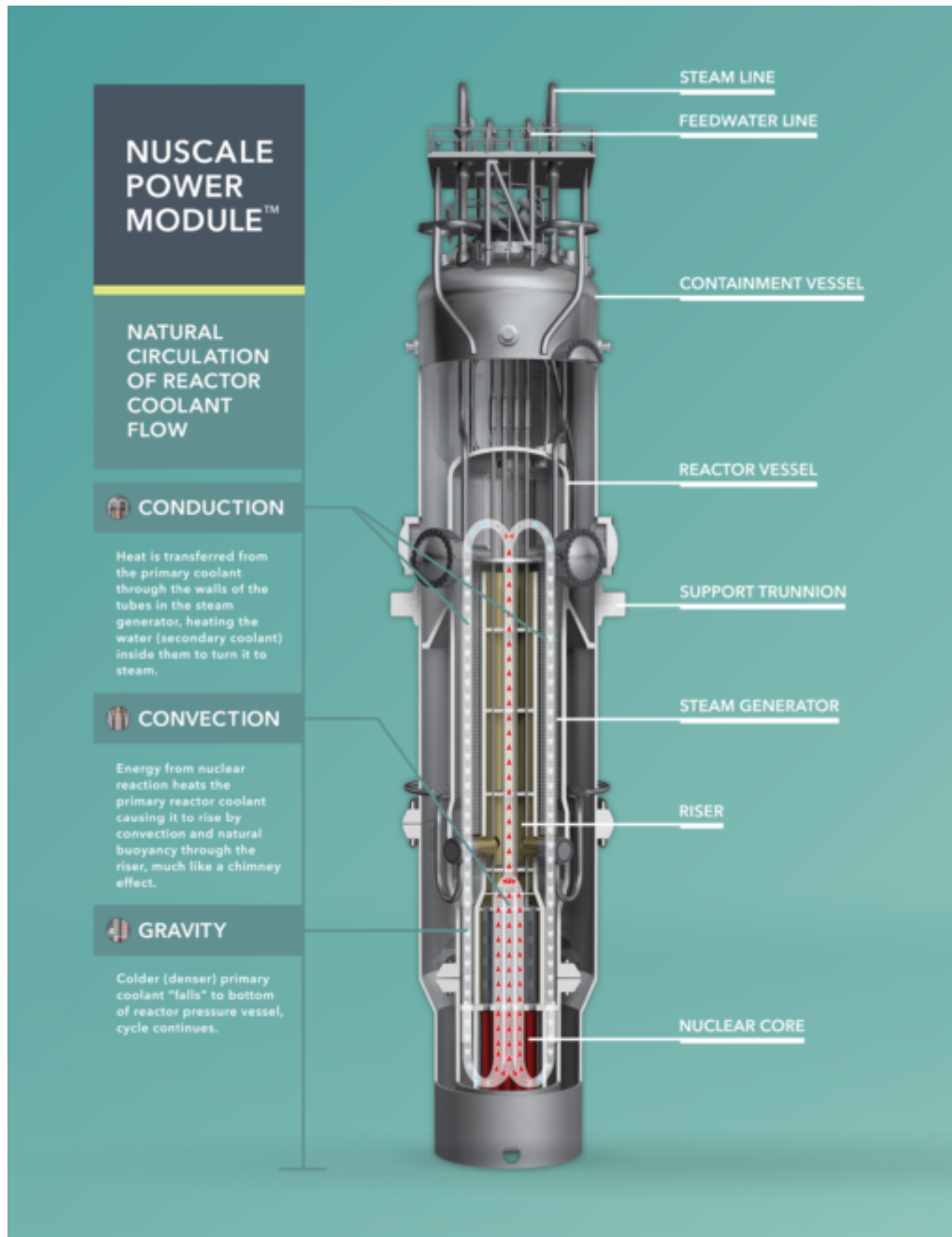
GX????????????????



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??SMR????????SMR????????

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SMR????

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?????NuScale??SMR????????????????????????????

???SMR???????

NuScale?SMR??  
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SMR????????????????????????????40????????????1980????????????????????PRISM????????  
??4S????????????

4S????????????????????472?/2020????????????????????????????2004????????????????  
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NuScale??SMR?????????IHI?????????2023?9????????????

???SMR????????????????????????????????

NuScale??SMR????????????????????????????????



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

### ????????????????????????????????

?? ?? ?? · Thursday, November 30th, 2023



????????????? bluejayphoto/iStock

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11?15????????????????2????????????????????????????????2021????????????????????????????  
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Posted in ???, ?? | No Comments »

### COP28????????????????????????????????

?? ?? · Wednesday, November 29th, 2023



Darwel/iStock

COP28?11?30????????????UAE??  
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????????????????????????????1.5????????<sup>21</sup>????????????2030????????????????CO2????????  
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????5?????????G7??????????????



????2035????????????????????????????????????1.5????????????????????????????????  
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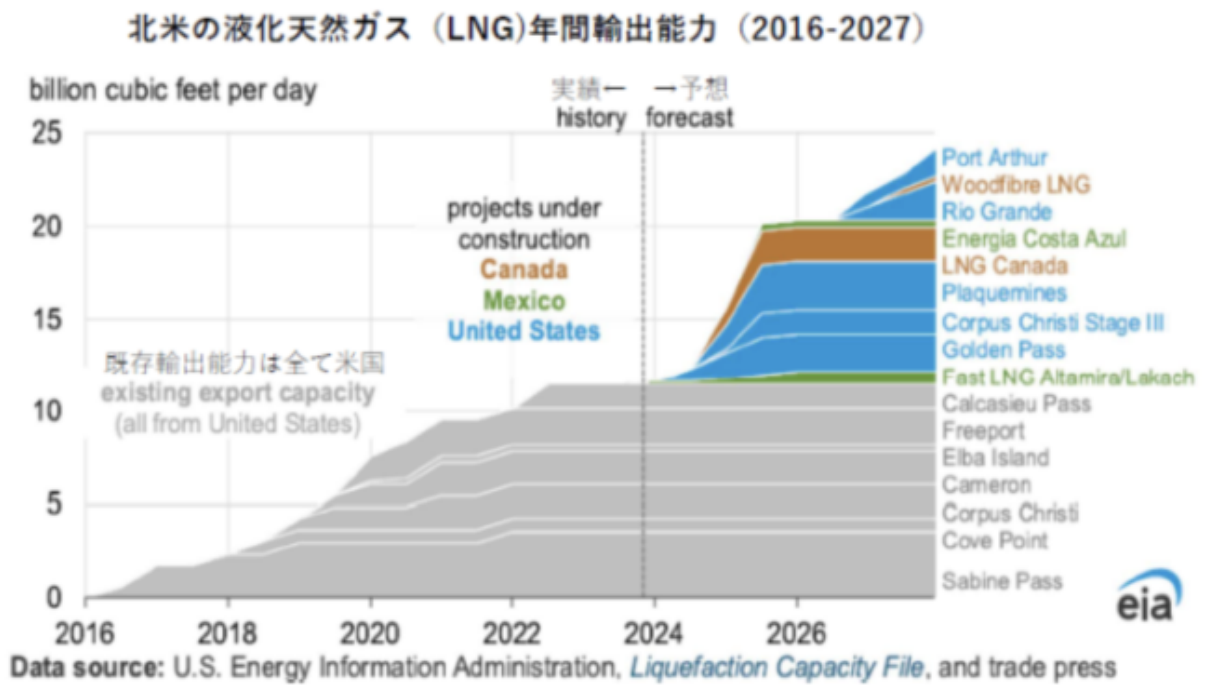
????????11??EIA????????????????????

11?2????????????<sup>223</sup>??  
????????????2022?8????1???23?7????????????????????????????1????22????3310???<sup>233</sup>????????  
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????????????1440????51%????????1860????6????????????????????????????????????  
????????300/????????????????????????????????100????????????????20????????

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??EIA?11?13????<sup>242</sup>??2027????LNG?????  
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????????????????????129?Bcf/????????????11?Bcf/????21?Bcf/????97?Bcf/????  
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1.5????????????????  
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21(a)??1.5??????  
????????????????2????????????1.5??  
COP26??

?2?“EU sanctions on Russia’s coal increase U.S. coal exports to Europe”, Today in Energy, November 2, 2023, EIA

?3??1?????????

?4?“LNG export capacity from North America is likely to more than double through 2027”, Today in Energy,  
November 13, 2023, EIA

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

## ????COP28? ??????????????

?? ? · Monday, November 27th, 2023



12?4??14??COP28????????COP6????????????????????????17??CO  
P????????????????????

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COP28????COP????2023??????14????????????????????????GST????1????????????????????

GST??  
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??????2025??????Nationally Determined Contribution:  
NDC??

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COP28????????GST??

??5??G????????????????????G????????1.5????2050????????????????IPCC?6????????  
????2025????????2030??43????2035??65????????GST????????????????

????????G????????????????????????????????2030????????2050????????????????  
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????????????????????????????????9??G20????????????????1.5????????  
????????GHG????2025????????IPCC?6????????????????IPCC????????  
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????????2025????????????????????????NDC????????G????2035?65????????  
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Third World Network

Third World Network



IPCC 2025 2030 43 2030 60

GST BASIC LMDC Like Minded Developing Countries: 1.5

1.5 2050

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GST IPCC 1.5 2025 2030 43 2034 60 IPCC 1.5

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GST

GST

1.5 2050

G20 NDCs 2030 5.8 5.9 2020 1000 78 1000 1.5

COP28

ADB AFDB

LDC

liability compensation 1000 2025

1

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**UAE????????????**

??UAE?COP28?2030????????????????2??  
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UAE????????????????  
COP28????????

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??GST????????????????????????????????

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

# CO2????????1.5????????????

?? ?? · Saturday, November 18th, 2023



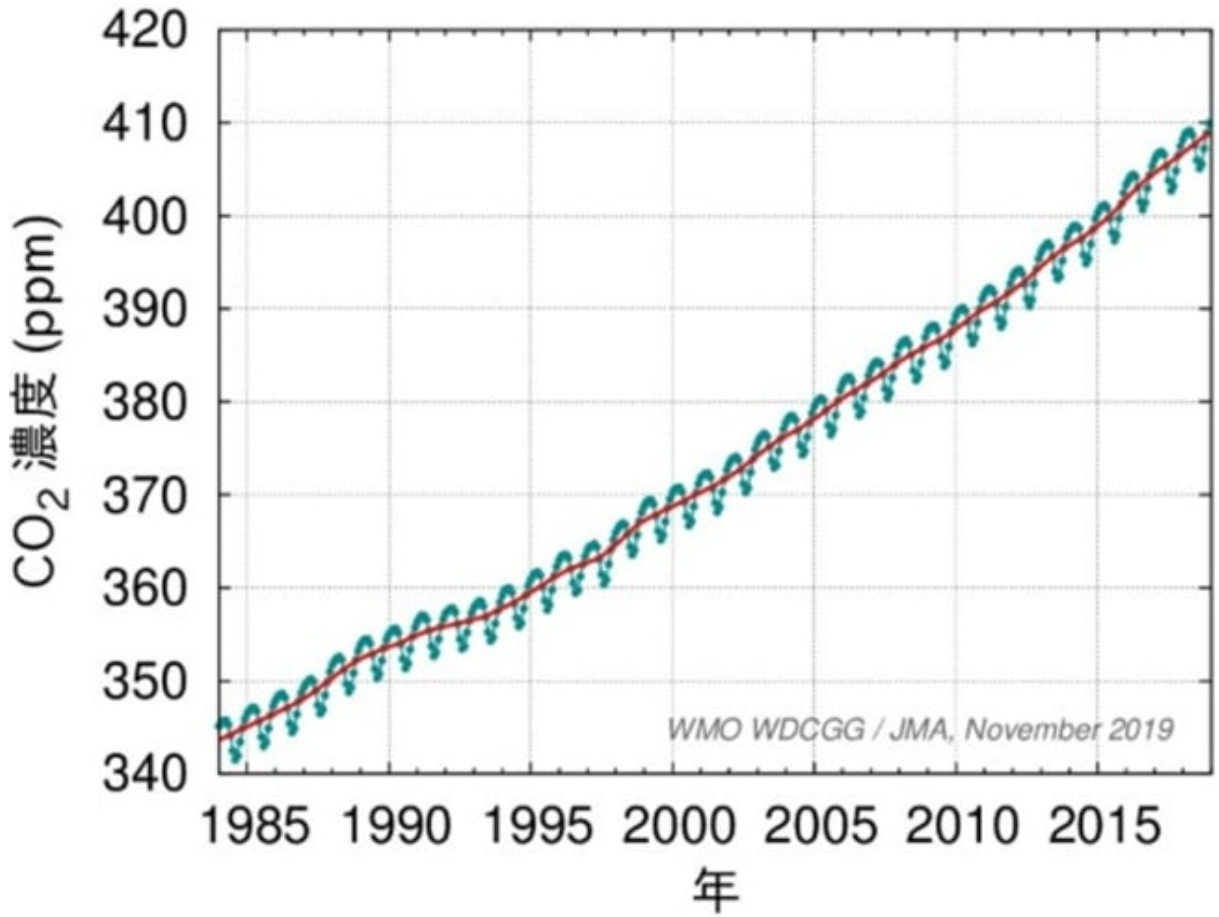
MR1805/iStock

CO2????????420ppm????????1850????280ppm?1.5????????????????

**???CO2????????1.5????????...????????????????????????**

??CO2??  
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????CO2????40????2ppm????  
 ???HP??

?????1.5????????????????

???????280ppm????????

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??1850????????????1????????????????????????????????????

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??1850??280ppm??

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

??????RCP8.5????CO2????????????

????????????RCP6.0????????????1.5??630ppm????2090????

CO2????????????????1????????420ppm?1.5??630ppm????420ppm?28

0ppm????560ppm????????????????????CO2??  
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????????150??1????????????CO2????????????????2090????????????1????????70????????1????????????  
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Posted in ???, ????? | No Comments »

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?? ?? · Sunday, November 5th, 2023



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<https://agora-web.jp/archives/230217005900.html>

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

# ????3?CO2??????

?? ?? · Friday, November 3rd, 2023

## ??????????8????????????



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????????CEO?23??

??2022?9????????????????  
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pcess609/iStock

??3?????1?2????????????????????????????

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

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

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

### ????????????????300????????????????

?? ?? · Thursday, November 2nd, 2023



PhonlamaiPhoto/iStock

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**中間貯蔵施設の概要**

● 中間貯蔵施設は、原子力発電所で使用した燃料(使用済燃料)を金属キャスクと呼ばれる頑丈な専用容器に入れて、再処理工場へ搬出するまでの間、安全に保管する施設です。

**イメージ図**

**【金属キャスク】**

- 閉じ込め機能: 二重のふたに金属製のパッキン(ガスケット)を挿んで、密封性を保持
- 遮へい機能: キャスク前後は、ガンマ線遮へい層と中性子遮へい層で、放射線をキャスク内の、100万分の1まで減衰
- 使用済燃料
- 中性子吸収機能: パスケットと呼ばれる仕切り板で、使用済燃料の臨界(核分裂の連鎖反応)を防止
- 冷却機能: 使用済燃料から発生する熱も、応熱ファンを通じて表面に伝え、外気で冷却

施設に持ち込む前に、発電所内で頑丈な金属の容器に入れて二重のふたで密封します。(輸送時は、さらに3つ目のふたと緩衝体も装着します)密封された状態のまま搬入、保管、搬出され、施設内で燃料を取り出すことはありません。

出典:日本原子力文化財団「原子力・エネルギー図鑑集」

● 水や電気を使わず、外気による自然空冷により使用済燃料から発生する熱を除去するため、設備自体は非常にシンプルです。

● 施設内では、使用済燃料を取り出したり入れ替えたりすることもなく、建物内に置いて保管する形になります。

**【建屋内の空気の流れ】**

建物の外から取り込んだ空気で自然に冷やします。(電気も水も不要)

**【東海第二発電所での貯蔵風景】**

金属キャスクに備わった安全機能により、触れられるほど近づいても全く問題ないくらいまで放射線量は低くなります。また、施設では金属キャスクの温度・圧力を常時監視します。  
(東海第二発電所の乾式貯蔵施設は、2001年より運用開始しており、これまでにトラブルもなく、20年以上の貯蔵実績があります)  
※写真提供: 日本原子力発電株式会社

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??1997????????26????????????????????????25????????????



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??1000????????????????????????  
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Posted in ??????????, ??, ????????? | No Comments »

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?? ? · Wednesday, November 1st, 2023



Kirillm/iStock

2022????????????????????????????????2023?10????????????????????????????  
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1973????????????50????????????????????????????????

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

**??????????????EV?????????????**

?? ?? · Wednesday, November 1st, 2023

10?26?(?)??11?5?(?)??2023??????????

**1. ?????????????EV??**



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??CEO????????????EV????????????EV????????  
 ??CO2??

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**??“????????”????????????????...????“?”???**

???2020?10?26?? ??????2050???12????????  
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**EU?EV?????????????e-fuel???**

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# JAPAN MOBILITY SHOW 2023 Toyota Press Briefing

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## 2. ??????EV?????

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????????GM??EV????????50????????????????GM????????????????GM????????????????  
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### More alarm bells sound on slowing demand for electric vehicles

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Young????????????????????EV????????????????????2????????EV????????2035??  
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## ??????EV??????????????

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

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?? ?? · Monday, October 30th, 2023



Stock photo and footage/iStock

**????????????????????????????????SEC???**

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2018??	8???	10??
2019??	9???	9??

2020??	10???	8??
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2018??	120???	80??
2019??	110???	90??
2020??	100???	100??



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

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?? ?? ? - Saturday, October 28th, 2023

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Royale““??  
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BSI



3DFOX/iStock

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

**??TSI????????????????**

?? ?? · Wednesday, October 25th, 2023





1850????????????IPCC????????????????????????????????IPCC????????????  
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4. ??????

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Posted in ???, ????? | No Comments »

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

?? ?? · Tuesday, October 24th, 2023



LifestyleVisuals/iStock







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??HP??

**3. ??????????**

??????ESG????????????????2024??ESG????????????????????  
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ESG??  
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Wikipedia??

4. ???????????????



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ESG??



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

# ALPS???????????????? ???

?????????IEEI? · Thursday, October 19th, 2023

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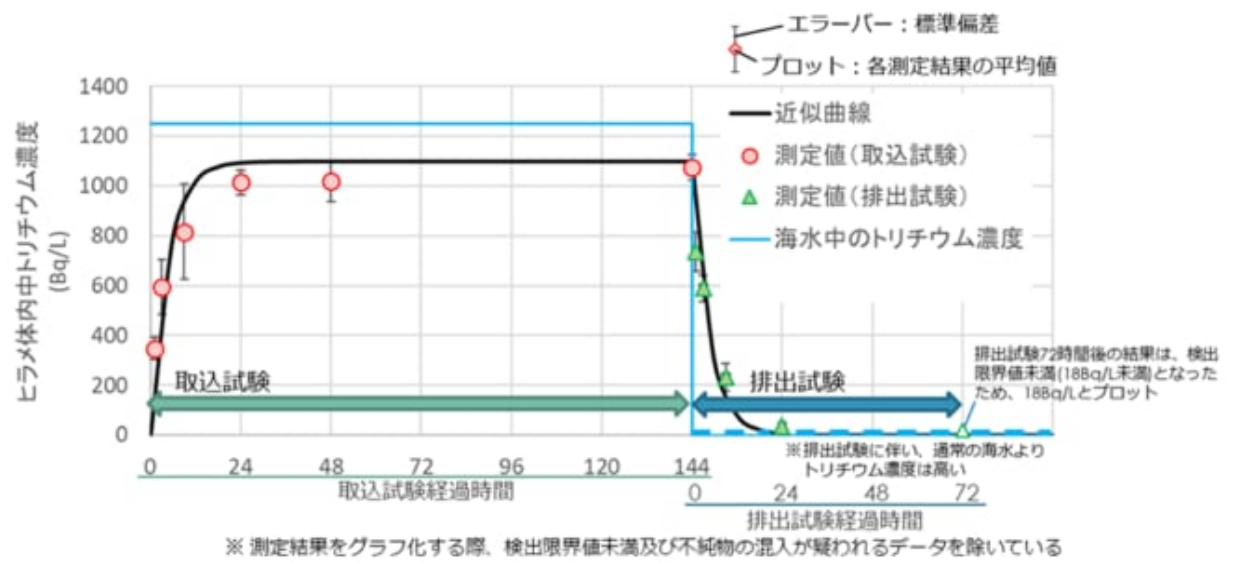
??1000??????????

??380????????????????????????????????  
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??ALPS????????????????????????????1????????6????????40????1?  
1????????1500??5??????????????????

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??<sup>21)</sup>????????????????????<sup>22)</sup>????????????????????????????

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

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?? ?? · Friday, October 13th, 2023



Liudmila Chernetska/iStock

1. ?????????????

????????????????????1970?1980??  
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- 1976????????? ?????????????????????
- 1980????????????????????
- 1989????????????????? ??????????????????
- 1989????????? ?????????????????????

1989??1988?????????WMO?????????UNEP?????????????????  
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2. ?????????????

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@WMO????????727??  
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**Don't overstate 1.5 degrees C threat, new IPCC head says**



1.5????????????1.5??  
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**Bill Gates sees 'a lot of climate exaggeration' out there: 'The climate is not the end of the planet. So the planet is going to be fine'**



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**????2??????CO2????????????????????**



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



CO2??  
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### 3. CO2????????????

2009??Climategate????????????????IPCC??  
 ??2050??

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 430ppm????????????????????CO2??

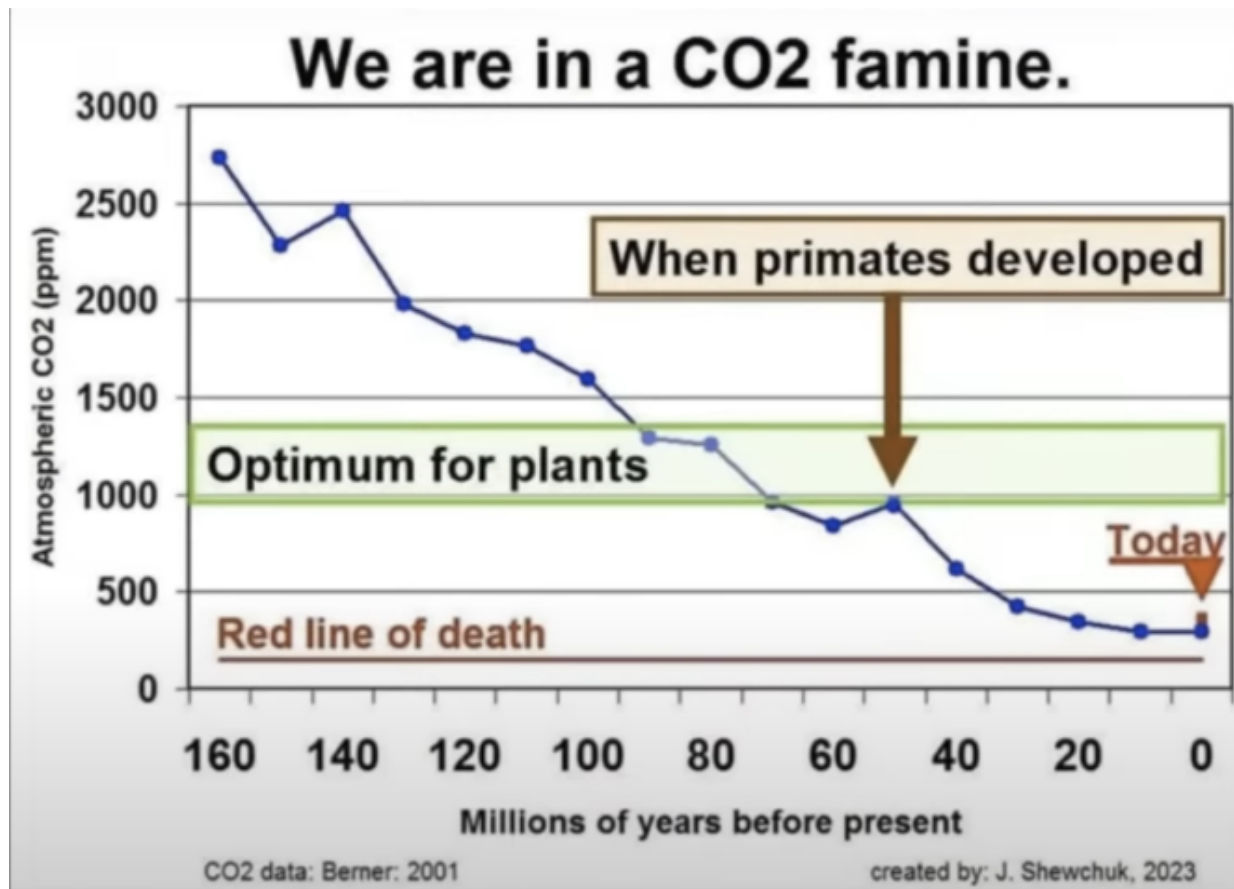
??????CO2??  
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4. ?????????

????CO2???430ppm????1000ppm????????????????????????????????2050????????????????????????????????  
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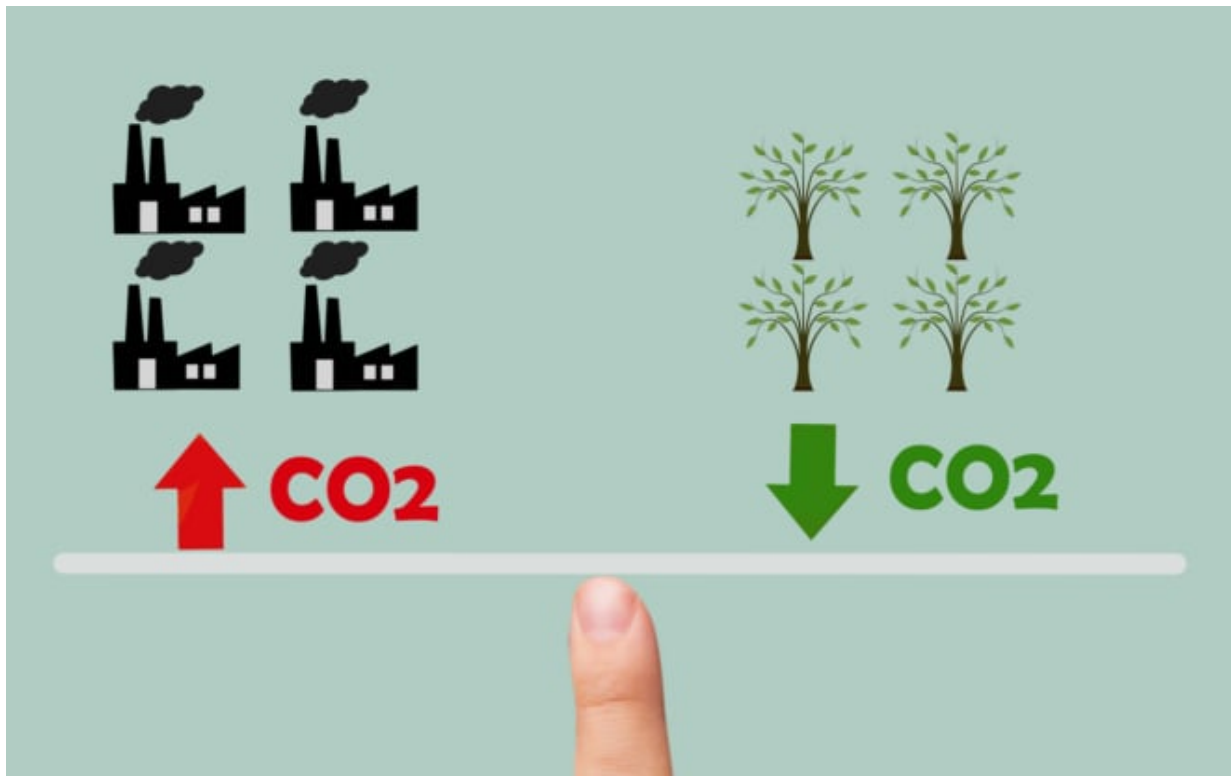
The main conclusion of this part of the study is that even an order of magnitude increase of CO<sub>2</sub> in the atmosphere by human activities, which at the present rate of input is not expected within the next several thousand years, may not be sufficient to produce a runaway greenhouse effect on Earth. On the short time scale, if CO<sub>2</sub> is augmented by another 10 percent in the next 30 years, the increase in the global temperature may be as small as 0.1°K.

??CO2?????1????????????????????????????????  
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Posted in ???, ????? | No Comments »

2026????????????????????????????????????

?? ?? · Saturday, October 7th, 2023



2023??

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ESG??



919??EU??UCPD??CRD??26??20??25??26??

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2026??EU??

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J- CO2??CO 2??1??1kWh??

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??NGO??CO2??

COP27??2023?1?13??



2050??2030?CO2??1?2??3??



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?SDGs????????

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

**2023????????????????**  
?? ?? · Wednesday, October 4th, 2023



2023 ESG 2030 2040  
023 CO2 1 CO2 CO2

4 12,009

2022 GX 2023 10 2023 9 19 188

9

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- CO2
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- CO2
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2022年CO2排放量1,500万吨

2023年CO2排放量1,500万吨

2022年CO2排放量1,500万吨

2022年CO2排放量1,500万吨

2022年CO2排放量1,500万吨

2022年CO2排放量1,500万吨



2022年CO2排放量1,500万吨

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2022年CO2排放量1,500万吨

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2022年CO2排放量1,500万吨



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

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?? ?? · Tuesday, October 3rd, 2023



KEN226/iStock

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1974???1988????????????????????????????????????24??40?????60????????????????????????????????3????????  
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IPCC????????????????????????????????100??20??

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Posted in ???, ????? | No Comments »

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?? ?? · Monday, October 2nd, 2023





metamorworks/iStock

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



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

**????????????????**  
?? ?? · Friday, September 29th, 2023

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??6????????BDI??392?????16????????????????????????????????  
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Ilari Nackel/iStock

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?5??BASF??????2600?????Bloomberg 2023?2?24??

?6??2022/08/24??????

?7????????????BMW?VW?“????”????????????????????????????????????PRESIDENT Online 2023/09/15?

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

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?? ?? · Thursday, September 28th, 2023

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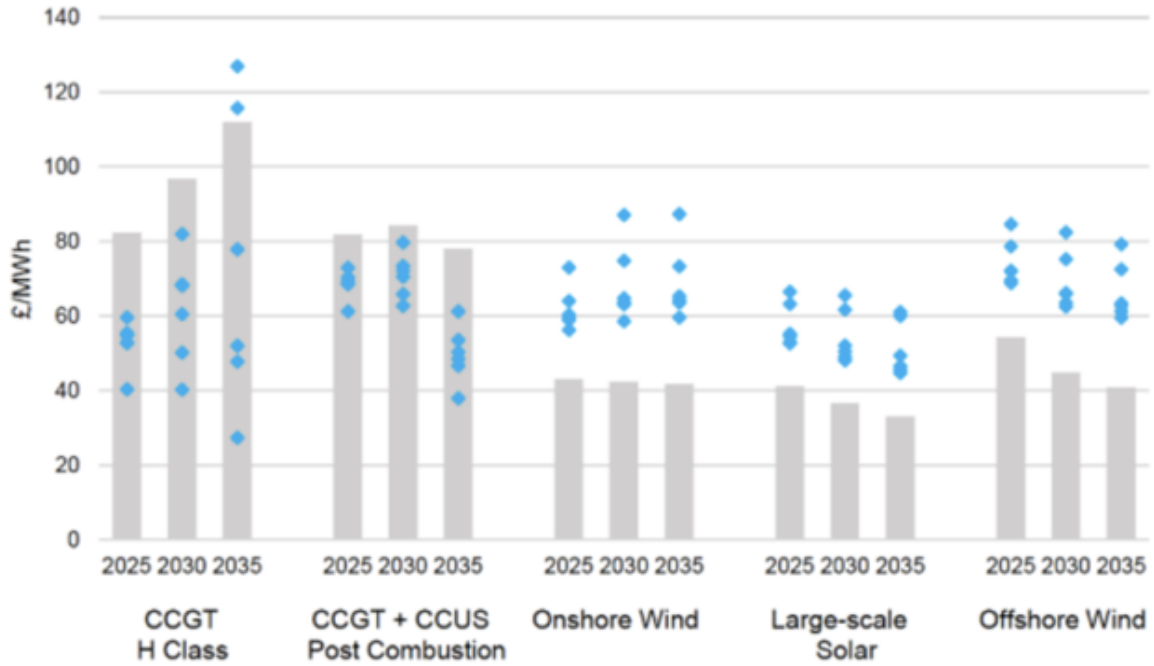
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Posted in ???, ????? | No Comments »







BEIS Electricity Generation Costs 2022

LCOE 2025 2035 54 40 /MWh 2025 67 85 /MWh 2035 60 80 /MWh

2035 LCOE 1.52 2021 8

Posted in , | No Comments »

· Thursday, September 21st, 2023



Maks\_Lab/iStock

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

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?? ?? · Tuesday, September 19th, 2023

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— ?????? (@atomic\_journal) September 15, 2023

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

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?? ??? ?? · Tuesday, September 12th, 2023



Gwengoat/iStock

1980-1970-SED-83-SED-F  
DJ-“”-30-  
CDU-FDJ-30-  
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- 89 / 91 -  
06.12.2023



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