

# Global Energy Policy Research | GEPR

GEPR  
???

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

?? ?? ? - Wednesday, April 12th, 2023



???  
Wikipedia??

??4?15??12??3??

?????

??4  
?15??2045??

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

?????220?????2022?5?????3?????  
?????  
?????

?????1?????LNG?  
?????



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

?????10?????  
?????

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

?????35?????  
?????35?????

?????  
Wikipedia??

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

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

?????  
?????

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

?????

?????  
??

?????  
?????

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



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

????????????????????????????????????5????????????????????????????  
??  
????????????????????????????????????

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

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

??  
Wikipedia??

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

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

?? ?? · Sunday, April 9th, 2023



Hello my names is james,I'm photographer./iStock

??

??

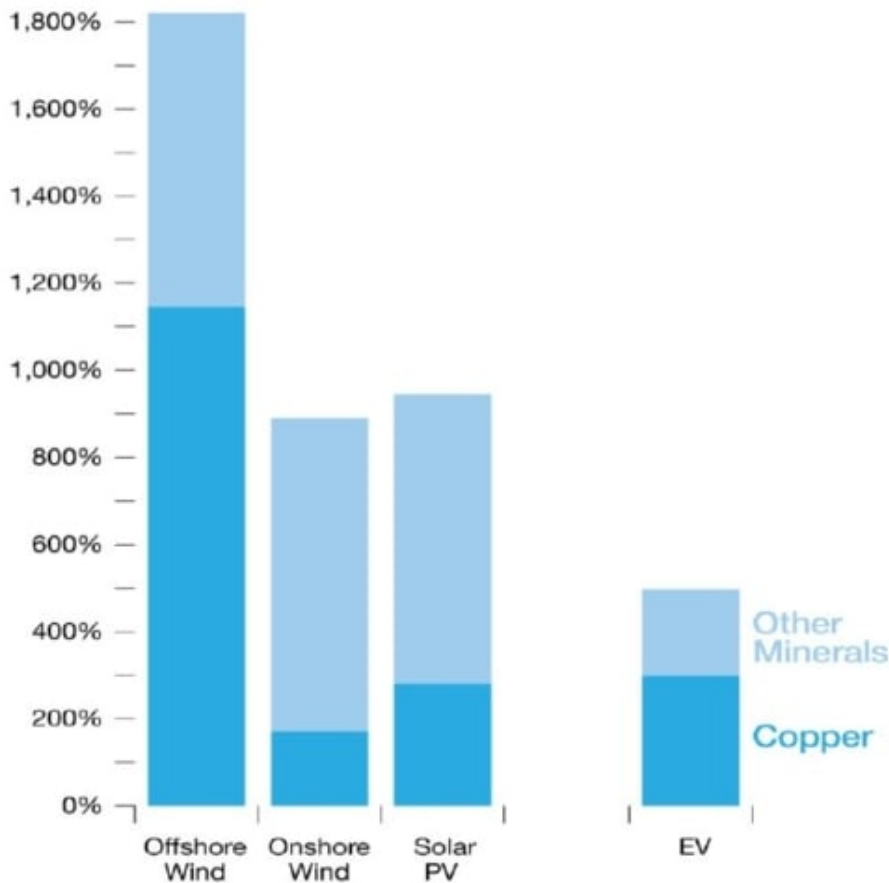
2050??  
??????????????

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

????????????????????EV??1????????????????????????????100????????

Mineral Demands for Solar, Wind, and EV to Replace Hydrocarbon Machines

Increased Weight per Watt or per Car



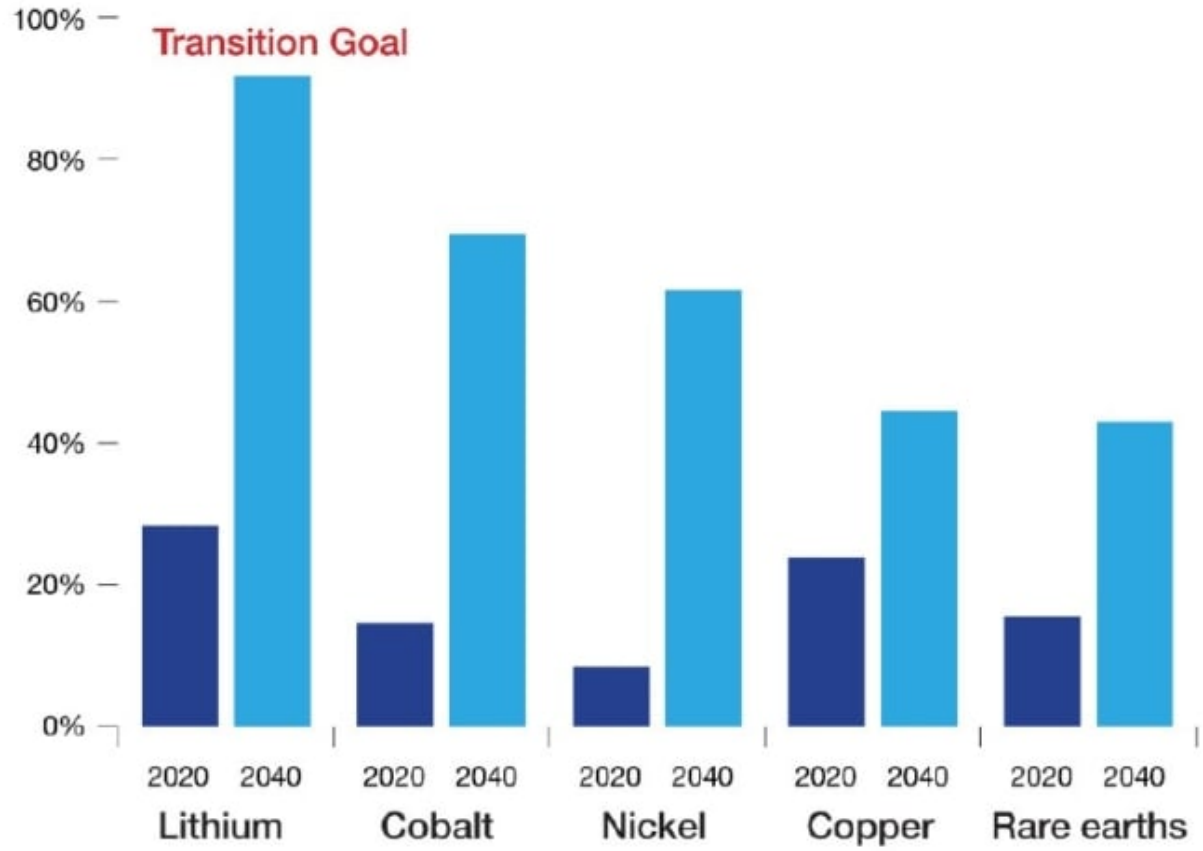
??300????????????????????????????  
 ?????????4,200??2,500??1,900??700??  
 ???????1,000????????????????????????????????????

2. ?????????????????????????????

??

### Energy Sector Share of Mineral Demands for All Purposes

Share of All Uses

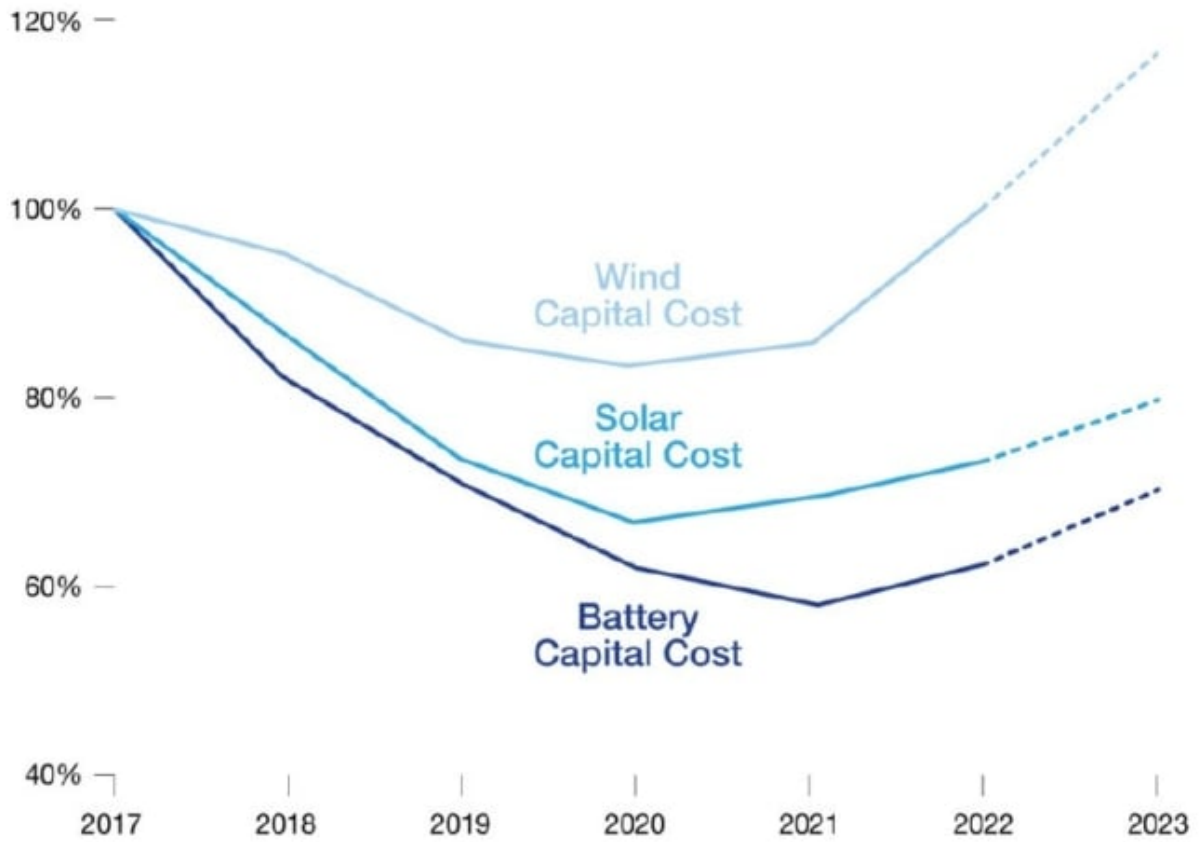


????????????????????????????????10?20????????????????????IEA????????????Transition  
Goal??50?70????????????????  
??  
????????????IMF??

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

### Costs of Wind, Solar, and Battery Hardware

Change from 2017



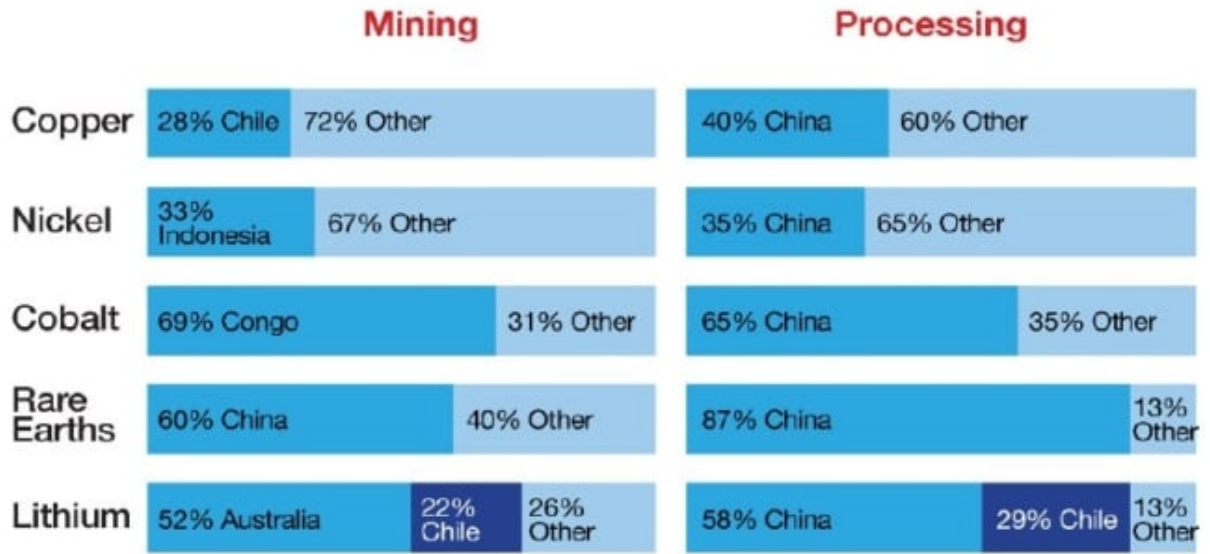
????????????????????????????????6070????????????????20????????????IEA????????????????  
 ??? ?

#### 4. ?????????OPEC???

????????????????????????????????mining????????processing????????????????????????????????



### Sources of Key Energy Transition Minerals



??OPEC?????2????????????????????????????????????  
 ?????40??????????????

?

??????????????????\_?? ?????????????????????????



Posted in ???, ????? | No Comments »

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

?? ?? · Saturday, April 8th, 2023



HiddenCatch/iStock

??

??

2050??

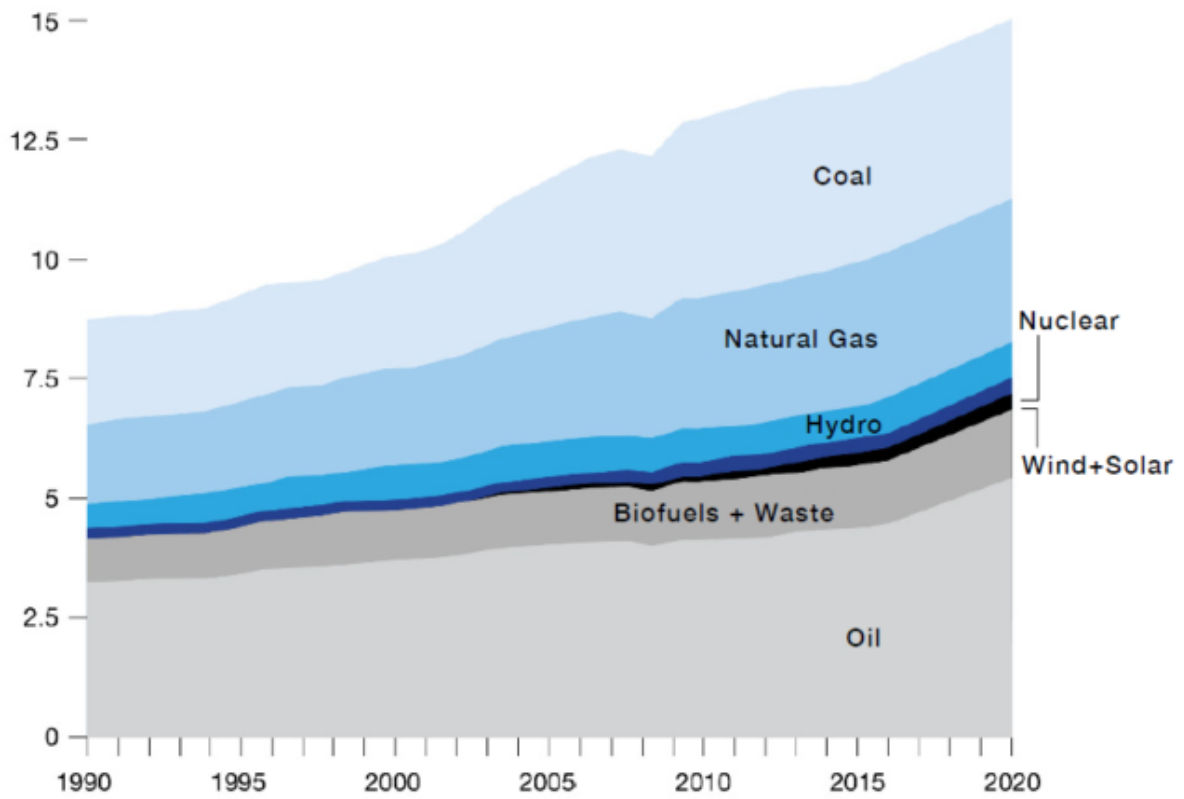
**1. ?????????????????????**

??10??



## Growth in Global Energy Supplies

Oil Equivalent (Billion Tons/Year)\*



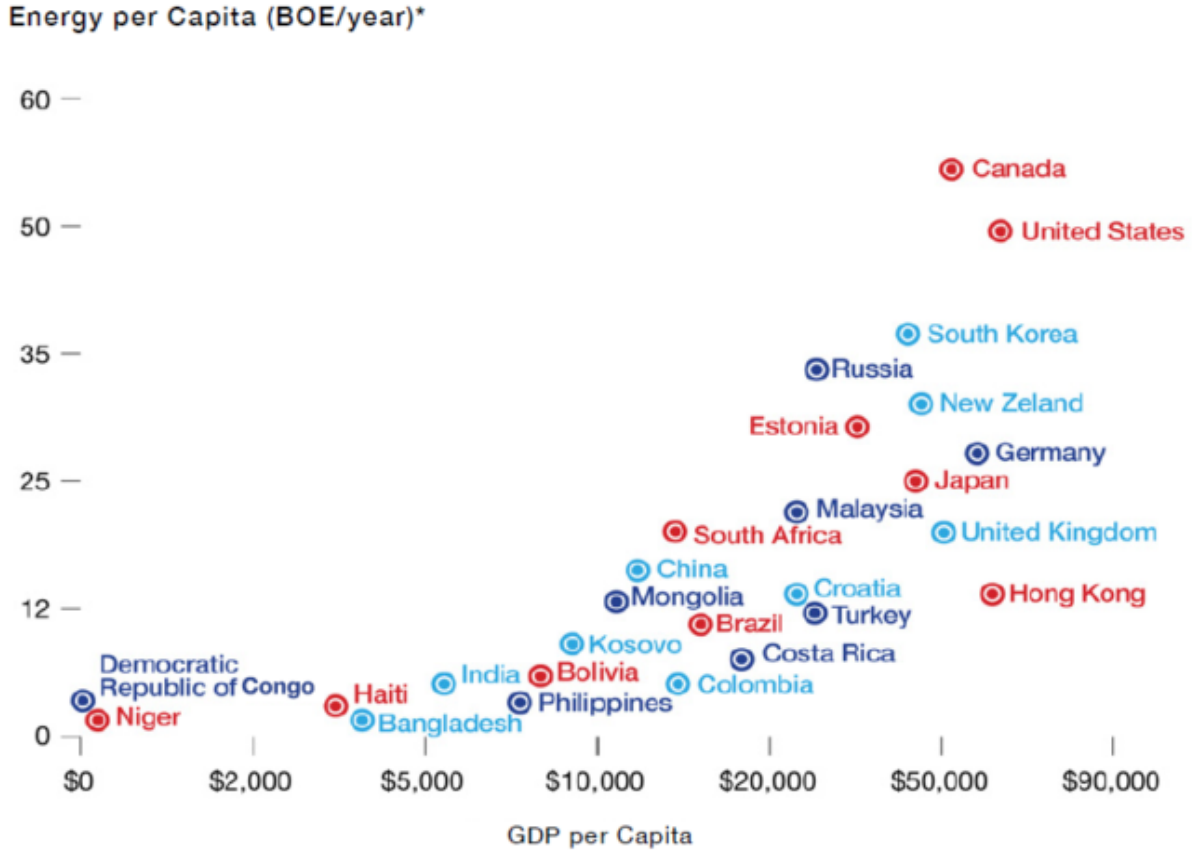
### 2. ???????????????

??



??10??????  
??60??????????????5??100????80????????????????????100??  
??????????????80????????????????????????

## Per Capita Wealth vs. per Capita Energy Use

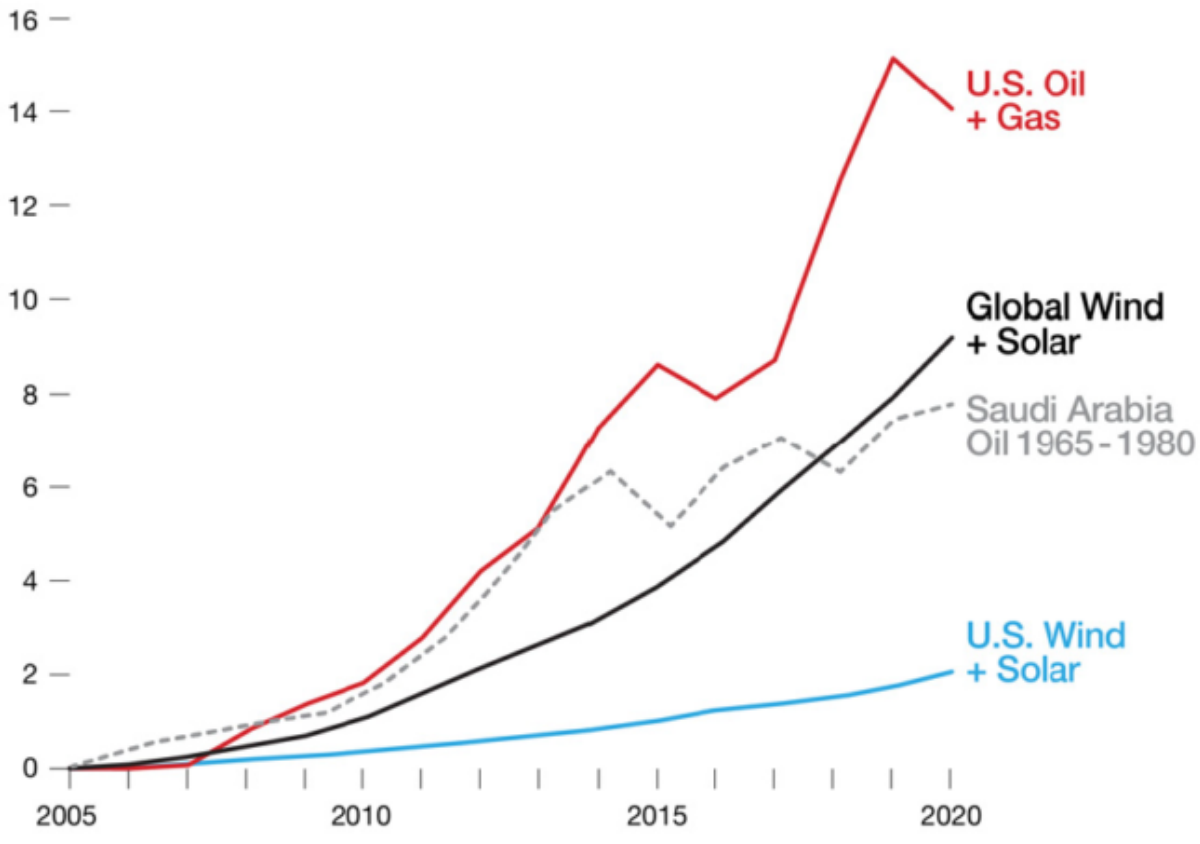


### 3. ?????????????????????????????????

??20????????????????????????????????  
??????????

**Growth of Shale Energy vs. Wind+Solar 2005–20, Compared with Saudi Arabia Oil 1965–80**

Increased Production (Million BOE/Day)

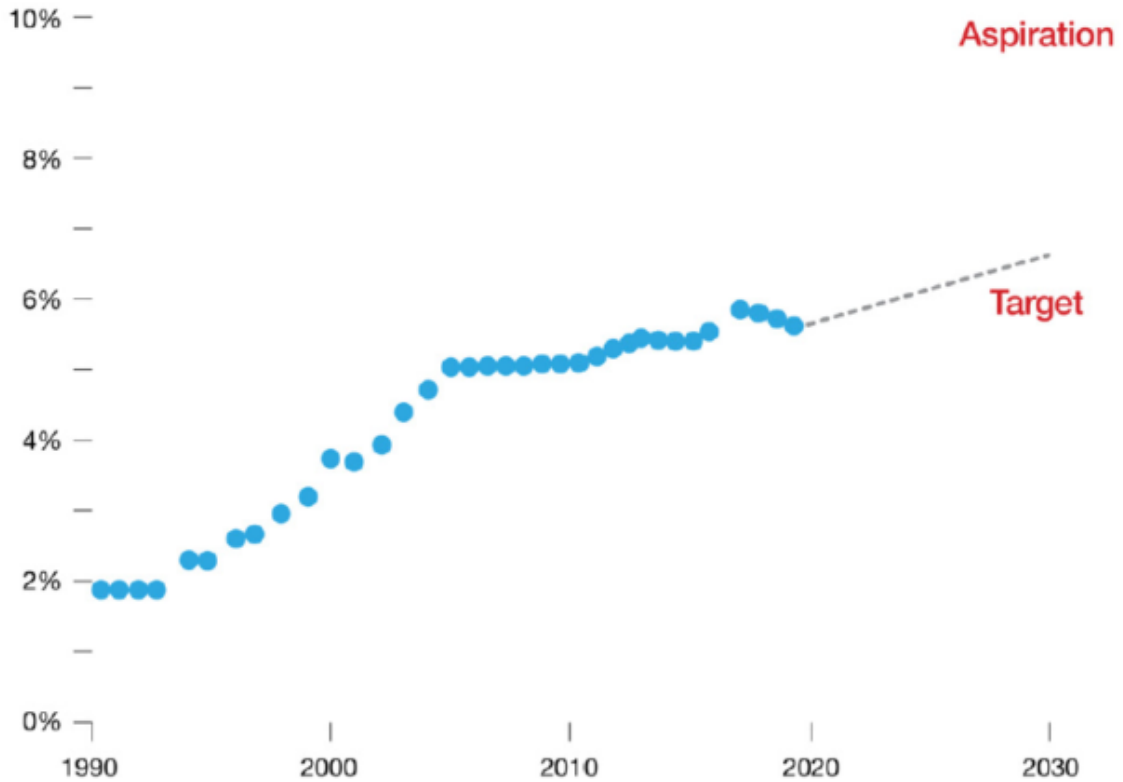


**4. ?????????????????????**

??

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

Battery Energy Density\* (% of Gasoline Density)



\*Note: Density comparison incorporates the doubly superior efficiency of a battery+motor vs. gasoline+engine.

?

????????????????\_?? ?????????????????????



Posted in ???, ????? | No Comments »

??

?? ?? · Friday, April 7th, 2023



Manakin/iStock

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

????????????????????3730????????????????????????

??How Do You Escape Net Zero??The  
U.K. shows the peril of not ditching the policy openly.????????????????????????????????????

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

- ???  
??
- ???  
??
- ?????2035??

- ??????????CCS????????????????????200????????????????????CCS?????  
????????????????????????????
- ???  
????????????????????????????????
- ???
- ???  
????????CCS????????????????????????????????????
- ???

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

?

????????????????\_?? ?????????????????



Posted in ???, ????? | No Comments »

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

?? ?? · Thursday, April 6th, 2023

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

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



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

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

?????????Youtube?????????1000????????????????204??121?????????????????????  
???????????



Tucker: What is the science behind this?

Fox News  
チャンネル登録者数 1050万人

5.3万

121万 回視聴 10 日前 #foxnews #tucker #fox  
Fox News host Tucker Carlson dissects climate change warnings and the important news stories not getting coverage on 'Tucker Carlson Tonight.' #foxnews #fox #tucker

Subscribe to Fox News! <https://bit.ly/2vaBLVA> もっと見る

??

- ???2018?????  
????????????????????2023????????????????
- ???AP??1989??2000????????????????????  
????????????????????
- ?????????????2004????????2020??

??

- 2006??NBC??10?????????  
????????????????
- ???AP??2023??  
????????????????????2035????????????3??2????????????????????

??IPCC?????????????????????????????  
????????????????????????????

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

????????CO2????????????????????????????CO2????????????????????2????????????????????????????????  
????????????????????????????

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

??  
??

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

?

????????????????\_?? ???????????????????????



Posted in ???, ????? | No Comments »

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

?? ?? · Wednesday, April 5th, 2023

????????????MIT???????????????????????????????????? “???? “????????????????????????????”??  
“????????????????????????????”

??YouTube???



- ???
- ???
- ???
- ???  
CO2??  
??  
??
- ???
- ???  
??????
- ???
- ???
- ???

??

??1.5??CO2  
??

?

??????????????\_?? ?????????????????????



Posted in ???, ????? | No Comments »

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

?? ?? · Tuesday, April 4th, 2023



Viktor Sidorov/iStock

????????????????????????????????????  
“????????????????????????????????????  
????????????????????????????????????

- ?????????????????????????????????????
- ?????????????????????????????????????  
????????????????????
- ?????????????????????????????????????  
????????????????????????????????????  
????????????????????????????????????
- ?????????????????????????????????????6????????????????????????  
?2021?2??  
?? “????????????
- ???  
??  
????????????????????????????????????
- ?????????????????????????????????????”????????????????????”?CNN????????????????  
????????????????????????????????????BBC????????”????2030????????????????????????????????  
????????????????????????????????????1.5????????????????????????????????
- ?????????????????????1.5??  
??10????????????????????



??

- ???  
 ???

?

????????????????\_?? ?????????????????????



Posted in ???, ????? | No Comments »

????????????????  
 ?? ? · Sunday, April 2nd, 2023





Jorm Sangsorn/iStock

??1071G??



??  
??

????????????????2????????1????????????????????????????4??????????

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

?4??  
????????500 km??

20km?4?2000  
2000

2000

100?150?2000

2?4?5?CO2

CO2?CO2???

7?CO2

1?CO2?1?6?11?1km?28?  
99?3.5?2?1?100?kW?

6?

1853?3?70?1923?1995?2011?  
2016?100?150?

1850?

7?

3?

7?

?

?

??

??  
??  
??

??  
??

??  
??

????????8??



??  
??  
????????JR????????????????????????????????

??

??

?

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

## ??EV????????????????????????????????

?? ?? · Saturday, April 1st, 2023



????? ????/iStock

????

????????????????????????????????????EV????????EV????????CO2????????????????????  
??

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

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

????????EV????????????????????????????????kWh????????????????????????????????  
????????????????????CO2????????????????????????

????????EV??

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

????????15.4??2020????????????????11.0????????4.4????????????????????6200????????  
1600????7800????????????????EV????????????????1640??2021????????1????????

????????????????15????????15.4????????1????????????????EU????????????????EV????  
????????????????1??EV????????????????

EV????????????????1??500kg????????????2000kg????????1??EV????????7000????????3000?  
????????????????????????????500kg?7000?? ? 2000kg?3000??9500????????????

2020????EV????????145.5GWh????????2021.11????EV??80kWh????????500kg????????6kg?kWh??  
?145.5kWh????????90????????????1??EV????????????9500????2020????????100????????  
???

??



????????????????1??  
TESLA MOTORS CLUB?????

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

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

EV????????????67??2019????????????95????????EV????????????EV??CO2??  
????????????

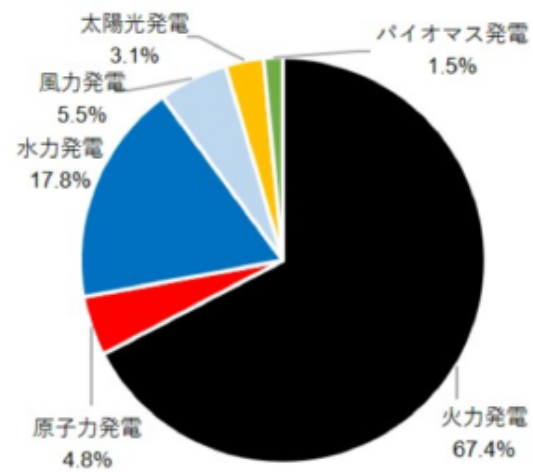


図4 2019年の中国の発電電力量の構成

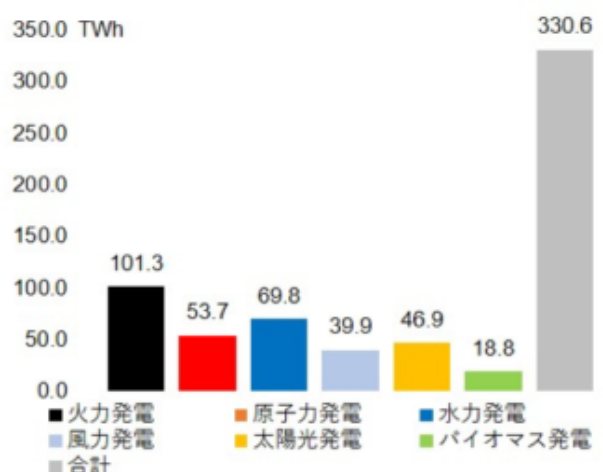


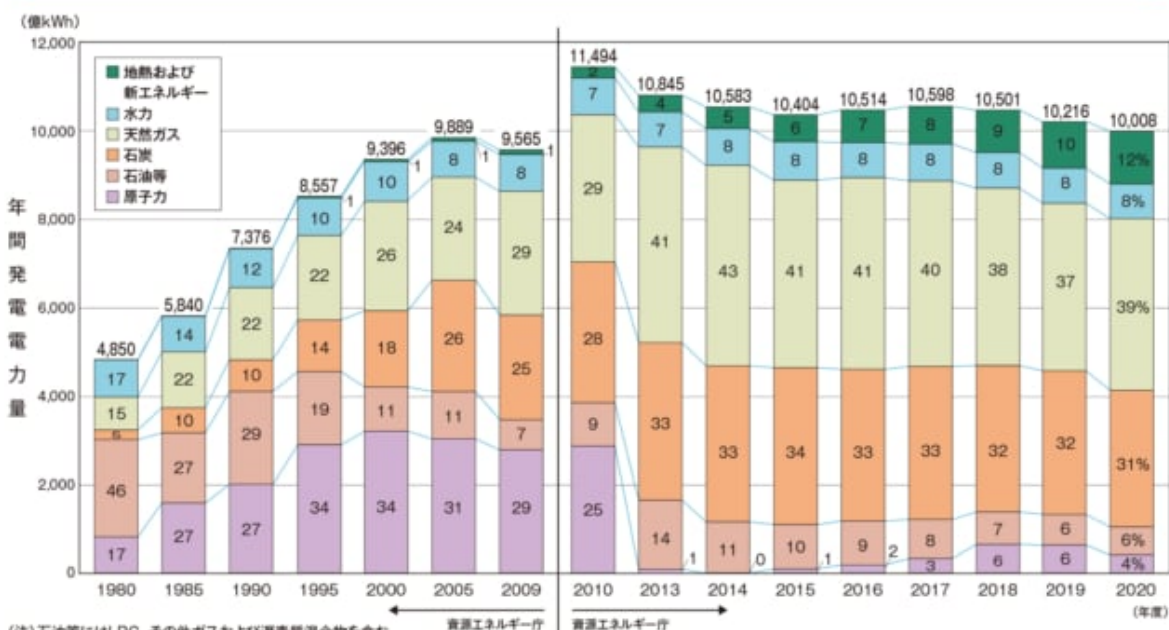
図5 2019年に増加した発電量の内訳

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

????????EU????????2035????????EV????????????????????????  
????????????????????CO2????????????

????????????????76????????EV????CO2????????

### 電源別発電電力量の推移



(注) 石油等にはLPG、その他ガスおよび混雑質混合物を含む  
四捨五入の関係で合計値が合わない場合がある  
グラフ内の数値は構成比(%)

← 資源エネルギー庁「電源開発の概要」、「電力供給計画の概要」を基に作成  
→ 資源エネルギー庁「総合エネルギー統計」を基に作成

1-2-7 出典：資源エネルギー庁「エネルギー白書2022」より作成

????????/????????

EV??CO2??

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

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

??CO2????????????CCS????CO2??  
??2030????????????2050????  
????????????2050?2060????????????????????????????????????

????????????????EU????????????????2035????????????EV????????????????????????  
????????????????EV??

???

????EV??  
????????SDGs????????????????

????????????????????????????????EV????????????????????????????????LNG????????  
????????????????



??????EV??????CO2??  
??

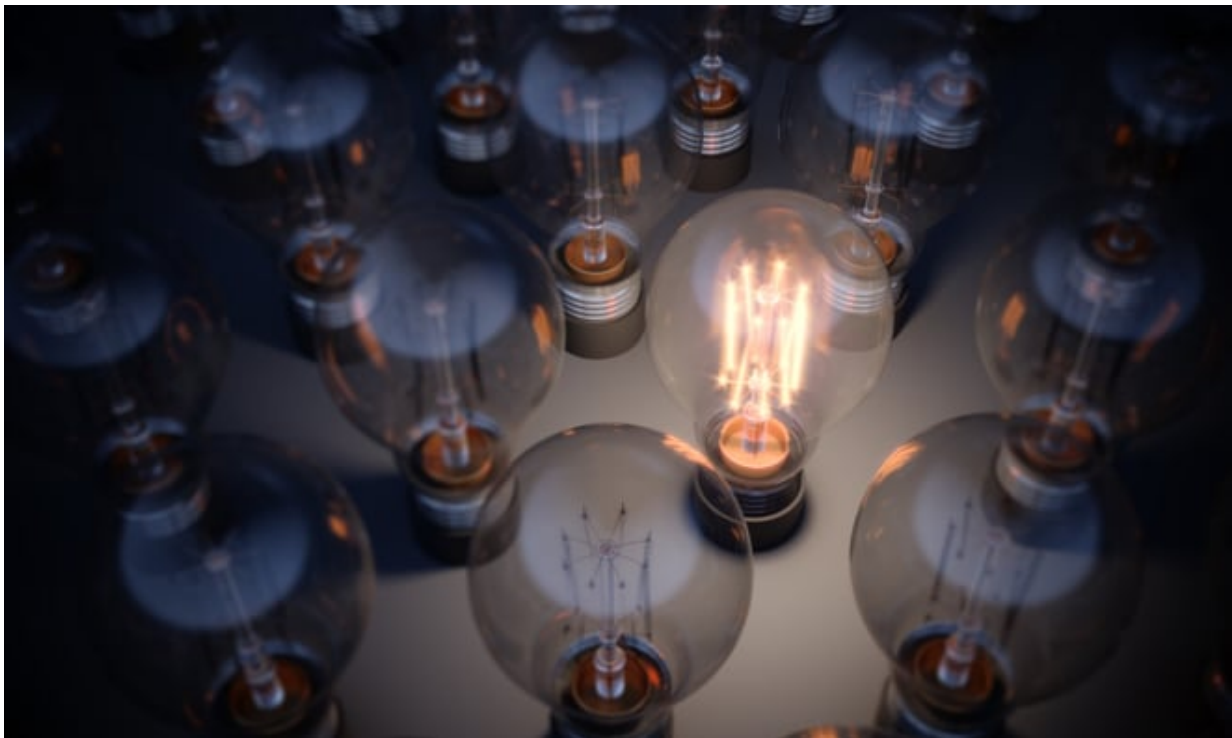
????????????EV????CO2????????????????????????????????CO2????????????????????????  
??

????????GX????????????????????????????????EV????????????????EV????????????  
????GX????????????????????????????EV????????????????????

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

## ?????iBR????????????????

?? ?? · Thursday, March 30th, 2023



Eoneren/iStock

????GX??

????????????????????ABWR?????????)?APWR(?????????)????????????????  
????????????

????????SRZ?1200????????

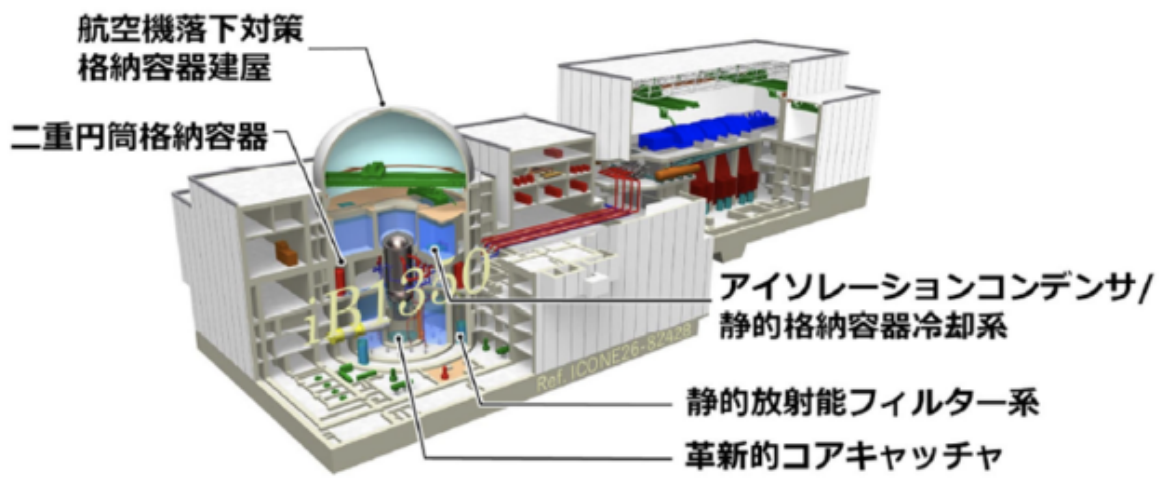
### ??????SRZ1200???

iBR????????????

iBR???innovative-intelligent-inexpensive BWR  
??135????????iB1350????

iB1350の全体概要図

建設実績のあるABWRをベースとして、様々な革新的安全系を採用。  
高い安全性を達成しつつ、建設性や経済性にも配慮。



iB1350

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

????????????????????6????????????????????ABWR????

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

?????2??  
??3.11????????????????ABWR????2????????????——100??1????????????

??  
?????

??? grace  
period??3?????14  
??

????????

??

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

??EPR????????????????????????????

????????2????????

??iB1350??1.5????????????????????????

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

??3.11????????????????  
????????????????????

??  
??

??

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

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

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

### ????????????????EU

?? ?? · Wednesday, March 29th, 2023



AlxeyPnferov/iStock

3????EU????????????

????????????????????2021?7??EU??????2030????????????90??55????????????????FIT  
for  
55????????????????????2035????????????EV????????????3?7????????????????  
????????????????

EU????????????27??3????????????????  
??3????????????????????????????EU  
U????????????????

????????EV????????????????????????2?14????????????340????279????21????????????  
????????3?7?EU????????????????

??65??  
??

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

??????2?27????????????????????EU????????????????????????????  
?????e-Fuel????????????????

????????????EU????????35????????EU????????????  
????????????

????????EV????????BYD????2????????????????EV  
????????????

EU??260????????????EV????????

????????????27????????????????????90????????IFO????3?17????????????2019????447,000?  
????????

????????????EV????????????????????5?1?  
??18??1090????????

????????????12????EV????????????????  
????????EU????????????????

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

????????2?16????????

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

????????

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

????10??27????????????EU??  
????????????

????????????EU

??

????????????????CO2????????CO2????????????????????????????e-  
Fuel??

??e-  
Fuel??  
??

????????e-Fuel????????e-Fuel????????????????????e-  
Fuel??2035????????e-  
Fuel????????????????EU????????????????????

????EU????????3?25????????????????????e-  
Fuel????????????????2035????????????????????EU????????

????????????????EU????????????????

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

????????????????????????????????????3?15????????????????  
????EU??  
????????

????????????EU????????????????

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

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

?? ?? · Wednesday, March 29th, 2023

??  
??

??

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



Atstock Productions/iStock

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

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

2019????????????????????????????????CO2????????????????????????DO  
 Black????????????

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

??D  
 oconomy??2018????????????????????????????DO Black????????????????????

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

??DO  
 Black??

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

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



??

??radical??  
??

??  
??

??DO  
Black??

??  
??

??DO  
Black??2023?3??  
??

??DO  
Black????????????????????????2021??Doconomy??  
Calculator??  
???????

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

Posted in ???, ????? | No Comments »

## EU???????

?? ? · Tuesday, March 28th, 2023



PeskyMonkey/iStock

3??  
????????????????????

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

EU?2022?5??REPowerEU??  
???EU????????????????????????????????????RePowerEU????????????????????1??1????????????????

EU??40??45????????????  
?EU????????????????????90??55??57????????????????

2022?6?????????EU????????????????????40????????????????????10?????7.5????????????????  
????????????LNG?????????????????????EU????2023?2????6????????????????????????

??2023?4????????????????

EU????????????2021??  
??

??  
??

?????EU??EU?  
??EU????????????????????????????

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

????????????????????????????????EU????????????????????????????????2022?23????????????????????  
????????????????????????????????RePower EU????????????????????????????

??EU????????????????????2022?8????????????????????Inflation Reduction Act: IRA??????????????

IRA????????????????????EU??

????????????????????2022?12??IRA??2023?2?1??  
EU????????????????????Green Deal Industrial Plan?????3????????????????Net-Zero Industry  
Act??????????????

????????????????????????????EU??  
??????????????????????????

????????????????????2021?2022????????????????????EU????????????2030?45?2050?????????????  
??????????????????????????

EU????1.5??  
??

??BP??  
????EU??

??2050??  
????????????????????EU????????????????CBAM????????????????????????????????CBAM?????  
????????????CBAM????????????????????

EU?1.5??CBAM????EU????????????????????????  
??

??????EU??????????????????????????

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

**??**

GEPR??? · Sunday, March 26th, 2023

????????????????????????????????18??  
??1955????????????????????

??1950?6%??????60%???????

??  
?????47????????????????????????????????????

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



??????????  
double\_p/iStock

??????????

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

1997?3?24??

- ??????????6??1??19??????
- ??????400t?????????30%??????
- ?????13?700?m<sup>3</sup>?????????34% ???
- ?????2?1900t?????????40%??????

????????????????????138?????????6????????????????????????????96????????????????????

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

??

??

??

??

??

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

??

??

??

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

??

??1949??10????????????????????????????????

??200??400mm????????????????????????????  
????1????????2????????3????????4??5????????????????

??

??

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

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

- ?????????????????
- ?????????????????

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

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

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

??



出所：中国中央电视台（CCTV）2015年3月8日

??

??

??

??

??11????????????????Beixin Road & Bridge Group??

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

??

??

??

??

??

??  
 ???



?

??????

??Ismail

Gasprinski

???



Posted in ???, ?? | No Comments »

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

?? ?? · Saturday, March 25th, 2023

????????????????????????ESG?????Environment?????Social????????Governance?????????????????  
 ?????????????????????CO2??E????????LGBTQ????????????????S????  
 ???G??

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



Douglas Rissing/iStock

?????ESG??2023?3?6????????????????????????????????????“w  
oke?????”??“????”?????????????????????????????  
?????????????????

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

?????ESG???2?????????

**??1?PayPal**

PayPal???PayPal???????????????????????????

??2019?????????????????????NGO?????????????????Southern Poverty Law Center;  
SPLC???2021???Anti-  
Defamation League; ADL?????????????????????

PayPal??  
?????????????

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

??  
??

??  
??

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

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

????????????????????2023????????25??Brandon  
Wexler??Wex Gunworks????????????????????

??

??  
??

??

??

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

??  
??  
????????????????????????????“????”????????????????????????????

**???????**

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

??  
??

??  
??

????????????????????ESG????????????????ESG??  
????????????????????ESG??E  
SG????????????????????

????????????????????????????????????2022??  
??  
??

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

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

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

?? ?? · Thursday, March 23rd, 2023



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

Harry Wedzinga/iStock

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

????2023?3?15?????????????BBB?BoerBurgerBeweging?????????????1?????????????????  
?????????????????1??



(a) 2019年

(b) 2023年

● VVD ● GROENLINKS ● SGP ● PVV ● CDA ● FvD ● CU ● PvdA ● SP ● Anders  
● BBB // Tussenstand



1??NOS?2023????????????2019????????????BBB?????????????  
?????????

?????4????????????????????????12????????????????????????5????????????????BBB?4?????????????????????????????  
??DNYUZ,  
2023)????????????57.5%????????????????????????Fox News, 2023??

??EU????????????????????  
?2030??50%????????????????

??  
??2??



202274??Fox News, 2023??

??

BBB??  
2023)??

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

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

??

GEPR???. Sunday, March 19th, 2023

??





Achisatha Khamsuwan/iStock

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

??

????????FIT??

??2025?4????????????????????????????????????

??

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

??

??

????????XPCC???

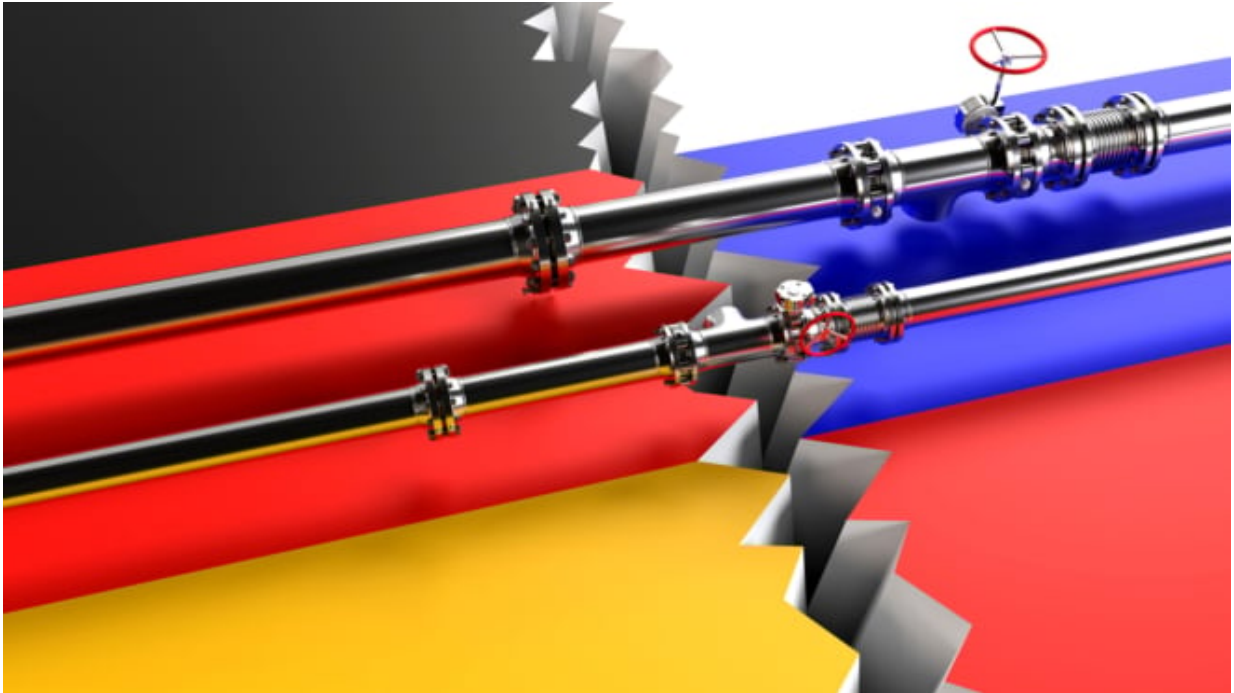
????????Xinjiang Production and Construction Corps,  
XPCC??1954??1981????????????  
??

????????????????14????185????????????348?5100????????????????????  
????????????

??







Leestat/iStock

??????????????ARD????1????????3?7??  
 ?????????????????????????1????2?????2??????4????????????9????4????????????????????  
 ??

???  
 ???  
 ???

???  
 ?????????????????????????????MV????????????????????????

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

?????????2005?????1??18????2??  
 ?????2??05????????  
 ???

?????????1??11????????????????????  
 ???  
 ??????????????????????EU??  
 ???

???  
 ?????????????????2????????????

???EU????????????????????????  
 ?????????????????????????????2??  
 ?

2019?12??160km??  
??

MV?MV?21?1?8??

?20??100?2000??

1.65??215??

21?5??9??  
MV??

**?????**

2??6??

2??2??1??

22?9??

?4??NATO?2??

MV??

**?????**

980??50??4??

2??

9??2300??30??

??

?????

?????CDU??3?10????????????????????????  
??CDU?????????  
????????????????????????????????

????????????????????LNG??  
????????????????EU??EU????????????????????  
?

Posted in ???, ?? | No Comments »

??

?? ?? · Wednesday, March 15th, 2023

??

??WSJ????????Breitbart????????Fox News?3???

??





Bet\_Noire/iStock

????????CO2??

??  
??

**Bjorn Lomborg Climate Report: Hurricanes ‘Unprecedentedly Weak’ in 2022**

????????????????2022????????????????????

Thomas D. Williams, Ph.D.  
Breitbart News Network – 30 Jan 2023

????????????????????CNN?GAF??  
????WSJ??????

**Partisan ‘Fact Checkers’ Spread Climate-Change Misinformation**

I posted sound statistics on polar-bear populations, and Agence France-Presse called them ‘misleading.’

??  
????????????????????????????????AFP????????????????????

??  
?

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

**S.O.S for the U.S. Electric Grid**

PJM Interconnection sounds the latest alarm that fossil-fuel plants are shutting down without adequate replacement power. The political class yawns.

????S.O.S.?PJM??  
??

By The Editorial Board Follow  
Feb. 26, 2023 4:47 pm ET

**The Ukraine War Lesson Europe Refuses to Learn**

The Continent is taking national security seriously but closes its eyes to the risks of ‘green’ energy.

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

Joseph C. Sternberg hedcutBy Joseph C. SternbergFollow  
Feb. 23, 2023 1:06 pm ET

CHINA Published February 20, 2023 2:00am EST

**CCP-backed tech companies are poised to cash in on Biden’s climate bill, national security experts warn**

Ford has ‘serious questions to answer,’ Sen. Joe Manchin’s office tells Fox News Digital

Thomas CatenacciBy Thomas Catenacci | Fox News

??  
?????????????????Fox News Digital?????

DIGITAL ORIGINALS Published February 21, 2023 2:00am EST

**Does China’s purported green energy push signal a coming conflict with the US?**

Climate talks between the US and China are meant to appease westerners, not actually enact change, policy analyst says

??  
??

?????1??  
??

**?????ESG?????????????????**  
????????????????????????????

By The Editorial Board  
2023?3?3? 13:31 JST

?????????????????????Woke  
Capitalism?????????ESG?????????????????????ESG????????????????????????????????????  
??

???ESG?????2024????????????????????????????????????

**?ESG????????????????????**

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

By Julie Bykowicz and Angel Au-Yeung  
2023?3?3? 08:34 JST

**ESG????????????????????????**

ESG??????????????68????????????????????

By Jason Zweig  
2023?2?6? 07:33 JST

??  
??

??

????????????????????????????????????2024??  
????????????????????????

?

?????????????????\_?? ?????????????????????



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

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

?? ?? · Tuesday, March 14th, 2023



?????

Taiki Kawasaki/iStock

??3?17????????????????????????

??

????????????????????????????????????12??3????????????????????????

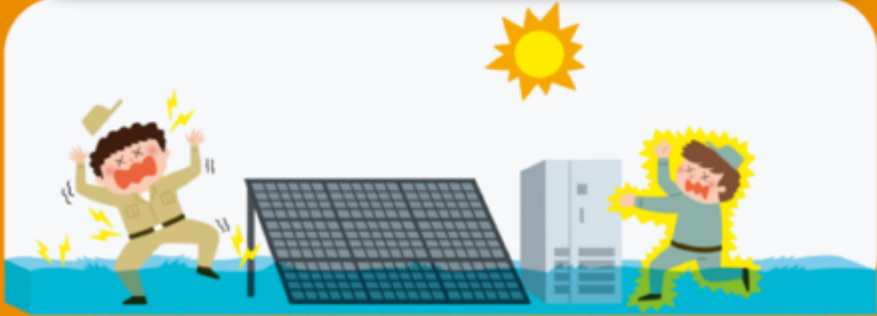
????????????????????????38.5%???????????? 749 ?????????? 552 ?????????????? 1,089  
 ???

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

??

??NEDO????????????

# 太陽光発電システムの 水害時の **感電の危険性**について



水害などで**水没・浸水**した太陽光発電システムに**接近**や**接触**することにより  
**感電**する**おそれ**があります！

- 台風や大雨、局所豪雨の影響により、太陽光発電システムが**水没・浸水**し**破損**している場合があります。太陽光発電システムはこのような場合でも**光が当たれば300V以上の電気を発電**をします。
- 水没・浸水をした太陽光発電システムに**接近・接触**すると**感電**するおそれがあります。
- 風水害の被害にあった太陽光発電システムに**むやみに近づかず**に太陽光発電システムの**事業者や管理者へ連絡**してください。

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

??  
????????

????????49??

?

????????????????\_?? ?????????????????????



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

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

?? ?? · Monday, March 13th, 2023

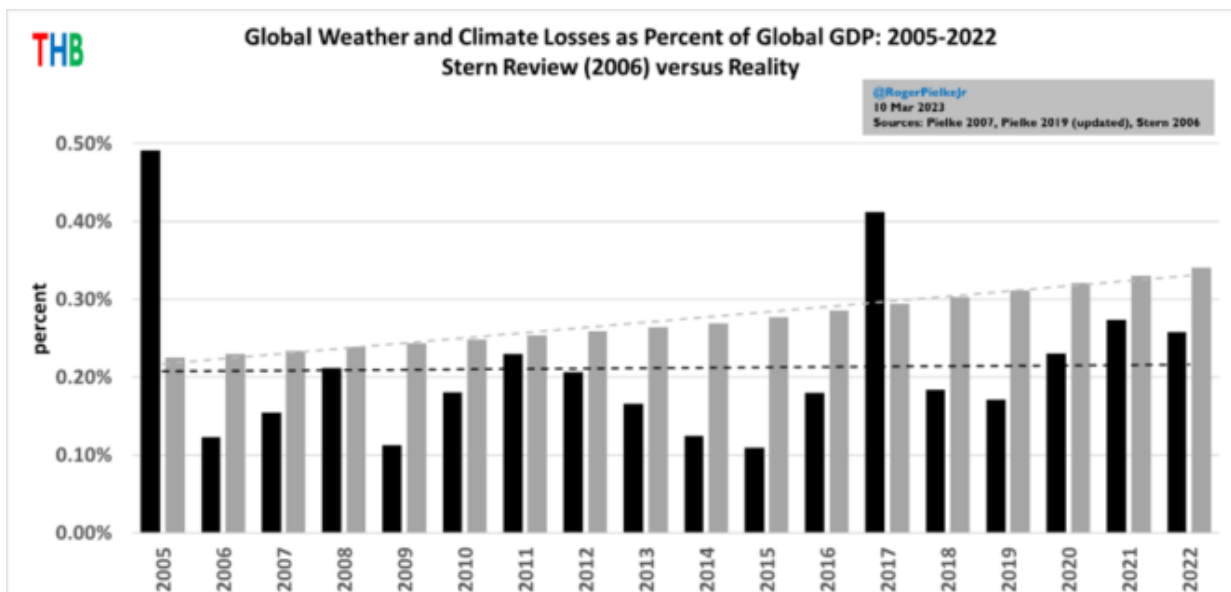




ThomasVogel/iStock

2007 CO2

1 GDP





Posted in ???, ????? | No Comments »

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

?? ?? · Sunday, March 12th, 2023



gremlin/iStock

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

[“In the Tank” 382 Bold New Cities Take the Stage](#)  
 ???

??????????????????CO2????????????????????AI??  
 ???  
 ???

???G20????????????????????????????GSCA????????  
 ?????????????????GSCA??2019?10????????????????????????????????  
 ???

GSCA??20????????????????????????36????????????  
 ???

???  
 ???

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

Neom The Line

170 200 500

170 500 634 450 200

The Heartland Institute

Vertical text block with a grey bar on the left side.

Text block

Text block

????????

900 500 200

Text block

75

Text block

Text block

????????

900

900  
900



900  
900

900  
900

900  
900

GSCA  
GSCA

900

900  
900



1960  
Cabrin  
Green  
40?50

2025  
5

2008  
2008

2016  
The City That Never Was

900

900  
900

900  
900

900  
900

900  
900

??2023??  
??  
??

??15??  
???

**????????????FEW????????????????**

??



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

??  
??

??  
????CO 2??

??  
??

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

??World Economic  
Forum??WEF????????????????????WEF????????????????????????F?E?W????FEW????????/????  
???????????

?WEF????FEW??

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

**????????????20??????6??????**

?? ?? · Thursday, March 9th, 2023





Evgeny Gromov/iStock

????????????????????1?????????Global Energy Monitor?GEM??????????

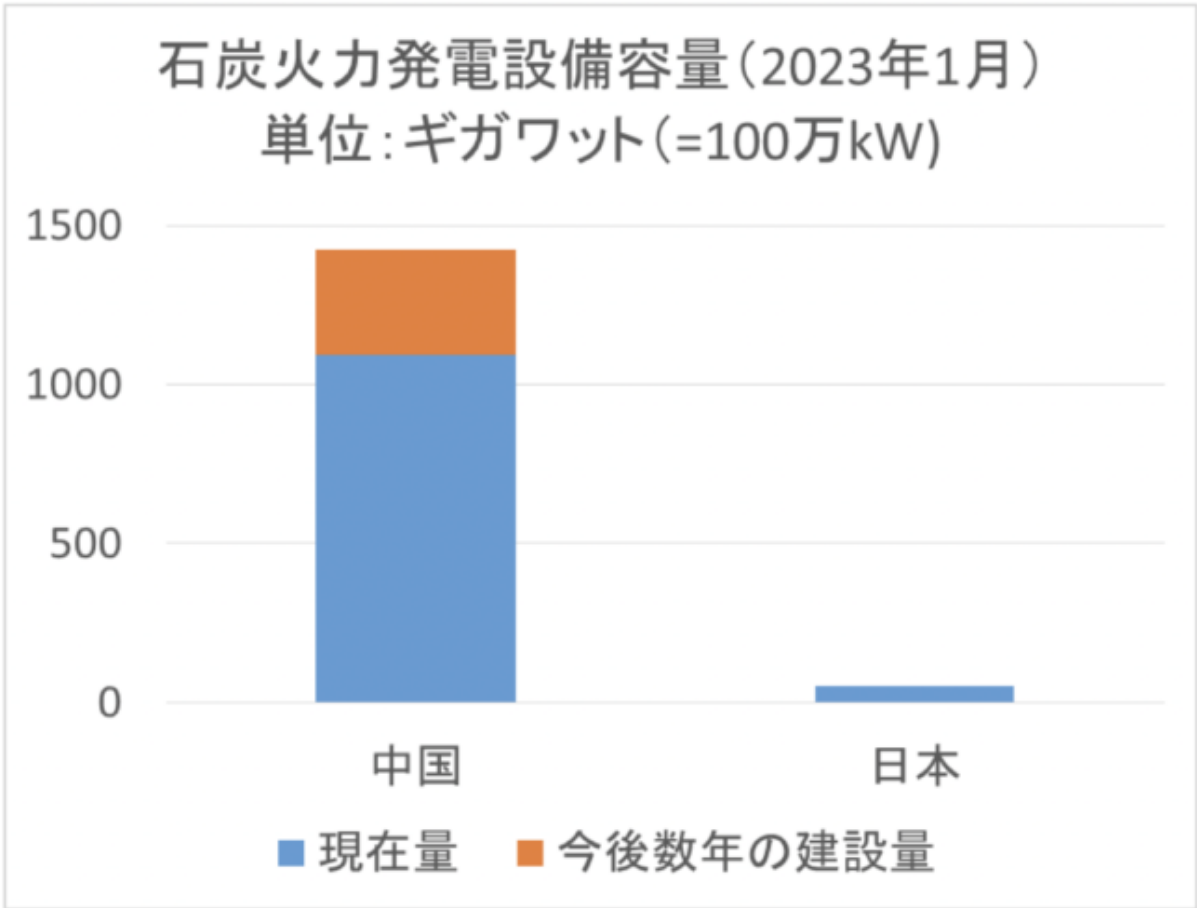


?1?GEM??

?????????????????????Permitted? ??????New project started?????????Construction?  
??????Commissioned??

2022??6??????????????????





	中国	日本
現在量	1093	53
今後数年の建設量	330	0

3?????GEM???

?????20?????6?????

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

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

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

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

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

?????2022?????

?????4500?55

00????????????????1??8760????????????5??  
?????????

?

??????????????\_?? ???????????????????



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

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

?? ?? · Wednesday, March 8th, 2023



loonger/iStock

?????Australian Strategic Policy Institute, ASPI?????Who is leading the critical technology race?????

??

????ASPI????44????37????7????

??AI????????

**??????**

**????**

1.????????

??

2.????

??

3.????

??

4.????

??

5.????

??

6.????????

??

7.????

??

8.????

??

9.????

??

10.????

??

11.????

??

12.????????3D????

??

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

13.????5G?6G????

??

- 14.????? ??
- 15.????AI????????????????? ??
- 16.????? ??
- 17.??????? ??
- 18.????????????????????????????? ??
- 19.????????????????? ??
- 20.????????????????????? ??
- 21.????????????? ??
- 22.????????????????????????????? ??
- ?????????
- 23.????????????? ??
- 24.????????????? ??
- 25.? ? ??
- 26.????? ??
- 27.????????????????????????? ??
- 28.????????????? ??
- 29.????? ??
- 30.????????? ??
- ?????
- 31.????????????? ??
- 32.????????? ??
- 33.????????????????????? ??
- 34.????????? ??
- ?????????????????????????????
- 35.????? ??
- 36.????? ??
- 37.????????????? ??
- ?????????????????????????????
- 38.????? ??
- ?????????????????????????????
- 39.????????????????????????????? ??
- 40.????????????????????????? ??
- 41.????????? ??
- 42.????????????????? ??
- 43.????????????? ??
- 44.????????????????? ??

??

??

??

??

??







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

??



??  
??  
??

??

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

??  
??

????????????????????????????2022?6??  
??M-19?Movimiento 19 de  
Abril?????????4?19??

????????????M-19??  
VS??

??  
??

??  
WHO????????????????????Tedros  
Adhanom Ghebreyesus????????

??  
Tigray People’s Liberation  
Front; TPLF)????????????????????????????????TPLF??The Global Terrorism  
Database????????????????????????????????TPLF????????????????????????????  
????????????????????????

??  
????????

**????????????????????????????????ESG????????????**

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

??  
????????

????????????????????EU??  
??  
ESG????????  
????????????

??

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

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

??  
???ESG????????????????????440??????????????

??  
??

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

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

?? ? · Saturday, March 4th, 2023



Andres Victorero/iStock

?? ??

??  
??

??

??

??  
??

??  
??

??



??

??  
??  
??

??  
?1707??1854??

????????????????????500km?????????6??86????????????20k  
m????????4??

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

????????????????????????????????????12??1930????5????  
?????M7.3????????????????????????????????????

??  
??  
m????????????????????2m??  
????????????????????????????????

??







Vertigo3d/iStock

2026???2????????PJM????????????????  
 ??????????????????????

PJM??  
 ?????????????????D.C.????????????????????????????????

- PJM?????6500?????????13??2030??  
 ??
- PJM??PJM  
 ??
- ???PJM??PJM??????3000  
 ???????????????40??????2030????????????????????????????????PJM?????????????2  
 1???????
- ???EPA?????????5????????  
 ?????????????????????????ESG??  
 ??8.9???
- ???????????????????????????9??  
 ???5????????????????????  
 030??????????????????????????????21??  
 ?????EV????????????????????????????????
- PJM??24??365  
 ???  
 ??????????
- ??12????????PJM??

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

- PJM??  
????????????????????????????????

??

??  
??

??  
??

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

??  
??

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

## ????????

?? ?? · Tuesday, February 28th, 2023

????? climate change??? global  
warming??  
??

????????????????? climate  
justice??  
??

### ? ???????????????The Climate Book?

2022?10???The Climate  
Book??  
??



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

???????????????? ethics????????????????  
morality??  
????????????????????????????The Climate Book????????????????????

??  
??

??  
??

??100%???????????????? appeal to  
authority???????????????????????????? ad hominem???????????????????????? appeal to  
emotion????????????????????????????

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

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

??

??  
??

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

??5????????6  
????7??RINZEN????????????????????????????????  
??

????????????????????????????????????MLB??  
??

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

??

??FIT????????  
????????????????????????????

??

??FIT????????  
??  
????????2011????????????????????????????????????

FIT??

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

??  
??

??  
??  
??????

**? ??????**

??  
??

??  
?????????????????????????? **sacred cow**??

??

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

**??**

?? ?? · Tuesday, February 28th, 2023



MrHstuff/iStock

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

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

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

????????E-MAIL????????

??



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

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

**??????**

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

**??**

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

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

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

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

??



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

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

??  
??

??  
??

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

??  
??

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

??

??

?

????????????????\_?? ?????????????????????



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

# ????????CO2????

?? ?? · Monday, February 27th, 2023



Kwangmoozaa

????2023?2?4??  
???

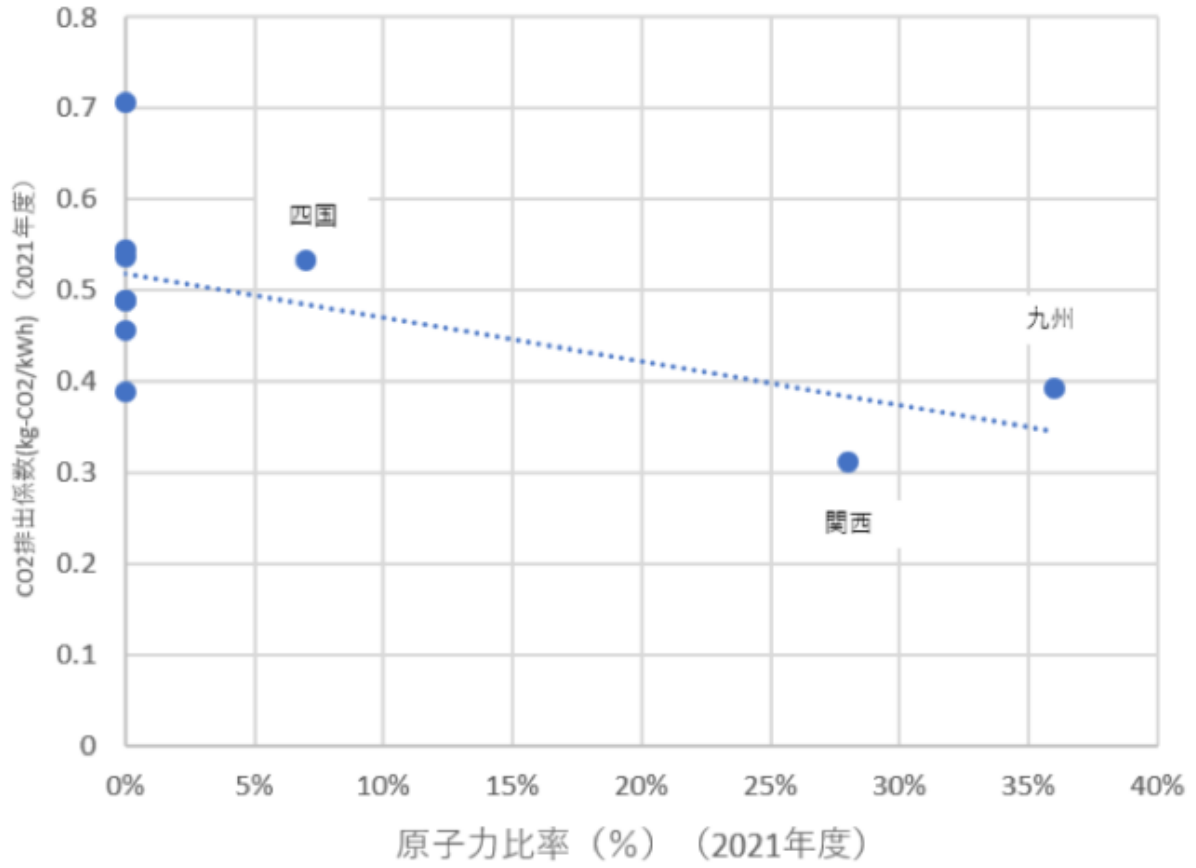
????????????????????????????????CO2??  
CO2????????????????????1??

???	???? ?2021???	???? ?2023?6??	CO2???? ?2021???
???	0%	9,899?	0.537 kg-CO2/kWh
??	0%	9,462?	0.488 kg-CO2/kWh
??	0%	9,917?	0.457 kg-CO2/kWh
??	0%	7,488?	0.388 kg-CO2/kWh
??	0%	7,369?	0.489 kg-CO2/kWh
??	28%	5,677?	0.311 kg-CO2/kWh
??	0%	8,608?	0.545 kg-CO2/kWh
??	7%	8,300?	0.533 kg-CO2/kWh
??	36%	5,526?	0.392 kg-CO2/kWh
??	0%	10,500?	0.707 kg-CO2/kWh

?1????10????????????????CO2????

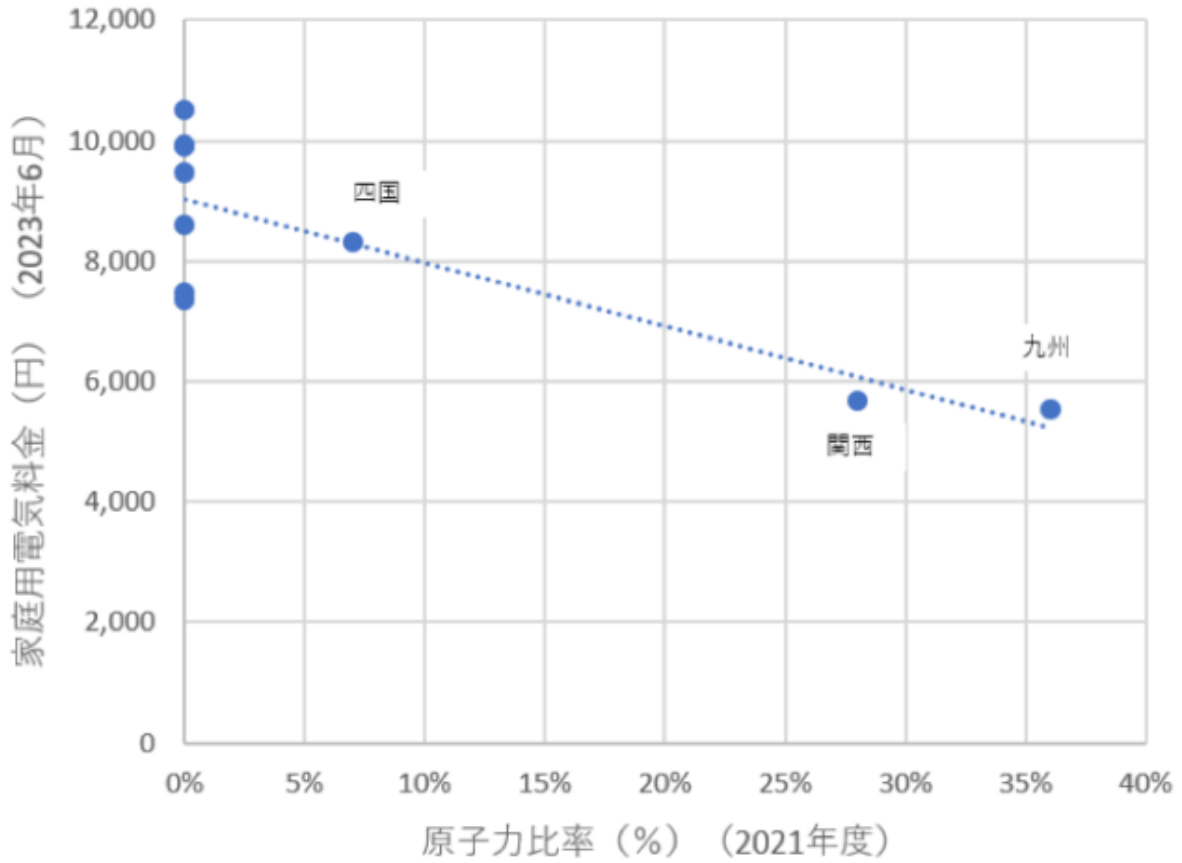
??CO2????????????????

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



?1???10????????CO2???

???????1????????????????????????????????????2????????????????????????????



????10????????

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

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

??

??LNG????????  
????????????????

??2022?10?10????????????????????

??  
??  
??

??0.  
1%?0.2%????????????????????????1?2????????????????????????%?10%????????????????CO2????????????  
????

?

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

?SDGs????????

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