

Global Energy Policy Research | GEPR

GEPR??
???)http://agorajp.com/??
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?? ?? · Thursday, October 27th, 2022



RapidEye/iStock

????????????????????Die Zeit????????????????????100????????????????????Bjorn Stevens??

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??NHK????????????????????
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alarmism

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most alarming stories

far from certain?

IPCC

PIK Stefan Rahmstorf

CO2 2020 IPCC 2.5 4



Parradee Kietsirikul/iStock

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

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

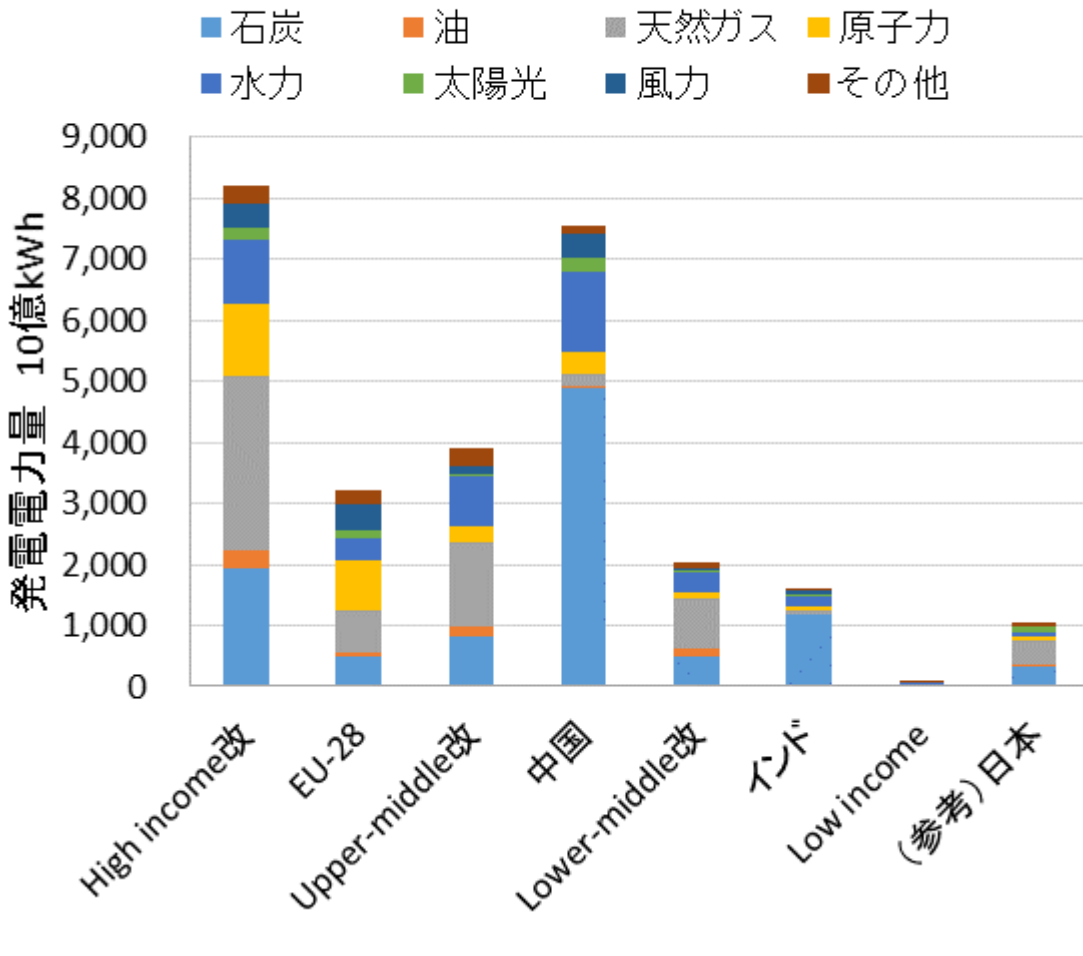
????2050?????????????????? ??

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GHG??-6
?2019??IEA????????????????????????????
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図-6 発電電力量(2019年)

出所:IEAデータベース



26

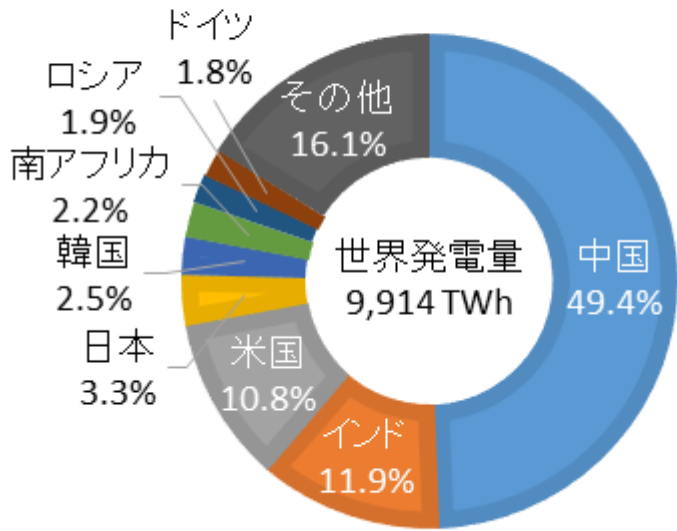
図-6のデータによると、2019年の発電電力量は、高所得国改が最も高く、約8,200億kWhに達しています。これは、天然ガスと水力の貢献が大きいです。中国は約7,500億kWhで、水力が主要な電源です。EU-28は約3,200億kWh、インドは約1,500億kWh、Lower-middle改は約2,000億kWh、(参考)日本は約1,000億kWhです。Low incomeは最も低い値を示しています。

この図は、2019年の世界の発電電力量の地域別構成を示しています。高所得国改は、天然ガスと水力の両方に大きく依存しています。中国は水力が中心ですが、天然ガスも重要な役割を果たしています。EU-28は、天然ガスと水力の両方を活用しています。インドは、水力と天然ガスの両方に依存しています。Lower-middle改は、天然ガスと水力の両方を活用しています。(参考)日本は、天然ガスと水力の両方を活用しています。Low incomeは、天然ガスと水力の両方を活用しています。

GHGの観点から、天然ガスは石炭よりも低炭素ですが、水力は最も低炭素な電源です。中国は、水力の豊富な資源を活用することで、GHG排出量を削減しています。EU-28は、天然ガスの供給源が多岐にわたるため、GHG排出量は比較的低いです。インドは、水力の豊富な資源を活用することで、GHG排出量を削減しています。Lower-middle改は、天然ガスの供給源が多岐にわたるため、GHG排出量は比較的低いです。(参考)日本は、天然ガスの供給源が多岐にわたるため、GHG排出量は比較的低いです。Low incomeは、天然ガスの供給源が多岐にわたるため、GHG排出量は比較的低いです。

図-7 世界の石炭火力(2019年)

出所: IEAデータ



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????????31.5% ?????????????????1970 ???
??GHG ???EU-28 ?????????????15.
4% ??????????????

EU-28 ??????25% ?EU ?????????????????14% ?????????????????????BRICs ?????????????????????????????????
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??GHG ??????EU ?????????????????????????????

表-2 太陽光発電と風力発電の総電力量比 %

グループ	太陽光発電	風力発電	合計
High income改	2.6	4.6	7.2
Upper-middle 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

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?????????????9% ?? High income?????????-6??GHG??

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

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

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??2??% ??

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

GHG????CO2????CCS????????????????????????CCS????????????????????????
??GHG?
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??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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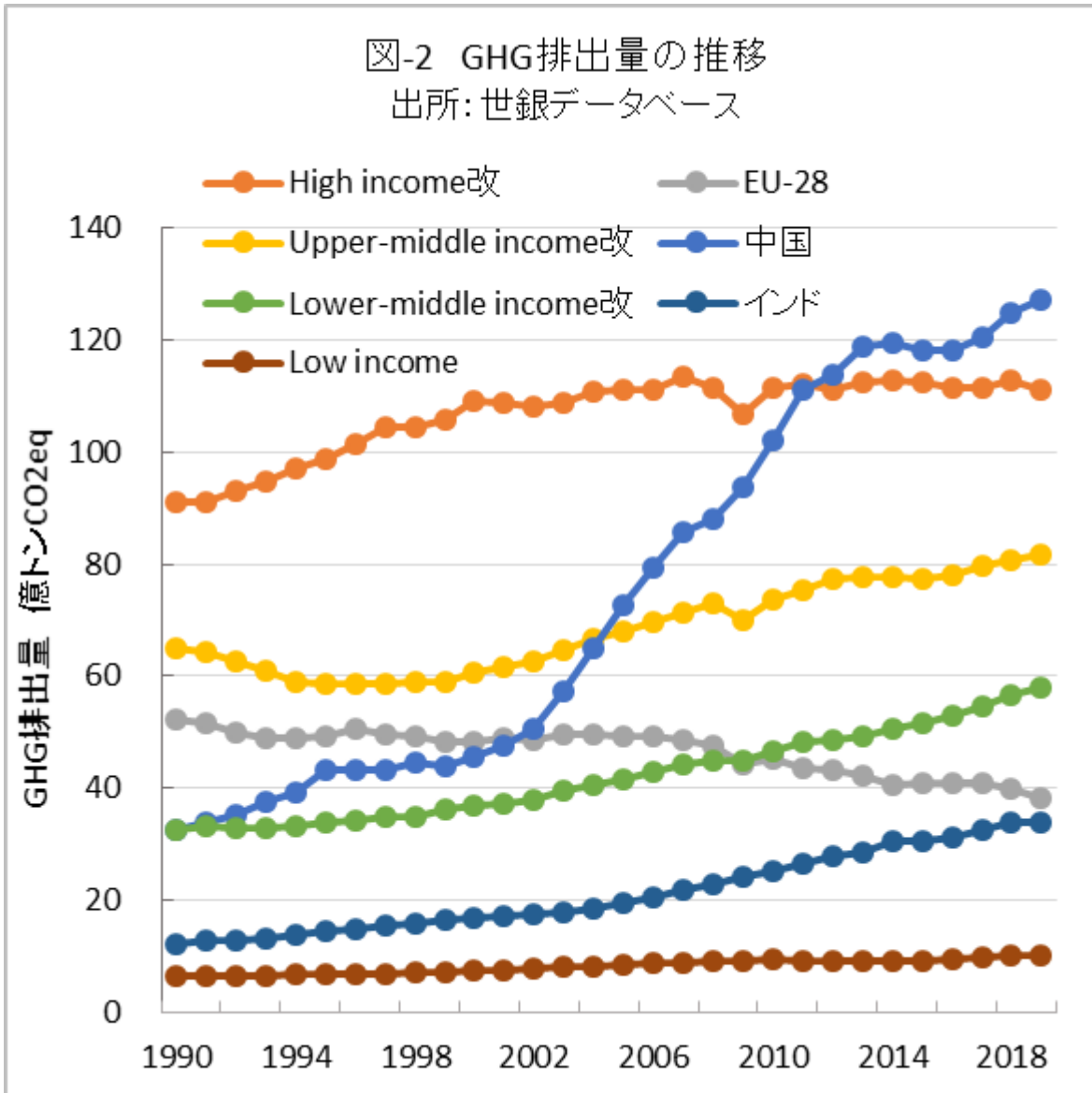
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Posted in ?????????, ??? | [No Comments](#) »

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

GEPR?? · Sunday, October 23rd, 2022

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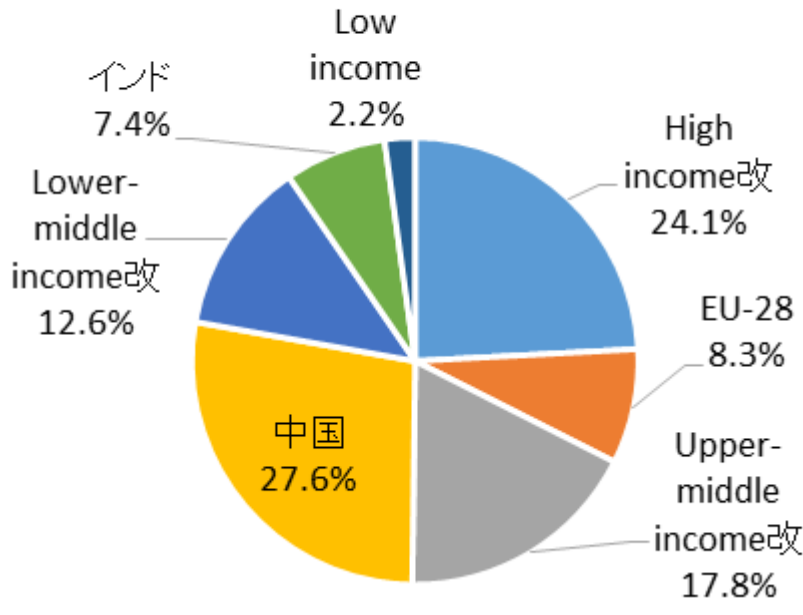


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?-3?2019??GHG????????????????????1/3????????????????2/3????????????????GHG????????????2%??
 ?????????????GHG????????????????????????????

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

High

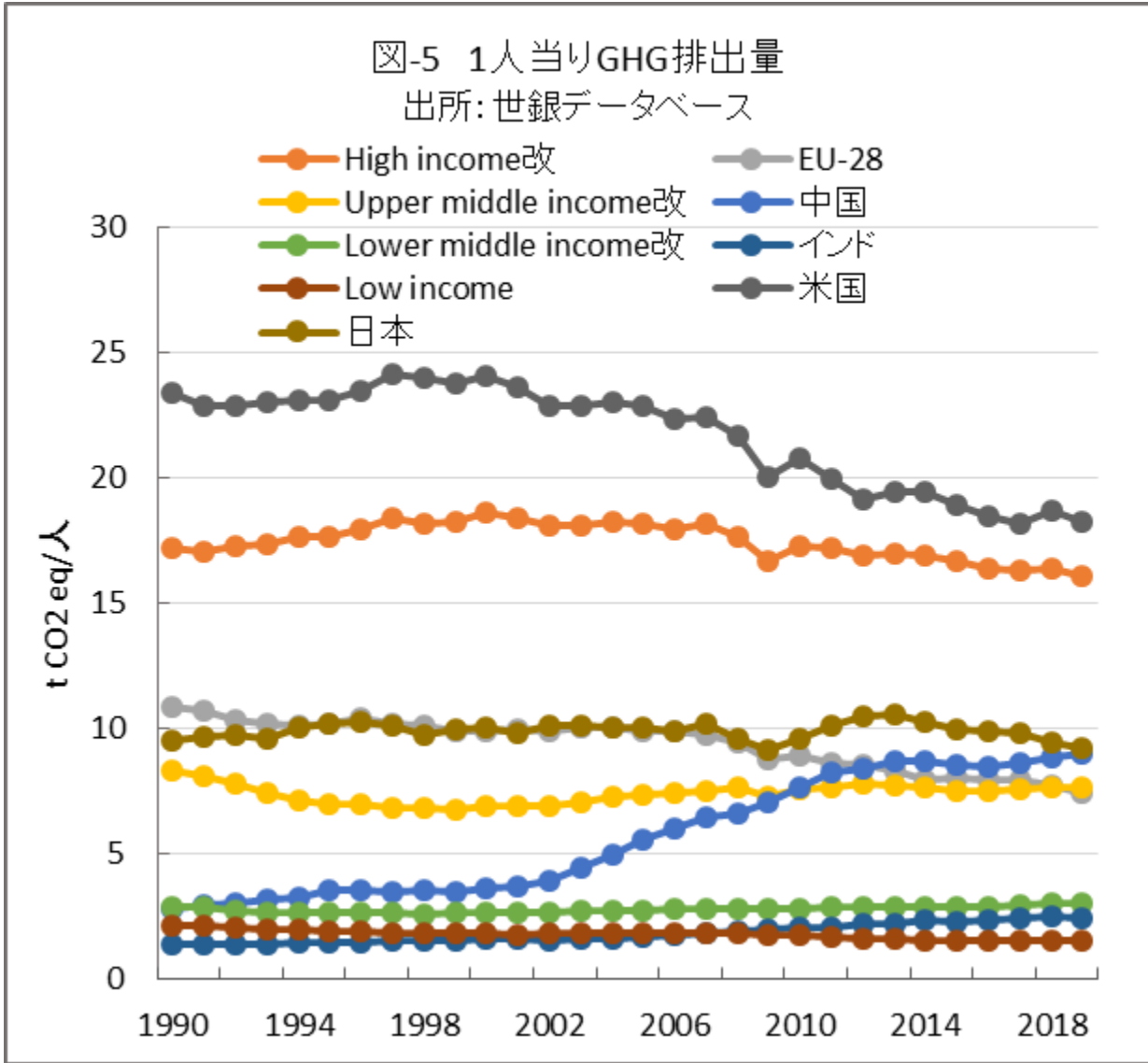
income 2019 GHG 90% 2060 2050

GHG GHG

GHG

2050 GHG

4 GDP -1 GNI GDP GDP GNI GDP GHG 1



25

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

??2????????????????????GHG????????????????????

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

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??GHG????????CO2????2030????????????????2060????????????????????????????????????2030????????????????
????????????????????????30??CO2??CO2????????????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??CO2??????

??????????IEA??2021?11??Figure
1.1??2050????????CO2????????????APS????????????????????GHG????????????????NDCs??
2050????????????????????????????????

WEO-2021 APS?2021?5????????????????????????????????????Updated
APS?2021?10??GHG??CO2????????????
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????STEPS?NDCs??NZE?IEA?202
1?5??????2050????????????????????



LewisTsePuiLung/iStock

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NEW – UN Secretary for Global Comms says they "own the science" on "climate change," and opposing viewpoints have now been pushed down in search results through their partnership with Google.pic.twitter.com/fMaPYsHGUT

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

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?Tackling

Disinformation??COVID-19????????????????????????????????
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You Tube??TikTok?????????Team
Halo????????????????????????

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

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Farm??
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Disinformation????????????????WEF????????????????COVID-19????????????????????????????
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ESG????????3E?S????????????

?? ?? · Thursday, October 20th, 2022



ipopba/iStock

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??COP26????????????ESG????????????????

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EU??

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627?????????????????????????ESG2.0?????????ESG?????????????????????????????????ESG?????????????????????????????????
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99???NZAOA?????????????????????????????????
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10?10?????????????????????ESG?????????????????????????????????COP26????????????????????????



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??World Energy Investment 2022, IEA

????2015????????????????????????????????????25????????

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???IEA????????Net Zero by 2050????????2050????????????????????????????????1.5????????????????????????
????????????????8????????????????2050????????????????2????????2030????????3????????
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????2050??IEA?21????????World Energy Outlook
2021??STEPS????????2030????????????
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ESG?

ESG
ESG

Economy Environment Energy
Security 2011 Security
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ESG E

Social?
Sustainability? ESG S

ESG 2.0?

ESG
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ESG

2050 2030

ESG
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ESG

ESG
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10
ESG S

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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??2022?2????????????????????????????????
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MadamLead/iStock

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COP26??

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

- ?????????????????????COP27??
- ?????????????????????????????????????1??
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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????????????????

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

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

??JPMorgan Chase
????????????CEO????????????????????????????????????

????CEO??CO₂????????

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

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COP??26????COP????????????
??CO₂??????

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26??CO₂????????????????????
CO₂??
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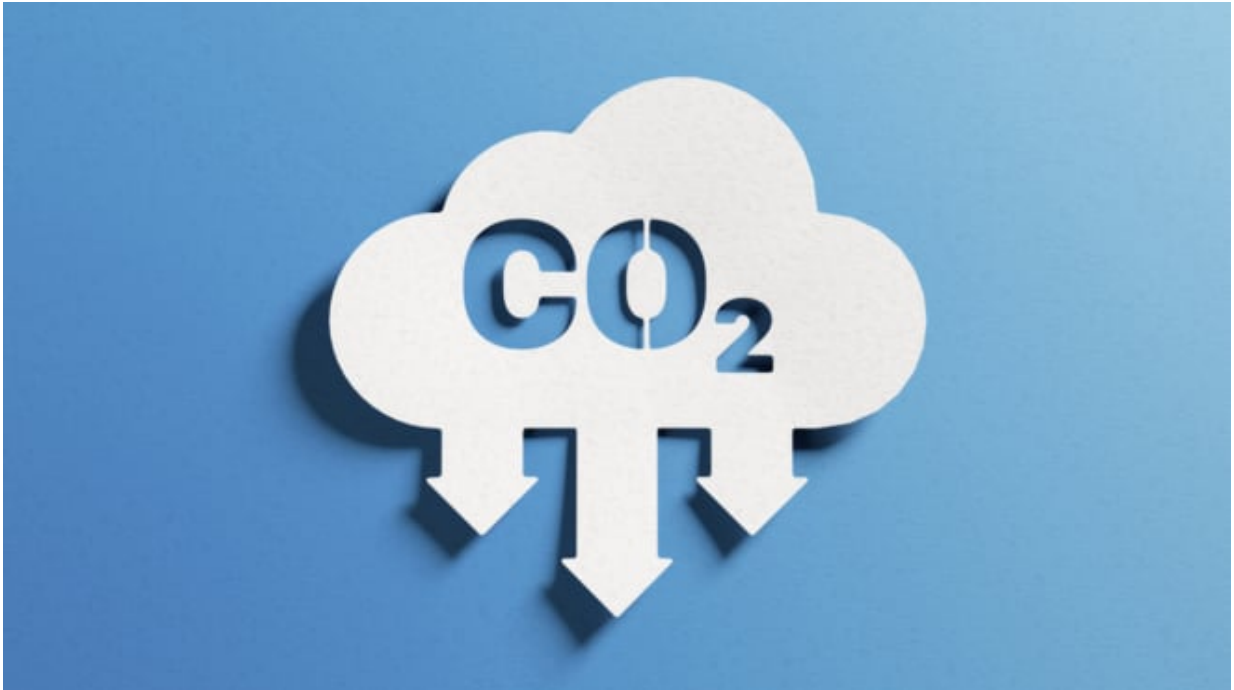
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?? ?? · Tuesday, October 11th, 2022

??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?????????????o.5????
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3. ?????????????2030????1??100??1?????????
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4. ???

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1. ?????????????CO2????????????
????????????CO2????5775????×31=17.9??????



Posted in ???, ????? | No Comments »

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?? ?? · Monday, October 10th, 2022

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3????????????????1000?????????....??????12????????????????????



??3????????????1000?
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allanswart/iStock

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

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?? ?? · Tuesday, October 4th, 2022



Daniele Mezzadri/iStock

??25????????28????????????????

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

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?? ?? · Monday, October 3rd, 2022



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?????7?4????????????????????????????????????EU?????????????????????????????

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

???????SRZ1200?????

?? ?? · Sunday, October 2nd, 2022

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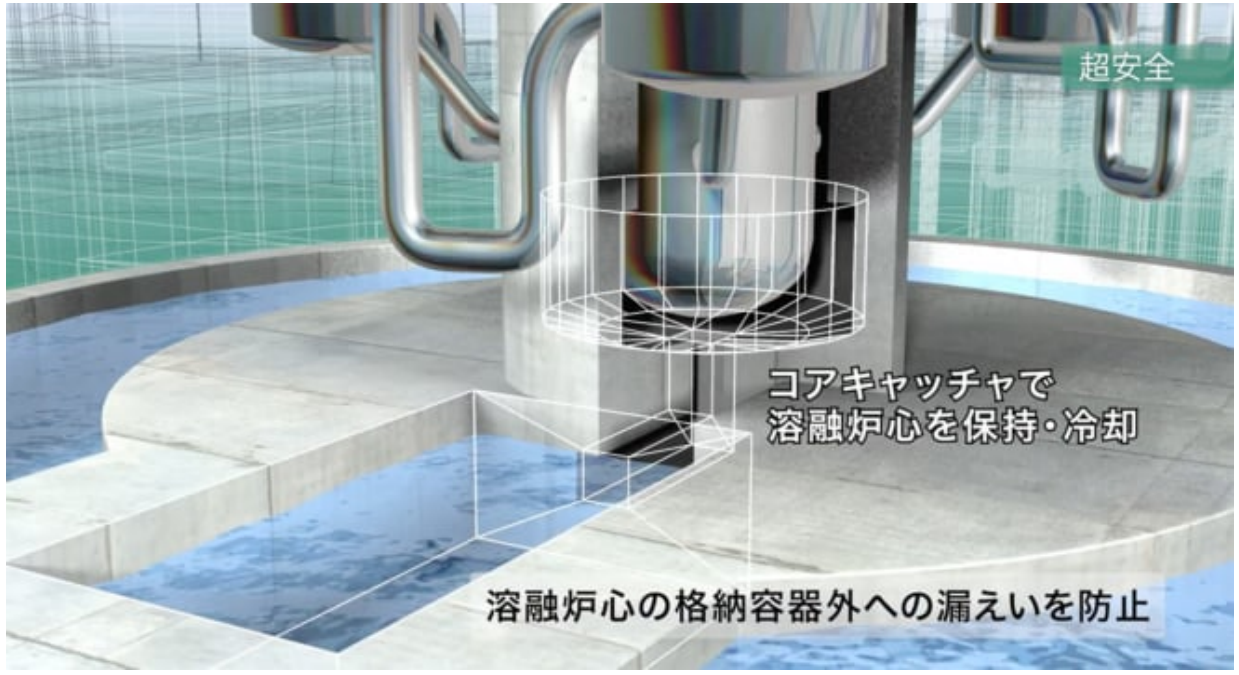
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??????929????????????????????????????????4????????????????????????????????????2030????????????
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SRZ1200?????

S????Super-safe????????????Sustainability?R????(Resilience)???Z????????Zero-Carbon????????

1200????????????????????120kW??



DiscoverMHI (Mitsubishi Heavy Industries, Ltd.)??

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

NHK????????????????????????????

?? ?? · Sunday, October 2nd, 2022



???NHK??
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?2020??CO₂????????????

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2021??8??2030????????????????????????????2030????????1kW
h????8.2??11.8??

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??JP????????????????CEO????????????????????????????????

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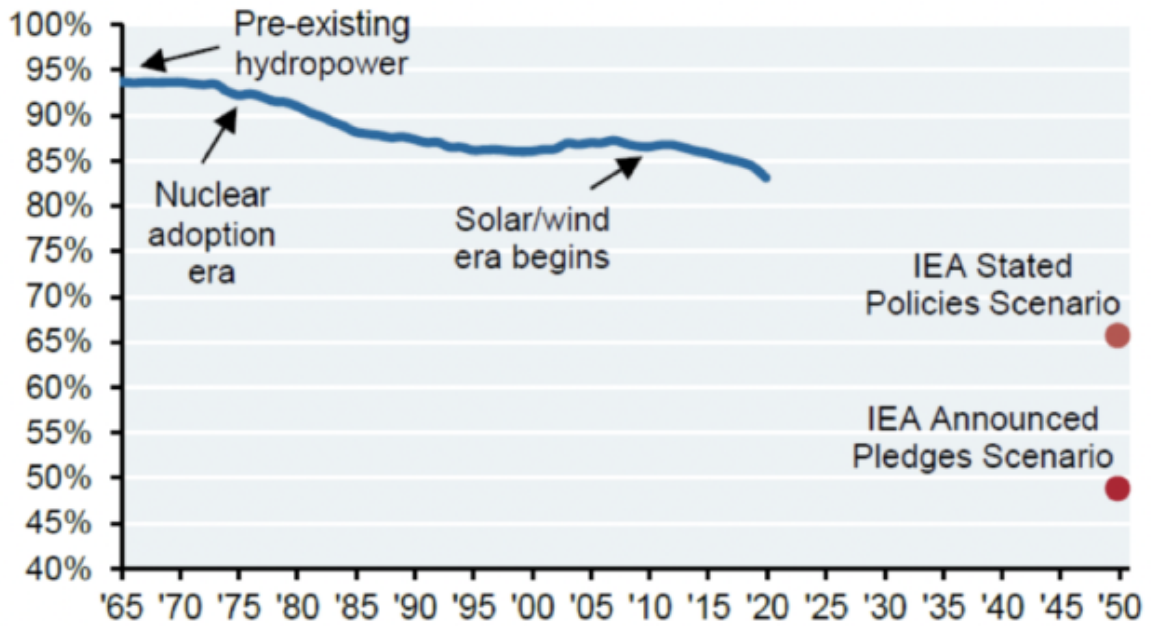
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The world uses fossil fuels for ~83% of its energy

% of global primary energy consumption from coal, oil and nat gas



Source: BP Statistical Review of World Energy, IEA, JPMAM. 2021.

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

NHK??

?? ? · Saturday, October 1st, 2022

9?25??NHK????????????????????????1.5????????????????????????

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?1??1.5??2030?46????????????????2050????????????????????1.5??
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?100????????????????????????

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

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

?? ?? · Thursday, September 29th, 2022

2050????????????2030?CO2??ESG????????
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small smiles/iStock

????2030????????????4??1????????????56?????1?????100????????????48??
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Posted in ???, ????? | No Comments »

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?? ?? · Saturday, September 24th, 2022



halbergman/iStock

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8?16??

??3.5????????????Build Back
 Better(?????)????????????????????????????????????10????7370????????4370????????????????????????3690
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??2030????????2005????????????????40????????????
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Posted in ????????????, ??, ?? | No Comments »

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?? ?? · Sunday, September 18th, 2022

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??2005??
???Wikipedia

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2006??60????????????????????

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CCS

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(EV) EV

CO2

2050

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Posted in ???, ????? | No Comments »

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?? ?? · Thursday, September 15th, 2022



igorartmd/iStock

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Posted in ???, ?? | No Comments »

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?? ?? · Wednesday, September 14th, 2022

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CEO??EU????????????????????50????????????????????????
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herraez/iStock

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

??40%????
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Posted in ???, ?? | No Comments »

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

?? ?? · Saturday, September 10th, 2022

ESG??
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LumerB/iStock

8?16????21????????????SEC????ESG????????????SEC????????????
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8?23????????????????????ESG????????????

8?24????????????????????????????????10?350????????????6????????13??
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????????????10????????BNP????????????UBS ???????

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350????????ESG????????????????????UBS????????????

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audioundwerbung/iStock

??6????????????????????LNG????????????????
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 8?23??EU?????
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??EU????????
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??CO2??
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????CO2??2030????1000?kW????????????
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??LNG????10????????????????????????????
??8?26????

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????9?5????????????????????????????????3????????2????4????????????????????????????
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??EU????????????????????
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?? ? · Saturday, September 3rd, 2022



ayhan turan/iStock

????5??3???????

????7????????????????14???



??????372????2420????????????????????176????1650????????????????????

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????????????????????????7??CO2????????????????
????????1958????2022????4????CO2????????????????????????

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CO2 CO2 150 ppm

1 30 0.2 0.3

2 IPCC

3

3 80 60

HP 10 1950 60 1993 30

4 CO2

1000

() CO2

5 CO2

NHK

??6????????????????????
????????CO2????????1850????????????????????

??CO2????????????????????
??100????????????????????2?3
mm????????????????????

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

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??7????????CO2????
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????????LCOE????????

?? ?? · Thursday, September 1st, 2022



vchal/iStock

IRENA J.P.Morgan

IRENA

2022 13 IRENA 2021

Renewable Power Generation Costs in 2021 – Executive Summary (irena.org)

IRENA

- 2021 163GW LCOE G20
-
-

Figure ES.3 The weighted average LCOE of utility scale solar PV compared to fuel and CO₂ cost only for fossil gas in Europe, 2010-2022



?????2021?8?????????????2030????????????????????

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2. J.P.Morgan?????

?????5?J.P.Morgan????????????????????

12th Annual Energy Paper | J.P. Morgan Private Bank (jpmorgan.com)

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- ???
- ???

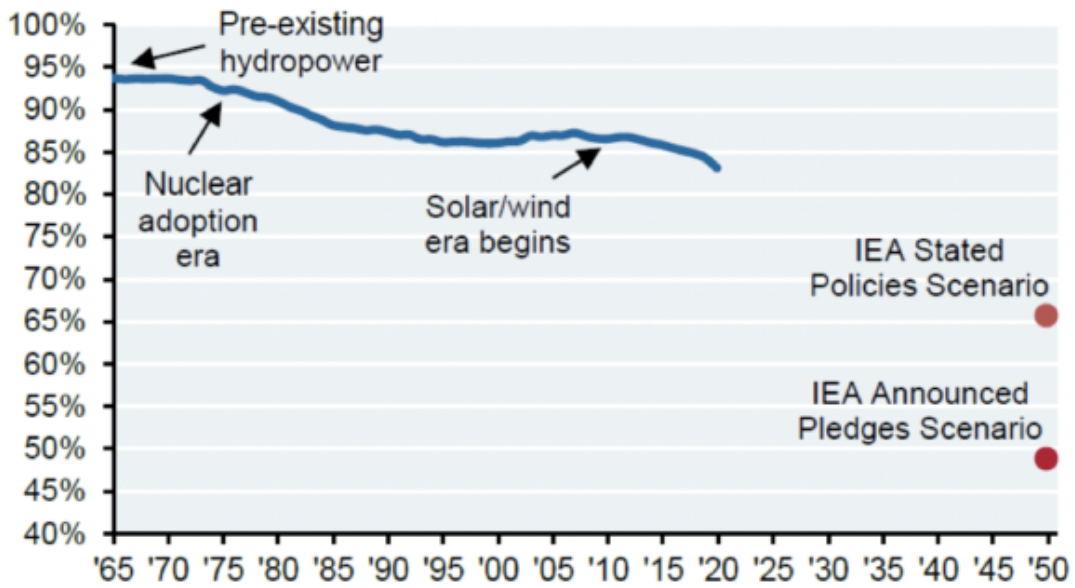
?2050??????

IEA?????????????????????????????2050?????????????66?????

???10????????????????????????????
?????????????????70???

The world uses fossil fuels for ~83% of its energy

% of global primary energy consumption from coal, oil and nat gas



Source: BP Statistical Review of World Energy, IEA, JPMAM. 2021.

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????????????LCOE??LCOE????????????????
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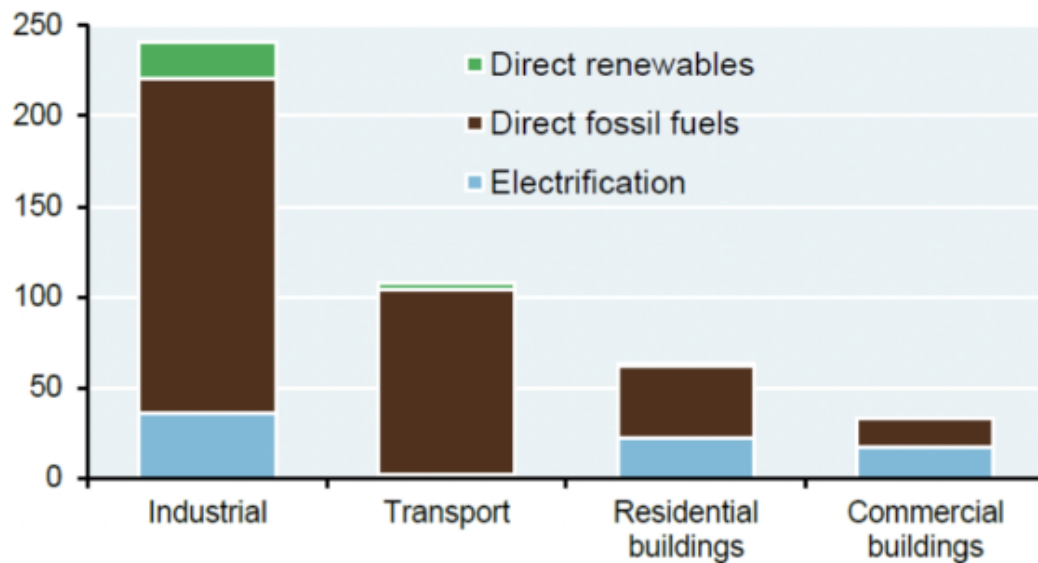
LCOE??i)???????????????????????????? ii)????????????????
 iii)??

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Low levels of electrification in global industry and transport

Quadrillion BTUs of final energy consumed by sector



Source: Energy Information Administration, JPMAM. 2021.



imagedepotpro/iStock



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 ??????????200?????????11??
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??????? 8? Reuters?

?????????????????????COP?????????1997??COP3????????????????????????????COP3?1997??12?????????
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COP??
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COP?????26????????????????????????????COP?????????????????2015??COP21????????????

???1.5????????????????????????????NDC?????????????????????5?????????
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???CO₂??
 ?????CO₂????????????????????????????

COP????????????????????????26??

???CO₂????????????????CO₂??
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??2030????5800????????????

2?????COP27??
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GX????????????

?? ?? · Sunday, August 28th, 2022



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8?24????2?GX(????????????)????????

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- ?????????????
- ?????????????????????????????
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?6??26????

©Westinghouse Electric Corporation.

Current Plants safety by design passive safety
AP1000 ESBWR
ATMEA EPR APWR ABWR
AP1000

ABWR APWR ATMEA

ABWR APWR ATMEA

ABWR APWR
ABWR 6 7 3 11

ABWR ABWR

4 3 4 PWR APWR safety by design
APWR ATMEA




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Friday, August 26th, 2022

GX

ATMEA

7 10

	【新規建設に向けた方針等】	【既設炉の運転延長に向けた方針等】
 アメリカ	<ul style="list-style-type: none"> エネルギー省「革新的原子炉実証プログラム」等 2 炉の建設支援、8 炉型の研究開発支援 (2020) 老朽石炭火力をSMR等で置換可能と分析 (2022) 	<ul style="list-style-type: none"> 運転期限なし (40年+20年単位延長) 現時点で80年までの運転延長認可は6基 さらに9基について審査中
 イギリス	<ul style="list-style-type: none"> ジョンソン首相「エネルギー安保戦略」(2022/4) 2050年までに発電割合を25%に、24GWの導入 1基/1年に建設ペース加速へ、支援を抜本拡充 	<ul style="list-style-type: none"> 運転期限なし (10年ごとに安全審査) 2035年に40年となるサイズウェル原発で 20年延長を検討中
 フランス	<ul style="list-style-type: none"> マクロン大統領「新規原子炉計画」(2022/2) 2050年へ大型革新軽水炉14基を建設・検討 建設・運営主体の電力会社EDFを完全国有化 	<ul style="list-style-type: none"> 運転期限なし (10年ごとに安全審査) 56基中20基が40年超運転へ 運転延長も対象にグリーンファイナンス検討中
 オランダ	<ul style="list-style-type: none"> 新連立政権「政策協定」公表 (2021/12) 新たに2基を建設する方針を表明 	<ul style="list-style-type: none"> 運転期限は法律で規定 (期間のルールなし) 60年運転認可済の原発の再延長方針を表明
 韓国	<ul style="list-style-type: none"> 尹大統領「エネルギー政策の方向性」(2022/7) 2030年原発割合30%以上、国内2基建設等 	<ul style="list-style-type: none"> 運転期限なし (10年ごとに安全審査) 既設炉の継続運転手続きの迅速化を表明

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

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

??3??????ABWR???

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????ABWR????????????6?7????????2????????5????????????BWR????????????????
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??ECCS????????????????
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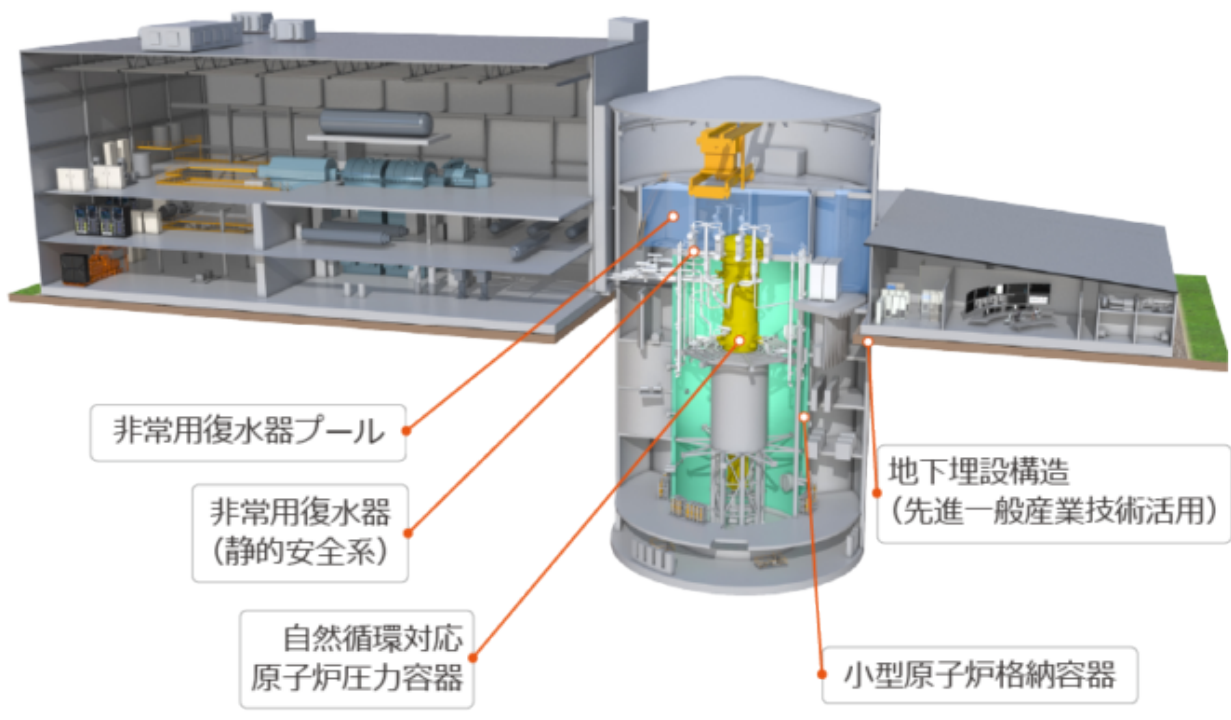
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??APWR????????????????????3????
??ABWR????????????

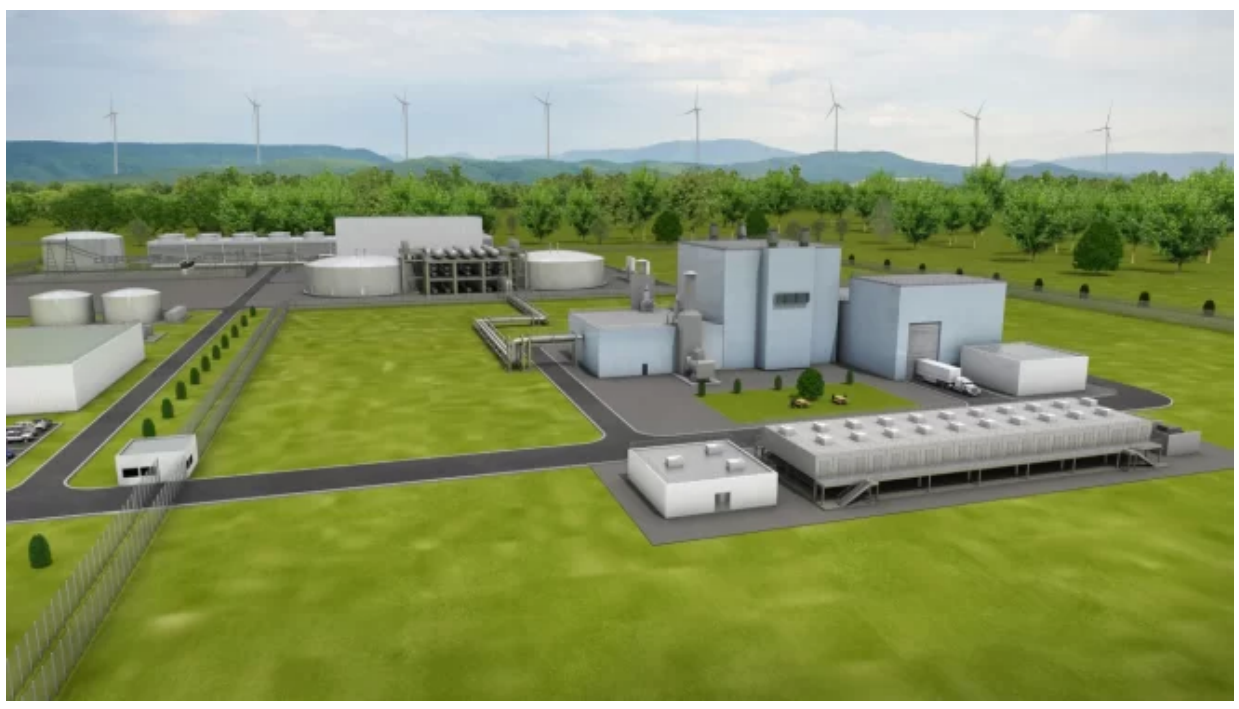
SMR?????7?kW??

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BWRX-300??????????

??SFR????????????
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??SMR????????????

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?2035????????EV????????????????

?? ?? · Friday, August 26th, 2022



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2025????1000????????????????????????????EV????????????????????????????

????2035????????EV????????????????????????

??EV????????????????????????????
60??CO₂????????????????

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?10??20????????????EV????????????????????????????????????

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????????IEA??2040????????6????????????????????????
??3????????4?3????????

??35????????50?
70????????90????????????????

??1????????????
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6??2022????3????
????????EU????????????????

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