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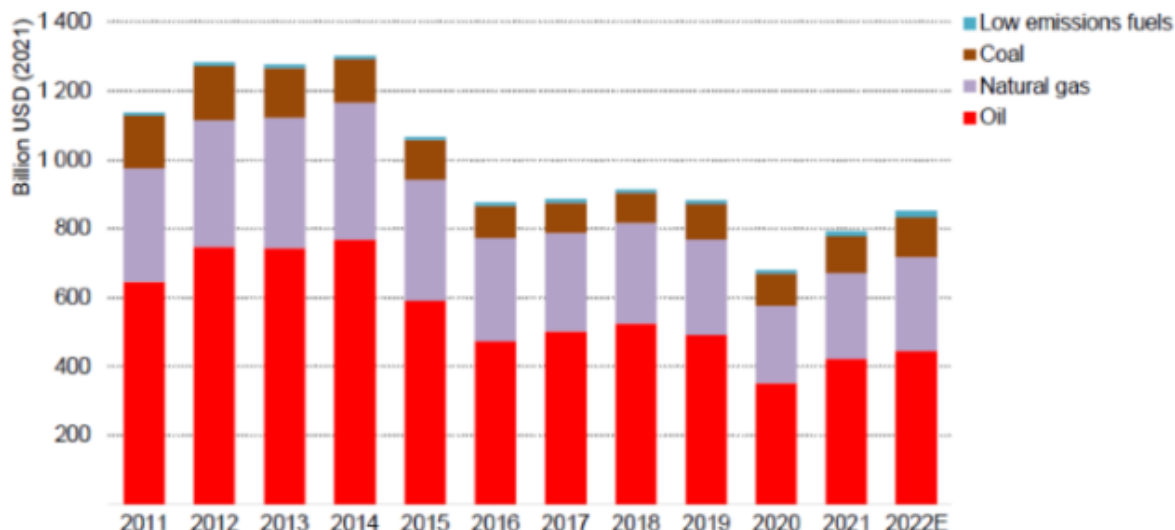
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Global investment in fuel supply, 2011-2022E



World Energy Investment 2022, IEA

2015

2020 2021

Net Zero

IEA Net Zero by 2050

2050 IEA 2021 World Energy Outlook 2021 STEPS 2030

2030

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3ES?

Economy Environment Energy Security

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

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

?? ?? · Thursday, October 20th, 2022



- 1?2050????????????2030????????????????????
- 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??COP27??????????

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Asiya Hotaman/iStock

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Reuters???Africa Oil Week 2022  
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2021?4??COP26?????UNFCCC Race to Zero??GFANZ??????????

GFANZ????????45????????500????????????????????????GFANZ????????????????????Race to Zero????????????????????

????COP27????????GFANZ????????????????????????????????

??9??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??CO<sub>2</sub>????????????

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

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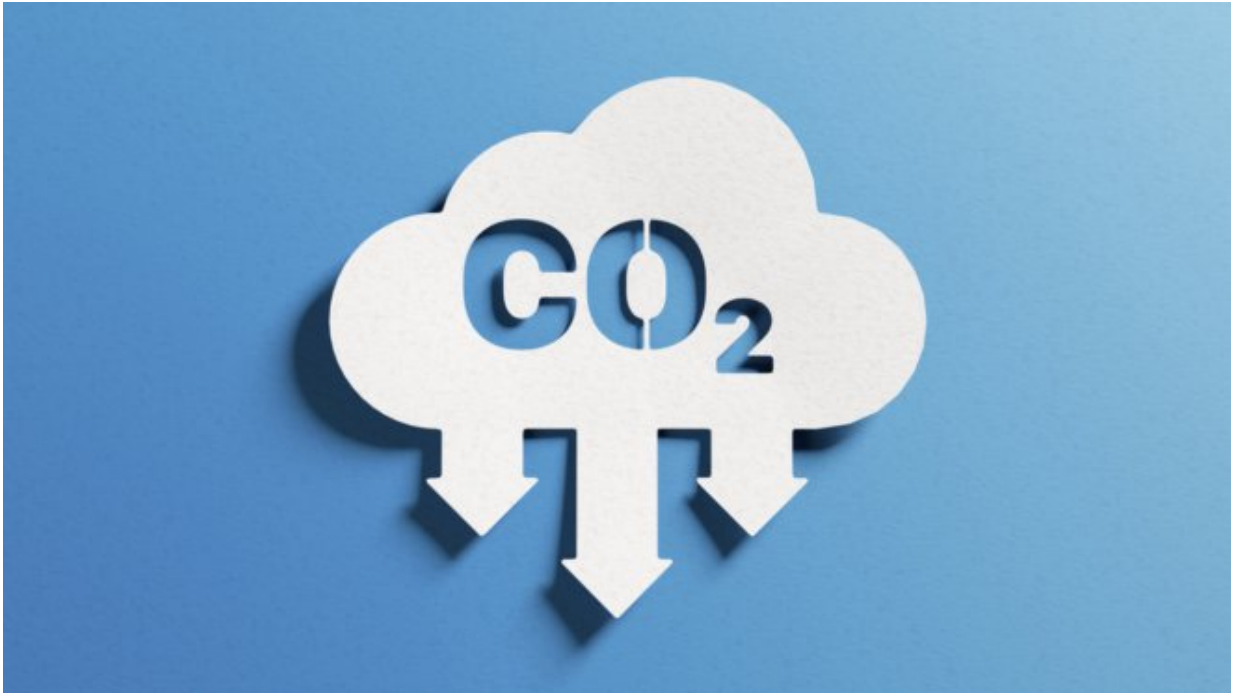
COP??26????COP??CO<sub>2</sub>????

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







NicoElNino/iStock

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2. ??????4.48 $\times 0.5 \div 10000 = 0.00022$ ????
3. 100????????????????100 $\times 0.00022 \times 0.06 = 0.0013$ ??????

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1. 4.5????
2. 0.00022??



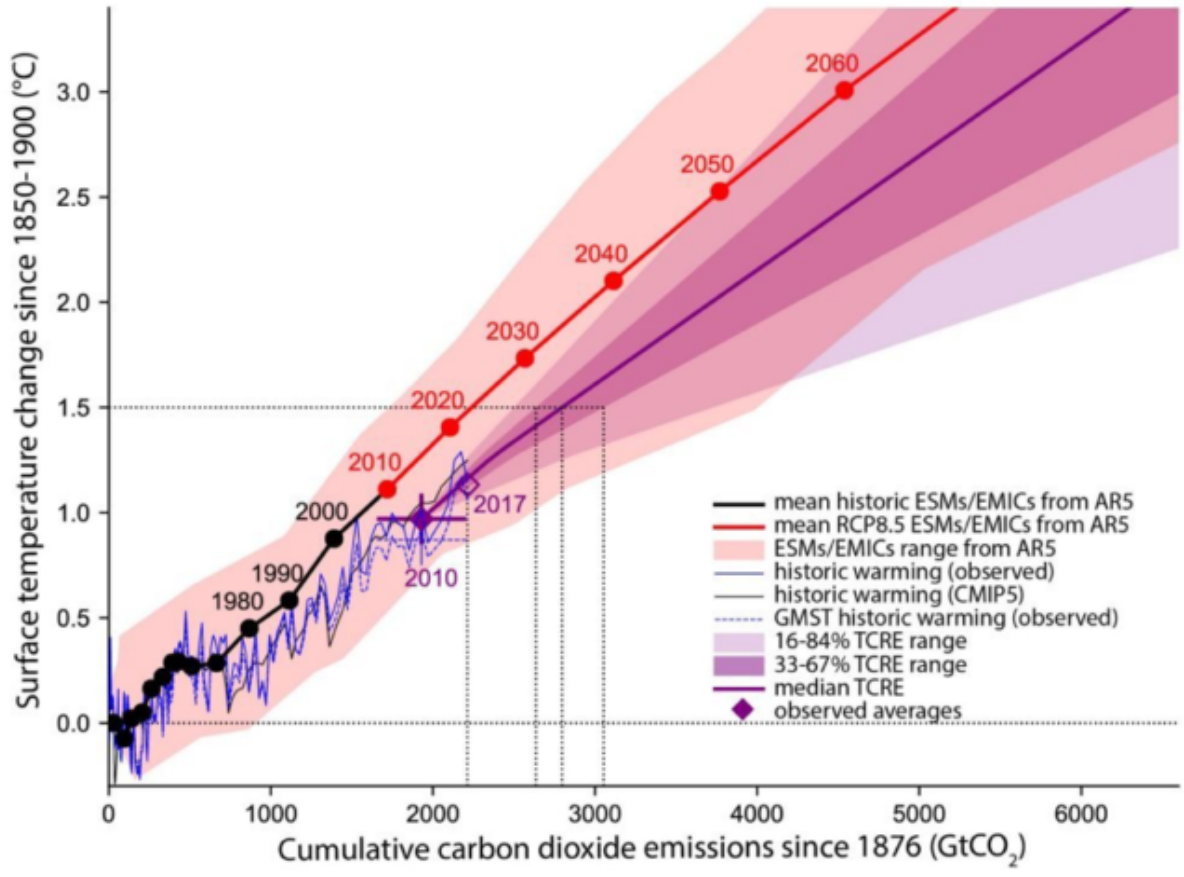


FIGURE 2.3?Temperature changes from 1850–1900 versus cumulative CO2 emissions since 1st January 1876.

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Posted in ???, ????? | No Comments »

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?? ?? · Monday, October 10th, 2022

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?? ?? ? - Sunday, October 9th, 2022

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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

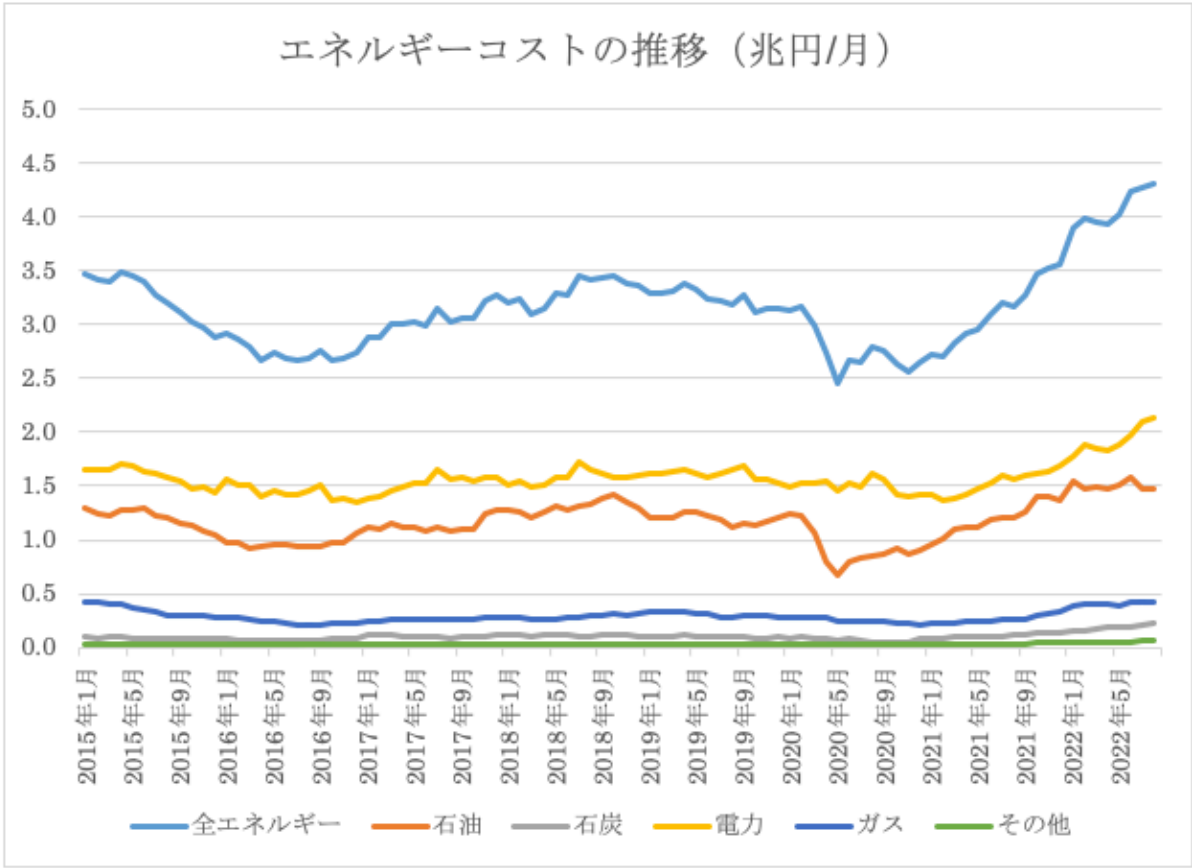
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Posted in ??????????, ??? | No Comments »

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?? ?? · Monday, October 3rd, 2022



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

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

?? ?? · Sunday, October 2nd, 2022

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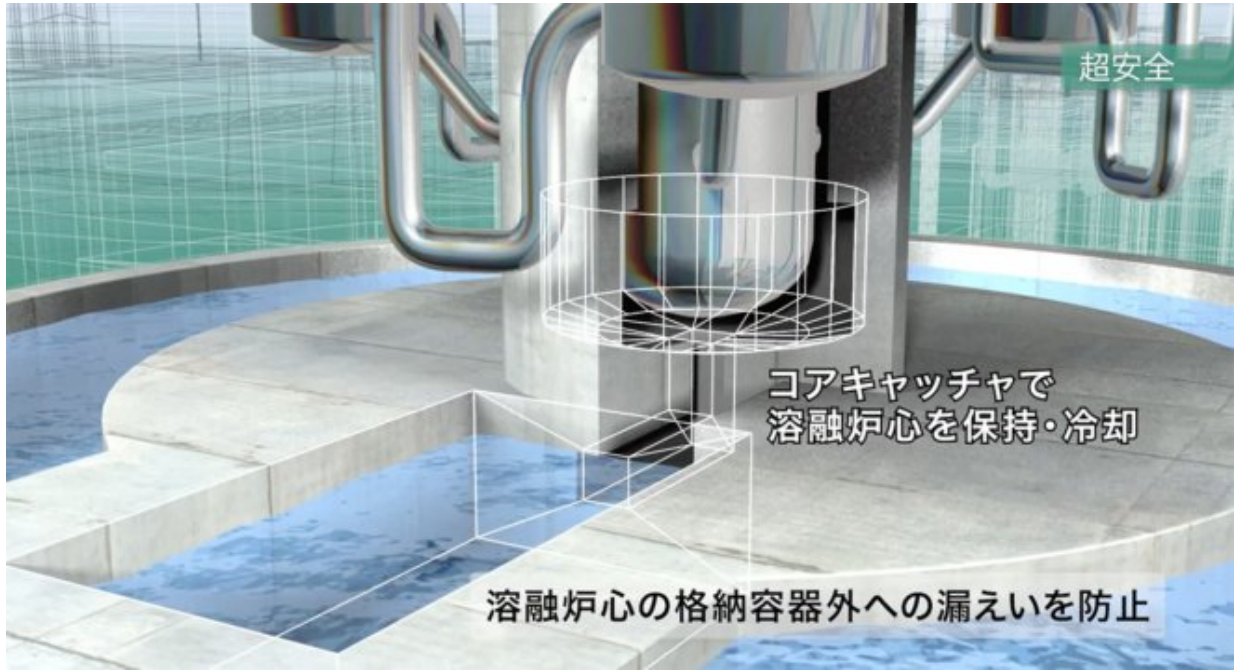
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**SRZ1200?????**

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



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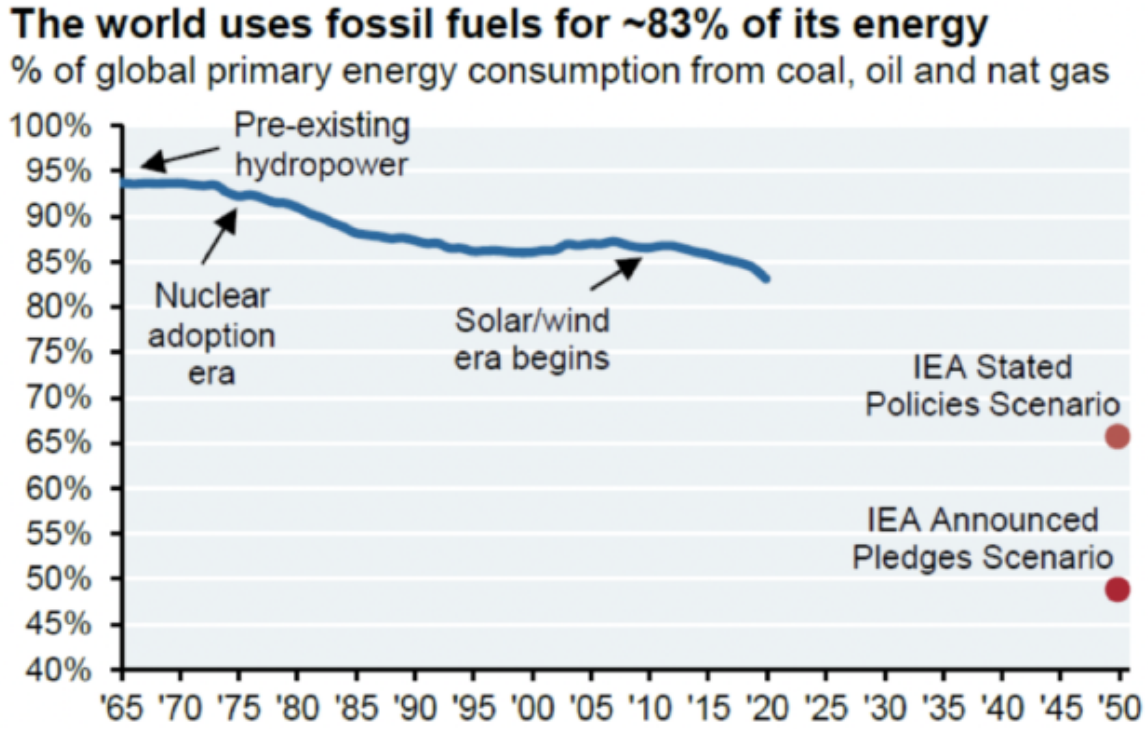
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BP?IEA??  
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Source: BP Statistical Review of World Energy, IEA, JPMAM. 2021.

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

### NHK??

?? ? · Saturday, October 1st, 2022

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



Twitter??

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

### ????????ESG????????????

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

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xijian/iStock

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small smiles/iStock

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



halbergman/iStock

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

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?? ?? · Sunday, September 18th, 2022

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Posted in ???, ????? | No Comments »

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?? ? · Friday, September 16th, 2022



ayhan turan/iStock

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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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herraez/iStock

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Posted in ???, ?? | No Comments »

## ??21????????????????ESG????????????

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

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LumerB/iStock

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Posted in ???, ?? | No Comments »

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?? ??? ?? · Friday, September 9th, 2022

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audioundwerbung/iStock

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

## ????????????14????????

?? ? · Saturday, September 3rd, 2022



ayhan turan/iStock

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CO2 CO2 150 ppm

1 30 0.2 0.3

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HP 10 1950 60 1993 30

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Posted in ??, ??? | No Comments »

# LCOE

?? - Thursday, September 1st, 2022



vchal/iStock

IRENA J.P.Morgan

**IRENA**

2022 13 IRENA 2021

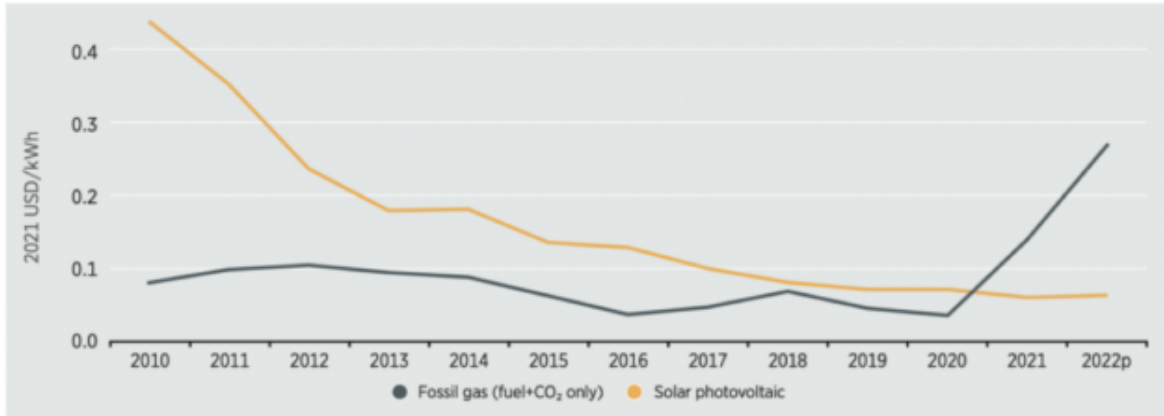
**Renewable Power Generation Costs in 2021 – Executive Summary (irena.org)**

IRENA

- 2021 163GW LCOE G20
- 
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**Figure ES.3** The weighted average LCOE of utility scale solar PV compared to fuel and CO<sub>2</sub> 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](http://jpmorgan.com))**

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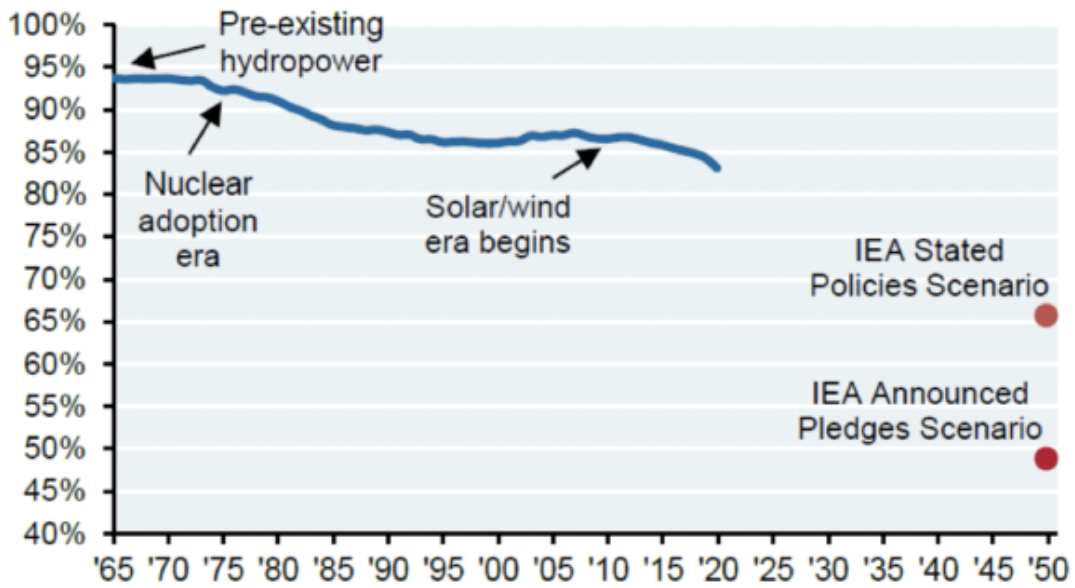
**?2050??????**

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

??10????????????????????????????  
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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.

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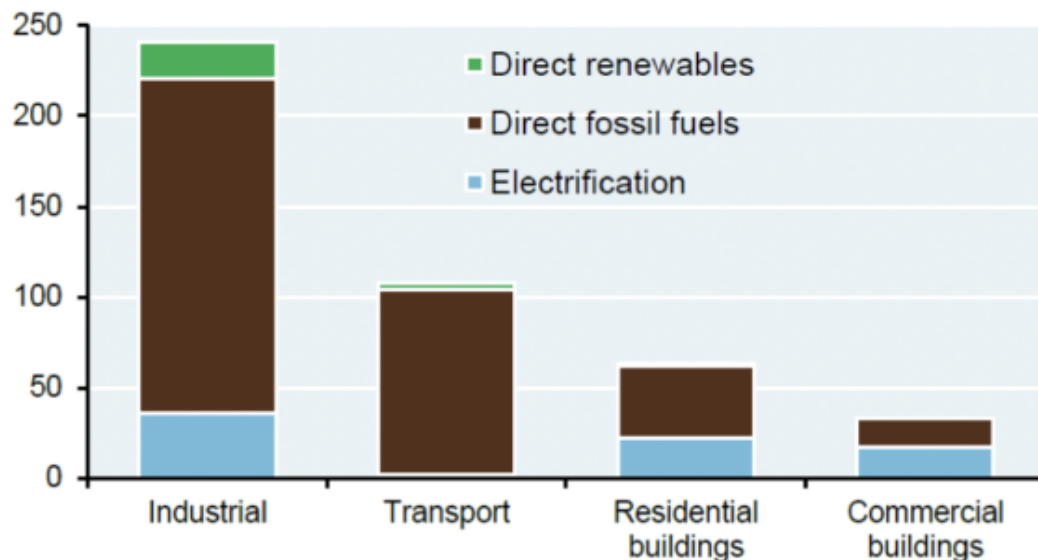
LCOE??i)???????????????????????????????? ii)????????????????????  
 iii)??

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### Low levels of electrification in global industry and transport

Quadrillion BTUs of final energy consumed by sector

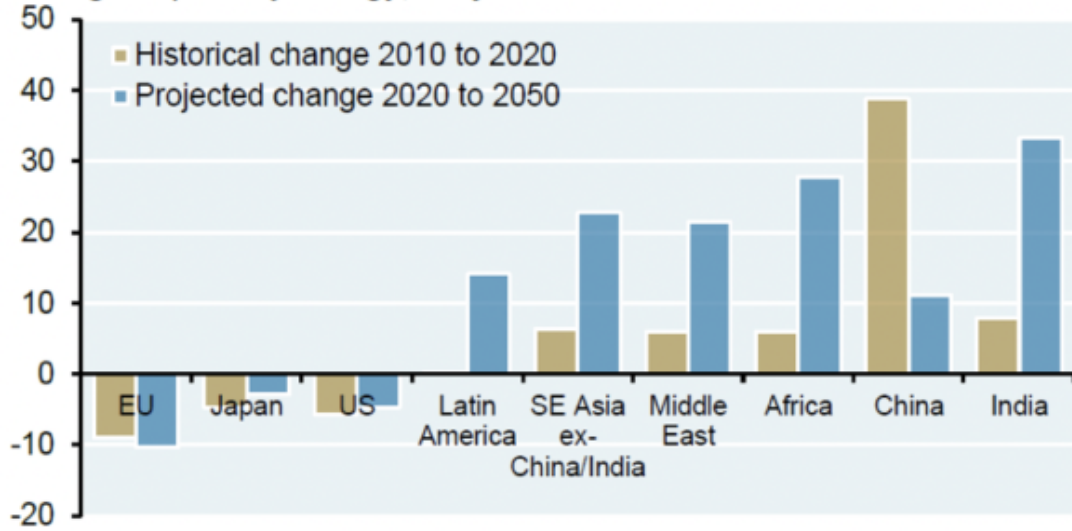


Source: Energy Information Administration, JPMAM. 2021.

????????????????  
??25??  
?????????

### China is the only EM country projected to slow primary energy consumption growth over the next three decades

Change in primary energy, exajoules



Source: International Energy Agency Stated Policies Scenario. 2021.

????????????????CO<sub>2</sub>??  
???

????????????????IRENA????????LCOE????????LCOE????????????????????????????????????

### 3. LCOE??FCOE?

????LCOE??  
????????????????????????????????

LCOE??  
????????????25??10????????????????????2050????????????????????????????????

??  
???LCA????????????????FCOE?Full cost of electricity????????????????

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

## COP27????????????????????????????

?? ?? · Monday, August 29th, 2022



imagedepotpro/iStock



??  
????????????200????????11??CO<sub>2</sub>????????????????  
??

???????? 8? Reuters?

????????????????????COP????????1997??COP3????????????????????????????COP3?1997??12????????????  
????????????????????????????????

COP??  
?? ???

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

COP????26????????????????????????????COP????????????????2015??COP21????????????

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

????????????????????????????????CO<sub>2</sub>??  
????CO<sub>2</sub>????????????????????????

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

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



???2030?????5800????????????????

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

Posted in ???, ????? | No Comments »

### GX????????????????

?? ?? · Sunday, August 28th, 2022



marrio31/iStock

?????????

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

????????????GX????????????????????????????????????4????

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

?6??26????





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

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

??  
??  
???passive safety??????

??  
In-Vessel Retention(?????)????????Ex-Vessel Retention(?????)?????

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

2????????????????????100??1/????????????3????????????2????????????????1??1/??????  
???

**Safety by design???**

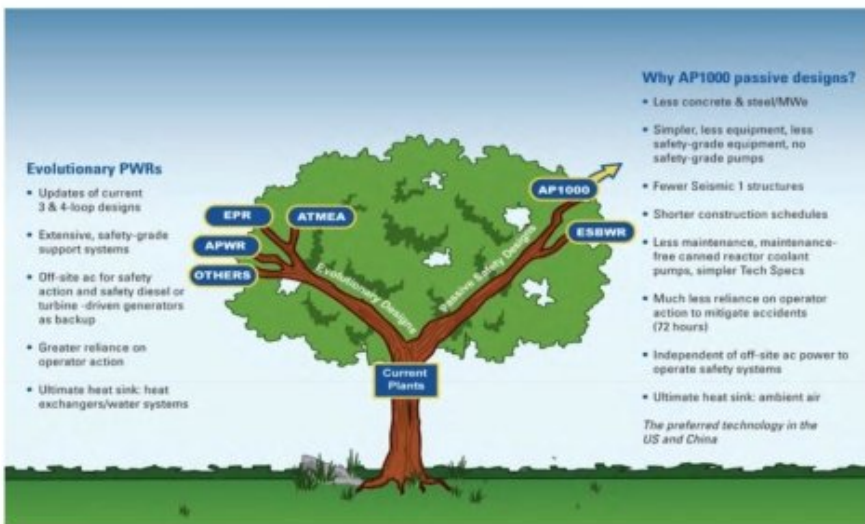
?Safety by design????????1980????????????????1979??????TMI????????by design  
??Safety by design  
????????????????????????????????????

TMI?????????????????????????????safety by design  
????????????????????????????1980????????????????????????????????????  
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**AP1000: Generation III+ & Evolution**



©Westinghouse Electric Corporation.

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

????????

ABWR APWR ATMEA

ABWR APWR  
ABWR 6 7 3 11

ABWR ABWR

4 3 4 PWR APWR  
APWR safety by design  
ATMEA

Posted in , , | No Comments »




????????

?? ?? · Friday, August 26th, 2022

GX

????????

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"> <li>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)</li> </ul>	<ul style="list-style-type: none"> <li>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</li> </ul>
 イギリス	<ul style="list-style-type: none"> <li>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</li> </ul>	<ul style="list-style-type: none"> <li>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</li> </ul>
 フランス	<ul style="list-style-type: none"> <li>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</li> </ul>	<ul style="list-style-type: none"> <li>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</li> </ul>
 オランダ	<ul style="list-style-type: none"> <li>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</li> </ul>	<ul style="list-style-type: none"> <li>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</li> </ul>
 韓国	<ul style="list-style-type: none"> <li>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</li> </ul>	<ul style="list-style-type: none"> <li>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</li> </ul>

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

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

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

?????????(SMR)

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

SMR?????7?kW??

????????????????2029????????????????????BWRX-300?2030????????????





????????????????????2030????????

**??SMR????????????**

????????????????????3????????????SMR????????SMR????????????????????????????????

????????????????????SMR??1?????  
??????SMR????????????

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????????????????????????300??1000????????????  
????????????????????

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

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

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

**?2035????????EV????????????????**

?? ?? · Friday, August 26th, 2022



Naeblys/iStock



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

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

??EV????????????????????????????????  
60????CO<sub>2</sub>????????????????

????????????????????????????????????EV????????????????CO<sub>2</sub>????????????6????12.5?km????????????????????????  
?10??20????????????????EV??

??

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

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

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

??

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

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

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

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

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

# 1.5????????????????????

?? ? · Thursday, August 25th, 2022

??Wedge  
Online??

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



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?????????????NGO?1.5?????????????????????????????????????1.5?2050????????????????2030??45?????  
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?????????????????????????????1.5????????????????????????????????2030????????????????????????  
??2030????????????????2030??45?????????????????????????

???1.5????????????????????????????????  
everybody's business is nobody's business ????????????

?????????????1.5?????????????????NDC????????????????????2060??2070????????????????????  
?????????????????????????????????????1.5??

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

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

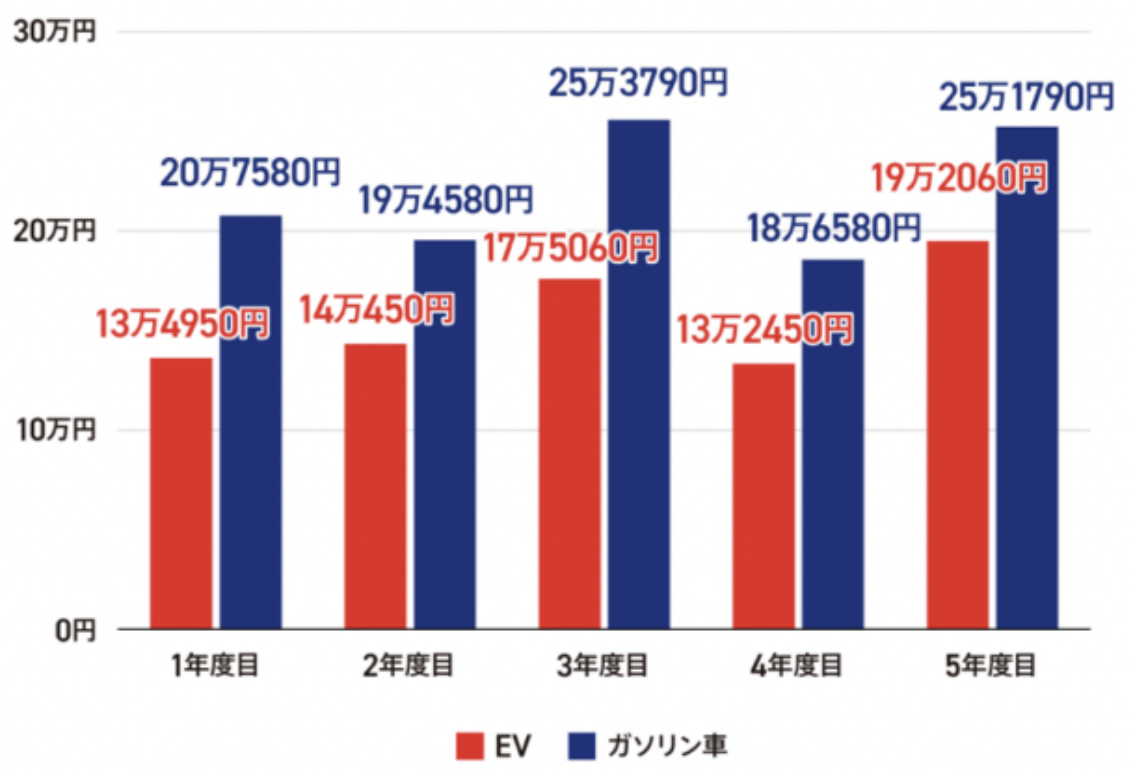
### ????????????????????

?? ?? · Wednesday, August 24th, 2022









?1 EV????????????  
 ???TEPCO

????????CO<sub>2</sub>????????EV????????

????????ICV????????EV????????2????????2????????????????  
 ???

????????????????????????????????EV????????????????  
 ?CO<sub>2</sub>????????

???EV????????CO<sub>2</sub>????????ICV????????EV????????

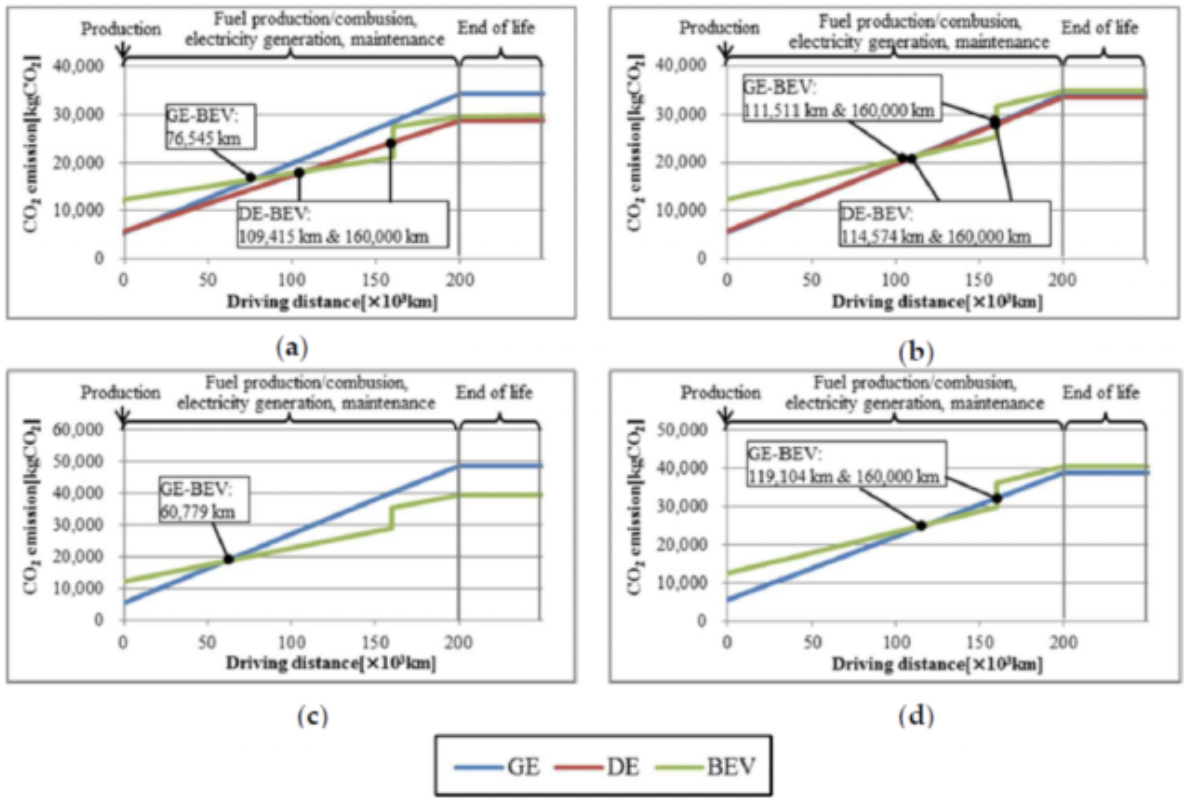
EV????????????????????  
 ?????????

????????????????40????30????????CO<sub>2</sub>????????EV????????  
 ??125,000km????????13,500km????????EV????????9????????60,000km????????  
 ?EV????????????????EV????????

???2019

????????????????GE????????DE????????BEV????CO<sub>2</sub>????????BEV?CO<sub>2</sub>????  
 177kg- CO<sub>2</sub>/kWh??GE?DE?BEV????????DIP: Distance of Intersection Point????





2 CO2 emissions during life cycle for GE, DE, and BEV.

(a) EU; (b) Japan; (c) US; (d) China

GE, DE, BEV, CO<sub>2</sub>, BEV, CO<sub>2</sub>, BEV

(a) EU: 109,415 km, BEV, DE, 109,415 km, 160 km, BEV

(b) Japan: 111,511 km, BEV, GE, 160 km, BEV

(c) US: GE, 60,779 km, BEV, GE

8 km, 1 km, EV, 70, 100, CO<sub>2</sub>

EV, 8, BEV, CO<sub>2</sub>, 2035, EV, 550

CO<sub>2</sub>

???

Posted in , | No Comments »

# ESG??????????

?? ?? · Sunday, August 21st, 2022



Pict Rider/iStock

????????????SEC????????????????????

## [FT]????????SEC?ESG????????



SEC?5?ESG??

SEC????ESG??  
??



??MFA????????????????????

?????MFA?SEC?????ESG?????????????????????ESG????????????????????  
?????????????????????????????????ESG?????????????????????ESG????????????????  
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?????SEC?????ESG??

**?SEC?ESG????????????????????**



?????????SEC??25??ESG??  
?????????????ESG?????????????ESG????????????????????????????



ESG??SEC?????????????

ESG??SDGs?????????  
????????????????154??CO2??  
??????ESG????????????????????

????????????????CSR????????50????????????????????????????200??300????????????????????  
????????????200??300??ESG????????????????????  
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????????????????ESG????????????????????ESG????????????????????????????????XX?????  
????????????????????ESG????????????????????????????????ESG?G????????????????  
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ESG??SEC????????????????????????????????  
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?SDGs????????????????????????????

Posted in ????, ?? | No Comments »