Global Energy Policy Research | GEPR

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GEPR??? · Thursday, December 14th, 2023

deepblue4you/iStock

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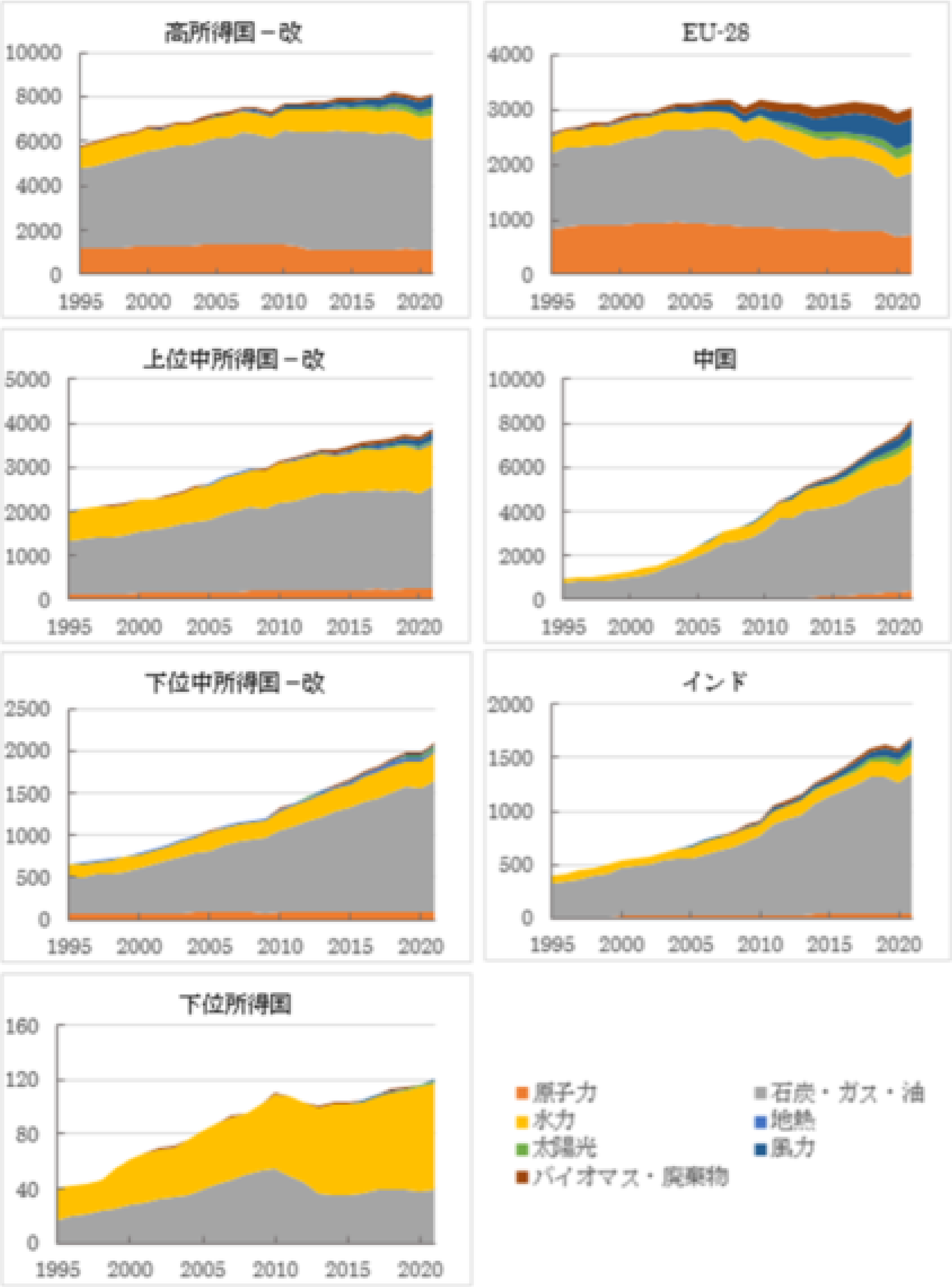
?????????????????????????VRE??VRE?????????????GHG????????????

? 2 3 ? -
??EU-28????10??

図-23　所得分類別世界の発電電力量の推移
出所：米国 eia, International データで作成

グラフ縦軸：年間発電電力量　TWh



GHG???

GHG??????????????????????????EV???VRE???????????????????

EU??VRE???

?24??EU-28?????????????????????????????????????2000??????VRE????????2010???????????????????23???????????????2010?????????????????

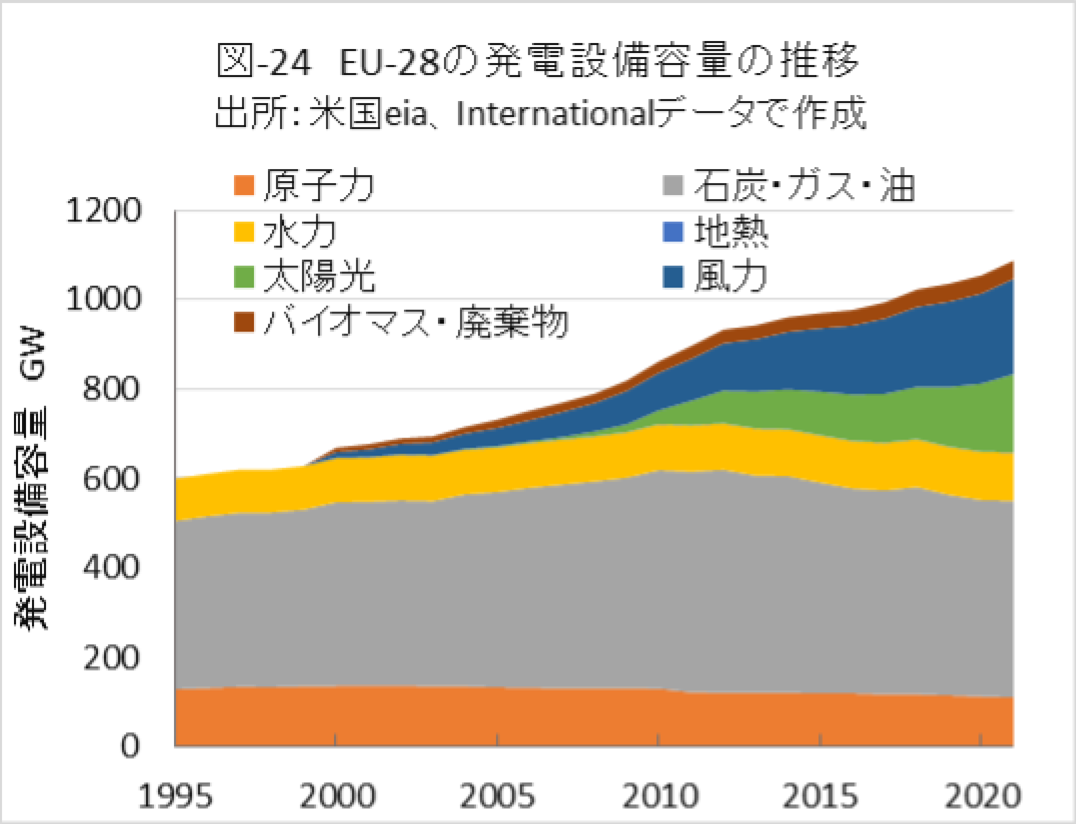


図-24 EU-28の発電設備容量の推移
出所: 米国eia、Internationalデータで作成

VRE???????????????GHG??????????????????????VRE??????????????????????????CO2??????????????

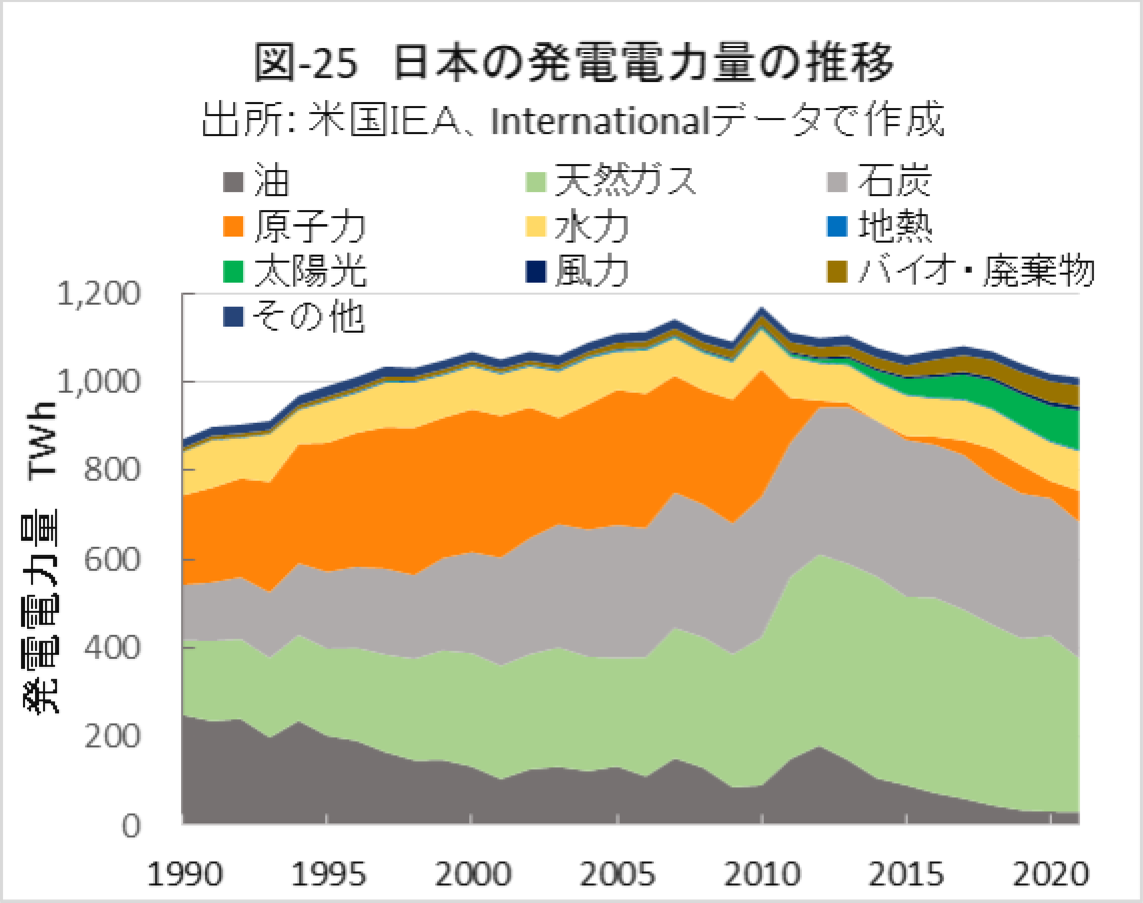
VRE???

????????50%?????????????????????10%??

????EU-28???VRE??????????????????GHG?????????VRE????????????????????????GHG?????????VRE??????????????????????????????

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

?????????????????????????????????????25?????????????????????????????1990??????1?kWh??2009???????????????????????????????????????



2011?3?????????????????25%??????????????????????????????????????LNG???????????????????
??????????

??5??G8??????????????????????1000???2012?7???????
?FIT???????????5???2017???????????????????5%???????????????????????????FIT?????????????
????FIT???????????????????????FIT??

?????????????VRE

???VRE??GHG????????VRE???????????????
????

???VRE??
??
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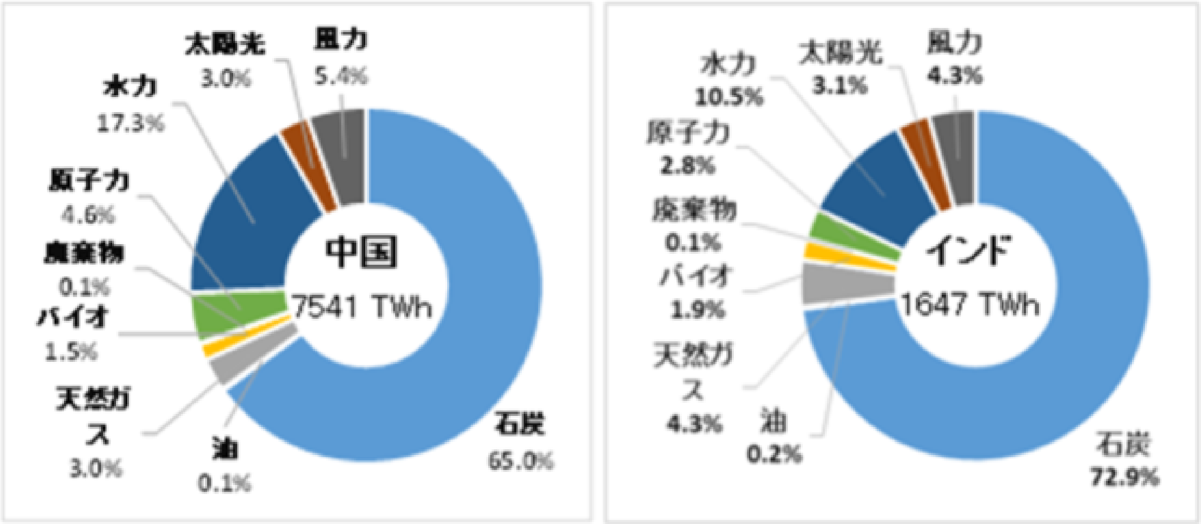
???GHG??????VRE??????????????????
VRE??VRE???????????????????
????VRE??????????????????????????????

??????GHG?2/3??GHG??????????
?????????????

?26?????????????????????????2/3???



図–26　中国とインドの電源構成（2019年）

出所：IEAデータで作成

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?????GHG?????2/3??????????????????2050?GHG??????????????????????GHG??????????????????

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2050?GHG???????????????????????????????????GHG???????????????

????????GHG???VRE????????????????27????????
??????????TES???????????????27%????????

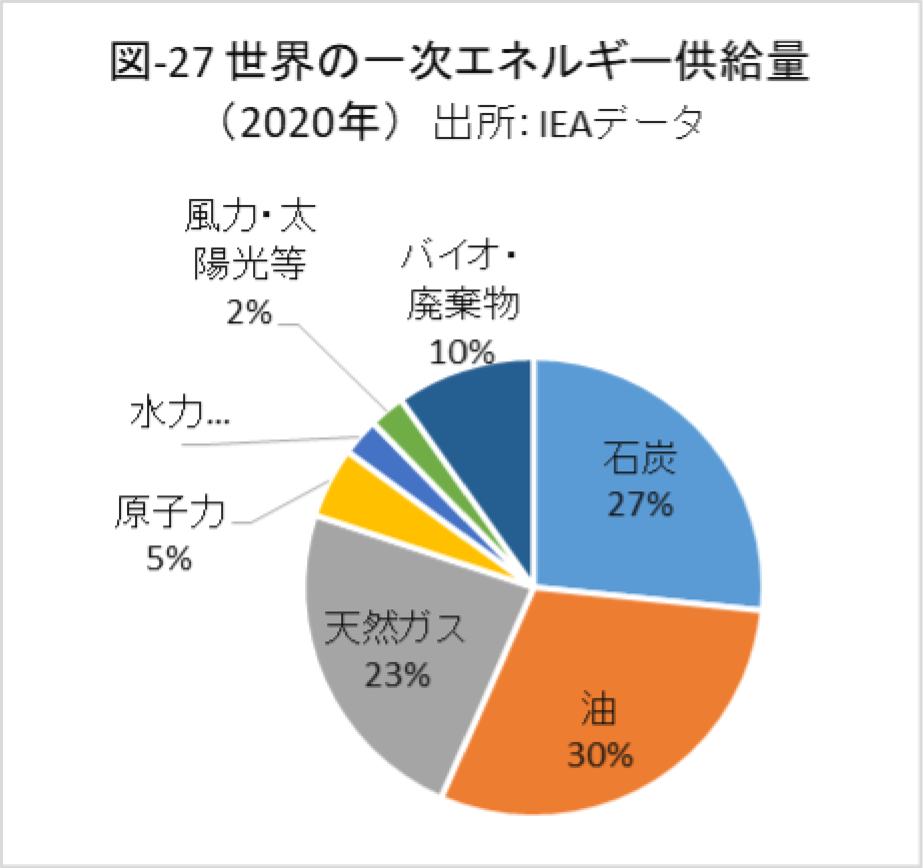


図-27 世界の一次エネルギー供給量
（2020年） 出所: IEAデータ
風力・太陽光等
2%
バイオ・廃棄物
10%
水力…
原子力
5%
石炭
27%
天然ガス
23%
油
30%

?28?????7?????????????????????????????????29???7?????????????CO2??????????

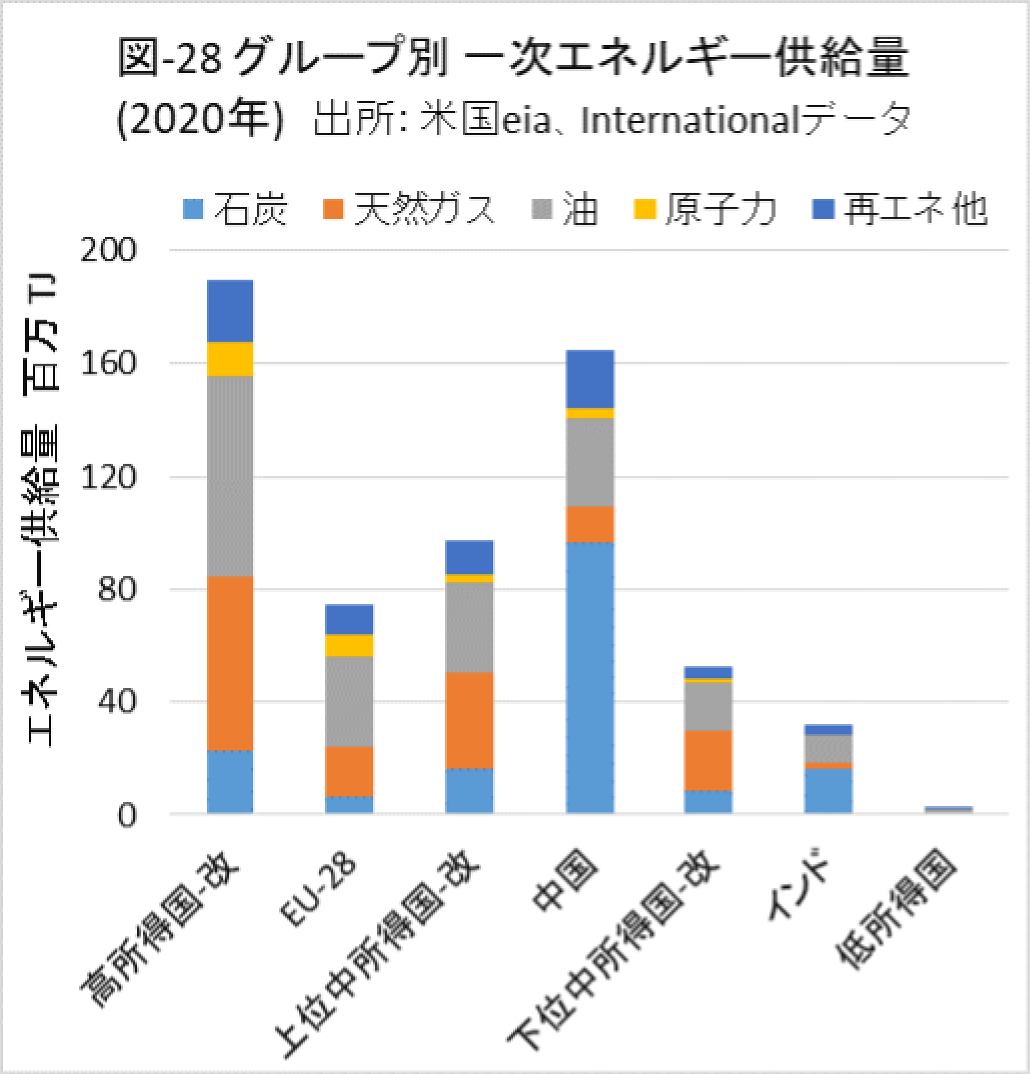
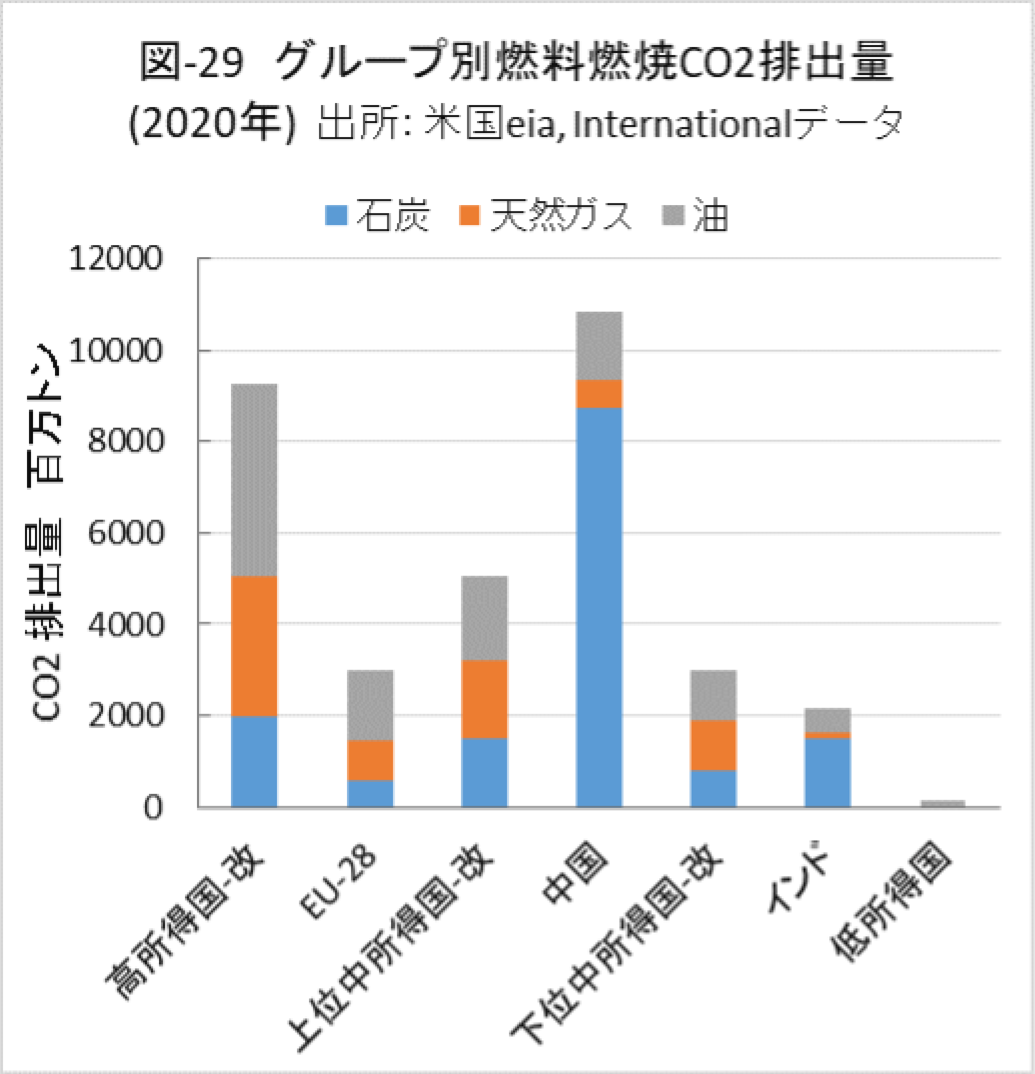


図-28 グループ別 一次エネルギー供給量
(2020年) 出所: 米国eia、Internationalデータ



?28????????????????????????????????2020??????????????????52%?????????????16%?????????29 ???????????CO2??????????????????????????

?????????????????????????????????CO2????????0.56??????

?????????????????LCA???????????????????????????LNG?????????????????????????????????????? ????????????????????????0.6?0.65???????????????????????????????????35?40%?CO2????????????

??????????18%??????????????????6????IEA?2020??????57???1???????????GHG?????????????? ????????????????????????1???GHG?? ????????????????

??70%????????????????????????????????????? ?? ????

??

?????????30%??? 1970??

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

???

???????????????????100???2050?GHG?????????????????????????

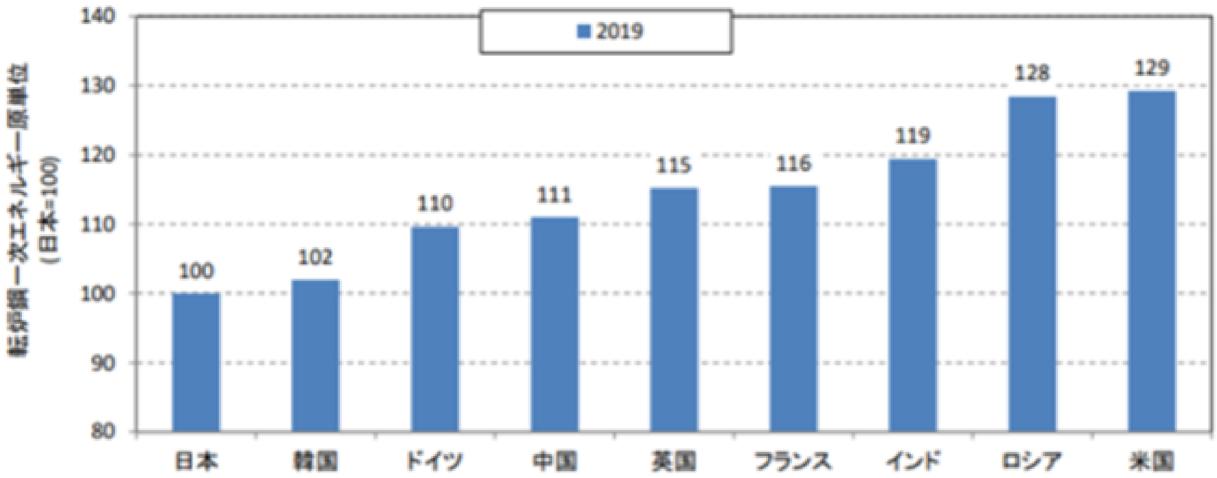
???????

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

????????????????2?3????????4?5??

??30???????????????????????????????????-???

図-30　高炉-転炉鋼の一次エネルギー原単位（2019年）
出所：2019年時点のエネルギー原単位の推計（鉄鋼部門-転炉鋼）、RITE ほか



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

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

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GHG????????????????????GHG??????????????????????2050?????????GHG????????????????????

GHG????????????????????????????????EU???????GHG???60?70%???????????????????GHG???????????????????????????????

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

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