Global Energy Policy Research | GEPR

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?? ?? · Saturday, August 28th, 2021

Leestat/iStodck

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

???(Steam Methane Reforming: SMR?)???

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???????????????7500???2050??????????????

??????????2100????5300???????600????2?2000????????3700??1?2000??????????1?2000????3??

???????[?1)]????????7???????????10?????

??????????IEA??????SMR????????????1kg???0.9?1.8?????????????????????????(CCUS)??????
????1.5???????

??????????????????????????????1kg???5????????????????????????????????????

??????????????????????????2.5???3??/kg????

?? ??? MIRAI ©????

?????

????????????3?????????????????????(Polymer Electrolyte Membrane: PEM)???????????(High-Temperature Steam Electrolysis: HTSE)??I-S????????1000?????????????(I)???(S)??

??????????????????????????????PEM??60??80???????????????????HTSE??650?1000???????I-S ???????????????

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

??????????????????????????????PEM??HTSE????????????????600????????????????????????????????????I-S??????????????????????

???????(IAEA)?2018????????????????????????????????1????????

??????????????????????????(High Temperature Gas-cooled Reactor: HTGR)?????HTSE????I-S??????????????????????

評価事例(原子炉の型と出力規模)	APWR(先進型加圧軽水炉)/112万kWe	HTGR(高温ガス炉) / 25万kWe	HTGR(高温ガス炉)/ 63万kWe
水素製造方法	PEM	HTSE	I-S
製造コスト(ドル/kgH$_2$)	3.48	2.54	2.97

?1??????????????IAEA TECDOC1869, 2018 ???

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??3.11?????????????I-S??????????????????????10??[2)]?

?6??

2050???

600???

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

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????????????????????????????????I-S???

?1) https://about.bnef.com/new-energy-outlook-2020/
?2) https://www.jaif.or.jp/journal/oversea/5292.html

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