Global Energy Policy Research | GEPR

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??? ?? · Thursday, February 6th, 2025



Young777/iStock

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

?????GWPF??
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????????????????????????????????????

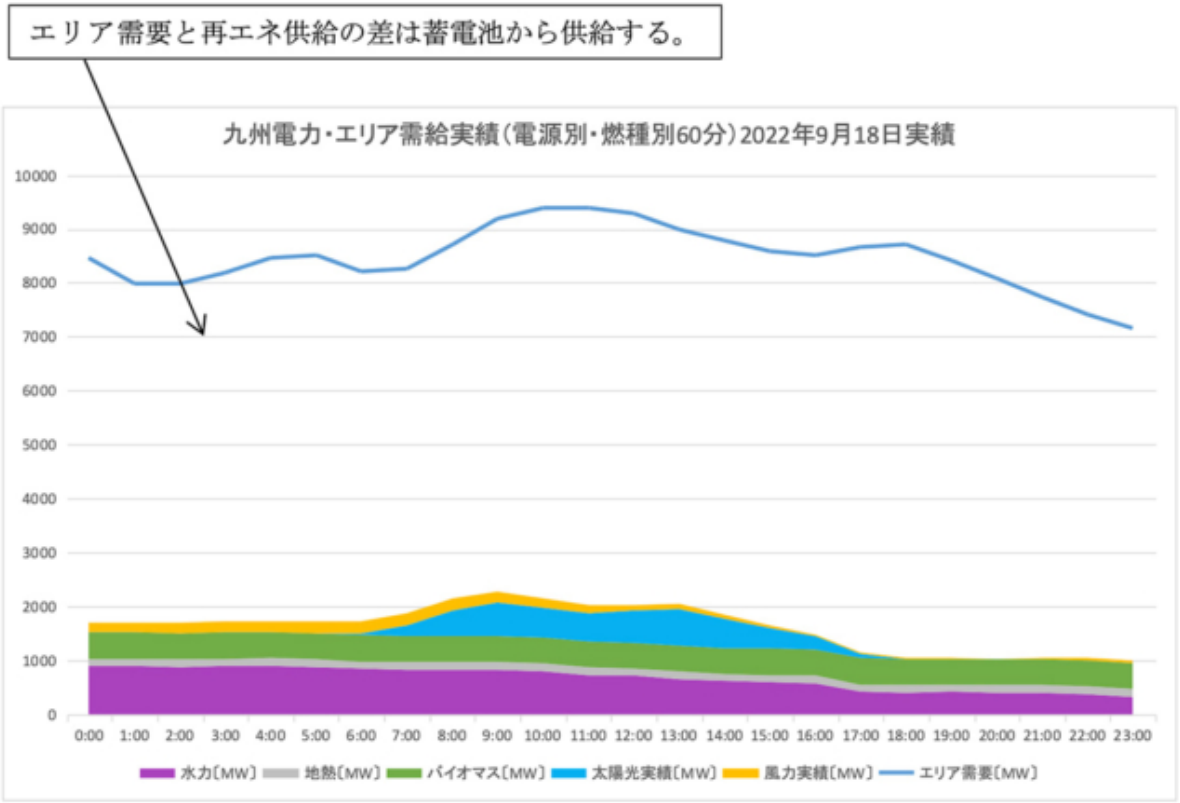
- ??????????????????????????2024/12/27???1?kW???????3?kWh???
- ???????????????2023/6/14???1?2,000KW?????3?5,800KWh?
- NTT??????????????????????????????2023/7/19???1,400KW???4,200KWh?
- ????????????????2024/11/29???4?8,000KW???11?3,000KWh?
- ????/???????2025?????????????2024/2/26???5,880KW/??2?2260KWh?

??2021????????????????????2023?????????
??2/3????????????????????????????????????
??????

??????????????100%??100????????????????
????????????????????????????????????

2. 3?????????????????????

?1?2022?9?18???14??
??
??



?1??????????????????????2022?9?18??

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

?9/18????????????16,409?KWh × 3? ? **49,229?KWh????**

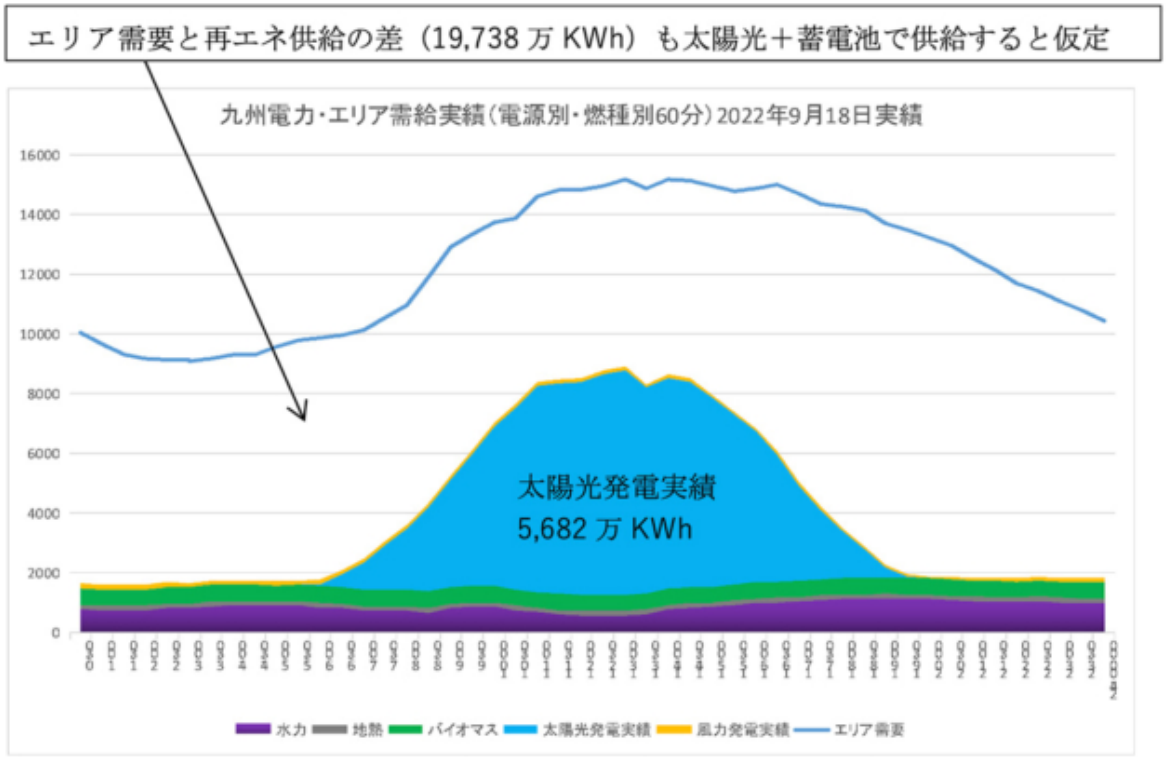
???????????2??2????????????????????
????????2024?7?9????????????

?7/9?????????5,682?KWh
?7/9??????????????????????????19,738?KWh

??????????????????2022/9/18?????????2????????????????????????2????????????????????????????
???????2024/7/9?????????

?49,229?2 ? 5,682 ? 19,738 ? **50,034?KWh??????????????????**
?50,034?KWh ÷ 5,682?KWh ? 8.8?

2024/7/9??????????5,682?KWh?????2024?????10????????????????????????2024??????????????????
????????????????????10????????????????????



?2????????????????????2022?9?18??

??????????????????????2024/9/18????????3??????????????49,229?KWh????????????????????
????????????????????????????????11.3?KWh???????8,000???????????

?49,229?KWh ÷ 11.3?KWh ? 4,356?

?3??4,356?????????100%????????????????????



「紀の川蓄電所」全景



蓄電池コンテナ

?3????? ORIX???? ?????? ??????????
????????????????

3. 1??????????????????

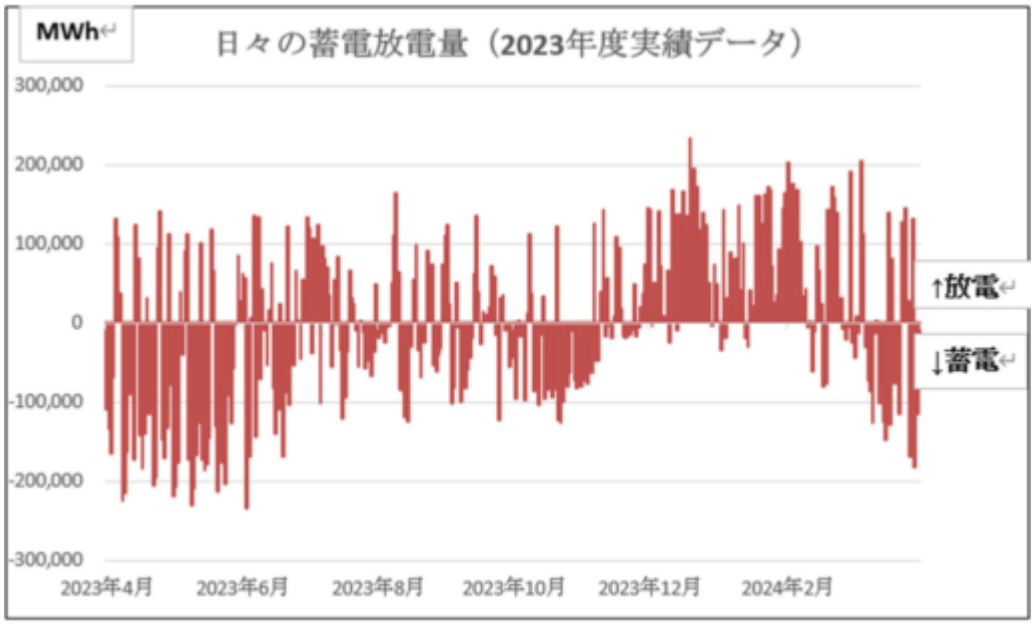
?????????3??
????????????????????2023????????????????????????????

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

??N?????????????????????????????N=5???
?????????????????????1??

?4??????????????????10??????????????????????????????????2023?11?5??**7,683,587MWh**???

??
??2024?3?6??





?4????????????????????????
2023????????????**???????5????**??????????

???????**7,683,587MWh**??

?768,358?KWh ÷ 11.3?KWh ? 67,996 ?

?????????

?8,000? × 67,996? 544 km^2

???????340km^2???1.5????????????????????????????????????

???????????2.5????????5??
?

4. ????????????

??1=150????????????kWh??????

	容量(MWh)	工事費(億円)	単価（円／kWh)
東北電力&みずほリース　工事実績	22	16	72,000
関西電&オリックス　工事実績	113	80	70,000
三菱総合研究所報告書（2024/8)	—	—	68,000
※　アメリカ　2021 年実績	—	—	52,500
※　アメリカ　2022 年実績	—	—	85,050

?1??????????????????????????1KWh??????
????????????????????????????
??

??????????70,000?/KWh???????

?3???????????????49,229?KWh × 70,000 ? 34?4600??

?1??????????????768,358?KWh × 70,000 ? 537?8506??

???GDP???2024??2?????607?5064???????1????????????????????768,358?KWh???????????????GDP??????537?8506????????????????????????????????

5. ??????????????

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

6. ???

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

	必要な太陽光パネル量	必要な蓄電池容量	蓄電池を設置するスペース	蓄電池を設置するコスト
3 日間の曇りに対応する	2024 年の 10 倍	49,229 万 KWh	34 km^2	34 兆 4600 億円
1 年間の供給に対応する	2024 年の 5 倍	768,358 万 KWh	※544 km^2	※537 兆 8506 億円

?2 ????????100??????????????????
????????340km2???1.5?????GDP????????



?5 ??????????????????????????????????
KSBW???????

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