

項目	主計算の値
土地利用密度	2.5ha/MW (=0.40MW/ha)
設備利用率	18.3%
過積載率	130%
メガソーラーの発電コスト	10.9 円/kWh
系統電力の排出係数	0.250kg-CO2/kWh

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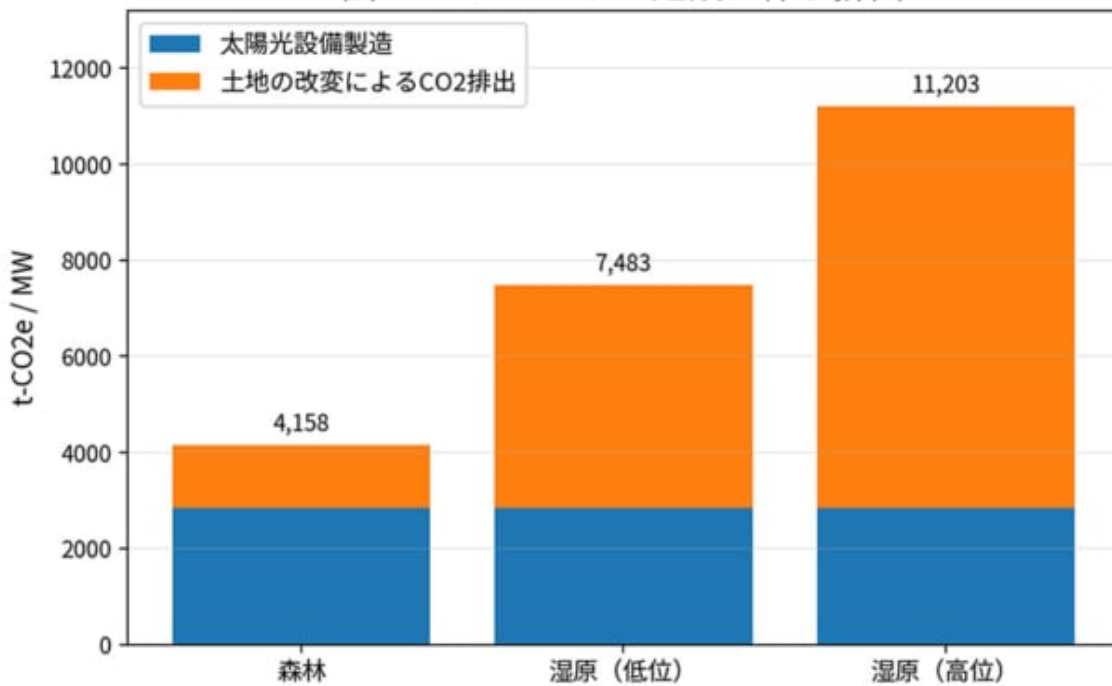
?????1????????????????????2.5ha/MW?????1ha????0.40MW????????????????????18.3%?????130%????????????????????

??CO2????????????????1MW???,845??CO2????????????????????????????????????????????

????????????????????????????????????????????1,313??CO2????????????????????????????????????4,158??CO2????

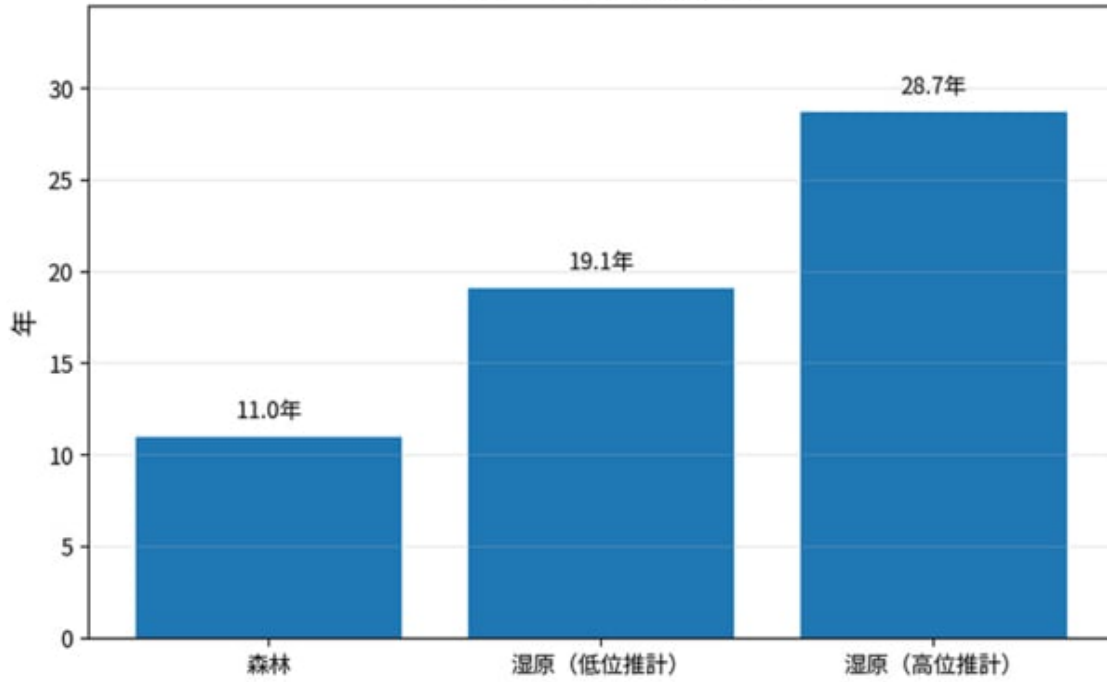
????????????????????????????????????????1MW???,638?8,358??CO2????????????????????????????????????7,483?1?,203??CO2????

図1 メガソーラー建設に伴う排出



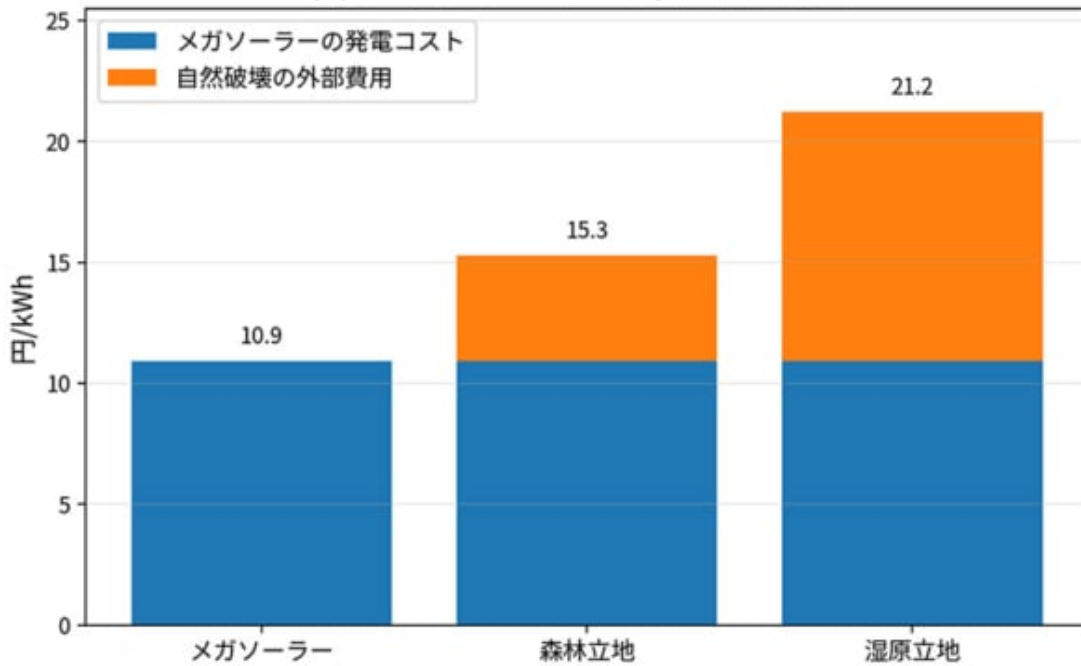
????????????????????CO2????????????????????CO2????????????????????2????????????????2030???

図2 CO2回収年数



280.8 t/ha / $4.38\text{t}/\text{kWh}$ = 64.35 years
 661.8 t/ha / $10.32\text{t}/\text{kWh}$ = 63.65 years
 10.9 t/kWh / $15.3\text{t}/\text{kWh}$ = 1.36 years
 21.2 t/kWh / $15.3\text{t}/\text{kWh}$ = 1.38 years

図3 メガソーラーの社会的コスト



CO2 recovery years for 森林立地: $661.8\text{t}/\text{ha} / 10.32\text{t}/\text{kWh} = 63.65$ years
 CO2 recovery years for 湿原立地: $21.2\text{t}/\text{kWh} / 15.3\text{t}/\text{kWh} = 1.38$ years

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1. ?????2026???????????????????????????????? CIGS Working Paper Series No. 26-006J???2026?5?29???2026?6?29??
2. ?????2026???????????????????????????????? CIGS Working Paper Series No. 26-009J???2026?6?23???2026?6?29??
3. ?????2026????????????????????????????????CO2??? CIGS Working Paper Series No. 26-0010J???2026?6?15???2026?6?29??
4. ?????2026????????????????????????????????CO2??? CIGS Working Paper Series No. 26-0011J???2026?6?15???2026?6?29??

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