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Renewable Energy Potential of Odisha

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RE potential Re-assessment

MNRE vs. iFOREST assessed RE potential of Odisha

	MNRE (MW)	iFOREST (MW)
Solar	25,780	156,000
Biomass	246	3,400
Wind	8346 (120m)	86 high-potential site identified with an average CUF of 22%-29% at 150 m hub height across 16 districts. Need detailed ground-level assessment

Impacts of OREP, 2022

The OREP, 2022 aims to decarbonize the energy sector by harnessing the state's RE potential

RE capacity requirement for meeting new RPO of 43.33% by 2029-30

Source	Utility	Captive	Total
Wind	900	2,600	3,500
Hydro	300	900	1,200
Other	4,500	12,500	17,000
Total	**5,700**	**16,000**	**21,700**

Impact of implementing the OREP, 2022 by 2029-30

- CO_2 emission reduction of 32% and PM, NOx & SOx emission reduction of 29% from utility consumption.
- Minimal utility tariff increase of 2-3% relative to baseline trend.
- Creation of 478,890 solar jobs and 4,445 wind jobs for meeting utility and captive requirements.
- Minimal land requirement - 1.8% of the total wasteland area or 8.3% of the total reservoir area needed for setting up 17 GW solar capacity to meet the 'Other RPO'

Projected utility tariff trend due to increased RE procurement aligned with new RPO