

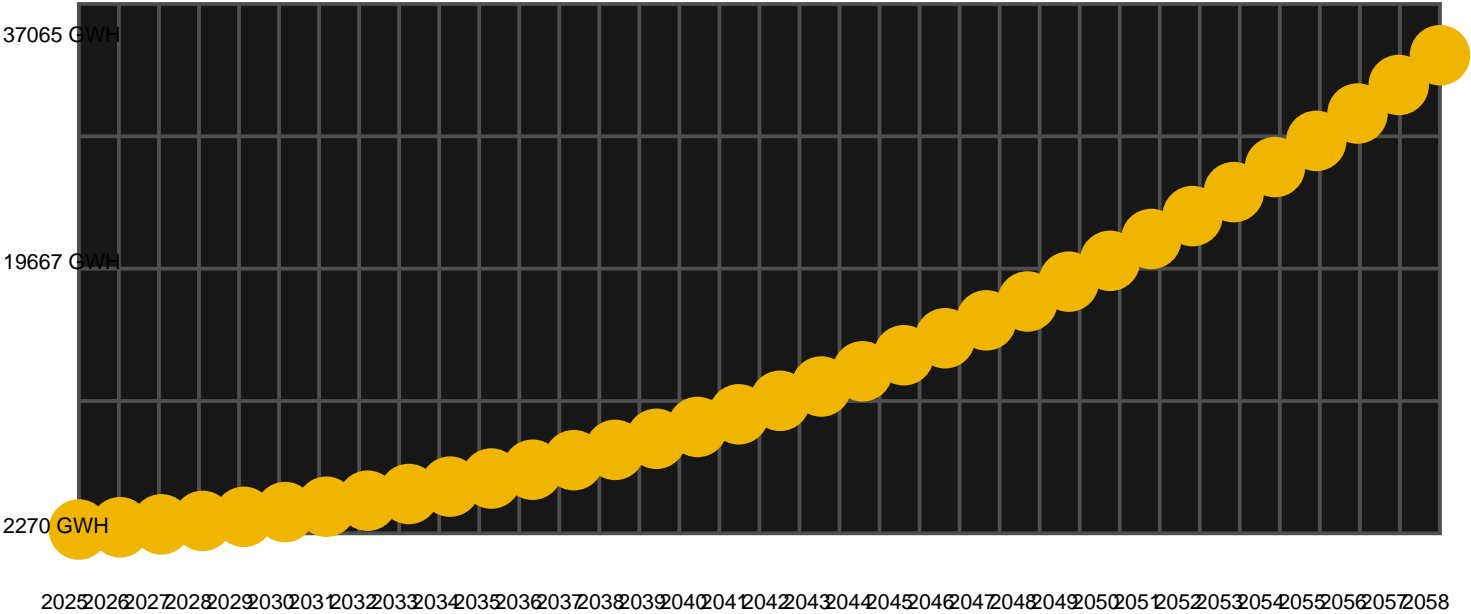
Solar Power Generation Summary

Predictive Analysis Generation projection for selected period

Current Projection

33695.39 GWHear: 2058

Power Generation Trend



Detailed Production Forecast

Year	Predicted Production (GWh)
2025	2521.74
2026	2671.07
2027	2859.35
2028	3087.41
2029	3356.09
2030	3666.27

Year	Predicted Production (GWh)
2031	4018.85
2032	4414.75
2033	4854.93
2034	5340.36
2035	5872.05
2036	6451.03
2037	7078.38
2038	7755.18
2039	8482.56
2040	9261.69
2041	10093.77
2042	10980.03
2043	11921.73
2044	12920.20
2045	13976.76

Year	Predicted Production (GWh)
2046	15092.83
2047	16269.82
2048	17509.21
2049	18812.54
2050	20181.36
2051	21617.30
2052	23122.02
2053	24697.26
2054	26344.78
2055	28066.44
2056	29864.11
2057	31739.75
2058	33695.39

Key Insights

Sources:

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Projected increase of 1236.2% in solar power generation from 2025 to 2058

Environmental Protection Agency (EPA) - Solar Irradiance Data

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Growth rate aligned with regional renewable energy expansion targets

National Renewable Energy Laboratory (NREL) - Production Efficiency Models

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Estimated CO₂ reduction of 1.5M tons compared to fossil fuel generation

Department of Energy (DOE) - Historical Generation Records

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Energy analysis

EcoPulse Energy Analytics

Page 10 of 10