

# Utility-scale solar turkey



## Overview

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Türkiye's solar market is scaling fast and offers four practical entry routes for foreign investors: (i) YEKA/YETA utility-scale tenders, (ii) rooftop C&I self-consumption, (iii) hybrid GES by adding PV to existing plants, and (iv) PV co-located with battery storage (BESS). The Market Sizes and Forecasts are Provided in Terms of Installed Capacity. Turkey has emerged as one of the most dynamic and promising solar energy markets globally, with exceptional solar resources averaging 2,740 hours of sunshine annually and radiation levels reaching 1,527 kWh/m<sup>2</sup>. [1] Solar power is a growing part of renewable energy in the country, with almost 25 gigawatts (GW) of solar panels in 2025, of which 22 GW is commercial and industry rather than traditional. This is a focused, investor- and developer-oriented briefing on the Turkey solar PV opportunity — current state, pipeline, commercial & technical considerations, risks, and a prioritized go-to-market playbook you can use immediately. Executive snapshot Ambition & scale: Turkey has rapidly expanded. Turkey has installed about 7.

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### Investing in Utility-Scale and C& I Solar (GES) in Turkey: YEKA/YETA

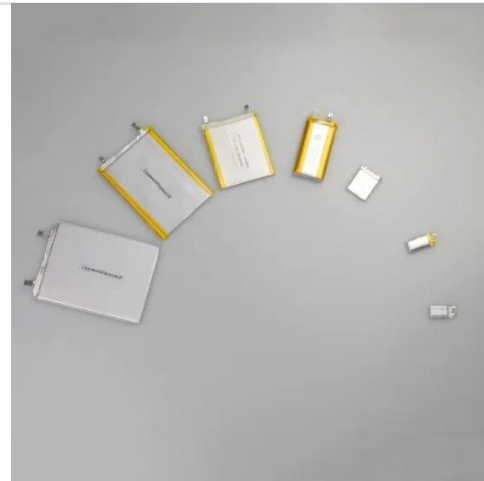
Türkiye's solar market is scaling fast and offers four practical entry routes for foreign investors: (i) YEKA/YETA utility-scale tenders, (ii) rooftop C& I self-consumption, (iii) hybrid GES by ...

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### Solar power in Turkey

Overview Background Policies and laws Economics Heating and hot water Photovoltaics Alternatives to photovoltaics Further reading

Solar power suits Turkey's climate, especially in the South Eastern Anatolia and Mediterranean regions. Solar power is a growing part of renewable energy in the country, with almost 25 gigawatts (GW) of solar panels in 2025, of which 22 GW is commercial and industry rather than traditional power companies or residential rooftop solar as in many other countries. It generates 6% of the country's electricity



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## C& I segment driving Turkey's new solar boom

Turkey has installed about 7.6 GW of new solar capacity over the past year, driven largely by rising electricity prices and expanding uptake of net metering by commercial and industrial (C& I)



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## Turkey Solar Energy Market Size, Scope, Growth, ...

The market is experiencing substantial expansion due to favorable ...

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## Turkey Solar Energy Market Size & Share Analysis

Turkey's utility-scale segment is moderately concentrated, with the top five developers accounting for 61% of

the additions in 2024, resulting in a mid-level rivalry profile for the sector.



48V 100Ah

## Turkey Achieves 2025 Solar Installation Target Ahead of Schedule

According to the latest report by Ember Energy, Turkey's solar installed capacity has doubled from 9.7GW in July 2022 to over 19GW by the end of 2024, surpassing the 2025 target two ...

## Top 10 Solar Companies in Türkiye [Updated 2025]

Complete guide to Turkey's leading solar companies in 2025. Detailed analysis of Kalyon Enerji, Smart Solar Technology, Grace Solar, and other market leaders. Includes manufacturing capabilities, ...



## Turkey Solar Energy Market Size, Scope, Growth, And Forecast



The market is experiencing substantial expansion due to favorable government policies, declining solar technology costs and increasing energy demand. The focus on developing solar infrastructure and ...

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## Turkey: Solar PV Opportunity (2025 focus)

This is a focused, investor- and developer-oriented briefing on the Turkey solar PV opportunity -- current state, pipeline, commercial & technical considerations, risks, and a prioritized ...



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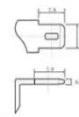
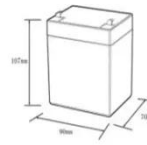
## Project Pushing the Boundaries of Utility-scale Solar Chooses ARRAY

When Türkiye's Ministry of Energy set a target to increase installed solar capacity to 38,000 MW by 2030, STC Solar and Kivanç Enerji knew they'd need resilient utility-scale solar trackers with proven ...

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## Turkey: Solar PV Opportunity (2025)

Recent traction: Türkiye doubled installed solar capacity in a short period and reached ~19-20 GW by end-2024 (surpassing earlier 2025 targets early). Rapid build-out continued through ...



12.8V6Ah

Nominal voltage (V):12.8  
Nominal capacity (Ah):6  
Rated energy (WH):76.8  
Maximum charging voltage (V):14.6  
Maximum charging current (A):6  
Floating charge voltage (V):13.6-13.8  
Maximum continuous discharge current (A):10  
Maximum peak discharge current @10 seconds (A):20  
Maximum load power (W):100  
Discharge cut-off voltage (V):10.8  
Charging temperature (°C):0-+50  
Discharge temperature (°C):-20-+60  
Working humidity: <95% R.H (non condensing)  
Number of cycles (25 °C, 0.5C, 100%DoD): >2000  
Cell combination mode: 32700-4s1p  
Terminal specification: T2 (6.3mm)  
Protection grade: IP65  
Overall dimension (mm):90\*70\*107mm  
Reference weight (kg):0.7  
Certification: un38.3/msds

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