

Turkey Renewable Energy Market Report by Type (Hydro Power, Wind Power, Solar Power, Bioenergy, and Others), End User (Industrial, Residential, Commercial), and Region 2026-2034

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Abstracts

The Turkey renewable energy market size reached 61.8 GW in 2025. Looking forward, IMARC Group expects the market to reach 96.1 GW by 2034, exhibiting a growth rate (CAGR) of 4.88% during 2026-2034 . The growing energy demand and energy security concerns, increasing focus on reducing reliance on fossil fuels, and rising advancements in solar and wind energy storage solutions, supported by government and private partnerships, are some of the factors impelling the market growth.

TURKEY RENEWABLE ENERGY MARKET TRENDS:

Private Sector Investment and International Partnerships

Private corporations, both domestic and international, are progressively investing into renewable energy initiatives due to the appealing regulatory conditions and profitable incentives. Prominent international renewable energy companies are venturing into the Turkish market, bringing knowledge, innovations, and funds. These investments play a crucial role in increasing the capacity of renewable energy and encouraging technological advancements. Furthermore, international collaborations help to share knowledge and develop skills, improving the overall success of renewable energy initiatives. Joint work with international financial institutions like the World Bank is crucial for securing funding and assistance for major renewable energy projects. In 2024, Turkey and the World Bank agreed to a \$1 billion deal to enhance renewable energy by concentrating on growing the distributed solar energy sector and testing battery storage projects. The implementation of the program was scheduled to be carried out by the

Development and Investment Bank of Turkey (TKYB) and the Industrial Development Bank of Turkey (TSKB). These collaborations not only enhance the financial and technical abilities of the sector but also demonstrate Turkey's dedication to worldwide renewable energy objectives and sustainable development.

Technological Advancements and Innovation

Advancements in solar and wind technologies are resulting in higher efficiency and lower expenses, enhancing the competitiveness of these sources against traditional fossil fuels. The advancement of energy storage options, like batteries, improves the dependability and consistency of renewable energy sources, tackling the problem of inconsistency linked with solar and wind power. In addition, incorporating smart grid technologies is facilitating improved assimilation of renewable energy into the national grid, enhancing energy distribution and usage. Local manufacturing capacity is also improving, resulting in less reliance on imports and decreased total project expenses. The support of government and private sector partnerships in research and development (R&D) is leading to innovation and the implementation of advanced technologies, establishing Turkey as a frontrunner in the renewable energy sector. GE Vernova signed a major deal with Kalyon PV in May 2024 to provide its FLEXINVERTER™ solar power station for a project in Viranşehir, Turkey. This alliance was established to help Turkey achieve its renewable energy objectives by incorporating cutting-edge solar technology to strengthen the country's clean energy facilities.

Rising Energy Demand and Energy Security Concerns

The rapidly growing population and economy are leading to an increase in energy usage, necessitating the diversification of energy sources to meet this demand sustainably. Dependence on foreign fossil fuels presents dangers associated with interruptions in supply and fluctuating prices. Turkey aims to decrease reliance on foreign energy sources and improve energy security through investing in renewable energy. Renewable energy offers a reliable and steady energy source, reducing the potential dangers linked to political tensions and unpredictable fossil fuel prices. Additionally, the rise of domestic renewable energy sources helps to maintain long-lasting energy security, guaranteeing a steady flow of sustainable energy to meet the demands of the economy and population.

TURKEY RENEWABLE ENERGY MARKET SEGMENTATION:

IMARC Group provides an analysis of the key trends in each segment of the market, along with forecasts at the country level for 2026-2034. Our report has categorized the market based on type and end user.

Type Insights:

Hydro Power

Wind Power

Solar Power

Bioenergy

Others

The report has provided a detailed breakup and analysis of the market based on the type. This includes hydro power, wind power, solar power, bioenergy, and others.

End User Insights:

Industrial

Residential

Commercial

A detailed breakup and analysis of the market based on the end user have also been provided in the report. This includes industrial, residential, and commercial.

Regional Insights:

Marmara

Central Anatolia

Mediterranean

Aegean

Southeastern Anatolia

Blacksea

Eastern Anatolia

The report has also provided a comprehensive analysis of all the major regional markets, which include Marmara, Central Anatolia, Mediterranean, Aegean, Southeastern Anatolia, Blacksea, and Eastern Anatolia.

COMPETITIVE LANDSCAPE:

The market research report has also provided a comprehensive analysis of the competitive landscape in the market. Competitive analysis such as market structure, key player positioning, top winning strategies, competitive dashboard, and company evaluation quadrant has been covered in the report. Also, detailed profiles of all major companies have been provided.

KEY QUESTIONS ANSWERED IN THIS REPORT

How has the Turkey renewable energy market performed so far and how will it perform in the coming years ?

What has been the impact of COVID-19 on the Turkey Renewable Energy market ?

What is the breakup of the Turkey renewable energy market on the basis of type ?

What is the breakup of the Turkey renewable energy market on the basis of end user ?

What are the various stages in the value chain of the Turkey renewable energy market ?

What are the key driving factors and challenges in the Turkey renewable energy market ?

What is the structure of the Turkey renewable energy market and who are the key players ?

What is the degree of competition in the Turkey renewable energy market ?

Contents

1 PREFACE

2 SCOPE AND METHODOLOGY

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
 - 2.3.1 Primary Sources
 - 2.3.2 Secondary Sources
- 2.4 Market Estimation
 - 2.4.1 Bottom-Up Approach
 - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

3 EXECUTIVE SUMMARY

4 TURKEY RENEWABLE ENERGY MARKET – INTRODUCTION

- 4.1 Overview
- 4.2 Market Dynamics
- 4.3 Industry Trends
- 4.4 Competitive Intelligence

5 TURKEY RENEWABLE ENERGY MARKET LANDSCAPE

- 5.1 Historical and Current Market Trends (2020-2025)
- 5.2 Market Forecast (2026-2034)

6 TURKEY RENEWABLE ENERGY MARKET - BREAKUP BY TYPE

- 6.1 Hydro Power
 - 6.1.1 Overview
 - 6.1.2 Historical and Current Market Trends (2020-2025)
 - 6.1.3 Market Forecast (2026-2034)
 - 6.1.4 Market Breakup by End User
- 6.2 Wind Power
 - 6.2.1 Overview

- 6.2.2 Historical and Current Market Trends (2020-2025)
- 6.2.3 Market Forecast (2026-2034)
- 6.2.4 Market Breakup by End User
- 6.3 Solar Power
 - 6.3.1 Overview
 - 6.3.2 Historical and Current Market Trends (2020-2025)
 - 6.3.3 Market Forecast (2026-2034)
 - 6.3.4 Market Breakup by End User
- 6.4 Bioenergy
 - 6.4.1 Overview
 - 6.4.2 Historical and Current Market Trends (2020-2025)
 - 6.4.3 Market Forecast (2026-2034)
 - 6.4.4 Market Breakup by End User
- 6.5 Others
 - 6.5.1 Overview
 - 6.5.2 Historical and Current Market Trends (2020-2025)
 - 6.5.3 Market Forecast (2026-2034)
- 6.6 Attractive Investment Proposition by Component

7 TURKEY RENEWABLE ENERGY MARKET - BREAKUP BY END USER

- 7.1 Industrial
 - 7.1.1 Overview
 - 7.1.2 Historical and Current Market Trends (2020-2025)
 - 7.1.3 Market Forecast (2026-2034)
 - 7.1.4 Market Breakup by Type
- 7.2 Residential
 - 7.2.1 Overview
 - 7.2.2 Historical and Current Market Trends (2020-2025)
 - 7.2.3 Market Forecast (2026-2034)
 - 7.2.4 Market Breakup by Type
- 7.3 Commercial
 - 7.3.1 Overview
 - 7.3.2 Historical and Current Market Trends (2020-2025)
 - 7.3.3 Market Forecast (2026-2034)
 - 7.3.4 Market Breakup by Type
- 7.4 Attractive Investment Proposition by Type

8 TURKEY RENEWABLE ENERGY MARKET – BREAKUP BY REGION

8.1 Marmara

8.1.1 Market Drivers

8.1.2 Historical and Current Market Trends (2020-2025)

8.1.3 Market Breakup by Type

8.1.4 Market Breakup by End User

8.1.5 Key Players

8.1.6 Market Forecast (2026-2034)

8.2 Central Anatolia

8.2.1 Market Drivers

8.2.2 Historical and Current Market Trends (2020-2025)

8.2.3 Market Breakup by Type

8.2.4 Market Breakup by End User

8.2.5 Key Players

8.2.6 Market Forecast (2026-2034)

8.3 Mediterranean

8.3.1 Market Drivers

8.3.2 Historical and Current Market Trends (2020-2025)

8.3.3 Market Breakup by Type

8.3.4 Market Breakup by End User

8.3.5 Key Players

8.3.6 Market Forecast (2026-2034)

8.4 Aegean

8.4.1 Market Drivers

8.4.2 Historical and Current Market Trends (2020-2025)

8.4.3 Market Breakup by Type

8.4.4 Market Breakup by End User

8.4.5 Key Players

8.4.6 Market Forecast (2026-2034)

8.5 Southeastern Anatolia

8.5.1 Market Drivers

8.5.2 Historical and Current Market Trends (2020-2025)

8.5.3 Market Breakup by Type

8.5.4 Market Breakup by End User

8.5.5 Key Players

8.5.6 Market Forecast (2026-2034)

8.6 Blacksea

8.6.1 Market Drivers

8.6.2 Historical and Current Market Trends (2020-2025)

- 8.6.3 Market Breakup by Type
- 8.6.4 Market Breakup by End User
- 8.6.5 Key Players
- 8.6.6 Market Forecast (2026-2034)

8.7 Eastern Anatolia

- 8.7.1 Market Drivers
- 8.7.2 Historical and Current Market Trends (2020-2025)
- 8.7.3 Market Breakup by Type
- 8.7.4 Market Breakup by End User
- 8.7.5 Key Players
- 8.7.6 Market Forecast (2026-2034)

8.8 Attractive Investment Proposition by Region

9 MARKET DYNAMICS

- 9.1 Market Driving Factors
- 9.2 Market Restraining Factors
- 9.3 Market Opportunities

10 KEY TECHNOLOGICAL TRENDS & DEVELOPMENT

11 RECENT INDUSTRY NEWS

12 PORTERS FIVE FORCES ANALYSIS

- 12.1 Overview
- 12.2 Bargaining Power of Buyers
- 12.3 Bargaining Power of Suppliers
- 12.4 Degree of Competition
- 12.5 Threat of New Entrants
- 12.6 Threat of Substitutes

13 VALUE CHAIN ANALYSIS

14 TURKEY RENEWABLE ENERGY MARKET – COMPETITIVE LANDSCAPE

- 14.1 Overview
- 14.2 Market Structure
- 14.3 Market Share by Key Players

- 14.4 Market Player Positioning
- 14.5 Top Winning Strategies
- 14.6 Competitive Dashboard
- 14.7 Company Evaluation Quadrant

15 COMPETITIVE LANDSCAPE

- 15.1 Company A
 - 15.1.1 Business Overview
 - 15.1.2 Services Offered
 - 15.1.3 Business Strategies
 - 15.1.4 SWOT Analysis
 - 15.1.5 Major News and Events
- 15.2 Company B
 - 15.2.1 Business Overview
 - 15.2.2 Services Offered
 - 15.2.3 Business Strategies
 - 15.2.4 SWOT Analysis
 - 15.2.5 Major News and Events
- 15.3 Company C
 - 15.3.1 Business Overview
 - 15.3.2 Services Offered
 - 15.3.3 Business Strategies
 - 15.3.4 SWOT Analysis
 - 15.3.5 Major News and Events
- 15.4 Company D
 - 15.4.1 Business Overview
 - 15.4.2 Services Offered
 - 15.4.3 Business Strategies
 - 15.4.4 SWOT Analysis
 - 15.4.5 Major News and Events
- 15.5 Company E
 - 15.5.1 Business Overview
 - 15.5.2 Services Offered
 - 15.5.3 Business Strategies
 - 15.5.4 SWOT Analysis
 - 15.5.5 Major News and Events

16 STRATEGIC RECOMMENDATIONS

17 APPENDIX

I would like to order

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