

Solar Water Heater Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 - 2034

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Abstracts

The Global Solar Water Heater Market was valued at USD 2.9 billion in 2024 and is estimated to grow at a CAGR of 5.7% to reach USD 5.1 billion by 2034. Solar water heaters are increasingly being recognized as a reliable and eco-conscious solution to meet the rising demand for hot water across domestic, commercial, and industrial settings. These systems operate by capturing solar energy through collectors, transferring the heat to storage tanks via interconnected pipes and auxiliary components, including pumps and controllers. The appeal of solar water heaters lies in their ability to utilize renewable energy and significantly reduce reliance on conventional sources such as electricity and natural gas. As global energy prices surge and climate change concerns take center stage, end-users are looking for efficient, low-cost, and sustainable solutions- making solar water heaters an ideal choice.

Governments across the globe are playing a critical role in accelerating the adoption of solar water heating systems by offering financial incentives, subsidies, and favorable policies that promote cleaner energy technologies. With the global push toward decarbonization, solar water heaters are being viewed not only as cost-saving tools but also as integral components of green infrastructure. In addition to their environmental benefits, solar water heaters offer tangible economic advantages, such as reducing water heating expenses by up to 80%, according to estimates from energy authorities. Consumers are becoming more conscious of their carbon footprint, and advancements in system design, durability, and performance are further driving the shift toward solar alternatives.

Rising energy costs and an increasing focus on sustainable living are encouraging consumers to consider solar water heaters as long-term investments. In the Asia-Pacific

region, growing awareness about renewable energy and supportive government schemes are expanding market reach. Countries like China and India are fueling industry expansion by offering tax rebates and subsidies for solar installations. Meanwhile, European nations such as Germany, France, and Greece are leading by example, with strict energy efficiency mandates and policies focused on reducing emissions.

The evacuated tube collector segment is projected to reach USD 1.5 billion by 2034, favored for its excellent thermal efficiency and suitability in cold climates. These systems are also gaining traction due to the high demand for replacing outdated water heating setups. On the user front, residential consumers are leading adoption, with the segment holding a 53.4% share in 2034. Rapid urbanization, a growing population, and increasing household energy consumption are key contributors. Technological upgrades- like better insulation, smart controls, and backup heating integration- are enhancing product appeal and reliability.

The U.S. Solar Water Heater Market generated USD 47 million in 2024. Environmental awareness, clean energy incentives, and smart city initiatives are shaping the market landscape. With stronger emissions regulations and investment in energy-efficient technologies, the U.S. is witnessing steady growth in solar water heater adoption.

Prominent players in the global market include Bosch Thermotechnology, A.O. Smith, Alternate Energy Technologies, GE Appliances, Bradford White Corporation, Chromagen Australia, SUNPAD, EMMVEE SOLAR, Himin Solar, Racold, Rheem Manufacturing Company, SunTank, Viessmann, and V-Guard Industries. These companies are strengthening their market presence through innovation, energy-efficient product offerings, and collaborations with government agencies focused on clean energy transitions.

Contents

CHAPTER 1 METHODOLOGY & SCOPE

- 1.1 Research Design
- 1.2 Base Estimates & Calculations
- 1.3 Forecast Calculation
- 1.4 Primary Research & Validation
 - 1.4.1 Primary Sources
 - 1.4.2 Data Mining Sources
- 1.5 Market Definitions

CHAPTER 2 EXECUTIVE SUMMARY

- 2.1 Industry synopsis, 2021 - 2034

CHAPTER 3 INDUSTRY INSIGHTS

- 3.1 Industry ecosystem
- 3.2 Regulatory landscape
- 3.3 Industry impact forces
 - 3.3.1 Growth drivers
 - 3.3.2 Industry pitfalls & challenges
- 3.4 Growth potential analysis
- 3.5 Porter's analysis
 - 3.5.1 Bargaining power of suppliers
 - 3.5.2 Bargaining power of buyers
 - 3.5.3 Threat of new entrants
 - 3.5.4 Threat of substitutes
- 3.6 PESTEL analysis

CHAPTER 4 COMPETITIVE LANDSCAPE, 2024

- 4.1 Introduction
- 4.2 Strategic dashboard
- 4.3 Innovation & technology landscape

CHAPTER 5 MARKET SIZE AND FORECAST, BY COLLECTOR, 2021 - 2034 (USD MILLION & '000 UNITS)

- 5.1 Key trends
- 5.2 Evacuated tube
- 5.3 Flat plate
- 5.4 Unglazed water

CHAPTER 6 MARKET SIZE AND FORECAST, BY PRODUCT, 2021 - 2034 (USD MILLION & '000 UNITS)

- 6.1 Key trends
- 6.2 Thermosiphon
- 6.3 Pumped

CHAPTER 7 MARKET SIZE AND FORECAST, BY APPLICATION, 2021 - 2034 (USD MILLION & '000 UNITS)

- 7.1 Key trends
- 7.2 Residential
- 7.3 Commercial
- 7.4 Industrial

CHAPTER 8 MARKET SIZE AND FORECAST, BY REGION, 2021 - 2034 (USD MILLION & '000 UNITS)

- 8.1 Key trends
- 8.2 North America
 - 8.2.1 U.S.
 - 8.2.2 Canada
 - 8.2.3 Mexico
- 8.3 Europe
 - 8.3.1 UK
 - 8.3.2 Germany
 - 8.3.3 Italy
 - 8.3.4 Austria
 - 8.3.5 Spain
 - 8.3.6 Denmark
- 8.4 Asia Pacific
 - 8.4.1 China
 - 8.4.2 Australia

8.4.3 India

8.4.4 Japan

8.4.5 South Korea

8.5 Middle East & Africa

8.5.1 Saudi Arabia

8.5.2 UAE

8.5.3 Qatar

8.5.4 Kuwait

8.5.5 Oman

8.6 Latin America

8.6.1 Brazil

8.6.2 Argentina

CHAPTER 9 COMPANY PROFILES

9.1 A.O. Smith

9.2 Alternate Energy Technologies

9.3 Bosch Thermotechnology

9.4 Bradford White Corporation

9.5 Chromagen Australia

9.6 EMMVEE SOLAR

9.7 GE Appliances

9.8 Himin Solar

9.9 Racold

9.10 Rheem Manufacturing Company

9.11 SUNPAD

9.12 SunTank

9.13 Viessmann

9.14 V-GUARD Industries

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