

Small Hydropower Market to Reach \$3.4 Billion, Globally, by 2033 at 2.5% CAGR: AMR

Advancements in small-scale hydropower tech and off-grid expansion drive market growth, with efficient turbines and control systems boosting demand ahead.

WILMINGTON, DE, UNITED STATES, February 10, 2025 /EINPresswire.com/ -- Allied Market Research published a report, titled, "[Small Hydropower Market](#) by Type (Micro and Mini), by Component (Civil Works, Electromechanical Equipment and Others), and Capacity (Up to 1 MW and 1-10 MW): Global Opportunity Analysis and Industry Forecast, 2024-2033". According to the report, the small hydropower market was valued at \$2.7 billion in 2023, and is estimated to reach \$3.4 billion by 2033, growing at a CAGR of 2.5% from 2024 to 2033.



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Prime determinants of growth

Small hydropower systems offer a reliable and sustainable energy solution for these isolated communities, providing them with essential electricity without the need for extensive infrastructure development. The ability to harness local water resources for power generation makes small hydropower an ideal option for meeting the energy needs of remote areas, where alternative sources like diesel generators are costly and environmentally harmful. All these factors are expected to increase the demand of small hydropower market growth.

The mini segment is expected to experience the fastest growth throughout the forecast period. By type, the mini segment held the highest market share in 2023 and is estimated to maintain its leadership status throughout the forecast period. Mini hydropower plants have a significantly higher capacity compared to micro hydropower plants, that make them more suitable for providing power to larger communities or for integration into national grids.

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The civil works segment is expected to experience the fastest growth throughout the forecast period.

By component, the civil works held the highest market share in 2023 and is estimated to maintain its leadership status throughout the forecast period. Civil works, such as the construction of dams, weirs, channels, and other infrastructure, represent a significant portion of the total cost in small hydropower projects. This includes excavation, concrete work, and structural development, which are labor-intensive and material-intensive processes.

The 1-10 MW segment is expected to experience the fastest growth throughout the forecast period.

Based on the capacity, the 1-10MW segment held the highest market share in 2023 and is estimated to dominate during the forecast period. 1-10 MW range provides significantly more power compared to those under 1 MW, that make them more attractive for both grid-connected and off-grid applications.

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Asia-Pacific is expected to experience the fastest growth throughout the forecast period.

Based on region, Asia-Pacific is the fastest growing region in terms of revenue in 2023. In the Asia-Pacific region, various driving factors are contributing to the growth of the small hydropower market. Rapid economic growth and population expansion have increased energy needs, particularly in rural and remote areas where extending traditional energy infrastructure is challenging. Small hydropower projects offer a cost-effective and sustainable solution to provide reliable electricity to these underserved regions.

Leading Market Players: -

- General Electric
- Siemens AG
- Natel Energy, Inc
- Alstom SA
- Toshiba Energy Systems & Solutions Corporation
- Kawasaki Heavy Industries, Ltd.
- Voith GmbH & Co. KGaA
- Bharat Heavy Electricals Limited
- Mavel, a.s.
- Rentricity Inc

The report provides a detailed analysis of these key players in the global small hydropower market. These players have adopted different strategies such as new product launches, collaborations, expansion, joint ventures, agreements, and others to increase their market share and maintain dominant shares in different regions. The report is valuable in highlighting business performance, operating segments, product portfolio, and strategic moves of market

players to showcase the competitive scenario.

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