

Small Hydropower Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 – 2034

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Abstracts

The Global Small Hydropower Market is projected to achieve a capacity of 350.6 GW by 2024 and is expected to grow at a CAGR of 2.1% between 2025 and 2034. This growth is largely driven by rising demand for renewable energy, increased focus on sustainability, and advancements in technology.

Small hydropower refers to hydroelectric systems with a capacity between 100 kW and 10 MW, making them an accessible option for remote areas, small utilities, and local communities. Their scalability and versatility make these systems a key contributor to the global transition towards decentralized energy solutions. These systems support off-grid and microgrid setups, addressing the needs of regions lacking reliable grid access. Technological improvements, particularly in turbine efficiency and cost, further enhance the feasibility of adopting small hydropower systems globally.

In the United States, the small hydropower market is expected to surpass 46.2 GW by 2034, fueled by federal initiatives aimed at reducing greenhouse gas emissions and integrating more renewable energy sources. Favorable policies, such as incentives, tax benefits, and grants, are also encouraging widespread adoption. This cleaner energy source offers a practical and reliable solution, aligning with goals to transition to a more sustainable energy mix.

In the Asia Pacific, small hydropower is emerging as an essential tool to address energy challenges in remote and underserved regions. These systems leverage local water resources to deliver reliable power, minimizing reliance on fossil fuels while improving energy security. The ability of small hydropower projects to operate independently of national grids makes them particularly beneficial for isolated communities. By promoting

self-sufficiency and reducing environmental impact, small hydropower continues to gain traction as an effective solution for powering rural areas.

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