Introduction of private capital in solar power generation

Overview

Private equity firms are playing a crucial role in financing large-scale solar, wind, and energy storage projects, acquiring renewable energy developers, and structuring innovative deals to maximize returns. Private credit has become an important source of funding for both the energy transition and infrastructure needed to enable technological advancements in capital markets. These new entrants are twice as likely to create new power plants as incumbent domestic listed utilities, highlighting a new role for PE in large-scale ass t creation. They also acquire existing plants. By leveraging sophisticated investment strategies and public-private partnerships in energy, investors are unlocking. The energy transition and artificial intelligence (AI) boom are fueling steady growth in power consumption, along with a strong appetite for investment in renewables. 9% of world's total installed power generation capacity in 2022. This transformation is further supported by a rise in private equity-backed renewable energy deals, which surged from USD. The rise of green industrial policy in wealthy economies has mobilized public capital to fund clean energy projects, and attracted private capital through subsidies and tax incentives.

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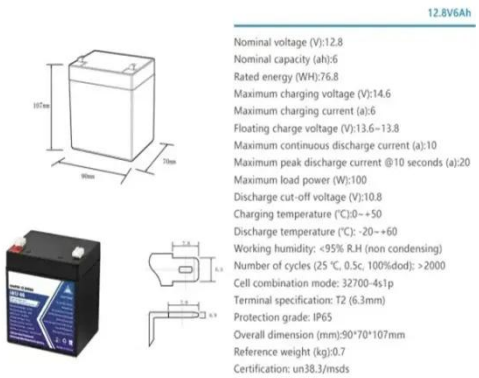

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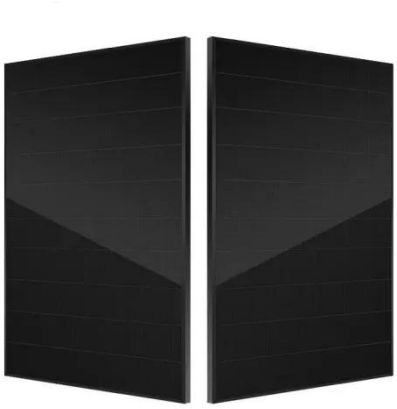

are accelerating growth in the renewable energy sector, funding sustainable projects, and shaping the future of clean energy.

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Hoover Institution, and NBER May 2025 Abstract Private equity (PE), institutional

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