solar diesel hybrid storage project financing options in India 2030

Can solar-plus-storage transform India's energy landscape?As a long-term renewable energy partner in India, we recognize the immense potential of solar-plus-storage in transforming the country's energy landscape. We are actively exploring co-located solar and storage as well as standalone BESS projects to support energy security, grid reliability, and sustainable economic growth. Is solar power a good investment in India?Rooftop solar has shown even stronger growth at 47% CAGR, with incentives making installations more affordable. Wind power has also seen steady expansion, with a total installed capacity of 45.9 GW by FY2024. Hydropower, both large and small-scale, continues to be a significant part of India's energy mix. Is India a leader in energy storage innovation?The Stationary Energy Storage India (SESI) conference brought together 200+ global leaders, signaling robust policy, investment, and innovation momentum. With national and international collaboration, India is positioning itself not only as a leader in renewable energy deployment but also as a major force in energy storage innovation. Why is rooftop solar a viable option for households in India?For households, rooftop solar can provide cost savings along with emissions reductions. While several states in India have subsidies for household solar adoption, accessing this capital has been difficult, hampering widespread adoption of clean energy. Should solar storage be scaled up in India?Scaling up solar storage projects in India presents both opportunities and challenges. While the potential for integrating battery storage with solar energy is immense, widespread adoption is still constrained by factors such as high capital costs, evolving regulations, and grid integration complexities. How much money will we invest in India by ?Our investment in India so far, projected to reach EUR 3.5 Bn by , reflects our commitment to driving renewable growth and strengthening our market position. Our target is to expand our installed renewable capacity to 7 GW, with additional capacity to come from combination of solar, Solar + Storage, RTC, FDRE and standalone batteries. Innovative financing models: We explore blended financing options, such as viability gap funding and long-term PPAs with storage components, to improve project bankability and attract investment. Innovative financing models: We explore blended financing options, such as viability gap funding and long-term PPAs with storage components, to improve project bankability and attract investment. As India moves towards its ambitious target of 500 GW of non-fossil fuel capacity by , battery energy storage systems (BESS) will play a crucial role in addressing intermittency issues and ensuring reliable, 24/7 clean energy supply. Storage solutions enable greater grid flexibility, reduce This expansion aligns with the new renewable purchase obligation (RPO) and energy storage obligations (ESO) norms to support the country's renewable energy goals. New Delhi: India is poised for a substantial increase in its energy storage capacity, necessitating around 12 GW in FY24, with What are the critical investment needs for scaling up clean-energy projects in India, and where are the most significant gaps in current financing mechanisms? To meet its renewable energy targets, India needs annual investment of $120bn-140bn, increasing to $7.2trn-12.1trn by for net-zero The Paris Agreement outlines a target of reducing emissions by 45% by and reaching net zero emission by to limit global warming to 1.5°C. While projections indicate that the global GHG emission in will

be still around twice as high as required to restrict the 1.5°C temperature rise. India wants non-fossil fuel power sources to provide half of its electricity supply by . To achieve this target, India needs to massively scale up funding for renewables. Our latest white paper, commissioned by the Power Foundation, estimates a requirement of $223 billion over the next eight Financing has transformed significantly since then, with the entry of varied sources of funding such as banks, bond market (domestic and global), international lenders and development finance institutions (DFIs) vying for a piece of the growing RE sector. Private NBFCs, the flag bearers at the Powering India's Clean Energy Transition with Solar Innovative financing models: We explore blended financing options, such as viability gap funding and long-term PPAs with storage components, to improve project bankability and attract investment. India targets 70 GW energy storage by , needs To meet the target of 425 GW installed Renewable Energy (RE) capacity, along with 19 GW in pumped storage projects (PSP) and 42 GW in battery-enabled storage solutions (BESS) by , an estimated INR14 lakh Scaling clean energy: financing and transition While refinancing existing projects can secure lower interest rates, new projects face high costs due to policy, offtake, and technology risks. Financing is readily available for established Significance of Creating Financing Opportunities forIn India, energy storage with advanced battery storage is poised to play a major role in ensuring a stable, reliable power grid. And there's nothing mysterious about the private financing arrangements that will help get storage Financing India's Renewables AmbitionThe country now needs to scale up its financing activities by tapping into alternative sources of financing and by learning from international experiences to raise $223 billion in the next eight years. Read the whitepaper Renewable Energy Financing Landscape in India For lenders, there are still untapped opportunities in green field projects, hybrid, storage and round the clock bids, and household plus commercial and industrial (C& I) rooftop projects. Strategic Pathways for Energy Storage in India through Dramatic cost reductions over the last decade for wind, solar, and battery storage technologies position India to leapfrog to a more flexible, robust, and sustainable power system for India's Renewable Energy Journey: 485 GW By India's renewable energy sector is experiencing rapid growth, driven by government initiatives and increasing investments. The country aims to have 485 GW of installed renewable energy capacity by , contributing to

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