Data center energy storage brazil

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Atlas Renewable Energy, an international renewable energy solutions provider, is entering the data center sector in Latin America through a contract with Sao Paulo-based telecom and data storage provider V.tal. As part of the agreement, Atlas is building the Draco Solar plant in the Brazilian city of Arinos, generating about 1150 GWh of clean energy annually.

Data centers have gained significant momentum on the regional and global stage, driven by the rise of artificial intelligence, the proliferation of 5G networks, and the growing demand for multi-screen experiences. As information sharing among millions of users accelerates exponentially, the industry faces an urgent need for a reliable and predictable energy supply and enhanced energy efficiency.

The Draco solar plant (579 MWp) will dedicate 710 GWh of its full capacity annually to powering V.tal’s buildings throughout Brazil, as well as the current and future data center park owned by Tecto, the company’s data center business unit. The remaining capacity will be available for purchase by other companies seeking to meet their sustainability goals. Hospital network Primavera Sa?de and poultry producer Rivelli have both already signed contracts to receive power from the new plant.

The data center market in Brazil presents attractive opportunities for expansion and global investment. The growing demand for storage services, high-volume data processing and support for new technologies is driving the sector worldwide – and Brazil could stand out on the global stage with significant growth potential in the coming years.

Data shows that over 50% of data centers in Latin America are concentrated in the country, with the sector projected to grow by more than 30% until 2030. In addition, Brazil’s energy market is mature and regulated, with around 85% of the energy generated by renewable sources (whereas in the rest of the world this figure is less than 30% and with energy consumption being even lower), a relevant factor for the industry as it seeks to ensure sustainability in the infrastructure needed to keep up with the development of the digital economy.

Just as critical as the generation of this energy is its transmission. Brazil has a unique interconnected system that is large, robust and reliable – and because of this the energy can reach the end customer with an optimized cost structure. The United States, for example, has the capacity to generate the energy, but transmitting (moving) this energy has increasingly become a bottleneck. This type of infrastructure is not something that can be built overnight.

The vast availability of land in Brazil to build these projects also enables the expansion of infrastructure without the limitations that are common in other countries. In addition, Brazil has high-quality and reliable national and international fiber optic connectivity infrastructure, facilitating the exchange of data on a global

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scale.

The increasing partnerships between tech companies and renewable energy providers reflect a mutual goal: to minimize environmental footprints while supporting economic growth. This evolving landscape in Brazil's tech and renewable energy sectors suggests an optimistic future where sustainable practices become the norm rather than the exception. Through continued collaboration and investment in clean energy initiatives, Brazil stands out as a beacon of hope for other nations aiming to reduce their dependence on fossil fuels and embrace a greener future.

Currently, Brazil is the main data center market in Latin America. The increase in technological demand and the growth of cloud computing are some of the factors driving the market. The COVID-19 pandemic has also been a strong enabler for digital transformation.

According to a list made by Data Center Magazine in 2021, with the top ten markets on the rise, São Paulo ranked fifth. Brazil was the only Latin American country to enter the ranking. Also according to the publication, in 2020 São Paulo received more than US$ 295 million in investment in the sector. This shows that the data center market in the country is expected to grow even more in the coming years.

In 2021, according to an Arizton report, Brazil had about 17 data center providers in more than 40 facilities in the country, especially Ascenty, Equinix, Scala and Odata, the main players in the market. Everything indicates that over the next few years these numbers should grow and that more companies want to invest in the country.

In addition, there is a huge growth in technologies that require data centers, for example, the growing demand for cloud services, whose providers opt for external data centers. This is the current trend, as in-house data centers require much greater investment, both for their construction and for their subsequent maintenance.Leaders in the segment:

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