



# Solar energy for businesses chad

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Developers like ZIZ Energie are extending the benefits of solar energy to countries in Africa, where REC markets have yet to be fully developed. Currently, ZIZ Energie owns and operates five diesel powered minigrids in Chad, which it plans to convert to solar-plus-storage hybrid systems starting in the city of Mongo, the 70,000-inhabitant capital region of Gu?ra province. ZIZ Energie is installing a 2.5 MWp solar PV power plant in Mongo with an energy storage system and back-up generators.

Starting in 2022, approximately 3,300 P-RECs are projected to be issued each year, although energy production estimates will be confirmed upon final system build and ramp-up. These would be the first EACs and P-RECs to be issued and sold from Chad. P-REC purchases from the Mongo solar plant will fund the phased implementation of a community solar streetlight project that delivers a significant positive impact on quality of life and safety for Mongo residents.

SDG1 - Poverty alleviation, SDG3 &#8211; Good Health and Well Being, SDG4 &#8211; Quality Education: The project fulfills SDG1, SDG3, and SDG4 by connecting businesses, schools, and health centers to reliable and clean electricity.

SDG 7 - Accessible and Clean Energy: This project supports SDG7 by supplying green energy to villages which currently have limited access to electricity mainly derived from fossil fuels.

SDG 16 - Peace, Justice and Strong Institutions: This project supports SDG 16 by fostering peace through increased employment opportunities and safer public spaces.

The United Nations&#8217; Sustainable Development Goals (SDGs) are an urgent call for action by countries in global partnership to end poverty, protect the planet, and ensure that by 2030 all people enjoy peace and prosperity.

The solar minigrids reduce the need for carbon intensive forms of energy that are typical in Chad. This has a direct climate mitigation impact by reducing local air pollution and decreasing carbon emissions. The project decreases reliance on fossil fuels and fuel supply chains while promoting energy independence thanks to streetlighting that is 100% solar-powered and independent of the solar minigrid.

ZIZ's solar sites will provide power to rural households in Chad, a nation that has had a lack of development for decades, and currently has an electrification rate of about 6%. Projects like this will help Chad increase its electrification by 500% overall and directly impact 250,000 inhabitants.

The P-REC-funded community streetlights will increase safety and security, and allow local businesses to stay open longer. The electricity connections enabled by the solar mini grids will increase overall quality of life for rural Chadian households.

The Republic of Chad, backed by World Bank funding for the Regional Urgent Intervention Project in the Solar Energy Sector (RESPITE), invites eligible consulting firms to express their interest in providing services for the construction oversight of a 30MWac Photovoltaic power plant, 60MWh Storage System, 90 KV line, and a 90/33 Kv substation. The project aligns with Chad's commitment to sustainable energy and is crucial for achieving its environmental goals.

The consulting services involve recruiting a Consulting Engineer responsible for overseeing the construction works, ensuring compliance with timelines, and maintaining quality standards. The Consulting Engineer will operate under the supervision of the CEP SNE (Delegated Project Owner) and will be accountable for executing the services efficiently, including managing subcontractors.

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