

Best Solar Design & Installation Company 2025 – Benin

ESOM Green Power Technology is a Beninese company specialising in solar-powered products, especially standalone street lights. ESOM works closely with the government and local authorities of this West African nation, but it has also carried out projects for a range of private companies across the region, usually those interested in developing their sustainable infrastructure. The company supports in the supply, installation, and maintenance of these products, positioning it as a leading full-service provider.

Founded in 2017, ESOM is based out of Cotonou, Benin's largest city. From this location, the company has served as a beacon of renewable energy promotion in Africa for almost a decade, designing and installing the solutions it takes to move the needle – especially when it comes to energy sector management. Collaborating with partners that all have their own factories, ESOM oversees the high-quality development of its proprietary solutions, which it then installs and maintains as required by its clientele.



As touched on above, ESOM's particular area of expertise lies in solar street lights, which are charged by the sun during the day before emitting light once it gets dark. A fully self-sufficient system, the company has a range of solutions available harnessing this technology, ranging from one-metre poles to 12-metre poles and from 5W to 120W for the lamps. Outside of just street lights, these systems can also be used for lighting in gardens and other outside spaces, whether on private or public land.

Recently, the team have installed several hundred of these solar street lights as part of the Fidjrossè Beach Development Project (PAPF) of which they are a part, as well as along what is Cotonou's main fishing route. As a representative for the company told us: "These achievements have significantly strengthened public safety whilst enhancing the area's tourism infrastructure." This reflects what ESOM is all about – making solar energy more accessible to contribute to Africa's sustainable growth.

"Our mission is to make solar energy accessible, reliable, and sustainable for all, particularly in underserved areas. In a world marked by growing energy challenges, we are positioning ESOM as a key player in bridging the energy divide on the continent – all whilst stimulating local employment and innovation."

In a similar vein, ESOM's design and development of fully autonomous traffic lights – which are also solar powered and wireless – have proven to be equally popular, as they cost around 40% less than traditional traffic lights to acquire. These solutions were designed to help improve the safety of road conditions across Africa, as many nations across the continent suffer from frequent breakdowns and unstable infrastructure.

The final area of expertise demonstrated by ESOM involves solar power plants, where sunlight is converted into electricity using either photovoltaics or concentrated solar energy. The company helps with everything from designing the plants to the building, operation, and maintenance of them, supporting Africa's energy deficit in the process. On the back of this, the team also install solar panels in homes, delivering stable and renewable energy 24/7 to people across the region – making a difference one house at a time.

Across these areas, what sets ESOM apart is its ability to offer robust, sustainable-focused solutions adapted to the unique needs of people and businesses across Africa. This, combined with both its turnkey model (covering everything from design to maintenance) and its strong focus on impact, sees social value added at every turn. Underpinning this is a distinct sense of reliability and, of course, an unwavering sustainable focus.

Guided by these principles, ESOM is set to spend the next 12 months or so expanding its activities to other countries across both West and Central Africa, as well as launching a range of smart solar panels (with features like sensors and remote management capabilities), and establishing robust public-private partnerships across the continent to equip even more urban and rural areas alike with transformative solar lighting and energy.

Anchored to a commitment to providing equitable access to energy, ESOM Green Power Technology's concrete contributions to local, national, and continent-wide development – in addition to its work democratising solar lighting in Africa, have resulted in this company securing its status as more than just a provider of technical solutions. Rather, it is a proactive player, one fostering sustainable development through solar energy.

For more on everything from ESOM's standalone street lights to its solar home installations, simply visit the web address listed below.

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