

Kampala Solar Street Light Power Generation System





Overview

How many smart pole street lights are there in Kampala?

Smart Pole Street Light Kampala Capital City Authority (KCCA) has deployed the city's first-ever smart pole street lights totaling 87. The lights which are anchored on telecom infrastructure have been placed around various places in the city.

How much does street lighting cost in Uganda?

According to the National Roads Authority, there are 2,800 km of urban roads in Uganda. If these were fitted with conventional street lighting, the initial cost would be 896 billion UGX (~238 million USD), further increasing the already unaffordable cost of electricity for the authorities.

Are solar-powered street lights a good idea in Sub-Saharan Africa?

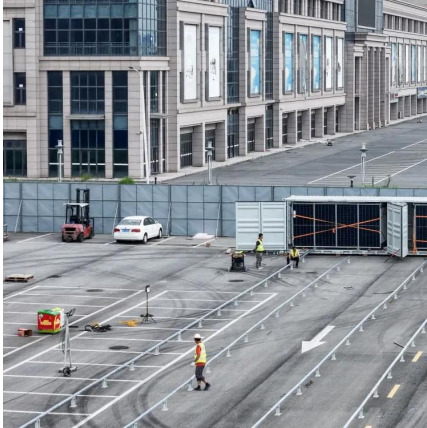
Across sub-Saharan Africa, installing and maintaining solar-powered LED street lights as opposed to conventional grid-based lighting could reduce upfront installation costs by at least 25 percent, electricity consumption by 40 percent and the maintenance costs of lighting by up to 60 percent.

Can solar-powered street lights help a vulnerable population?

In Kibugumbata, Jinja, the co-production of solar-powered street lights has created jobs in the solar sector for a vulnerable population while helping to strengthen existing livelihoods by allowing trading to continue outside of daylight hours and enhancing safety and security in the area.



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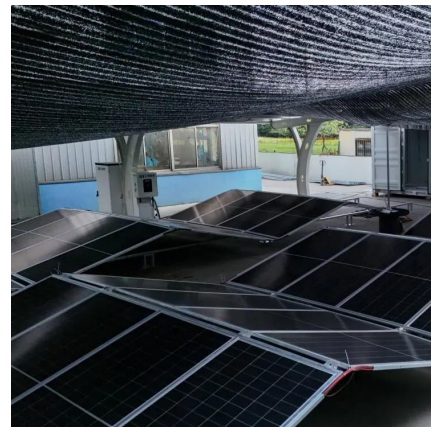
About this policy briefContact the authorsSOLAR ALTERNATIVES TO CONVENTIONAL STREET LIGHTSSUCCESSSES: THE SOCIO-ECONOMIC CASE FOR SOLAR STREET LIGHT ROLL-OUTNATIONAL GOVERNMENTCHALLENGES: MUNICIPAL BUDGET CONSTRAINTS AND OUT-DATED TECHNOLOGYPolicy recommendationsConclusionsDespite the clear economic case and numerous co-benefits for investing in solar-powered street lighting, a number of challenges to their widespread uptake remain. At the investment stage, there is a risk that the technology purchased may be outdated and inefficient because the sector is developing so quickly. There is also a lack of expertise around See more on newclimateeconomy sunna-design

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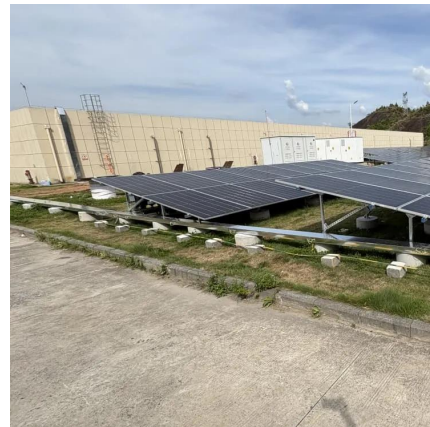


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