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EE-393 Technical Writing

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Solar Powered Microgrids

Problem Statement

The quality of life of life in Africa is impacted by a lack of electricity.

Solution

With the use of solar panels and energy storage solutions, microgrids can be built that can supply electricity to the nearby inhabitants.

Project Specifications

Table 1: Available Solar Panel Sizes

	Small	Rooftop
Size	7" x 7" x 1"	10" X 25" x 1"
Weight	2.5 lbs.	11 lbs.
Cost	500-900	2,500-4,000



Figure 1: Small roof top solar panels

Conclusion

Solar powered microgrids provide an opportunity to teach various forms of engineering while also making an impact to the quality of life for the local residents.