

SUNRISE

Strategic University Network to Revolutionise International Solar Energy



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SUNRISE is an international project to address global energy poverty through the development of next-generation solar technologies.

Summary

While it was declared in 2018 that 100% of India's villages were electrified, it is estimated that 100 million people are still without access to electricity, and in many remote areas issues persist with its quality and affordability. Solar power would seem to be the logical solution to providing affordable, reliable power to areas where the grid connection is poor or non-existent. However, traditional silicon solar panels remain expensive to install and maintain, preventing their wide-scale adoption in low-income areas.

But recent advances in efficient, low-cost photovoltaics now means the deployment of solar in remote locations has become far more viable. SUNRISE plans to take advantage of and build upon these developments through a network of top research teams from across the UK and the Global South. The research will then be implemented in a series of demonstrator buildings in Indian villages powered by affordable, integrated solar technology.

Aims

- To cultivate an international, interdisciplinary collaboration between the best international universities and industries
- To develop advanced renewable energy technologies including, but not limited to, low-cost building-integrated photovoltaics
- To increase the research and delivery capabilities of all partners on an institutional and individual level
- To construct state-of-the-art, custom-fit, solar-powered building demonstrators



Funders



UK Research
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Find out more

Website: <http://www.sunrisenetwork.org/>

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#SolarPowerForAll

