

SOLARBANK

Powering UK's Future



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The glimmering path of the return to energy independence from the United Kingdom is becoming more visible by the day through the synergy of solar energy and Battery Energy Storage Systems (BESS). Not only does this balance help fortify renewable energy reliability, but it also helps strengthen national energy security.

GOVERNMENT'S BOOST

The UK government is aware of the importance of renewable energy, so it has introduced grants and low-cost loans to support homeowners installing solar panels and battery storage systems.

This initiative is part of a larger £6.6 billion Warm Homes Plan aimed at helping the country meet its clean energy commitments by 2030. Additionally, there are considerations to enhance financial incentives for homeowners to sell surplus electricity back to the grid, promoting a decentralised energy model.

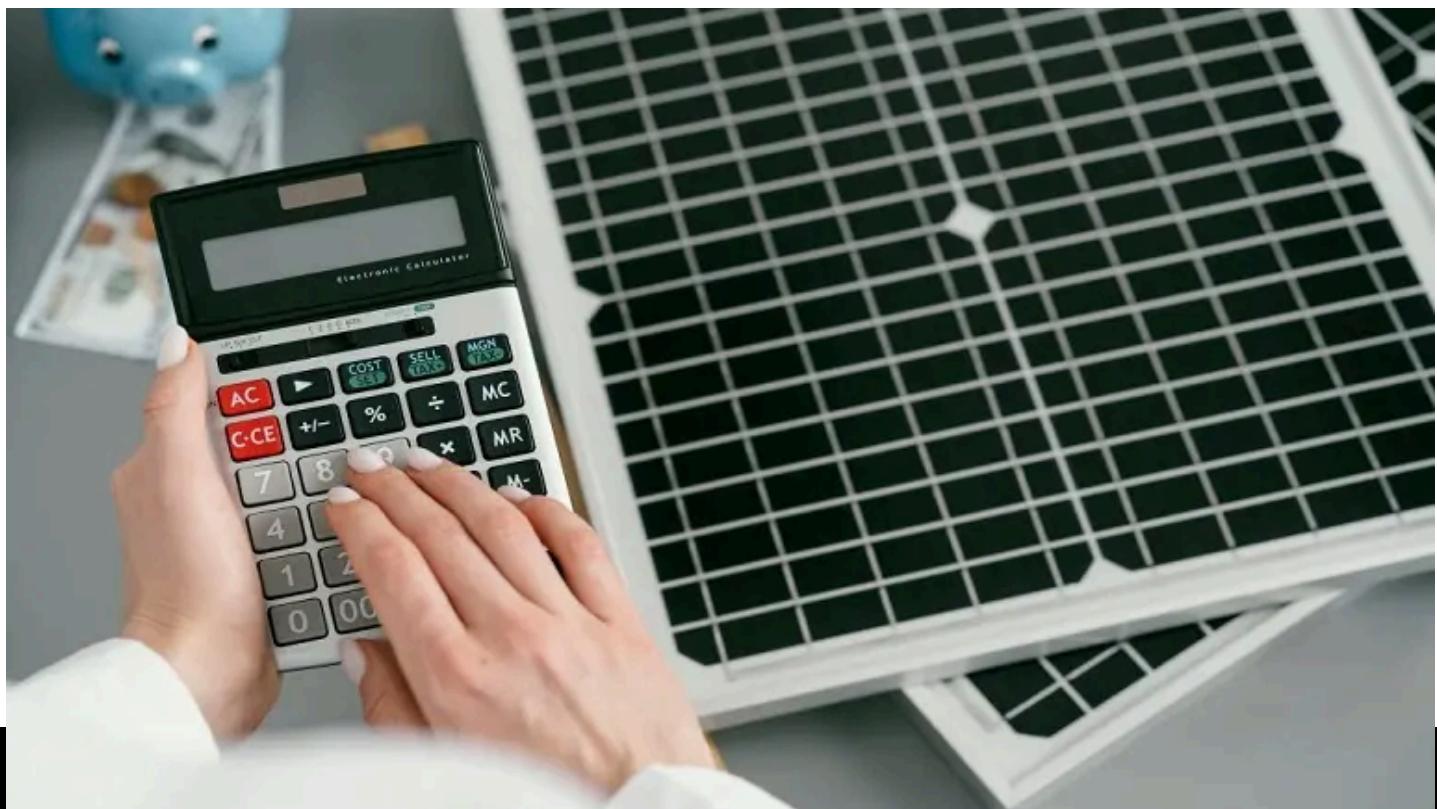
BESS
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HOMEOWNER BENEFITS



Getting solar panels and investing in BESS can save you significantly. Solar panels may save an average household in the southern UK between £600 and £690 a year on their energy bills and may increase property value by over 6%.

While the installation cost is of £6,100, with a payback period of 11-14 years, combining these with heat pumps and high-grade insulation can deliver annual savings of about £1,341 and a sum of £46,612 throughout the average 25-year mortgage term.





GIANT LEAPS

CLEVE HILL SOLAR PARK:

This Anglo-Hong Kong project will become the UK's largest solar and storage project to date, with a 373 MW solar array and a 150 MW/300 MW BESS at the Kent site, and is expected to be operational by late 2025.

RWE'S SOLAR FARMS:

RWE has broken ground on seven new solar and co-located battery projects in England with a capacity of 330 MW of solar and 45 MW of BESS. These projects are formed with an intent to plan for optimal grid utilisation while enabling the UK to gain five times the solar capacity installed by 2035.

LARKS GREEN PROJECT:

The UK's first grid-connected solar and battery energy storage synergy project located in Itchington includes a 70 MWp solar plant integrated with a 49.5 MW/99 MWh battery storage plant to help complement grid stability and fossil fuel reduction. The site will also promote biodiversity, with environmental measures targeting a 25% net gain.



**Cleve Hill
Solar Park**



**RWE's
Solar Farm**



**Larks Green
Project**

TURNING POINTS

In recent years, technological advancements have enhanced the efficiency and cost-effectiveness of battery storage systems. Tesla Powerwall 3, for example, allows homeowners to store solar energy, allowing less dependency on the grid while offering benefits during blackouts and aiding the energy system in the transition to greener energy.



Battery storage is outpacing new fossil fuel plants, fuelling what is being called a "quiet revolution" in the energy industry with projects like a new battery system in Hampshire, South England, which can serve 44,000 homes for 24 hours. However, the market structure might need to change to incentivize more investment into this critical segment.



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WHY UK NEEDS ENERGY INDEPENDENCE NOW!

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