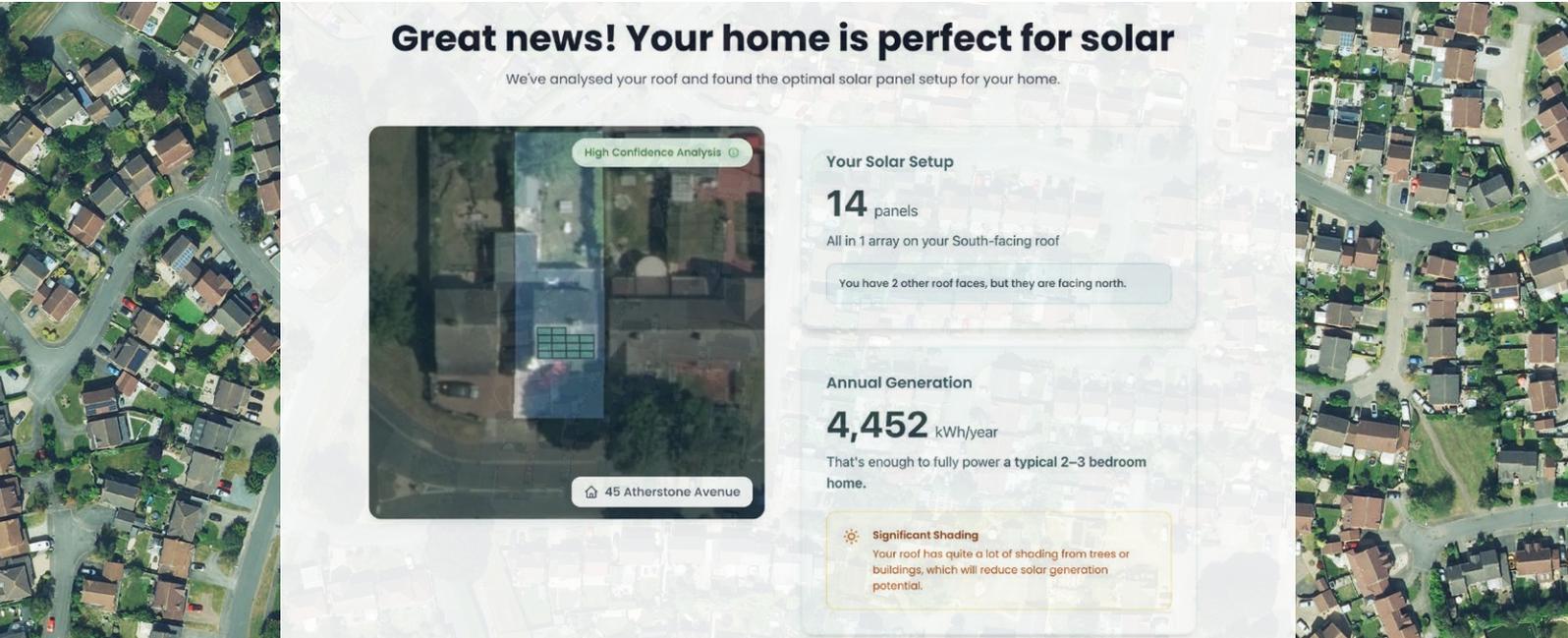


# Case Study



## Kuppa



### Client:

Kuppa

### Industry:

Energy technology platform

### Product:

Aerial Photography and Digital Surface Models via GeoStream

# Kuppa

*“We found Bluesky's data to be the most up-to-date available on the market, but also, importantly, we have found the Bluesky team accessible and an easy to work with company. Having current data is very important as this means we can offer our clients an accurate assessment which, in turn, ensures they are offering their customers viable solutions with realistic costings.”*

Kirsty Kenney, Co-Founder & CEO

### Summary:

Kuppa has created a platform that hosts a digital model of all the UK's housing stock. This has been generated with the aim to support energy companies to identify opportunities for renewable energy integration to simplify and accelerate the adoption of solar power, as well as other sustainable home upgrades, in the UK.

## Challenge:

With an increasing need for the UK to turn to renewable energy in the drive to meet net zero targets, Kuppa identified the need for an accurate, useable model of all UK housing stock to be created that would support energy companies to deliver best value to their customers looking to make the switch to greener energy solutions. To do this, data from various sources was required to establish important details such as highly accurate height information, shading, accessibility and area size.

## Solution:

Bluesky's market leading aerial photography and 25cm DSM (digital surface model) have enabled Kuppa to derive some core building attributes delivered through their innovative platform. Kuppa realised that easy access to data was critical which is why the GeoStream web service was identified as a solution. GeoStream Direct enables subscribers to access data within their own application instantly via a flexible subscription model.

Easy access to Bluesky's data, which is the most current available, has supported Kuppa to deliver its platform which uses advanced algorithms to produce precise system layouts, estimated costs, and deliver performance benefits within seconds.

## Results:

Kuppa launched its new platform in the late summer of 2024 with the announcement of a key customer, EON, subscribing in December 2024.

Leveraging Bluesky's aerial photography, photogrammetry 3D height data via the GeoStream service, Kuppa's software provides energy companies with an accurate analysis of a property's roof

orientation, obstructions, and shading patterns, and then finds a solar panel layout automatically.

The system has the capacity to model sun positions across seasons ensuring panels are placed for year-round efficiency – an automation designed to save time for installers.

	Imagery Specification	DSM Specification
<b>Resolution</b>	12.5cm	25cm
<b>Coverage</b>	England, Scotland, Wales & Republic of Ireland	England, Scotland, Wales & Republic of Ireland
<b>Accuracy XY</b>	± 30cm rmse	± 1m rmse
<b>Accuracy Z</b>	-	± 1.5m rmse
<b>Formats</b>	Include: JPG, TIFF, ECW, SID, KMZ	Include: ASCII Grid, ASCII XYZ, DXF Point, GeoTiff
<b>Standard Projection</b>	British National Grid	British National Grid

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