Inverters already installed in a house

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Without battery storage, a lot of the energy you generate will go to waste. That"s because wind and solar tend to have hour-to-hour variability; you can"t switch them on and off whenever you need them.

He typically uses around 1,800kWh of electricity per year in line with the average noted by UK energy regulator, Ofgem. On average, this works out at just under 5kWh per day.

Mark has neither the financial nor practical means to install renewable technology. However, he can use a home storage battery to take advantage of cheaper off-peak electricity rates, perhaps with the likes of the Octopus Flux tariff.

Due to its compact size, Mark opts for the Giv-Bat 2.6kWh. With an 80% depth of discharge, this gives him 2.08kWh of electricity on a full charge - about two fifths of his daily electricity needs.

He could upgrade to the larger Giv-Bat 5.2. With an 80% depth of discharge, this would give him 4.16kWh of electricity on a full charge. While this option would help him save more on his bills, it could also mean compromising on space in his tiny apartment.

Having done some calculations, Sally decides to install solar panels on the roof of her house to save on energy bills in the long-run. She opts for six panels which produce an average of 1,590kWh of electricity per year or 4.35kWh per day.

Sally opts for an 8.2kWh battery with a 100% depth of discharge. This offers adequate capacity to store the electricity generated from solar. In addition to solar, Sally also charges her battery from the grid.

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