

# Why doesn't my battery fully charge?

Optimisation is designed to save you money and maximise efficiency, so if your battery didn't fully charge, it was likely the best financial decision based on tariffs, solar forecasts, and energy usage.

## Expected home usage

Optimisation analyses your typical energy consumption and optimises battery charging accordingly. If it predicts that you won't need a full battery to cover your usage, it won't charge to 100% (or the set limit) unnecessarily. This helps prevent wasted energy cycles and reduces costs.

## Preparing for solar generation

If a high amount of solar is expected the next day, the system may leave space in the battery to store that free solar energy instead of filling it up with grid electricity. This ensures that you make the most of the self-generated power rather than the grid imports.

## Avoiding unnecessary charging costs

Charging to 100% (or the set maximum charge limit) when it's not needed can sometimes increase costs or lead to unnecessary cycling.

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