How optimisation works

Our optimisation works by looking at information like how much energy you use and generate, the weather forecast, and when electricity is cheaper. Based on this information, it decides the best times to charge and use your battery to save you money on your electricity bills.

Our optimisation will keep adjusting your battery mode every 5 minutes to make you the most savings on your electricity bill. It should do all the things you require. for example, charging overnight in the cheap period and leaving enough space to accept solar charge in the day and selling excess energy.

However, it will be adaptive to your specific circumstances and tariff. Some examples include:

- Charging up less overnight if it forecasts a sunny day with lots of available PV
- Charge to full overnight if your tariff is comparatively really cheap then
- It can forecast you as likely to use a lot of energy in the morning before the sun comes up.

If you change tariff, the optimisation will adjust to this, and will change what it does accordingly. Given this, we don't do things like set up a daily schedule for an overnight charge between two fixed times. Instead, we wait until the overnight period comes, and then our algorithm calculates how much it thinks your battery should charge by, and charges accordingly. We'll show you in the app exactly what we've done, and hopefully it should be clear how the actions that the optimisation took benefited you.
If you'd like some more help, please email us at hello@smug.energy

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