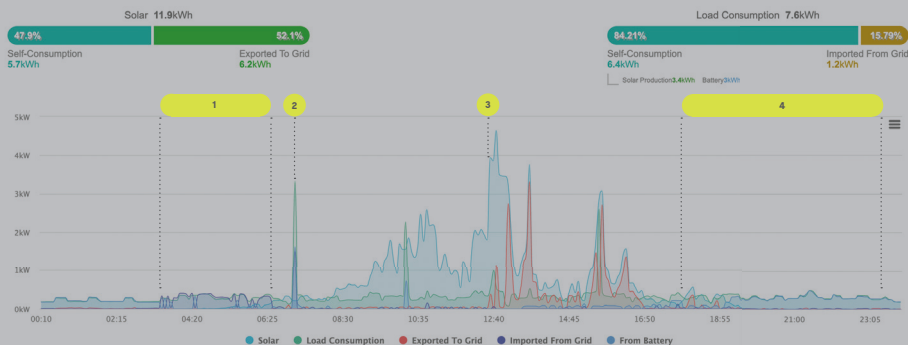


A day in the life of an intelligent net-zero home

REV 27/12/20



Until recently, we have had little choice in how we consume and pay for our domestic electricity. With Wondrwall, that can change – for the better.

We can now create and using self-learning technology, automatically manage our own clean electricity, giving us greater levels of comfort, reducing our bills, and lowering our carbon footprint to net-zero.



- 1** Overnight, Wondrwall has analysed the weather forecast and time-of-use energy tariffs for the day. Combining this information with what it knows about the behaviour of the occupants and the energy performance of the home, the system predicts that it will need to draw 1.2 kWh of electricity from the grid in addition to the predicted solar generation to meet the energy requirements of the family and fully charge the home battery. Wondrwall knows most cost-effective time to do this will be between 2.30am and 6.30am and automatically schedules this task.
- 2** Shortly after 7:00am There is an unexpected energy requirement. The system responds, supplying energy from the battery and importing energy from the grid to meet the extra demand.
- 3** A little after midday. Energy from the PV solar panels exceeds the daily forecast and Wondrwall begins exporting energy back to the grid.
- 4** During the evening peak tariff – Wondrwall powers the house entirely from energy stored in the battery.



wondrwall®

INTELLIGENT LIVING

Intelligent living which doesn't cost the earth



Net-Zero Energy Powered by Self-Learning Artificial Intelligence

Humanity is facing a global climate crisis. With buildings still representing up to 40% of GHG emissions, how we generate and consume energy is one of the most significant contributing factors driving climate change.

Across the world commitments have been made to achieve carbon net-zero by 2050. Which will establish a greener economy that delivers peoples energy needs in a way that is economically-viable and sustainable.

Wondrwall PV Solar Panels are highly efficient and have been aesthetically designed to be suitable for both new build developments and retrofitting existing housing stock.

The solar energy is stored using state of the art battery and inverter technology. Wondrwall lithium-ion home batteries can be charged with free solar energy during the day reducing electricity bills by up to 90%.

The AI-powered Wondrwall Home Automation system tracks wholesale time-of-use energy tariffs ensuring any additional energy requirement drawn from the grid is taken during off-peak periods and stored for use at peak times.

The Wondrwall Hybrid Inverter allows for surplus energy to be traded back to the grid, further reducing your electricity costs.



CLEAN RENEWABLE ENERGY
WHEN YOU NEED IT

CARBON EMISSIONS
REDUCED TO NET-ZERO

INTELLIGENT ENERGY TRADING
SAVING YOU MONEY

To learn more about Wondrwall technology visit www.wondrwall.co.uk