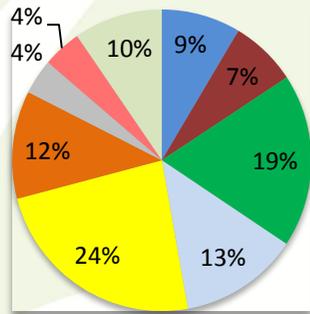


CASE STUDY: 4 BEDROOM SEMI-DETACHED CIRCA 1880, SURREY



Where are the energy costs in this house going?



Key
(labelled clockwise from top in numbered order)

- | | |
|-------------------|------------------------|
| 1 Hot Water | 6 Heating Inefficiency |
| 2 Walls | 7 Roof |
| 3 Appliances | 8 Floor |
| 4 Draughts | 9 Lights |
| 5 Windows / Doors | |

COMMENTS ON THE PROPERTY

The property is a north-west facing two storey semi-detached house, built circa 1880. The picture shows the recent south-west facing extension.

The property is in a conservation area.

WINDOWS

Most of the windows in the property are double glazed windows with moderate efficiency in good condition.

WALLS

All the walls of the original building and the conservatory extension are insulated cavities. The ground floor back bedroom extension has solid 9" brick walls.

ROOF

The main loft space currently has about 200mm of mineral wool insulation. There is around 100mm above the downstairs back bedroom and the kitchen area.

HEATING

The primary heat source is an oil boiler connected to a hot water cylinder and radiator system.

LIGHTS AND APPLIANCES

There are many halogen lamps which can be replaced with low energy alternatives. The electricity use is supplemented by a 4kWp solar photovoltaic array on the side roof.

CLIENT: HARRY NOYES

CLIENT FEEDBACK:

“We have just moved to this Victorian semi from a mid terraced house and were worried about high running costs. Parity has given us a practical list of jobs with costs and savings that that will make a real difference.

Small jobs that I might have postponed suddenly look very worthwhile and will get done soon.

The report has stopped me wasting money on ideas that I had been considering, such as external wall insulation, which turns out to have only a modest effect on our house, while simple things such as upgrading the bathroom fans which I had not thought of will save more money for far less outlay.”

Summary of Bespoke Recommended Packages for this Property

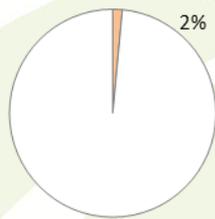
Based on the client's budget, ambitions and timescales we group different measures that we evaluate into bespoke recommended packages in order to show their net effect. This is a high level summary of what could be achieved with the packages we have put together for this property.



No Brainer

Annual saving:	£17
Total cost:	£70
Payback:	4 years

Annual CO₂ saving



Measures that have paybacks shorter than 5 years and cost less than £150 each:

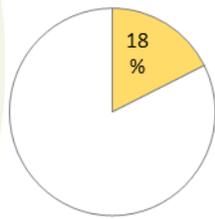
- Change electric kettle for an eco-kettle
- + 1 other measure



Some Consideration

Annual saving:	£205
Total cost:	£1,530
Payback:	7.5 years

Annual CO₂ saving



Measures that have paybacks shorter than 15 years and cost less than £1,000 each.

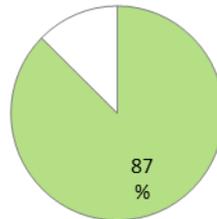
- All 'No Brainer' measures PLUS:
- Replace upright freezer with a new A++ rated alternative
 - + 5 other measures



Green Halo

Annual saving:	£621
Total cost:	£11,670
Payback:	19 years

Annual CO₂ saving



Measures that have paybacks shorter than 25 years and cost less than £10,000 each.

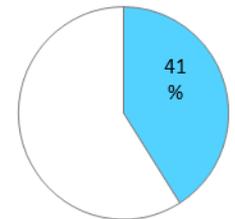
- All 'Some Consideration' measures PLUS:
- Install a voltage optimisation device to drop the mains voltage to 220V
 - + 2 other measures



Automated Green Halo

Annual saving:	£477
Total cost:	£6,270
Payback:	13 years

Annual CO₂ saving



Measures that have paybacks shorter than 25 years and cost less than £10,000 each.

- All 'Green Halo' measures except replacing the biomass heating with:
- Install radiators and pipework in the kitchen/conservatory to heat this area off a new top specification condensing oil boiler

This is just a snapshot of a **Home Energy Masterplan**. The full package gives you a detailed break-down of the different building elements along with your home's existing energy and CO₂ profile and how you compare to similar homes. It then presents the analysis of a large range of energy saving measures across all aspects of your house and how you use it, including estimated costs, £ savings and CO₂ savings, that can be applied to the property and sorts these into bespoke packages depending on your specification. No other product on the market offers such a deep and bespoke analysis of your home.

For more information on the process or to arrange a survey please call our office on 0208 874 6433, or fill out the online enquiry form.

