

Estimated fuel bill savings from heating control upgrades



On 1st October 2026, Ofgem¹ will be introducing a new price cap for gas which will represent a 4% increase in kWh unit rates up to 7.97p (rounded up to 8p for the purposes of savings calculations in the accompanying assessment table. The price cap will likely increase again after 31st December 2026, meaning the intense winter usage period in 2027 will be demanding for consumer budgets.

Investing in heating control upgrades represent the best low cost, high value saving return option for consumers in these difficult times, as demonstrated in the assessment table.

The calculation of the annual gas used for heating can be found on the BEAMA website².

Potential energy savings for TRVs, load and weather compensation are based on tests, the details of which can be found on the BEAMA website³. Savings from smart control are based on a study by the Behavioural Insights Team⁴. A description of the reference temperature control classes (I, IV, V and VI) can be found on the BEAMA website⁵.

All savings are compared to a house with a baseline of a basic timeclock, a Class 1 on/off room thermostat, and manual radiator valves.

		Estimated annual savings				
	Typical cost of heating with a gas boiler	Upgrade radiator valves to TRVs	Room thermostat upgrade			Adding all ticked heating controls
			Load compensation (Class IV)	Load/weather compensation (Class V/VI)	Smart control	
 DETACHED	£1,579	£284	£158	£189	£95	
		✓	✓		✓	£484
		✓		✓	✓	£508
 END-TERRACE/ SEMI-DETACHED	£971	£175	£97	£116	£58	
		✓	✓		✓	£297
		✓		✓	✓	£312
 MID TERRACE	£751	£135	£75	£90	£45	
		✓	✓		✓	£230
		✓		✓	✓	£241
 FLAT	£479	£86	£48	£57	£29	
		✓	✓		✓	£147
		✓		✓	✓	£154
		Estimated savings over 15-year lifetime of the controls				
 DETACHED	£23,685	£4,263	£2,368	£2,842	£1,421	
		✓	✓		✓	£7,253
		✓		✓	✓	£7,618
 END-TERRACE/ SEMI-DETACHED	£14,565	£2,621	£1,456	£1,747	£874	
		✓	✓		✓	£4,459
		✓		✓	✓	£4,683
 MID TERRACE	£11,265	£2,027	£1,126	£1,351	£676	
		✓	✓		✓	£3,448
		✓		✓	✓	£3,622
 FLAT	£7,185	£1,293	£718	£862	£431	
		✓	✓		✓	£2,200
		✓		✓	✓	£2,310

¹ <https://www.ofgem.gov.uk/energy-regulation/domestic-and-non-domestic/energy-pricing-rules/energy-price-cap>

² <https://www.beama.org.uk/resourceLibrary/uk-homes---analysis-of-kwh-gas-consumption-for-heating.html>

³ <https://www.beama.org.uk/portfolios/heating-controls/energy-savings.html>

⁴ <https://www.bi.team/publications/evaluating-the-nest-learning-thermostat/>

⁵ <https://www.beama.org.uk/resourceLibrary/temperature-control-classes-from-eu-energy-labelling-regulation-for-space-heaters.html>

