

# Case Study: Leading University – Oil Filled Electric Radiators Replacement

- **14-Week Energy Savings in Student Accommodation**
- **Location: Two identical student flats, Leading UK University**
- **Data & meter readings supplied by: Energy Manager**
- **Tariff used for calculations: 25.5p/kWh (energy only, standing charges excluded)**

We ran a 14-week trial at the University of Essex, comparing heating costs in two identical student flats. One flat used 7 traditional oil-filled electric radiators, while the other was fitted with 7 NEOS electric radiators. In the flat with oil radiators, students had full control over their heating, resulting in an energy consumption of **2,920.1 kWh** on a **25.5p/kWh** tariff, leading to a total energy-only bill of **£744.62** over the 14-week period. The flat with the 7 NEOS electric radiators, integrated with the Trust Heating app used **680.7 kWh**, saving **2,239.4 kWh** and reducing their energy bill to **£173.58**, a saving of **£571.04** (approximately **76.7%** reduction in energy use and cost) over the 14 weeks.

## What we tested

**Flat A: 7 oil-filled electric radiators, thermostats used at students' discretion**

**Flat B: 7 NEOS electric radiators, run on the Trust proximity heating app**

## Metered energy use & energy-only cost (14 weeks)

### Oil-filled Heater:

- **Energy used: 2,920.1 kWh**
- **Energy cost: £744.62**

### NEOS

- **Energy used: 680.7 kWh**
- **Energy cost: £173.58**

## Savings (NEOS vs oil-filled)

- **Energy saved: 2,239.4 kWh**
- **Money saved (energy only): £571.04**
- **Reduction in energy use and cost: 76.7%**