

ENERGY · CARBON · SUSTAINABILITY

Housekeeping and Quick Wins to Save Energy.



Matt Fulford



Outline

- Introduction and Outline
- House Keeping and Quick Wins
 - Procurement of Energy
 - Set boilers and frost stats correctly
 - Background / Heritage Heating debate
 - Timers
 - Draught proofing
 - Easy to change lighting
 - Water Saving
- Questions



Energy Bills

- No church should be paying 20% VAT or Climate Change Levy (CCL) due to charitable status
- Check ALL bills (especially high winter bills) and if any found to have 20% VAT send in VAT Declaration to supplier (search "<supplier name> VAT Declaration" to find forms on line

Gas Invoice No:



Contract Information *

Contract Type: Valid

Contract End Date: 14th April 2019

Payment Method: Direct Debit

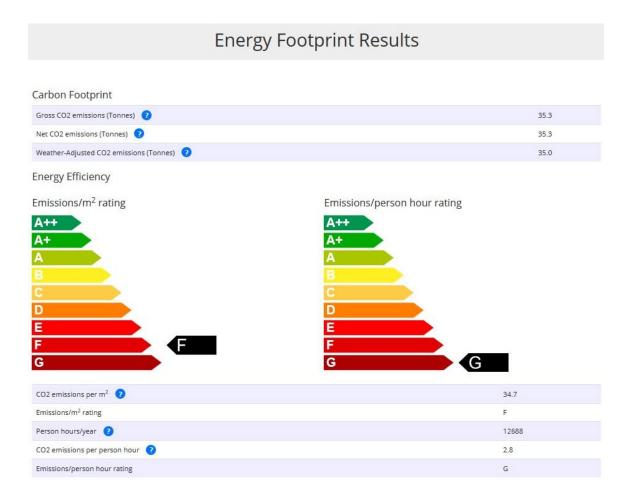
* Please see overleaf for further details

Gas invoice No.	403293	
Bill Date:	4th October 2018	
Due Date:	14th October 2018	
Our Ref:	CE1263341	
Account No:	042055	
Total Gas Cost:	£314.67	
Total Standing Charge:	£0.00	
Climate Change Levy (CCL):	£22.14	>
Sub Total:	£336.81	
VAT @ 5%:	£0.00	
VAT @ 5%: VAT @ 20%:	£0.00 £67.36	>

463295



Understand baseline





Energy Meters

- Check the 'time' on dual rate meters
- As churches typically use more energy in evenings and weekends errors in the time or day can lead to high cost errors





Boiler Controls

- Boiler Burner Settings high flame should be lower temperature than low flame on dual burners
- Frost setting should be only just above freezing point 30% of fuel costs can be due to frost protection



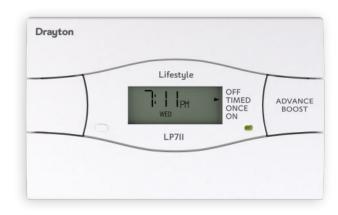






Background Heating

- For low use churches background heating is generally NOT required and can cause more issues than it solves
- Stable temperatures and humidity is more important
- Consider artefacts, wall paintings and organs





Keeping People Comfortable

- Pew Cushions*
- Pew Runners*
- Moving service times and PCC meeting venue in winter







Timers

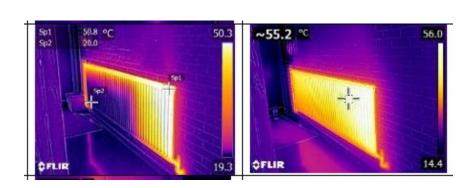
- Hot water units and external lighting suit time clock controls
- For hot water, can simply change the wiring outlet
- External flood lighting (not security lighting), set off time no later than 11pm. Considers days of week, times of year.

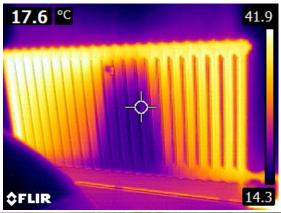


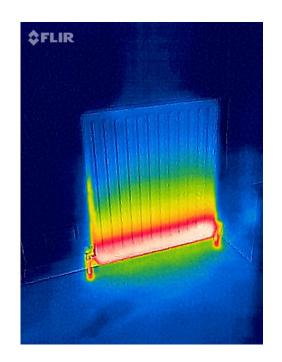




Cleaning and Dusting!









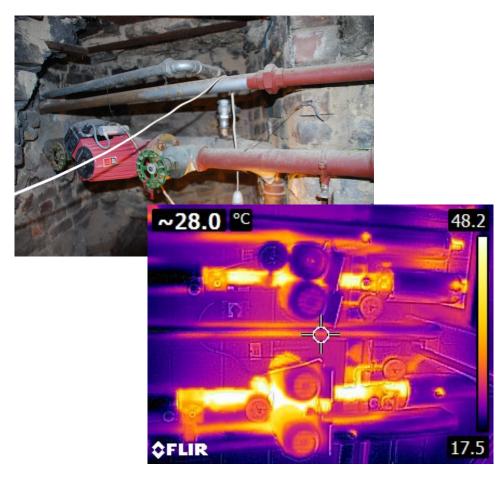


Lagging Pipes

• Boiler rooms should not be the warmest place in the

church!







Draught Proofing

- Doors particularly the base of doors can be solved with a 'sausage dog)
- Key holes fridge magnets can be useful!

• Black plasticine around opening hopper windows









Easy to Change Lightbulbs

- PAR 38 LED
- GLS (check base is Bayonet Cap or Edison Screw)
- Mains GU10 downlights (but not the Low Voltage MR12)
- All others can be changed but may require some level of expertise















Water Saving

- Can get free items from local water companies
- WC bags for placing into cisterns also watch for leaks
- Kits to convert taps to low flow units







Questions?



