

Electric Heating: past, present and future

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Content

The (bad) Old Days
Electric heating now
Brave new world
Electric heating and you

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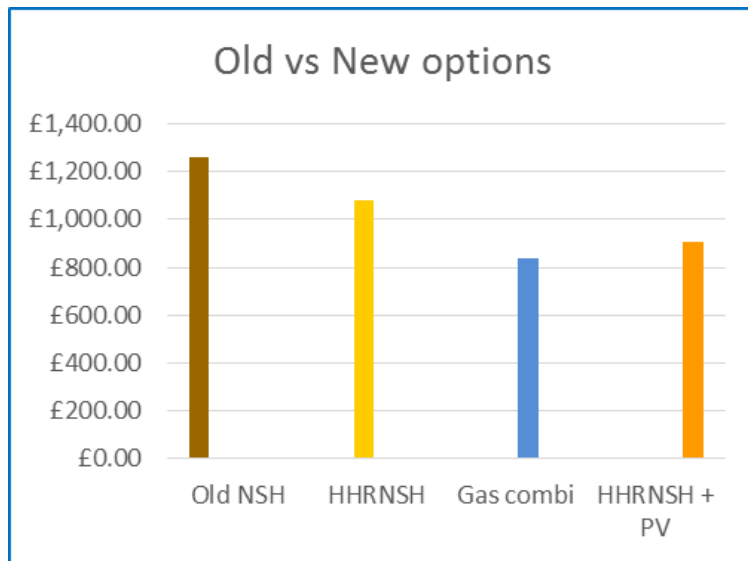
The (bad) old days

- Old storage heaters
 - Didn't really work
 - Limited control
 - Heat leaking out
- Direct electric heating
 - Expensive



Electric Heating Now (savings)

- High heat retention night storage heaters (HHRNSH)
- Better controls
- Better insulation
- Storage heating that works?



Electric Heating Now (value)

- **HHRNSH PLUS**
- Gas combi gives a lower bill to the tenant – but at what cost?
- Potentially at a higher install cost – and with higher operating costs.
- So is it better value?

Stage 6 - Final decision	TENANT	H&C21				
	Lifetime saving	CAPEX	Lifetime H&C21 cost	CAPEX per SAP point	Lifetime cost per SAP point	Tenant saving per H&C21 (lifetime) £ spent
Existing						
HHRSH inc DHW	£4,870	£4,300	£5,300	£148	£183	£0.92
HHRNSH ex DHW	£3,269	£3,300	£4,300	£132	£172	£0.76
Gas boiler	£9,039	£6,000	£8,667	£194	£280	£1.04
GSHP	£10,948	£13,500	£8,536	£365	£231	£1.04
PV & HHRNSH + DHW	£6,545	£6,113	£6,017	£161	£158	£1.09
PV & HHRNSH no DHW	£4,944	£5,113	£5,017	£150	£148	£0.99

Brave new world

- Battery storage
- Smart meters
- Dynamic energy
 - In homes
 - Between homes
- Energy grids
- New tariffs
 - In and export
- We are already:
 - Multiple evaluations of ‘electrically heated homes’
 - Installing batteries
 - Doing energy transfer ‘in-house’ and between homes.
- Next? - Bid for a proper local mini-grid

Electric heating and you?

- Working with
 - The Guinness Partnership
 - Nottingham City Homes
 - Housing & Care 21
 - Places for People
- Slightly different issues, approaches and drivers relating to electric heating.
- This can lead to different 'right' solutions for different organisations.
- Common thread is a new evaluation of what is possible now with electric heating and what should be on the radar.
 - Making properly informed choices that deliver the right solution for your organisation, and specific sites.