

## Annex A: Project Costs

Measure	Cost*	Energy savings (kWh)	Saving as % of annual energy use	Annual financial savings**	Payback (years)
Insulate internal pipework	£4,950	98,550	7%	£9,076	0.55
Insulate external pipework	£825	16,425	1%	£1,513	0.55
Install 115 kW of rooftop solar PV	£383,486	92,150	20%	£30,962	12.67
Install high temperature ASHP CO2	£988,368	340,859	—	-£450	—
Install pool vent integrated ASHP	£371,250	629,731	—	£17,844	20.8
DNO costs	£125,000	N/A	N/A	N/A	N/A
<b>Total</b>	<b>£1,873,879</b>	<b>—</b>	<b>—</b>	<b>£58,246</b>	<b>28</b>
Y1	£949,217				
Y2	£699,796				

\* Cost includes design and engineering, material, installation, enabling, contingency and PM costs.

\*\* Savings based on 9.21p/kWh for gas and 32.84p/kWh for electricity (GLL Q2 2023 energy prices)

Like-for-like replacement cost for gas boilers:

Cost item	Price
Removal of existing equipment	£5,000
New main equipment and control	£56,000
Plinth, pipework, connections, insulation	£25,000
Installation	£25,000
Commissioning	£3,000
<b>Total</b>	<b>£114,000</b>