

*PF - Persistence Factor

Project Type	Work Type	Current PF* (Basic maintenance)
Boilers	Boilers - burner management	6.84
	Boilers - burner replacement	13.50
	Boilers - control systems	6.84
	Boilers - replacement combination	7.22
	Boilers - replacement condensing	14.44
	Boilers - replacement modular	10.83
	Boilers - retrofit economiser	10.83
Building management systems	BEMS - bureau remotely managed	9.00
	BEMS - not remotely managed	6.84
	BEMS - remotely managed	8.42
Combined heat & power	Biomass CHP	7.60
	Gas Turbine	11.40
	Gas, Diesel, gasoil engine CHP	15.20
	CHP Private Wire Connection	30.00
Compressor	Compressed Air: air compressor upgrade	14.44
Computers & IT solutions	CRT to LED monitors	7.20
	Energy Efficient File Storage Replacement	9.00
	Energy Efficient Server Replacement	9.00
	Evaporative cooling for ICT	13.68
	Free Cooling for ICT	13.68
	Hot aisle/cold aisle containment	10.83
	LED monitors instead of LCD (cost difference)	7.20
	Multi Functional Devices	4.50
	Network PC power management	4.00
	Thin client	9.00
	Uninterruptible Power Supplies	18.00
Cooling	Virtualisation	9.00
	Cooling - control system	6.84
	Cooling - plant replacement/upgrade	8.21
	Energy Efficient Chillers	14.44
	Free cooling	13.68
	Replacement of air conditioning with evaporative cooling	13.68
Hand Dryers	Hand Dryers - replacement to more efficient type	8.21
Energy from waste	Anaerobic digestion	15.20
	Incineration	15.20
Heating	Connect to existing district heating via plate HE	28.50

Project Type	Work Type	Current PF* (Basic maintenance)
	Direct electric heating to heat pump (air source)	10.83
	Direct electric heating to heat pump (ground source)	16.72
	Direct electric heating to heat pump (water source)	16.72
	Heat recovery	10.83
	Heating - direct fired system	9.50
	Heating - discrete controls	6.84
	Heating – distribution pipework improvements	15.20
	Heating - TRVs	6.84
	Heating - zone control valves	11.88
	Oil to Gas - boiler fuel switching	7.92
	Replace steam calorifier with plate heat exchanger	28.50
	Steam trap replacements	15.20
	Thermal Stores	18.00
Hot water	Flow restrictors	14.00
	Hot Water - chlorine dioxide dosing and biocide treatment	9.50
	Hot Water - distribution improvements	18.00
	Hot Water - Efficient taps	11.00
	Hot Water - point of use heaters	9.50
Industrial kitchen equipment	Steriliser to dishwasher replacement	10.80
	Energy efficient combi-oven	8.10
	Energy efficient convection-oven	10.30
Insulation - building fabric	Cavity wall insulation	30.00
	Double glazing with metal or plastic frames	28.00
	Dry wall lining	30.00
	Loft insulation	27.00
	Retrofit single glazing units	8.00
	Roof insulation	30.00
	Secondary glazing	7.92
Insulation - draught proofing	Insulation - draught proofing	29.25
Insulation - pipework	Heating pipework insulation (external)	9.00
	Heating pipework insulation (internal)	22.50
Insulation - other	Air Curtains - ambient	11.40
	Air Curtains - heated	10.83
	Automatic speed doors	8.45
	Automatic/revolving doors	8.45
	Draught Lobby (external)	29.25
	Draught Lobby (internal)	29.25
	Radiator reflective foil (external walls)	8.00
Lab Upgrades	Diode pumped solid state lasers	6.80

Project Type	Work Type	Current PF* (Basic maintenance)
	Energy Efficient Drying Cabinets	12.80
	Energy Efficient Freezers (-25°C)	12.83
	Energy Efficient Freezers (-86°C)	8.55
	Energy Efficient Fume Cupboards	16.25
	Energy Efficient Growth Cabinets	10.80
	Fume Cupboards - Auto Sash Closing + PIR	6.84
	Fume Cupboards - VAV Controls + Inverter Drives	10.26
	Heat Recovery on Extract System	10.83
	Energy Efficient X-Ray Generator	10.00
Lighting controls	Lighting - discrete controls	8.89
	Lighting control system centralised	10.26
LED lighting	Compact Fluorescent to LED including new fitting	25.00
	Compact Fluorescent to LED using same fitting	13.00
	Flood lighting to LED including changing the fitting	20.00
	Halogen to LED including changing the fitting	25.00
	Halogen to LED using same fitting	13.00
	Incandescent to LED including new fitting	25.00
	Incandescent to LED using same fitting	13.00
	T12/T8 to LED including new fitting	25.00
	T12/T8 to LED using same fitting	13.00
Street lighting	Fit centralised controls	12.72
	Non-illuminated bollards	30.00
	Replace control gear	12.72
	Replace luminaire incorporating electronic ballast	15.00
	Replace luminaire with LED	20.00
	Solar powered bollards	10.00
Traffic lights	Replace with LED including new fitting	20.00
	Replace with LED using same fitting	10.00
Motor controls	Fixed speed motor controls	11.40

Project Type	Work Type	Current PF* (Basic maintenance)
	Motors - flat belt drives	11.40
	Variable speed drives	10.26
Motor replacement	Motors - high efficiency	15.00
Office equipment	Office equipment improvements for non-ICT	3.00
Renewable energy	Biomass boilers	15.12
	Solar PV	22.50
	Solar Thermal	17.10
	Small Hydropower	22.80
Swimming	Swimming pool covers - manual	7.92
	Swimming pool covers - motorised	8.45
Time switches	Time switches	6.84
Transformers	Low loss	30.00
	Low loss (cost difference)	30.00
	Low loss+voltage management	30.00
	Low loss+voltage management(cost difference)	30.00
	Transformer tapping change	30.00
Ventilation	Fans - air handling unit	23.75
	Fans - high efficiency	14.25
	Phase change material	23.75
	Ventilation - distribution	30.00
	Ventilation - presence controls	6.84
	Ultrasonic Humidifiers	7.22
Voltage management	Voltage management - fixed ratio	19.00
	Voltage management - variable ratio	19.00

Persistence factor methodology:

Persistence factors are the anticipated lifetime of an energy efficiency technology used to calculate lifetime savings. The persistence factor is used in the calculation of cost to save a tonne of CO₂ over the lifetime of an application (£/tCO₂LT).

The Persistence Factors for individual technologies employed by Salix are based on and are consistent with those derived by the Carbon Trust. In early 2009/10 the Carbon Trust undertook a review of the existing Persistence Factor Methodology. Following a consultation in early 2010, a revised model has now been adopted.

If you work for a public sector organisation and are looking for funding for an energy efficiency which is not listed above but you feel fits the Salix criteria for funding, we may be able to add this to our supported technology list. Guidance on our standard process for this can be found on the Salix website at <http://salixfinance.co.uk/knowledge-share/technologies>