

NORTH LINCOLNSHIRE COUNCIL

**HIGHWAYS AND NEIGHBOURHOODS
CABINET MEMBER**

SALIX BID

1. OBJECT AND KEY POINTS IN THIS REPORT

- 1.1 To seek approval to submit a SALIX bid for an interest free loan to deliver the carbon and financial savings outlined in appendix 1
- 1.2 December 2011 saw a government announcement on funding opportunities aimed at reducing carbon emissions. The revised SALIX fund provides a 100% interest free loan and is to be repaid in 8 installments over 4 years, beginning March 2013 on a 6-monthly basis

2. BACKGROUND INFORMATION

- 2.1 “Climate change is the greatest environmental challenge facing the world today. Rising global temperatures will bring changes in weather patterns, rising sea levels and increased frequency and intensity of extreme weather. The effects will be felt in the UK. Internationally there may be severe problems for people in regions that are particularly vulnerable” (DECC 2009).
- 2.1 The Government believes that Local Government has a crucial role to play in tackling climate change. The actions that we take can have far reaching effects on both the environment and the economy. The Government’s ‘Greenest Government Agenda’. Is supporting local authorities by providing finance and support to reduce their carbon emissions and energy costs.
- 2.2 We adopted a Carbon reduction plan in February 2010. This committed us to reduce our carbon emissions by 33% by 2014
- 2.3 We have made a public commitment through the signing of the Nottingham Declaration. This states that we will work to mitigate the effects of Climate Change and plan for how it will need to adapt our services to the effects of Climate Change in the future.

2.4 As part of our ongoing carbon reduction strategy we have identified a list of projects that will reduce our emissions significantly. Unfortunately however, there is no additional internal funding available to deliver these projects.

2.5 The SALIX fund allows us to borrow the money on an interest free basis and deliver the projects outlined in appendix 1. Repayments back to the SALIX fund are delivered through energy savings.

3. OPTIONS FOR CONSIDERATION

3.3 Option1. To submit the SALIX bid and benefit from an interest free loan to deliver the investment and savings outlined in appendix 1. This is the preferred option.

3.4 Option 2.... Not to submit a SALIX bid

4. ANALYSIS OF OPTIONS

4.1 Option 1 is the preferred option as it will deliver the necessary funding to invest in a range of projects that will deliver the savings outlined in appendix 1

4.2 Submitting the bid shows further commitment to reducing our carbon footprint whilst at the same time delivering on the government's efficiency agenda.

5 RESOURCE IMPLICATIONS (FINANCIAL, STAFFING, PROPERTY, IT)

5.1 FINANCE

5.1.1 If successful with our SALIX bid we will be able to borrow on an interest free basis. The loan is repaid from the energy savings made when the projects are finished.

5.1.2 When the repayments are completed, the savings return to the council.

5.2 STAFFING

5.2.1 there are no additional staffing requirements arising from this report. Staff within Infrastructure services will deliver management of the programme of works

5.3 PROPERTY

5.3.1 All the work shown in Appendix 1 will take place on our property.

5.4 IT

5.4.1 There are no IT implications in this report

6. OTHER IMPLICATIONS (STATUTORY, ENVIRONMENTAL, DIVERSITY, SECTION 17 - CRIME AND DISORDER, RISK AND OTHER)

6.1 ENVIRONMENTAL

6.1.1 Climate Change is one of the greatest threats to face us. Even if we act now we are still going to have to adapt to a warmer climate. Not taking action on economic grounds is no longer an option. The Stern review on the Economics of Climate Change showed that by not acting now could cost the country far more in the long term. It is estimated that it could reduce the nations GDP by up to 20% in 2100. Progressing with the work outlined in appendix 1 will contribute significantly to the Councils target of reducing its emissions by 33% by 2014.

6.2 STATUTORY

6.2.1 We are legally required to participate in the Carbon Reduction Commitment Energy Efficiency scheme (CRCEES). The scheme aims to drive down carbon emissions by placing a tax on our carbon emissions. During 2012 we will pay £206,000.

6.3 SECTION 17

6.3.1 There are no section 17 issues in this report.

6.4 DIVERSITY

6.4.1 There are no diversity issues in this report

6.5 RISK

6.5.1 There is a risk that the implementation of the programme of works in appendix 1 could fall behind schedule. This will be overcome by rigorous programme management and ensuring that procurement issues are resolved ahead of schedule

7. OUTCOMES OF CONSULTATION

7.1 There have been internal consultations as part of the wider carbon management programme.

8. RECOMMENDATIONS

- 8.1 It is recommended that the SALIX bid outlined in appendix 1 be submitted and that the Cabinet Team receive updates on the programme

DIRECTOR OF INFRASTRUCTURE SERVICES

Church Square House
P O Box 42
Scunthorpe
DN156XQ
Author: Chris Matthews
Date: 11 January 2011

Background Papers used in the preparation of this report:
Council Report on Scrutiny Review of Greening the Workforce Oct 2010

Organisation:	
Post code:	
Submission date:	

Salix Finance:
SEELS 4 England Project Compliance Tool - version 26 for single fuel projects
 © Salix Finance 2006 - 2011



Example Project																					
#	Start date	Completion date	Site name	Site life (yrs)	Project / description	Salix funding requested	Salix % contribution of total project cost	Energy type	p/kWh	Project Type	Technology - Work Type	Multiple Fuel Check	Annual kWh savings	% kWh savings	Financial savings	Payback in years	tCO ₂ pa	tCO ₂ LT	£/tCO ₂ LT	Compliance	
1	1/2/11	30/7/11	Civic Centre	30	Cavity Wall Insulation	£30,000	100%	Gas	2.25	Insulation - building fabric	Cavity wall insulation	CONTINUE	296,000	12.0%	£6,660	4.50	54.35	1,630.37	18.40	Compliant	
Client Projects																					
#	Start date	Completion date	Site name	Site life (yrs)	Project / description	Salix funding requested	Salix % contribution of total project cost	Energy type	p/kWh	Project Type	Technology - Work Type	Multiple Fuel Check	Annual kWh savings	% kWh savings	Financial savings	Payback in years	tCO ₂ pa	tCO ₂ LT	£/tCO ₂ LT	Compliance	
1	1/4/12	30/10/12	The Angel (Museum)	25	LED refurb	£10,000	100%	Electricity	9.50	LED lighting	T12/T8 to LED including new fitting	CONTINUE	25,000	100.0%	£2,375	4.21	13.12	327.88	30.50	Compliant	
2	1/4/12	30/10/12	Multiple	25	Virtualisation	£130,000	100%	Electricity	9.50	Computers & IT solutions	Virtualisation	CONTINUE	560,000	100.0%	£53,200	2.44	293.78	1,321.99	98.34	Compliant	
3	1/4/12	30/10/12	Multiple	25	replacement to more efficient type	£20,000	100%	Electricity	9.50	Hand Driers	Hand Driers - replacement to more efficient type	CONTINUE	95,000	100.0%	£9,025	2.22	49.84	208.32	96.01	Compliant	
4	1/4/12	30/10/12	CCTV Centre	25	LED refurb	£7,000	100%	Electricity	9.50	LED lighting	T12/T8 to LED including new fitting	CONTINUE	31,200	100.0%	£2,964	2.36	16.37	409.19	17.11	Compliant	
5	1/4/12	30/10/12	Civic Centre & Hewson House	25	External light refurb	£8,000	100%	Electricity	9.50	Lighting upgrades	Induction Fluorescent including changing the fitting	CONTINUE	22,000	100.0%	£2,090	3.83	11.54	230.82	34.66	Compliant	
6	1/4/12	30/10/12	Multiple	25	Traffic Signal lights	£8,000	100%	Electricity	9.00	Street lighting	Replace fitting with LED	CONTINUE	26,800	100.0%	£2,412	3.32	14.06	281.19	28.45	Compliant	
7	1/4/12	30/10/12	Parishes car park	25	Replace flood lights	£4,000	100%	Electricity	9.50	LED lighting	Flood lighting to LED including changing the fitting	CONTINUE	12,000	10.0%	£1,140	3.51	6.30	125.90	31.77	Compliant	
8	1/4/12	30/10/12	Scunthorpe Museum	25	External light refurb	£1,000	100%	Electricity	9.50	Lighting upgrades	Induction Fluorescent including changing the fitting	CONTINUE	5,000	5.0%	£475	2.11	2.62	52.46	19.06	Compliant	
9	1/4/12	30/10/12	Civic Centre	25	roof insulation	£20,000	100%	Gas	9.50	Insulation - building fabric	Roof insulation	CONTINUE ONLY IF SINGLE FUEL	50,000	5.0%	£4,750	4.21	9.18	229.50	87.15	Compliant	
10	1/4/12	30/10/12	Central Library	25	LED refurb	£40,000	100%	Electricity	9.00	LED lighting	T12/T8 to LED including new fitting	CONTINUE	100,000	50.0%	£9,000	4.44	52.46	1,311.50	30.50	Compliant	
11	1/4/12	30/10/12	West St childrens centre	25	LED refurb	£4,000	100%	Electricity	9.50	LED lighting	T12/T8 to LED including new fitting	CONTINUE	10,000	40.0%	£950	4.21	5.25	131.15	30.50	Compliant	
12	1/4/12	30/10/12	Sandfield Resource Centr	25	LED refurb	£4,000	100%	Electricity	9.50	LED lighting	T12/T8 to LED including new fitting	CONTINUE	10,000	40.0%	£950	4.21	5.25	131.15	30.50	Compliant	
13	1/4/12	30/10/12	Tofts Road Day Centre	25	LED refurb	£3,000	100%	Electricity	9.50	LED lighting	T12/T8 to LED including new fitting	CONTINUE	8,000	40.0%	£760	3.95	4.20	104.92	28.59	Compliant	
14	1/4/12	30/10/12	Youth Offending Team,22-24 Cole	25	LED refurb	£6,000	100%	Electricity	9.50	LED lighting	T12/T8 to LED including new fitting	CONTINUE	15,000	40.0%	£1,425	4.21	7.87	196.73	30.50	Compliant	
15	1/4/12	30/10/12	Adult Ed, Holydyke	25	LED refurb	£8,000	100%	Electricity	9.50	LED lighting	T12/T8 to LED including new fitting	CONTINUE	20,000	40.0%	£1,900	4.21	10.49	262.30	30.50	Compliant	
16	1/4/12	30/10/12	Cambridge House	25	LED refurb	£3,000	100%	Electricity	9.50	LED lighting	T12/T8 to LED including new fitting	CONTINUE	6,500	40.0%	£618	4.86	3.41	85.25	35.19	Compliant	
17	1/4/12	30/10/12	Scunthorpe Bus Station	25	External light refurb	£10,000	100%	Electricity	9.50	Lighting upgrades	Induction Fluorescent including changing the fitting	CONTINUE	24,000	40.0%	£2,280	4.39	12.59	251.81	39.71	Compliant	
18	1/4/12	30/10/12	Bottesford Sports Hall	25	LED refurb	£5,000	100%	Electricity	9.50	LED lighting	T12/T8 to LED including new fitting	CONTINUE	12,000	40.0%	£1,140	4.39	6.30	157.38	31.77	Compliant	
19	1/4/12	30/10/12	Millbrook house	25	LED refurb	£2,000	100%	Electricity	9.50	LED lighting	T12/T8 to LED including new fitting	CONTINUE	5,000	40.0%	£475	4.21	2.62	65.58	30.50	Compliant	
20	1/4/12	30/10/12	Small Libraries	25	LED refurb	£7,000	100%	Electricity	9.50	LED lighting	T12/T8 to LED including new fitting	CONTINUE	18,000	40.0%	£1,710	4.09	9.44	236.07	29.65	Compliant	
21	1/4/12	30/10/12	The Hollies	25	LED refurb	£8,000	100%	Electricity	9.50	LED lighting	T12/T8 to LED including new fitting	CONTINUE	20,000	40.0%	£1,900	4.21	10.49	262.30	30.50	Compliant	
22	1/4/12	30/10/12																			
23	1/4/12	30/10/12																			
24	1/4/12	30/10/12																			
Tot						£308,000							1,075,500		£101,539	3.03	547.16	6,383.37			

Definitions:

% kWh saved Clients should include the % kWh they are projecting to save. This is either for the equipment they are replacing e.g. lighting upgrade or for the saving that will be given when new equipment is added in e.g. voltage reduction.

tCO₂ pa Tonnes CO₂ saving per annum **PF** Persistence factor **tCO₂ LT** Tonnes CO₂ savings life time **£/tCO₂ LT** Cost (£) per tonne CO₂ saving life time

Single Fuel Work Types - Version 26

Project Type	Work Type	Current PF (Basic maintenance)	Status/Comments
Boilers	Boilers - control systems	6.84	Also included in multiple fuel Project Compliance Tool
	Boilers - replacement condensing	14.44	Also included in multiple fuel Project Compliance Tool
	Boilers - replacement combination	7.22	Also included in multiple fuel Project Compliance Tool
	Boilers - replacement modular	10.83	Also included in multiple fuel Project Compliance Tool
	Boilers - burner management	6.84	Also included in multiple fuel Project Compliance Tool
	Boilers - retrofit economiser	10.83	Also included in multiple fuel Project Compliance Tool
Building management systems	BEMS - bureau remotely managed	9.00	Also included in multiple fuel Project Compliance Tool
	BEMS - not remotely managed	6.84	Also included in multiple fuel Project Compliance Tool
	BEMS - remotely managed	8.42	Also included in multiple fuel Project Compliance Tool
Combined heat & power	Gas, Diesel, gasoil engine CHP	15.20	Use Multiple Fuel Project Compliance Tool
	Biomass CHP	7.60	Use Multiple Fuel Project Compliance Tool
	Gas Turbine	11.40	Use Multiple Fuel Project Compliance Tool
Compressor	Compressed Air: air compressor upgrade	14.44	
Computers & IT solutions	Network PC power management	4.00	Currently a Salix PF - updated for V26
	CRT to flat screen LCD	7.20	Currently a Salix PF - updated for V26
	Virtualisation	4.50	Currently a Salix PF - updated for V26
	Thin computers	4.50	Currently a Salix PF - updated for V26
	Uninterruptible Power Supplies	18.00	
	Free Cooling for ICT	13.68	
	Evaporative cooling for ICT	13.68	
	Energy Efficient File Storage Replacement	4.50	Currently a Salix PF - updated for V26
	LED monitors instead of LCD (cost difference)	7.20	Currently a Salix PF - updated for V26
	CRT to LED monitors	7.20	Currently a Salix PF - updated for V26
	Hot aisle/cold aisle containment	10.83	Currently a Salix PF
	Multi Functional Devices	4.50	Currently a Salix PF - updated for V26
	Energy Efficient Server Replacement	4.50	Currently a Salix PF
Cooling	Cooling - plant replacement/upgrade	8.21	
	Free cooling	13.68	
	Replacement of air conditioning with evaporative cooling	13.68	
Hand Driers	Hand Driers - replacement to more efficient type	4.18	
Energy from waste	Anaerobic digestion	15.20	Use Multiple Fuel Project Compliance Tool
	Incineration	15.20	Use Multiple Fuel Project Compliance Tool
Heating	Electric to Gas - heating using CHP	15.20	Use Multiple Fuel Project Compliance Tool
	Electric to Gas - heating using condensing boilers	14.44	Use Multiple Fuel Project Compliance Tool
	Electric to Gas - tumble driers	8.40	Use Multiple Fuel Project Compliance Tool This is currently a Salix PF
	Heat recovery	10.83	Also included in multiple fuel Project Compliance Tool
	Heating - direct fired system	9.50	Also included in multiple fuel Project Compliance Tool
	Heating - discrete controls	6.84	Also included in multiple fuel Project Compliance Tool
	Heating – distribution pipework improvements	15.20	Previously 'Heating - distribution improvements' Also included in multiple fuel Project Compliance Tool
	Oil to Gas - boiler fuel switching	7.92	Use multiple fuel Project Compliance Tool This is currently a Salix PF
	Replace steam calorifier with plate heat exchanger	28.50	Also included in multiple fuel Project Compliance Tool
	Thermal Stores	18.00	
	Heating - TRVs	6.84	Also included in multiple fuel Project Compliance Tool
	Heating - zone control valves	11.88	Also included in multiple fuel Project Compliance Tool
	Steam trap replacements	15.20	Added in for V26 Currently a Salix PF
Hot water	Hot Water - distribution improvements	18.00	Also included in multiple fuel Project Compliance Tool
	Hot Water - point of use heaters	9.50	Also included in multiple fuel Project Compliance Tool
Industrial kitchen equipment	Steriliser to dishwasher replacement	10.80	Also included in multiple fuel Project Compliance Tool

Project Type	Work Type	Current PF (Basic maintenance)	Status/Comments
Insulation - building fabric	Cavity wall insulation	30.00	Also included in multiple fuel Project Compliance Tool
	Dry wall lining	30.00	Also included in multiple fuel Project Compliance Tool
	Loft insulation	27.00	Also included in multiple fuel Project Compliance Tool
	Retrofit single glazing units	8.00	This is currently a Salix PF
	Roof insulation	30.00	Also included in multiple fuel Project Compliance Tool
	Secondary glazing	7.92	This is currently a Salix PF
Insulation - draught proofing	Insulation - draught proofing	29.25	Also included in multiple fuel Project Compliance Tool
Insulation - pipework	Heating pipework insulation (internal)	22.50	
	Heating pipework insulation (external)	9.00	
Insulation - other	Radiator reflective foil (external walls)	8.00	
	Automatic/revolving doors	8.45	Also included in multiple fuel Project Compliance Tool
	Automatic speed doors	8.45	Also included in multiple fuel Project Compliance Tool
	Draught Lobby (internal)	29.25	
	Draught Lobby (external)	29.25	
	Air Curtains - heated	10.83	Added in for V26 - Currently a Salix PF Also included in multiple fuel Project Compliance Tool
	Air Curtains - ambient	11.40	Added in for V26 - Currently a Salix PF Also included in multiple fuel Project Compliance Tool
	Lab Upgrades	Energy Efficient Freezers (-25°C)	9.60
Energy Efficient Freezers (-86°C)		5.80	Added in for V26 Currently a Salix PF
Diode pumped solid state lasers		6.80	Added in for V26 Currently a Salix PF
Fume Cupboards - VAV Controls + Inverter Drives		10.26	Added in for V26 - Currently a Salix PF Also included in multiple fuel Project Compliance Tool
Fume Cupboards - Auto Sash Closing + PIR		6.84	Added in for V26 - Currently a Salix PF Also included in multiple fuel Project Compliance Tool
Energy Efficient Fume Cupboards		16.25	Added in for V26 - Currently a Salix PF Also included in multiple fuel Project Compliance Tool
Heat Recovery on Extract System		10.83	Added in for V26 - Currently a Salix PF Also included in multiple fuel Project Compliance Tool
Lighting controls	Lighting - discrete controls	8.89	
	Lighting control system centralised	10.26	
Lighting upgrades	Electronic ballast with dimming control	11.40	
	Replace halogen with HID metal halide	20.00	
	HP Sodium including new fitting	20.00	
	Compact Fluorescent including changing the fitting	20.00	
	Compact Fluorescent using same fitting	10.00	
	Induction Fluorescent including changing the fitting	20.00	
	T5 lighting including changing the fitting	20.00	
	T5 lighting retrofit using adaptors	10.00	
	T8 lighting including changing the fitting	20.00	
T8 lighting retrofit using adaptors	10.00		
LED lighting	Halogen to LED including changing the fitting	25.00	
	Halogen to LED using same fitting	13.00	
	Flood lighting to LED including changing the fitting	20.00	
	Compact Fluorescent to LED including new fitting	25.00	
	Compact Fluorescent 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	Replace fitting, controls with electronic ballasts	15.00	
	Replace fitting with LED	20.00	
	Replace controls including electronic ballasts	12.72	
	Replace controls but not ballasts	8.89	
	Fit centralised controls with electronic ballasts	12.72	
	Fit centralised controls but not ballasts	12.72	
	Solar powered bollards	10.00	Currently a Salix PF

Project Type	Work Type	Current PF (Basic maintenance)	Status/Comments
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	Also included in multiple fuel Project Compliance Tool
	Variable speed drives	10.26	Also included in multiple fuel Project Compliance Tool
	Motors - flat belt drives	11.40	Also included in multiple fuel Project Compliance Tool
Motor replacement	Motors - high efficiency	15.00	Also included in multiple fuel Project Compliance Tool
Office equipment	Office equipment improvements for non-ICT	3.00	Previously 'Office equipment improvements'
Renewable energy	Biomass boilers	15.12	Use multiple fuel Project Compliance Tool
	Heat Pump (Air Source)	10.83	Also included in multiple fuel Project Compliance Tool
Swimming	Swimming pool covers - liquid	8.80	Also included in multiple fuel Project Compliance Tool
	Swimming pool covers - manual	7.92	Also included in multiple fuel Project Compliance Tool
	Swimming pool covers - motorised	8.45	Also included in multiple fuel Project Compliance Tool
Time switches	Time switches	6.84	Also included in multiple fuel Project Compliance Tool
Transformers	Low loss (cost difference)	30.00	Currently a Salix PF
	Low loss	30.00	Currently a Salix PF
	Low loss+voltage management(cost difference)	30.00	Currently a Salix PF Previously 'Low loss+voltage reduction(cost difference)'
	Low loss+voltage management	30.00	Currently a Salix PF Previously 'Low loss+voltage reduction'
	Transformer tapping change	30.00	Currently a Salix PF
Ventilation	Ventilation - distribution	30.00	Also included in multiple fuel Project Compliance Tool
	Fans - air handling unit	23.75	Also included in multiple fuel Project Compliance Tool
	Fans - high efficiency	14.25	Also included in multiple fuel Project Compliance Tool Previously 'Fans - install destratification fans', amended to cover multitude of possible fan projects
	Ventilation - presence controls	6.84	Also included in multiple fuel Project Compliance Tool
Voltage management	Voltage management - fixed ratio	19.00	Previously 'Voltage reduction', now split out in line with Carbon Trust guide CTG045
	Voltage management - variable ratio	19.00	Previously 'Voltage reduction', now split out in line with Carbon Trust guide CTG045
Key	Red means new text or change		

Additionality Criteria

Projects must also be “additional” – i.e. would not have happened without the funding. For projects already part of the agreed and funded maintenance programme, the fund can only support the additional investment needed to select a more expensive energy saving option. This does not prevent projects that have been identified and costed from applying, as long as funds have not been allocated. There are a number of criteria that are used to assess whether a project is “additional”, including:

- Is the project required by legislation? If so it is “not additional”.
- Is it required by Building Regulations or planning officers (e.g. requirement for a percentage of electricity demand in new buildings to be met by onsite renewables)? If so, it is “not additional”.
- Has it already started or has funding already been agreed? If so it is “not additional”.

If the answer to all of the above questions is NO then the project can be funded under the Scheme.

Project Assessment Criteria SEELS 4 – December 2011

The Salix Energy Efficiency Loans Scheme

The Scheme allows public sector bodies to apply for an interest free loan to finance up to 100% of the costs of energy saving projects meeting the criteria set out below. More than one project can be applied for on the project compliance tool.

Project Criteria

All projects must comply with the following criteria:

- it must pay for itself from energy savings within a maximum 5 year period
- the cost of CO₂ must be less than £100 per tonne over the lifetime of the project
- it must also be “additional” – i.e. would not have happened without this funding. See previous tab for more information.
- the payback must be shorter than the expected future life of the building
- it must be completed within the nine months timescale which starts from the commitment from Salix. Those not completed in this timescale will not be funded.
- while Salix will fund compliant projects even if the final cost has differed slightly from the original expected costs, this will only be in the case where the project remains compliant. Submission of the completion certificate will determine the exact value of the project costs and hence provision of the loan.
- the minimum value for any single project is £500 and a total minimum application and loan value of £5,000.

Only those projects which meet the criteria above will be funded.

Project Compliance Tool

To help assess whether projects meet the payback and £100/tCO₂ criteria, Salix provides this Project Compliance Tool. Users input basic information (project costs, estimated savings, technology type and building life expectancy) which is then used to calculate whether the project is compliant.

The Project Compliance Tool contains a list of all the technologies currently funded by Salix. For ease of reference, these are also listed in Annex II at the end of these application notes.

Project Compliance Tool for Multiple fuel Projects

For a selected number of technologies where more than one fuel type is being considered, the client is encouraged to use the project compliance tool for multiple fuel projects.

The completed Project Compliance Tool should be submitted to seelsapplication4@salixfinance.co.uk

Supporting Information

For project values increasing over £25,000, the client is required to support the application with saving calculations, internal business case paper work and evidence of cost basis

For projects over £100,000, a full business case, using the Salix template, will need to be submitted to support the application

Project Ready

Clients should be in a position to be project ready and have clear costs and savings identified with all internal approval needed in place to proceed.

Completing the Project Compliance Tool

In order to complete the Project Compliance Tool, you will need to know:

- the date of expected commencement and completion of the project(s);
- the expected life of the building in which the project is due to be implemented;
- Salix funding requested for each project including any appropriate sub-metering;
- Salix funding requested expressed as % contribution of the total project cost (where a client is not asking Salix for the full amount of the project);
- the average price expected to be paid for energy used in the project over the next 5 years;
- the load used by the existing equipment prior to the change and the load after installation of the new technology so you can enter the annual kWh saving;
- from the above, the % kWh you are projecting to save.

Once you have input this information the Project Compliance Tool tests that each project will pay for itself within 5 years, that the cost of CO₂ is less than £100 (per tonne) over the lifetime of the project and that the project payback is shorter than the expected future life of the building. The final column indicates whether or not the project meets the compliance criteria.

With regards to energy price, please bear in mind that over the course of the next 5 years energy prices may change and the figure used should be one you believe your organisation will be paying, on average, during the period.

All requested data must be completed on the Project Compliance Tool or the application will not be successful.

Persistence Factor Model

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.

Details of the Model methodology and taxonomy can be found on the Carbon Trust's web-site at:

www.carbontrust.co.uk/cut-carbon-reduce-costs/calculate/carbon-footprinting/Pages/persistence-factor-modelling.aspx

Date	Ver	Change	By
Nov-11	26	Developed from Compliance Tool v25.1 New DEFRA carbon conversion factors Improved PFs for some ICT work types Additional work types (denoted in red) Additional work types can now be used in Multiple Fuel tool Site life can now only be entered as numerical value Some minor formatting fixes in percentage fields 'Voltage reduction' renamed to 'Voltage management - fixed ratio' and 'Voltage management - variable ratio' in line with Carbon Trust guide CTG045	CM
Jan-11	25.1	Assessment Criteria sheet revised	CM & PS
Dec-10	25 RF SF	Developed from Ring-fence Fund Compliance Tool v24 Additional ICT, lighting & transformer work types added in CO2 factors revised to reflect new figures from DEFRA New functionality to support clients decision when to use single fuel or multiple fuel project compliance tool PFs & carbon conversions columns hidden in main tool	PS & MD
22-Jul-10	24	New Persistence factors and revised PF Model text Addition of Project Type column to main sheet Removal of following Work Types: Heating - controls in leisure centres/swimming pools Perlite based surface filtration Double glazing Cooling pipework insulation Addition of following Work Types: Uninterruptible Power Supplies Free Cooling for ICT Evaporative Cooling for ICT HP Sodium lighting with fitting A number of technologies being placed 'under watch' Additionality Criteria sheet added	PS & MD
11-Jan-10	23	CO ₂ factors revised in accordance with Defra Sept 2009 update. % energy savings column added to Compliance Tool for applicant input. Work types for boiler economiser, induction lighting, automatic speed doors added along with technical support notes. Work type cast iron boilers removed. Work type <i>T12 to LED</i> changed to <i>T12/T8 to LED</i> . Revised PF methodology text.	PS & MD
28-Sep-09	22	New project & work types added along with technical support notes	PS
17-Nov-08	21	New PFs released after Atkins assessment work	PS & RS
01-Jul-08	20	Major revision with new technologies & latest CO ₂ figures. Price range for p/kWh increased	RS
02-Oct-07	19	Major revision with rationalised technology list	RAH & PS
13-Aug-07	18F	CO ₂ factors revised to reflect new figures from DEFRA	RAH
15-Jun-07	18E	Network Power Management added	RAH
14-Jun-07	18D	Presence detection removed	RAH
25-May-07	18C	Air compressor upgrade added	RAH
09-May-07	18B	Changes to BMS categories	RAH
12-Apr-07	18A	Range for PF data table increased to pick up voltage reduction	RAH
19-Mar-07	18	Corrupt values corrected and 4 new types added	RAH
12-Mar-07	17	Start date column added	
14-Feb-07	16	Additional technology type	RAH
12-Feb-07	15	Drop down box for selecting fuel & power costs added	RAH
25-Sep-06	05	Persistence descriptors refined	RAH