

EAUC Annual Conference University of Leeds 23 - 25 March 2015

CHALLENGING CONNECTIONS

incorporating the Student Sustainability Summit, Further Education Sustainability Summit and Transformational Leadership Summit

Exchange A3: Salix and EAUC College Energy Fund

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Further Education SUSTAINABILITY 24 March S University of Leeds

Salix Finance: **Further Education** Colleges Fund

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Technical Support Officer

Alannah Powell

PR & Marketing Executive

Conference Sponsor

Summit Sponsor

A partnership between









Agenda



- Background to Salix
- Knowledge Sharing and Case Studies
- The Success of the Salix College Energy Fund
- Case Study: City College Plymouth
- Further Funding
- How to Apply
- Q&A



Background to Salix



CELEBRATING 10 YEARS
WORKING WITH THE PUBLIC SECTOR



Who We Are



- Established in 2004
- Independent, publicly funded, not-for-profit company
- 100% interest-free capital finance for the public sector
- Funded by DECC, DfE, Scottish Govt, Welsh Govt



Salix Sectors Include...



- Academies
- Emergency services
- Further education
- Higher education
- Local authorities
- NHS trusts and Foundation trusts
- Schools





Growth from 2004-2015





19 £3.4m client pilot funding schemes allocated

£932,029 energy savings

£90m

5,865 annual tCO₂

projects

503

2015

1,0740 clients supported

£342m

funding energy allocated savings

500,000

annual tCO₂ 12,729

projects

Data as January 2015



How We Can Help



- Engage and visit clients
- Offer technical support
 - Help put together applications and business cases
 - Adds extra assurance as projects are tested by Salix and Atkins
- Workshops and Networking
- On going client support through process



Knowledge Sharing



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Case Studies & Website Resources



Website Resources for Colleges



- Specific page dedicated to colleges for support and learning
 - Application notes
 - Compliance criteria
 - Webinar
- Project knowledge slides
- Case studies

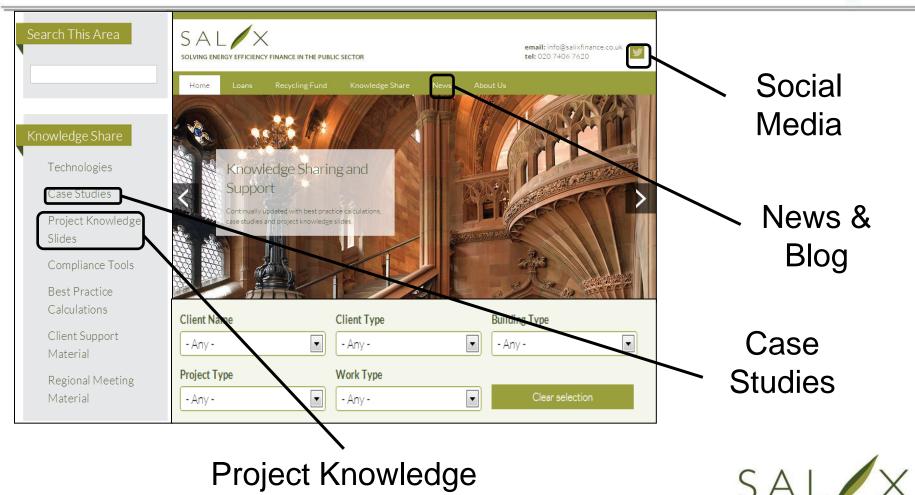


www.salixfinance.co.uk/loans/Salix-College-Energy-Fund



Knowledge Sharing





Slides

Salix Project Case Studies





Project overview Kings College Hospital, used a Salix 100% interest free, capital finance SEELS loan of £96,327 to install a new state-of-the-art, cost effective, LED lighting solution.



lighting upgrade.

Kings College Hospital, had a to deliver a financially strong and carbon effective hospits Annual & savings Knes College Hountal to assess



Adur and Worthing used a £297,202, 100% interest free, capital finance loan to deliver a range of energy efficiency projects across different sites. This is how they did it with Salix.

Project overview Salix helped Adur and energy efficient LED lighting. air conditioning and heating upgrades, which saved them over £90,000 on their annual energy costs.



Adur and Worthing Council had a clearly defined corporate objective to reduce their annual energy costs across all of their sites. Adar and Worthean had the different projects through which to improve energy efficiency in community buildings. worked with Adur and Worthing staff who presented a solid busine case which illustrated the immediat and long-term savings potential of

Annual & savings

SAL

Stafford Further Education College used a £320,829, 100% interest free, capital finance SEELS loan to implement a new energy efficient boiler and lighting projects. This is how they did it with Salix.

Project overview Stafford Further Education College used a Salix 100% interest free capital finance loan of £320,829 to replace their oil fired heating with a new energy efficient gas boiler and also install new energy efficient lighting.



Stafford Further Education College faced tough medium-term financial cuts, so they needed to find an effective way to help manage rising.

The Salts compliance tool highlighted annual energy cost savings of over £81,200 and significant annual carbon emission savings of 394 tonnes

Annual & savings

SALIX

Salix are always looking to celebrate exemplar projects by producing case studies for knowledge share

Salix Previous Work With Colleges



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Salix and Further Education



Work in the FE sector since 2004

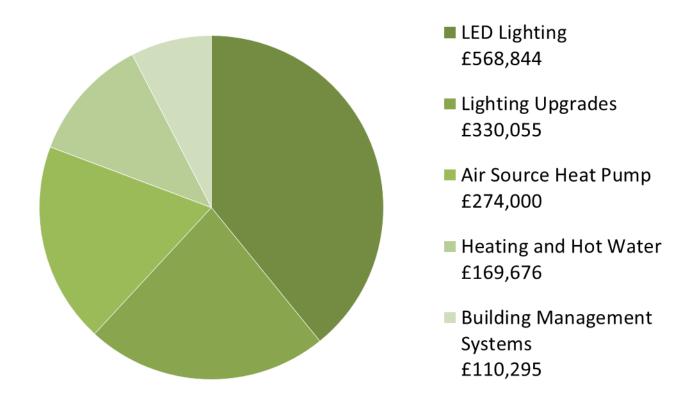
- Worked with 201 Colleges in England, Scotland and Wales
- Funded 1,482 projects worth £31 million
- Lifetime savings predicted at:
 - £81 million
 - 527,873 tonnes of CO₂



Salix and Further Education

CHALLENGING CONNECTIONS 23 = 25 March 2015

Top 5 Technologies Funded



*for financial years 2012/2013 to end of Quarter 2 2014/2015



Salix College Energy Fund



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Salix College Energy Fund



- In partnership with the EAUC and supported by the AoC
- £5million of funding made available for FE Colleges
- Funding intended to help reduce carbon emissions and create financial savings
- Project Compliance Criteria
 - Up to a 5 year payback
 - Up to £100/tCO₂ over the life time of the project



Salix College Energy Fund



- 30 colleges applied
- Currently awarded £3,487,114 for 55 projects
- Largest submission valued at £336,036
- Smallest submission valued at £12,000
- Lifetime savings predicted at:
 - £15,254,729
 - 77,033 tonnes of CO₂



Split by Region





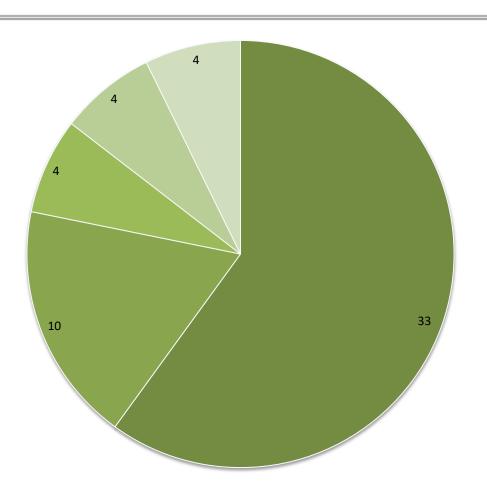
	No. of
Region	Colleges
South East	4
London	3
South West	5
North West	1
East of England	4
West Midlands	4
Yorkshire	4
East Midlands	4
North East	1
Total	30



Top 5 Technologies

EAUC/SALIX Colleges Programme 14/15 FY





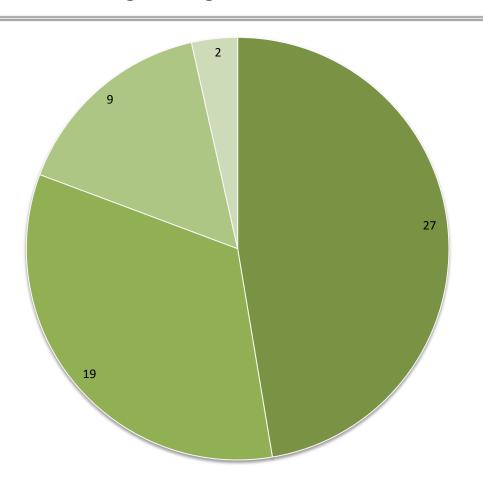
- 1. LED lighting 33
- 2. Boiler Replacements 10
- 3. Building Management Systems 4
- 4. Insulation Building Fabric 4
- 5. Pipework Insulation 3



Value of Projects

EAUC/SALIX Colleges Programme 14/15 FY





- 1. £12,500 £100,000 **27** projects
- 2. £100,001 £200,000 **19 projects**
- 3. £200,001 £300,000 **9 projects**
- 4. £300,001 £350,000 **2** projects



Hull College Project Example

Project overview

Salix awarded Hull College £336,036 to fund lighting and cooling measures at the Queens Garden Campus. The project is set to save the college £69,489 of their annual energy bill.

Pre Project Conditions –

- Lighting in 1950's tower block predominantly T12/T8 fluorescents
- Some areas not covered by lighting controls lights left on longer than required
- Refrigerant cooling system in data centre
- Running costs of £96,968 per year





Hull College Project Example

Project overview

Salix awarded Hull College £336,036 to fund lighting and cooling measures at the Queens Garden Campus. The project is set to save the college £69,489 of their annual energy bill.

Salix Funded Solution –

- Evaporative cooling, LED lighting and lighting controls proposed.
- £69,489 annual financial saving
- Saving 373.49 tCO₂ per year
- Project to pay back within 4.84 years





Stratford upon Avon College Project Example

Project overview

Stratford have been awarded £67,554 to deliver an LED lighting and upgrade their BMS system.

Salix Funded Solution –

- BEMS to offer enhanced control of heating and air conditioning plants
- £19,059 annual cost saving
- Project payback of 3.54 years
- Saving 114 tCO₂ per year







Stratford upon Avon College Project Example

Project overview

Stratford have been awarded £67,554 to deliver an LED lighting and upgrade their BMS system.

Salix Funded Solution –

- BEMS to offer enhanced control of heating and air conditioning plants
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- Project payback of 3.54 years
- Saving 114 tCO₂ per year







Feedback on Submissions



- Overall applications have been of a high standard
- The most effective projects had clear and concise savings calculations
- Common points we queried as part of our checks:
 - Using the multiple project site tool to group projects
 - Checking figures on compliance tools matched with supporting information
 - Energy prices and using an average over the payback of a project



Feedback on Submissions



For lighting projects –

- How the operational hours for projects were estimated
- Whether operation would vary between rooms and buildings
- If lighting controls were included some information around the processes used to estimate savings
- Understanding whether lighting controls were integrated or separate from new light fittings



Feedback on Submissions



- For Boiler replacement projects
 - How efficiencies for boiler system had been estimated
- For fuel switch projects
 - Checking conversation factors used to convert quantities of fuel to kWh consumptions (e.g. converting litres of oil to kWhrs)
- For BEMS and heating control projects
 - How percentage savings had been shaped around site specific factors/ surveys



Salix Workshop



City College Plymouth



Gilbert Snook, Head of Estates





City College Plymouth



- 2 x main sites (Kings Road & Goschen)
- 2 x small satellite sites
- Kings Road the largest at approx. 25,000m²
- Energy use across whole Estate
 - Electricity: 2,500,000 kWh
 - Gas: 2,600,000 kWh



Previous Projects



- Boiler Replacement (£177k) 2 x old oil fired and 1 x gas fired replaced with 4 x condensing boilers
- Upgrade and additional BMS controls to some buildings (£33k) provided modern, more flexible and more extensive control of heating & ventilation
- Cavity wall insulation (£12.5k) reduce heat losses



Application Process



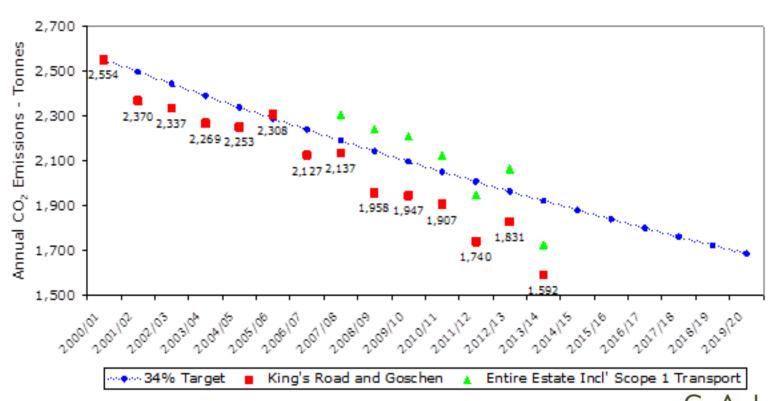
- Identifying suitable projects robust energy management is key
- Preparation of information for compliance tools takes time and will involve calculations
- Compliance tools are easy to use and uploading documents to Salix website is straightforward
- Post application Salix will assess the technical merits of the application so prepared to provide more information



Why We Do It



Overall Estate -Carbon Performance vs Target



Further Funding



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New Funding for Colleges In England



- In partnership with the EAUC and supported by the AoC
- Promote energy efficiency in the further education sector
- <u>£5 million</u> of funding for Further Education Colleges
- Funding round closes <u>Tuesday 30th June</u>
- <u>Early applications welcome</u> and projects will be assessed on submission
- Funding will be awarded as projects are passed



Eligibility and Compliance Criteria



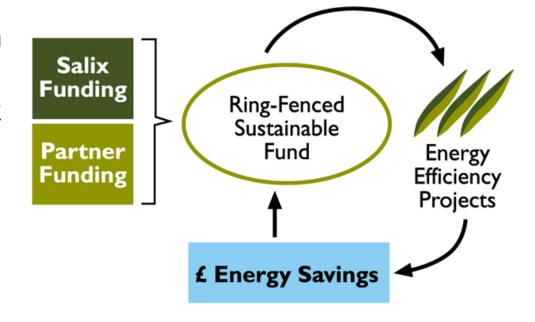
- Any FE College who receives a majority of their income directly from the public sector
- 6th Form Colleges eligible
- Project Compliance Criteria
 - Less than a 5 year payback
 - Less than £100/tCO2 over the life time of the project



New Funding for Colleges In Scotland



- We are taking expressions of interest for Revolving Funds
- Project Compliance Criteria
 - Up to an 8 year payback
 - Up to £200/tCO2 over the life time of the project





How to Apply



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Five Steps for a Salix FE College Application



- Go to the Salix website <u>www.salixfinance.co.uk</u> and select the Salix College Energy Fund
- 2. Complete an online application form
- Complete our simple Compliance Tool with project details (and Salix business case for projects over £100k)
- 4. Submit your application online
- 5. Salix will do a technical assessment



Completing the Compliance Tool



	Compliancy Criteria :					C	ΛΙ		(\						
Payback 5 years 5 A L															
S	SOLVING ENERGY EFFICIENCY FINANCE IN THE PUBLIC SECTOR														
j.						FINANCE	IN THE	ORLIC 2E	CTOR						
*s	Annual kWhrs	Annual kWh	1	Financial	Payback in	2		3	4						
>	Post-Project	savings	% kWh savings	savings	years	tCO₂ pa	PF	tCO ₂ LT	£/tCO₂ LT	Compliancy					
0	60,000	140,000	70.0%	£13,300	4.51	75.25	25.00	1,881.18	31.89	Compliant					

Organisation:	
Programme:	
Applicant Type:	

Salix Finance:

Single Fuel Compliance Tool Version 29

Salix Finance 2014

Compliancy Criteria:	
Payback	
£/tCO2 LT	



Ex	<u>mple Pro</u>	ject					Salix %								1			2		3	4	
#	Start date	Completion date	Site name		Project / description	Salix funding requested	contribution of total project cost	Energy type	p/kWh	Project Type	Technology - Work Type	Annual kWhrs Pre-Project	Annual kWhrs Post-Project	Annual kWh savings	% kWh savings	Financial savings	Payback in years	tCO ₂ pa	PF	tCO ₂ LT	£/tCO ₂ LT	Compliancy
1	1/8/14	30/10/14	Civic Centre	30	LED lighting upgrade	£60,000	100%	Electricity	9.50	LED lighting	T12/T8 to LED including new fitting	200,000	60,000	140,000	70.0%	£13,300	4.51	75.25	25.00	1,881.18	31.89	Compliant
C	ent Proje	ects					Salix %															
#	Start date	Completion date	Site name		Project / description	Salix funding requested	contribution of total project cost	Fnorm	p/kWh	Project Type	Technology - Work Type		Annual kWhrs Post-Project	Annual kWh savings	% kWh savings	Financial savings	Payback in years	tCO ₂ pa	PF	tCO ₂ LT	£/tCO ₂ LT	Compliancy
_																						
2																						
,																						

Loan Management



- A Commitment Letter will be issued once project has passed
- Loan Agreement and Direct Debit Mandate to be signed
- Loan paid at completion of project
- Interim payments possible if required by supplier
- Loan repaid over 4 years (direct debit April & October)
- Salix take an active approach in visiting clients and can engage with finance departments



Summary



- Early applications welcome and will be tested on submission
- Applications will be accepted up to <u>30th June 15</u>
- Projects are to be completed by <u>March 2016</u>
- Taking expressions of interest for Scottish colleges <u>Revolving</u>
 <u>Funds</u>
- Salix take an active approach in <u>visiting clients</u> and can engage with finance departments and directors



Thank you





Please contact the Further Education Colleges Team for further information

E-mail: fecolleges@salixfinance.co.uk

Phone: 0207 406 7620



Challenging Connections

