



Reducing energy bills and improving college estates

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Northampton College



100%
INTEREST
FREE
CAPITAL
FINANCE
LOANS

Salix Finance

LOVE OUR
COLLEGES

*Reducing Energy Bills and Improving
College Estates with Salix Finance*

17th October 2019



Department for
Business, Energy
& Industrial Strategy



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SOLVING ENERGY EFFICIENCY FINANCE IN THE PUBLIC SECTOR

Agenda

- ✓ Introduction
- ✓ Our work with further education institutions
- ✓ Salix Energy Efficiency Loan Scheme (SEELS)
- ✓ Preparing for the future
- ✓ Presentation from Bob York at Northampton College
- ✓ Application process and support



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Salix Overview

- ✓ Independent, non-profit publicly-funded company making a difference since 2004
- ✓ Our mission is to reduce public sector carbon emissions and energy costs through energy efficiency within the UK
- ✓ Salix provides **interest free funding** to accelerate investment in energy efficient technologies
- ✓ Other public sector clients in addition to further education institutions include:
 - ✓ Universities, schools & academies, local authorities and NHS trusts

✓ Funded by



Department
for Education



Department for
Business, Energy
& Industrial Strategy



Llywodraeth Cymru
Welsh Government



The Scottish
Government

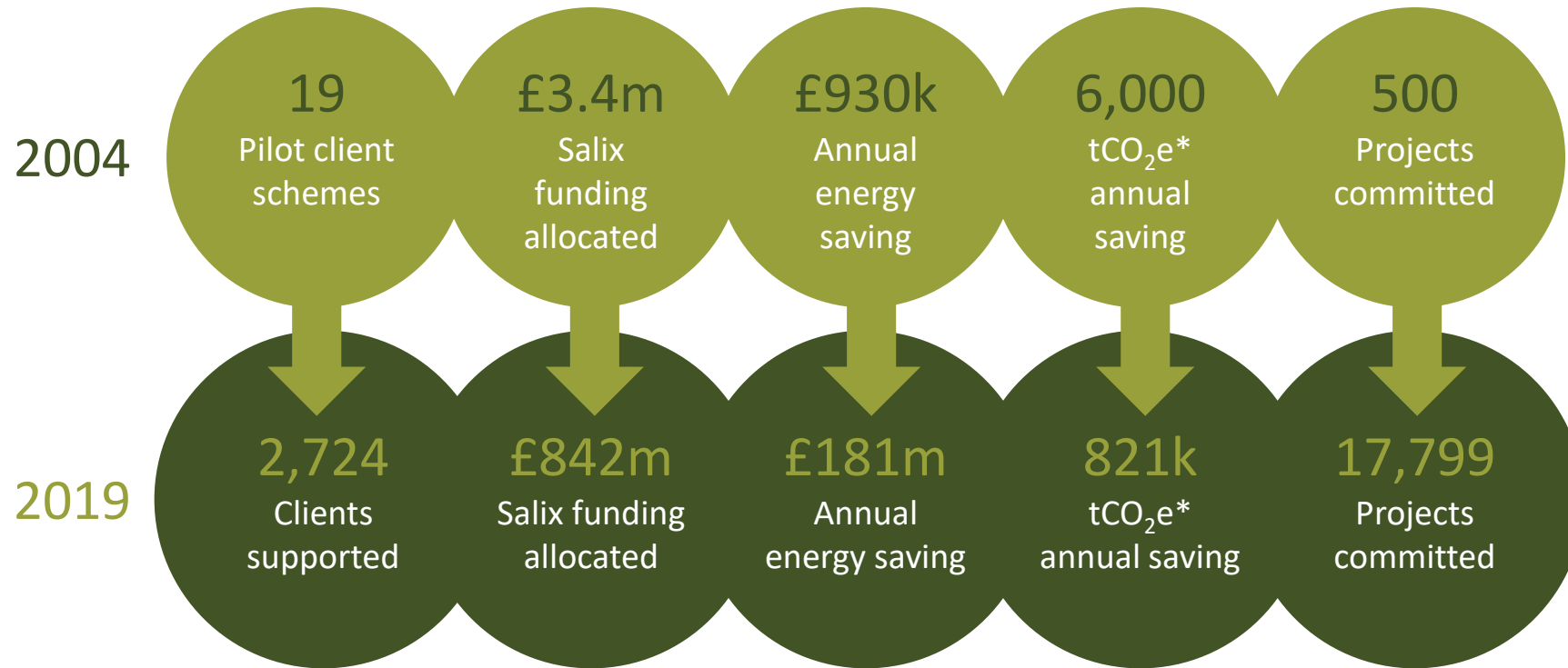


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Making a Difference from 2004 to 2019



Figures accurate as of March 2019

**calculated using emissions factors published by government for carbon foot printing purposes*



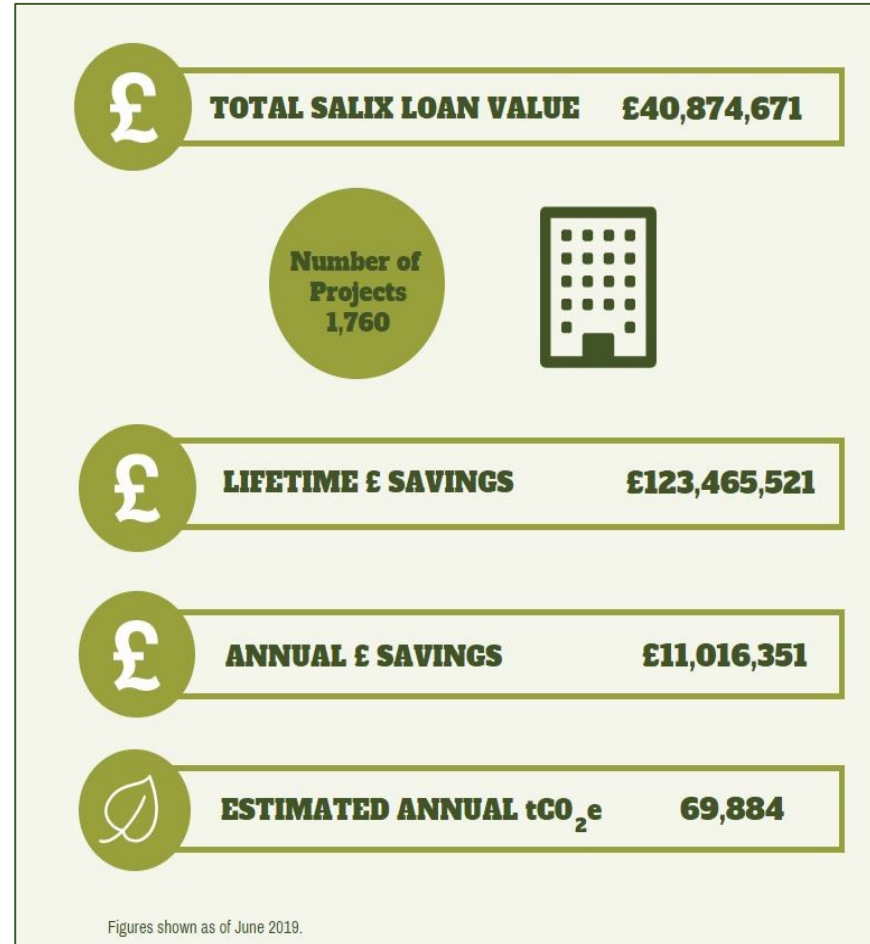
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Salix Work with Further Education Institutions



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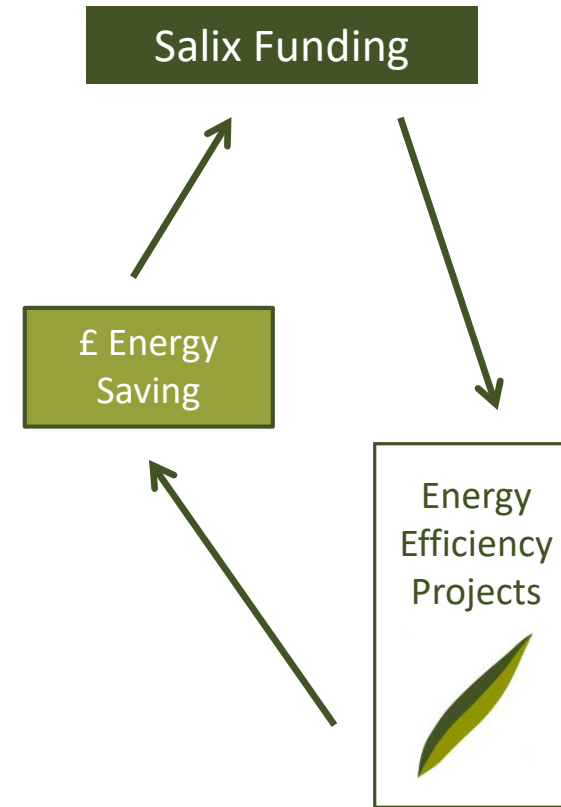
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Salix Energy Efficiency Loan (SEELs)

- ✓ Interest free loan for energy efficiency projects
- ✓ Up to 100% of project costs
- ✓ Compliance criteria:
 - ✓ £191/tCO₂eLT
 - ✓ Loan is repaid over 5 years
 - ✓ Project must be “additional”

Additional costs that can be included in a Salix loan..

- ✓ Project capital costs
- ✓ Enabling works
- ✓ Project design
- ✓ Cost of metering
- ✓ Supplier/contractor fees



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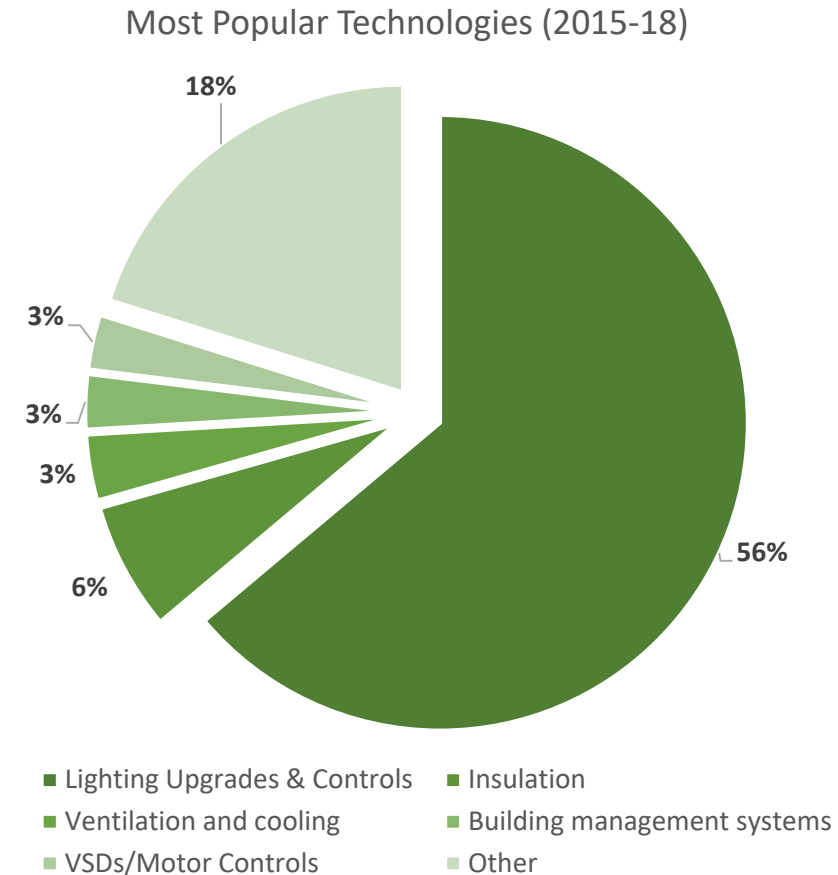
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Salix Funded Technologies in Further Education

- ✓ LED Lighting
- ✓ Insulation – pipework
- ✓ Ventilation and cooling
- ✓ Building Management Systems (BEMS)
- ✓ Lighting controls
- ✓ VSDs/motor controls
- ✓ Others (fabric insulation, ICT upgrades, lab upgrades)



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Salix & Further Education in the Future

- ✓ **15 HE & FE institutions have declared a Climate Emergency**

- ✓ Funding available to support estates masterplans in achieving carbon reduction targets

- ✓ Salix technology list to expand driven by interest in the public sector, potentially...

- ✓ Lab upgrades

- ✓ Electric vehicles

- ✓ Control optimisation

- ✓ Currently funding Solar PV

- ✓ Including projects where part of the energy may be exported



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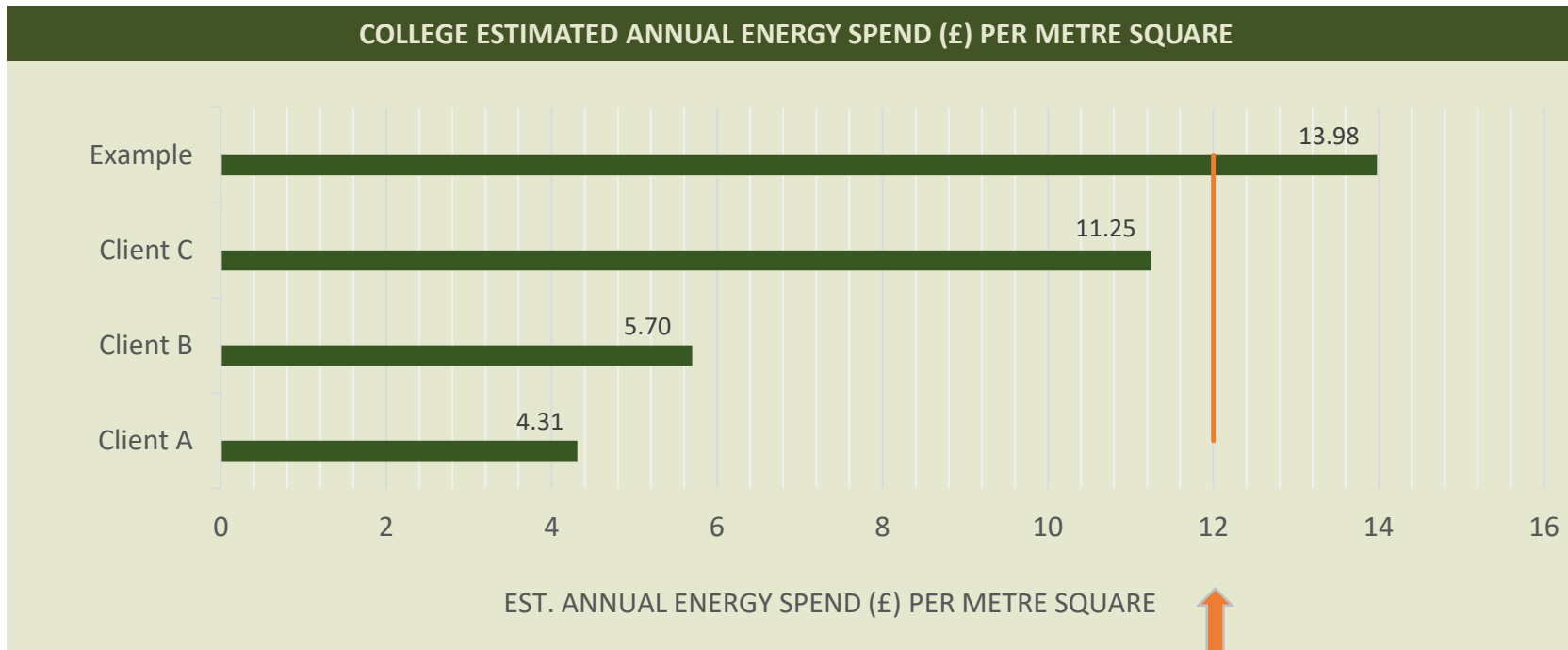
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A Model College

Advancing Net Zero

“A building that is highly energy efficient and fully powered from on-site and/or off-site renewable energy sources.”

(WorldGBC, 2018)



*based on the average variable electricity price for 2018 (BEIS)

typical electricity energy use per m² per annum
(MHCLG, 2019)



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DIFFERENCE IN ANNUAL ENERGY SPEND (£) PER METRE SQUARE BY PROJECT



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*based on the average variable electricity price for 2018 (BEIS)



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Northampton College – LED Lighting

Loan Value	Avg. Technical Payback	Annual Carbon Saving	Annual Financial Saving
£291,431.48	4.58	233.77 tCO ₂ e	£59,401.55



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Northampton College – 2019 LED Project

Loan Value	Avg. Technical Payback	Annual Carbon Saving	Annual Financial Saving
£142,130.28	7.17 years	55.50 tCO ₂ e	£19,819

- ✓ Large LED lighting replacement across the college's corridors, stairwells and thoroughfare
- ✓ Reduced their electricity consumption by replacing existing 1,318 fluorescent lighting with LED across the campus.
- ✓ 100% of project cost financed through Salix
- ✓ LED lighting project will use the College main incoming electric meter and BMS meters to monitor its post completion data/programme



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Northampton College – 2019 LED Project

- ✓ Get support of Senior Management
- ✓ Communicate project information to students and staff
- ✓ Use College website to publish details to wider community
- ✓ Rely on your Salix advisor
- ✓ Manage your own projects



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Northampton College – 2019 LED Project

COLLEGE ENVIRONMENTAL / ENERGY MANAGEMENT PLAN

Commitment

- ✓ To deliver where practicable the College Sustainability Policy
- ✓ To fully comply with all applicable environment protection legislation, guidelines and requirements.
- ✓ To promote bio diversity in the environment
- ✓ To reduce the waste to landfill of the college by 50% by April 2020
- ✓ To reduce energy usage and carbon dioxide generation by 15% by October 2020
- ✓ To maximise renewable technology
- ✓ To manage site flooding
- ✓ To minimise noise from site
- ✓ To manage emissions from site
- ✓ To promote healthy living for students, visitors and staff



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Northampton College – 2019 LED Project

PROJECTS SUMMARY

Date	Lighting Project	Cost	CO ₂ Annual Saving	kWh Annual Saving	Annual Cost Saving	Payback
Apr-15	Booth Lane Cherry Building	£20,000.00	22.75	42,332	£4,457.00	4.49
Aug-15	Lower Mounts 1	£50,000.00	61.48	114,389	£12,045.00	4.15
Apr-18	Lower Mounts 2	£57,367.20	38.48	100,085	£10,979.00	3.96
Apr-18	Booth Lane Oak Building Top Floor	£11,934.00	24.01	62,451	£6,539.00	3.96
Aug-18	Booth Lane Sports Hall	£10,000.00	7.77	20,218	£2,020.20	4.95
Sep-19	Booth Lane Main Building Corridors, Stairwells and Circulation Areas	£142,130.28	55.50	180,664	£19,819.00	7.17
		£291,431.48	209.99	520,139	£55,859.20	4.78



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Northampton College – 2019 LED Project

CONCLUSIONS

- ✓ LED is a “win win” scenario
- ✓ Considerable savings in maintenance labour (particularly high level)
- ✓ Considerable light fitting replacement savings
- ✓ Make sure you get a 7 year guarantee!!



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Application Process



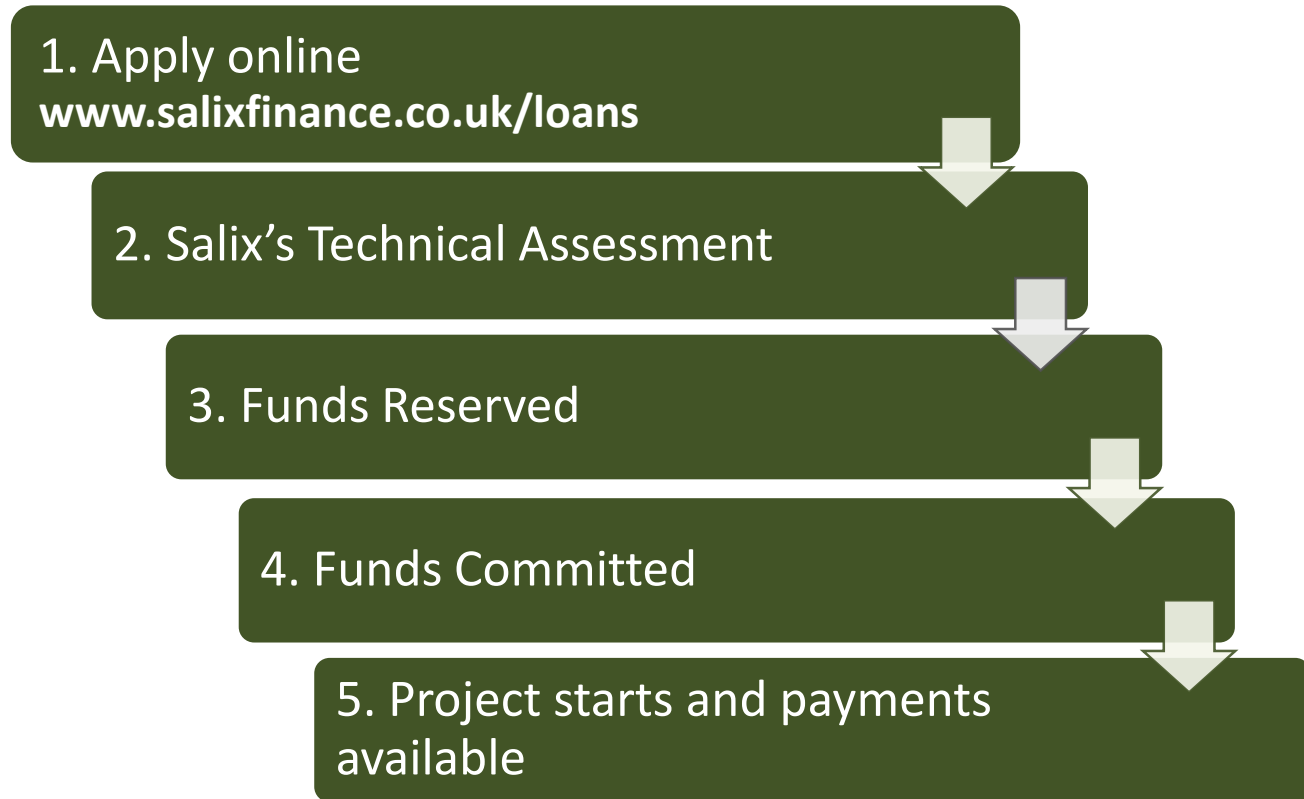
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Salix Application



Loan Repayments



- ✓ Loan Agreement and Direct Debit Mandate are signed before first payment
- ✓ Interim payments available, and final payment upon completion of project
- ✓ Evidence of costs required
- ✓ Repayments made bi-annually over 5 years, starting 6 months after project completion



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Salix Support



- ✓ Dedicated contact from the Universities & Colleges team
- ✓ Access to Knowledge Sharing area on website
- ✓ Internal and external technical support available throughout entire process
- ✓ Support available during delivery and completion
- ✓ Opportunities for case studies, articles and other press



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Public Sector Network

- ✓ Online network exclusively for UK public sector professionals
- ✓ Peer & expert knowledge sharing
- ✓ Users can share knowledge & questions surrounding energy & environmental management
- ✓ Relunched with new user-friendly design
- ✓ Events listings
- ✓ Optional weekly digest

Register here:

<http://publicsector.carbontrust.com>



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Colleges Workshops

South	North
<p data-bbox="861 672 1029 718"><u>London</u></p> <p data-bbox="682 762 1207 808">Capital City Colleges Group</p>	<p data-bbox="1454 672 1717 718"><u>Manchester</u></p> <p data-bbox="1332 762 1837 808">Department for Education</p>
<p data-bbox="754 1015 1136 1061">Friday 29th November</p>	<p data-bbox="1403 1015 1765 1061">Friday 6th December</p>



Any questions?



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Special thank you to the EAUC & Bob York from Northampton College



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