# **CAPITAL INVESTMENT BUSINESS CASE**

## **Big 4 Decarbonisation Project**



### **EXECUTIVE SUMMARY**

The Executive Summary is a short summary of the Business Case and should be the last section you complete, this will enable you to extract or only the key facts from relevant sections i.e. 'project on a page'. The summary is a 'snapshot' of the business case which will need to tell the story and sell the proposal.

Following an approved Mandate the four sites chosen for Public Sector Decarbonisation Scheme (PSDS) grant and the proposed measures are as follows:

- 1. **Guildhall Cluster**: High temperature Air Source Heat Pump located at the Guildhall with district heating connections to Council House, Law Courts and Midland House. Solar PV array on Guildhall and Midland to help electrical demand of HP.
- 2. **Ballard House**: High temperature ASHP & controls with insulation of the 'ceiling' in the basement and external roof insulation.
- 3. **Elliot Terrace**: High temperature ASHP, located on the roof, with draught proofing and secondary glazing. Solar PV array to help electrical demand of HP.
- 4. **Poole Farm**: ASHP

These four sites are among the top carbon emitters of PCC's corporate estate.

PCC has been able to apply to the PSDS fund quickly, as significant work has already been completed showing that the projects are technically feasible but would benefit from grant funding. Technical de-risking, further techno-economic modelling has been completed (funded by Salix Skills grant) and the design developed to a point that enables a planning and listed building consent applications to be submitted and prepare for a design and build tender.

It is proposed that, should the application for grant funding be successful, that PCC accept the grant and approve the additional funding required from \$106 and Ballard refurbishment / maintenance.

The project will increase Corporate Landlord revenue marginally by about 11% in year 1 and reduce to only 4% increase by year 20. For SP&I a saving of  $\pounds$ 456 in year 1 results, increasing to  $\pounds$ 629 by year 20.

The revenue pressure is balanced against the significant carbon reduction (almost 5,000 tonnes over the life) achieved and the related contribution to PCCs adopted Corporate Carbon Reduction Plan. Without such interventions, which capitalise on a lower carbon grid connection for electricity, it is unlikely PCC would be able to deliver its pledges.

The overall project cost is £3,135,555, with 74% covered by the PSDS grant, 13% by S106, 7% by PCC (Ballard roof and basement) and the rest (6% for PM/QS/Principle Designer and commercialisation) by Salix Project Delivery grant. A total of 93% is grant funded & S106 and the rest is already in the capital programme (Ballard improvement) or revenue budgets (maintenance).

PSDS condition requires that contracts are signed by the end of March 2021 and the projects are completed by the end of September 2021.

The main constraint to deliver this programme is extremely short deadlines prescribed by funding terms to source contracts. Procurement and project team have packaged requirements into four separate elements in the programme:

- 1. Solar element utilise the Council's current contract for Solar Panels. The original contract shall be varied to include this additional provision.
- 2. Insulation of Roof and Basement use the existing Hard FM contract with JNE for General Building Repairs. JNE will be instructed to deliver best value through obtaining further quotation.
- 3. Secondary Glazing a RFQ for low value procurements shall be carried out in line with the Council Contracts Standing Orders.
- 4. M&E and Supply and Installation of Air Source Heat Pumps this is a brand new provision of a medium to high value (circa £2m £3m), which the Council does not have an appropriate contract for. Furthermore, no appropriate national frameworks have been identified. The Council will invite 3 to 5 suppliers to bid for this opportunity using an appropriate tender portal.

The project team is considering splitting this contract to two Lots: Lot I – For industrial heat pumps Lot 2 – for smaller domestic heat pumps

The Guildhall Cluster will also facilitate the pending Civic Centre redevelopment and allow the majority of its heat load to be served by a low carbon heat source from day one.

Heat networks are already a key component of the City's strategy (**Plymouth Plan Policy GR07**) as well as PCCs adopted Climate Emergency Action Plan. These policies are also reflected in the submitted **Plymouth and South West Devon Joint Local Plan (policy DEV 34**)

#### Key risks - Mitigations:

- Limited availability of heat pumps due to high market demand thereby increasing the tender period and supplier lead times Regular contact with potential suppliers, share PCC details of the delivery plan to choose the most appropriate contractors/suppliers.
- The time available to undertake the required procurements and deliver the projects of different work packages of varying complexity Single point of contact in the procurement team to help minimise the time, existing frameworks and local suppliers will be used, work packages structured to maximise value for money opportunities and provide flexibility.
- Building regulation approval In discussion with Building Control Team.
- Pipework route to Midland House may not be feasible (across land owned by the Law Courts) PCC sells power to Law Courts and there is support for proposed heat network project, easement negotiations are underway, there are no major services, an alternative route if not feasible and possible to commission the heat pump and delay the connection to Midland House.
- Return temperatures to the heat pump are too high and incompatible with the heat pump operation Temperature data is being collected through the winter to help with detailed design, threshold return temperature should be able to be achieved with weather compensation, boilers retained to provide heat should the heat pump fail, . Phase 2 (Civic Centre) will help to reduce return temperatures.
- Planning consent not be granted within timescale Planning applications were submitted in early November and December, consent should be granted in January 2021.
- A suitable location cannot be found for the Ballard evaporators Structural surveys of the roof are complete, flexible height of roof cradles can accommodate the evaporator, roof repairs may cause delay.

#### **Outcomes and Benefits**

- Availability of grant funding
- Offset future carbon, maintenance and accommodation costs of occupied PCC buildings (increase longevity and reduce dilapidation)

- Carbon savings of nearly 5,000 tonnes
- Comfortable PCC accommodation
- Cleaner air (reduction of gas emissions)

Planning have been consulted, applications submitted with decisions expected in January 2021.

#### SECTION I: PROJECT DETAIL

Project Value (indicate capital or revenue)	The total project value is <b>£3.136m</b>	Contingency (show as £ and % of project value)	Of this <b>£115k</b> is contingency (4%)
Programme	Low Carbon	Directorate	Place
Portfolio Holder	Cllr Sue Dann, Environment and Street Scene	Service Director	Paul Barnard (Strategic Planning & Infrastructure)
Senior Responsible Officer (client)	Kat Deeney	Project Manager	Alastair Gets
Address and Post Code	Various	Ward	Citywide

**Current Situation:** (Provide a brief, concise paragraph outlining the current situation and explain the current business need, problem, opportunity or change of circumstances that needs to be resolved)

The four sites chosen for the first tranche of decarbonisation works to be grant funded by the Public Sector Decarbonisation Scheme (PSDS) are near 'shovel ready'. Detailed feasibility work has been carried out and a mandate for the 'Big 4' was approved in October.

The four sites are as follows:

- 1. **Guildhall Cluster**: Guildhall, Council House, Law courts, Midland House Part of the Civic DH project
- 2. Ballard House
- 3. Elliot Terrace
- 4. **Poole Farm**

These four sites are among the top carbon emitters of PCC's corporate estate.

Decarbonisation of heating and fabric improvement can be challenging due to long paybacks and revenue pressure. Replacing cheap mains gas heating to meet PCC's carbon targets, with low carbon alternatives, currently electric heat pumps (HP), can result in increased monthly costs due to the current higher cost of electricity compared to gas.

Using the Salix administered Government Public Sector Decarbonisation grant for a high percentage of the capital costs, reduces this risk significantly. Combining HPs with other measures, such as building fabric improvements, can help increase the thermal efficiency of the buildings and reduce heating needs which in turn reduce revenue pressure of the HP electrical costs. Other measures such as solar PV and CHP also help to provide lower cost, or free electricity, to reduce the running costs further.

There is a possibility that Renewable Heat Incentive (RHI) funding could be secured for the Guildhall Cluster and this could have a positive impact on the project economics. However, an application introduces other uncertainties, for example meeting RHI eligibility criteria and it may have programme implications. It would also mean losing the grant on the heat pump element of the works and the benefits could therefore be marginal. While RHI will be investigated for the

purposes of the BC, it is excluded, as it complicates the financial assessment. Moreover, the Government's cap on RHI could be reached at any time in the near future.

PCC has been able to apply to the PSDS fund quickly, as significant work has already been completed on the first three sites over the past year, using grant funding from BEIS (HNDU), EIB (ELENA), ERDF-Interreg (SUNPeople). Feasibility work has shown that the projects are technically feasible and financially challenged. However, work has progressed to the technical de-risking stage, further techno-economic modelling has been completed and the design developed to a point that enables a planning and listed building consent applications to be submitted. The Guildhall, Council House and Poole Farm applications were submitted in early November.

An initial grant from Salix for £85k has been approved for the final development and de-risking of the first three sites (confirming siting and structural capacity for the heat pumps installations, planning applications, noise surveys and final QS input into project capital costs). It will also fund the technical and financial feasibility of the fourth site (which is also technically feasible). This work has enabled PCC to submit a robust capital grant application to Salix.

**Proposal:** (Provide a brief, concise paragraph outlining your scheme and explain how the business proposal will address the current situation above or take advantage of the business opportunity) **and** (What would happen if we didn't proceed with this scheme?)

It is proposed that, should the application for grant funding be successful (submitted to Salix under the PSDS on 23 November 2020 with approval scheduled by 11 December 2020), that PCC accept the grant and approve the additional funding required.

The PSDS grant application covers the following:

- **Guildhall Cluster**: High temperature Air Source Heat Pump located at the Guildhall with district heating connections to Council House, Law Courts and Midland House. Solar PV array on Guildhall and Midland to help electrical demand of HP.
- **Ballard House**: High temperature ASHP & controls with insulation of the 'ceiling' in the basement and external roof insulation.
- **Elliot Terrace**: High temperature ASHP, located on the roof, with draught proofing and secondary glazing. Solar PV array to help electrical demand of HP.
- Poole Farm: ASHP

In addition to the grant funding, there are several additional sources of funding contributing to the overall budget:

- £400,000 of Section 106 funds has been secured to contribute to the district heat connection to Midland House and a Combined Heat and Power (CHP) unit at the Guildhall. The CHP will generate electricity, which will help reduce grid electricity running costs for operating the heat pump. The connection to Midland House helps achieve the PSDS limit of £500 of capex per tonne of carbon saved. The connection to the Plymouth Combined Courts, adjacent to the Guildhall, is also included, following recent discussions with the HMCTS (Ministry of Justice) as it also wishes to decarbonise its estate. PCC currently supply the Courts with electricity through a private wire network and this underpins the opportunity for a low carbon heat connection.
- For Ballard House, roof and basement repairs and insulation are required to remain within the aggregated £500/tCO2e saved over the life of the measures. To achieve this, only £186,500 of grant money could be applied for to contribute towards the overall cost of this measure. A balance of £214k is therefore required from PCC to make up the balance. Repairs to the roof and basement at Ballard House were part of a refurbishment budget (~£67k and ~£42k respectively). Contingency of approx. £100k may also available from the Lorne Stewart contract for the refurbishment (totalling some £200k). Finally FM will contribute the balance. The roof repair is on the critical path because another

decarbonisation project, roof top solar PV, is planned and the ASHP evaporators of this project are to be placed on the roof.

Following optimisation of the economic model, the revenue implications are that the overall cost of providing heat across the four projects, currently some  $\pounds 110,861$ , will increase marginally by about 11%. However, over the lifetime of the heat pump and PV installations, namely 20 years, the project operations will only cost 4% extra.

Installation of the ASHP at Poole Farm (SP&I service area) results in a saving of £456 in year 1 and increases to £629 by year 20.

Installation of the ASHPs and measures at the Guildhall Cluster, Ballard House & Elliot Terrace (HR/FM service area) results in a  $\pm$ 13,097 increase in costs in year 1 which reduces to a  $\pm$ 4,974 increase by year 20.

This initial revenue risk should be balanced against the significant carbon reduction achieved and the related contribution to PCCs adopted Corporate Carbon Reduction Plan and PCC's pledge to be net-zero carbon by 2030. Without such interventions, which capitalise on a lower carbon grid connection for electricity, it is unlikely PCC would be able to deliver its pledges.

Overall, the measures proposed will result in almost 5,000 tonnes of carbon savings over the life of the measures.

A swift BC approval is needed to secure the use of this short term funding, to meet its CCRP and CEAP, especially as further funding is uncertain.

The overall project cost is £3,135,555, with 74% covered by the PSDS grant, 13% by \$106, 7% by PCC (Ballard roof and basement) and the rest (6% for PM/QS/Principle Designer and commercialisation) by Salix Project Delivery grant. A total of 93% is grant funded and \$106 and the rest is already in the capital programme (Ballard improvement) or revenue budgets (maintenance).

PSDS condition requires that contracts are signed by the end of March 2021 and the projects are completed by the end of September 2021.

The main constraint to deliver this programme is extremely short deadlines prescribed by funding terms to source contracts compliantly. In the interest of time and efficiency, Procurement and project team packaged requirements into four separate elements in the programme. The most efficient and appropriate sourcing strategies have been allocated to individual elements of the program. All for elements and recommended sourcing strategies are listed below:

- 5. Solar element This is a low value requirement. **Recommendation:** utilise the Council's current contract for Solar Panels. The original contract shall be varied to include this additional provision. This provision shall be subject to terms and conditions of the original contract. Estimated value for this provision is circa £50,000
- Insulation of Roof and Basement This is a low to medium value requirement, under Works contract.
   Recommendation: use the existing Hard FM contract with JNE for General Building

Repairs. JNE will be instructed to deliver best value through obtaining further quotation. This provision shall be subject to terms and conditions of the original contract. Estimated value of this provision is circa £400,000

Secondary Glazing – This is a low value requirement. The Council does not have appropriate contract to use for this requirement.
 Recommendation: A RFQ for low value procurements shall be carried out in line with the Council Contracts Standing Orders. Three suppliers will be invited to take part in the RFQ using an appropriate tender portal. Estimated value of this provision is circa £60,000. It is proposed that the latest form of the JCT Contract be used which is an industry

acceptable contract for delivering schemes such as this. Where required, external legal support should be sourced to advise on the detail of the contract and variations to the standard form.

8. M&E and Supply and Installation of Air Source Heat Pumps – this is a brand new provision of a medium to high value (circa  $\pounds 2m - \pounds 3m$ ), which the Council does not have an appropriate contract for. Furthermore, no appropriate national frameworks have been identified.

**Recommendation:** Therefore, the recommended option is to carry out a PCC's own tender, which is compliant with the Council Contracts Standing Orders. The Council will invite 3 to 5 suppliers to bid for this opportunity using an appropriate tender portal.

The project team is considering splitting this contract to two Lots:

Lot I – For industrial heat pumps

Lot 2 – for smaller domestic heat pumps

The decision, regarding the split into Lots, shall be taken by project team following pretender market engagement with potential suppliers.

It is proposed that the latest form of the JCT Contract be used which is an industry acceptable contract for delivering schemes such as this. Alternative advice of external consultants will be considered. Where required, external legal support should be sourced to advise on the detail of the contract and variations to the standard form.

The Salix grant application was submitted on 23 November for £2,325,050

The Guildhall Cluster will also facilitate the Civic Centre redevelopment and allow the majority of its heat load to be served by a low carbon heat source from day one. It is anticipated that this will come forward for completion later in 2022 or early 2023. The significant additional heat load will increase the revenue of the scheme, but also reduce the carbon emissions of this redevelopment by up to 30%.

Heat networks are already a key component of the City's strategy (**Plymouth Plan Policy GR07**) which outlines a target to halve 2005 levels of carbon emissions by 2034 through the deployment of low carbon and renewable energy and specifically district energy networks and smart energy networks, as well as PCCs adopted Climate Emergency Action Plan. These policies are also reflected in the submitted **Plymouth and South West Devon Joint Local Plan (policy DEV 34**).

Strategic Case:	
Which Corporate	a green sustainable city that cares about the environment
Plan priorities does	reduced health inequalities
this project deliver?	people feel safe in Plymouth
Explain how the	This project helps deliver:
project delivers or	<b>DEV32</b> – Delivering low carbon development by reducing the energy
supports delivery of	load
Joint Local	DEV33 – Renewable and low carbon energy (including heat) through
Plan/Plymouth Plan	delivering low carbon energy that will be used in Plymouth to help
Policies (include	towards reducing carbon emissions. This project will have minimum
policy references)	impact on the landscape of Plymouth as the installations will be within
	existing buildings.

Who are the key customers and Stakeholders	PCC HMCTS (MoJ) Plymouth residents Users of facilities	Which Partners are you working with		
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SECTION	N 2: PROJEC	I RISK, OU	COMES AND BEI	NEFIIS		
Risk Regi	ster: The Risk Ro	egister/Risk Log i	s a master document crea	ated during the	e early stag	ges of a
project. It inc	ludes information	about each iden	tified risk, level of risk, wh	o owns it and	what meas	sures are
in place to m	nitigate the risks (c	ut and paste mo	re boxes if required).			
Potential	<b>Risks Identified</b>	d		Likelihood	Impact	Overall
Common	<u>mmon Risks to all Projects</u>					Rating
I. Gu	ildhall, Counc	il House, Mi	dland House and			
Lav	v Courts					
2. Bal	lard House					
3. Elli	ot Terrace					
4. Poo	ole Farm					
Risk	Limited availabili	ity of heat pum	ps due to high market	Medium	High	Medium
	demand thereby	increasing the	tender period and		-	
	supplier lead tim	nes jeopardising	the heat-on dates and			
	completion of th	ne projects by e	end September 2021.			
Mitigation	Regular contact	maintained wit	h potential suppliers,	Low	Medium	Low
	especially of high	n temperatures	heat pumps, e.g. Solid			
	Energy, to under	rstand anticipat	ed constraints and			
	dolivory plan and	to snare rC	Council to choose the			
	most appropriat	e contractors/s				
Calculated	risk value in £	f	Risk Owner	PCC Projec	t Team su	ported
(Extent of	financial risk)	-		by Engineer	, Buro Ha	ppold
	,			, 0	·	
Risk	The time availab	le to undertake	e the required	Medium	High	Medium
	procurements a	nd deliver the p	projects may be			
	insufficient to m	eet the end Sep	otember 2021			
	completion dead	lline as each pr	oject comprises			
	different work p	ackages of vary	ing complexity.			
Mitigation	PCC has a single	e point of conta	ct in the procurement	Low	Medium	Low
	team for all proj	ects. This will r	reip minimise the time			
	contracts When	re appropriate	existing frameworks			
	and local supplie	ers will be used	to minimise the			
	tender periods a	and mobilisation	time. Work packages			
	will also be strue	ctured to maxir	nise value for money			
	opportunities ar	nd provide flexil	bility in terms of the			
	commencement	and completio	n of each work			
	package.	1				
Calculated	risk value in £	£	Risk Owner	PCC Projec	t Team	
(Extent of	inancial risk)					
Diek	Puilding nogulati	on approval for	some elements of the	Madium	Madium	Madium
KISK	work will be rec	uired for even	some elements of the	riedium	riedium	riedium
	vibration/noise	performance of	heat nump			
			insulation compliance			
	Installations and	tor glazing and				

Mitigation	Discussions are currently taking place with the Building Control Team. Depending on the design and procurement progress, responsibility for the approval of some elements may be delegated to the selected contractor/s to minimise potential delays to the programme.			Low	Medium	Low
Calculated (Extent of j	risk value in £ financial risk)	£	Risk Owner	PCC Projec by PCC Buil	t Team su ding Cont	pported rol
Project S						
Guildhall,	Council Hous	se, Midland H	louse and Law Cou	irts		
Risk	The route to lay be feasible as it the Law Courts.	y pipework to M requires access	idland House may not across land owned by	High	High	High
Mitigation	The Law Courts PCC via a privat been established network project underway and d end of the year. no major service carried out to ic proposed route delayed, it would pump and delay without jeopard potential of the	currently purcl e wire connecti l regarding the p c. Negotiations f ocumentation w Record drawing es. However, a lentify an alterna is not feasible. I d be possible to the connection ising the long te network.	hases power from on and a dialogue has proposed heat or an easement are vill be drawn up by the gs indicate there are GPR survey will be ative route if the f permission were commission the heat to Midland House rm decarbonisation	Medium	Medium	Medium
Calculated	risk value in £	£	Risk Owner	PCC Projec	t Team su	pported
(Extent of	financial risk)			by the PCC	Property	Team
	-					
Risk	The return temp high and incomp	peratures to the atible with the l	heat pump are too neat pump operation.	Medium	High	High
Mitigation	Current system collected throug contractor with design. Based or interventions, th secondary contr return temperat of this element of the return tem Boilers are also the heat pump for help to reduce r	operating temp sh the winter to valuable inform in the early appra- ne design and co rol systems shou cure to be achiev of work would p mperatures and being retained t ail. Phase 2 (Civ return temperat	erature data will be provide the ation for the detailed isal of potential sting of these ild allow the threshold ved. Staged installation provide early visibility will be considered. o provide heat should ic Centre) will also ures significantly.	Medium	Medium	Medium
Calculated	risk value in £	£	Risk Owner	Engineer – E	Buro Happ	old,
(Extent of †	financial risk)			supported b and Facilities Teams	y the PCC s Manager	C Project nent
Risk	Agreement for a not be achieved end September on the delivery commercial arra noise considerat	a heat connection by the target co 2021. Key risk is of a connection angements, return cions.	on to Law Courts may completion date of the ssues that will impact include the rn temperature and	High	Medium	High

Mitigation A C te	working dialog Courts about th emperature hea	gue has been es e planned instal at pump in the a	tablished with the Law lation of a high Idjacent Guildhall. This	Medium	Medium	Medium
w	vill allow comm					
ea	arly 2021 wher	the project as	received funding and			
TII	nal approval. Po	otential noise in	ipact has been			
	oplication. Retu	ins part of the o	analyses will be			
Ca	arried out as pa	art of the detail	ed design.			
Calculated ris	sk value in £	£	Risk Owner	PCC Projec	t Team	
(Extent of find	ancial risk)					
Diale Di	lanning concorr	twill not be an	need within the	Madiuma	Madiuma	Madiuma
re de	equisite timesca elivery program	ale and could im	nted within the npact on the project	Medium	Medium	Medium
Mitigation P	lanning applicat	tions for both th	e Guildhall heat pump	Low	Medium	Low
ar	nd the services	alterations in t	he Council House			
w	vere submitted	in early Novem	ber, together with			
Pe	oole Farm. Oth	ner applications	for Elliott Terrace and			
Ba	allard House ai	re being prepare	ed for submission on			
4	" December. C	onsent should	be granted within an			
Calculated ris	sk value in £	f	Risk Owner	PCC Projec	t Team	
(Extent of fin	ancial risk)	-			e i cuiti	
<b>Ballard Hous</b>	se			-		
			ntad within tha	Medium	Medium	Medium
Risk Pl	lanning consent	t will not be gra				
Risk Pl re pl	lanning consent equisite timesca rogramme.	ale and could im	npact on the delivery			-
Risk Pl re pl Mitigation Pl	lanning consent equisite timesca rogramme. lanning applicat	ale and could im	mitted within the matter matter within the matter matter and the delivery	Low	Medium	Low
Risk Pl re pr Mitigation Pl N	lanning consent equisite timesca rogramme. lanning applicat lovember and o f Japuary 2021	t will not be gra ale and could im cions will be sub consent should	mitted within the mpact on the delivery mitted by the end of be granted by the end	Low	Medium	Low
Risk Pl re pi Mitigation Pl N or Calculated ris	lanning consent equisite timesca rogramme. lanning applicat lovember and o f January 2021. <b>sk value in f</b>	t will not be gra ale and could im cions will be sub consent should	mitted within the apact on the delivery mitted by the end of be granted by the end <b>Risk Owner</b>	Low PCC Projec	Medium t Team su	Low
Risk Pl re pr Mitigation Pl N of Calculated ris (Extent of fine	lanning consent equisite timesca rogramme. lanning applicat lovember and o f January 2021. sk value in £ ancial risk)	t will not be gra ale and could im cions will be sub consent should	mitted within the apact on the delivery mitted by the end of be granted by the end <b>Risk Owner</b>	Low PCC Projec by PCC Plar	Medium t Team su nning Tear	Low pported
Risk Pl re pi Mitigation Pl N of Calculated ris (Extent of fine	lanning consent equisite timesca rogramme. lanning applicat lovember and o f January 2021. sk value in £ ancial risk)	t will not be gra ale and could im cions will be sub consent should £	mitted within the apact on the delivery mitted by the end of be granted by the end <b>Risk Owner</b>	Low PCC Projec by PCC Plar	Medium t Team su nning Tear	Low pported n
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Risk Pl re printigation Pl Mitigation Pl No Calculated ris (Extent of fine Risk T he Mitigation D	lanning consent equisite timesca rogramme. lanning applicat lovember and o f January 2021. <b>sk value in £</b> <b>ancial risk)</b> The system tem eat pump. Design documer	t will not be gra ale and could im cions will be sub consent should £ peratures are in ntation for the s	mitted within the apact on the delivery mitted by the end of be granted by the end <b>Risk Owner</b> accompatible with the secondary system will	Low PCC Projec by PCC Plar Medium Low	Medium t Team su nning Tear High Medium	Low pported n Medium Medium
Risk Pl re pr Mitigation Pl N of Calculated ris (Extent of fine Risk T ha Mitigation D	lanning consent equisite timesca rogramme. lanning applicat lovember and o f January 2021. sk value in £ ancial risk) The system tem eat pump. Design documer e reviewed to o	t will not be gra ale and could im cions will be sub consent should £ peratures are in ntation for the s establish design	mitted within the spact on the delivery mitted by the end of be granted by the end <b>Risk Owner</b> compatible with the econdary system will conditions and any	Low PCC Projec by PCC Plar Medium Low	Medium t Team su nning Tear High Medium	Low pported n Medium Medium
Risk Pl re print Mitigation Pl N of Calculated ris (Extent of fine Risk T he Mitigation D	lanning consent equisite timesca rogramme. lanning applicat lovember and o f January 2021. sk value in £ ancial risk) The system tem eat pump. Design documer e reviewed to o versizing of the	t will not be gra ale and could im cions will be sub consent should £ peratures are in ntation for the s establish design e system to redu	mitted within the mpact on the delivery mitted by the end of be granted by the end <b>Risk Owner</b> mcompatible with the econdary system will conditions and any uce operating mation is specified	Low PCC Projec by PCC Plar Medium Low	Medium t Team su nning Tear High Medium	Low pported n Medium Medium
Risk Pl re pr Mitigation Pl N of Calculated ris (Extent of fine Risk T ha Mitigation D ba of te w	lanning consent equisite timesca rogramme. lanning applicat lovember and o f January 2021. <b>sk value in £</b> <b>ancial risk)</b> The system tem eat pump. Design documer e reviewed to o versizing of the emperatures. V which should pr	t will not be gra ale and could im cions will be sub consent should £ peratures are in ntation for the s establish design e system to redu Veather competion	mitted within the mact on the delivery mitted by the end of be granted by the end <b>Risk Owner</b> compatible with the econdary system will conditions and any uce operating mation is specified ole temperatures	Low PCC Projec by PCC Plar Medium Low	Medium t Team su nning Tear High Medium	Low pported n Medium Medium
Risk     Plant       Mitigation     Plant       Mitigation     Plant       Calculated rist     Origonal       (Extent of find     Plant       Mitigation     D       Mitigation     D       Mitigation     D       wite     W       addition     D	lanning consent equisite timesca rogramme. lanning applicat lovember and o f January 2021. sk value in £ ancial risk) The system tem eat pump. Design documer e reviewed to o versizing of the emperatures. V which should pr cross most of t	t will not be gra ale and could im cions will be sub consent should <i>£</i> peratures are in ntation for the s establish design e system to redu Veather compet oduce compatib the year. It is un	mitted within the mpact on the delivery mitted by the end of be granted by the end <b>Risk Owner</b> mompatible with the econdary system will conditions and any uce operating mation is specified ole temperatures derstood that the	Low PCC Projec by PCC Plar Medium Low	Medium t Team su nning Tear High Medium	Low pported n Medium Medium
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Mitigation	Record drawings have been reviewed for the preferred location of the compressor and the design will accommodate those services identified. However, GPR surveys will be carried out to confirm service locations. If the proposed location proves unsuitable, it will be technically possible to locate the compressor at an alternative location adjacent to the building. Structural surveys of the building roof for locating the evaporator are underway and will be completed by the end of November. The existing rooftop cradle, used for building access, is flexible in height and can accommodate the proposed evaporator. Some fabric repairs may be required to the roof and may cause delay. If the roof is structurally unsuitable, an alternative location for the evaporators will be			Medium	Medium	Medium
	investigated in t	ne car park adja	cent to the building.			
Calculated (Extent of †	risk value in £ financial risk)	£	Risk Owner	Engineer – E supported b and Facilities Teams	3uro Happ y the PCC s Managen	oold, C Project nent
Elliot Terr	ace					
Risk	Planning consent will not be granted within the requisite timescale and could impact on the delivery programme.			Medium	Medium	Medium
Mitigation	A planning application will be submitted by the end of November. Subject to concluding the on-going positive consultation with Historic England regarding the design of the secondary glazing, consent should be			Low	Medium	Low
Calculated	risk value in £	£	Risk Owner	PCC Projec	t Team su	pported
(Extent of	financial risk)			by PCC Plar	nning Tear	n
Risk	The system tem heat pump.	peratures are in	compatible with the	Medium	High	Medium
Mitigation	Weather compar- produce compar- year. It is under- compatible with installation of th of the return ter considered. Boil the event the he	ensation is speci- tible temperatur stood that the s variable temper e work would p mperatures and ers will be retai eat pump fails.	fied which should res across most of the econdary system is ratures. Staged provide early visibility this will be ned to provide heat in	Low	Medium	Medium
Calculated (Extent of †	risk value in £ financial risk)	£	Risk Owner	Engineer – E supported b Project and Managemen	Buro Happ by the PCC Facilities t Teams	oold, C
Risk Mitigation	The identified he Structural surve location can acc monitoring is un mitigation measu	eat pump location ys have indicate ommodate the l iderway to estal ures.	on is unsuitable. d that the proposed heat pump. Noise olish acoustic	Medium Low	High Medium	Medium Medium
Calculated (Extent of	risk value in £ financial risk)	£	Risk Owner	Engineer – E supported b	Buro Happ by the PCC	old, C Project

				and Facilities Management Teams		nent
Poole Farr	n					
Risk	Planning consent will not be granted within the requisite timescale and could impact on the delivery programme.			Low	Medium	Low
Mitigation	on A planning application was submitted during the Low Low Low granted by the middle of lanuary 2021.			Low		
Calculated	risk value in £	£	Risk Owner	PCC Projec	t Team su	pported
(Extent of	financial risk)			by PCC Pla	nning Tear	n
Risk				Select	Select	Select
				value	value	value
Mitigation				Select	Select	Select
_				value	value	value
Calculated (Extent of )	risk value in £ financial risk)	£	Risk Owner			·

Outcomes and Benefits			
Financial outcomes and t	penefits:	Non-financial outcomes a	nd benefits:
Availability of grant funding Doing improvement works now future carbon, maintenance and accommodation costs of occup buildings (increase longevity and dilapidation).	v will offset I ied PCC d reduce	Carbon savings of nearly 5,000 t Comfortable PCC accommodati Cleaner air (reduction of gas em	ionnes ion hissions)
Have you engaged with Plan (If no, please state the reason)	nning Departm	ent.	Yes
If yes, summarise the planning requirements.	Planning applica validated 3rd/ 4	tion lodged for Guildhall and Cou th November (decision 8 weeks)	ncil House and
(If PP is required ensure you engage with planning prior to seeking approval of this Business Case)	Any secondary Listed Building O Poole Farm lodg Ballard (depend lodged 04/12/20 Elliott Terrace to heat pump, seco	y secondary glazing or insulation works would need separate ted Building Consent applications for each building. ole Farm lodged 13/11/20 (decision 8 weeks) lard (depending on ASHP location still to be determined) to lged 04/12/20 (decision 8 weeks) ott Terrace to be lodged 04/12/20 (decision 8 weeks) – inclu at pump, secondary glazing and solar	
Is the budget cost reflective of planning requirements	YES for Elliott T application, Poo	Ferrace, current Council House an le Farm and Ballard	nd Guildhall
Who is the Planning Officer you consulted with.	Amy Thompsor	and Mike Stone	
Planning Consent Date	Guildhall and C	ouncil House: expected 30/12/20	
	Poole Farm: exp	Dected 08/01/21	
	Ballard House :	expected 04/02/21	
	Elliott Terrace:	expected 04/02/21	

Have you engaged with Building Control. (If no, please state the reason) Yes

Is the Building Control pre-application registered	N/A
What is the pre- application number	N/A
Is this classed as a HRRB building	No
Is this building classed as 'high risk'	No
Who is the Building Control Case Officer	Chris Maslen

Low Carbon	
What is the anticipated impact of the proposal on carbon emissions	The carbon emissions of the four sites will be reduced by over 5,000 tonnes over the 20 year life of the heating systems.
How does it contribute to the Council becoming Carbon neutral by 2030	The reduction in carbon emissions contributes to mitigating the need to offset carbon to achieve carbon neutral operation by 2030.
Which Members have you engaged with and how have they been consulted (including the Leader, Portfolio Holders and Ward Members)	Cllr Sue Dann

Equalities Impact Assessment completed (This is a working document	Yes
which should inform the project throughout its development. The final version will need	
to be submitted with your Executive Decision)	

#### SECTION 4: FINANCIAL ASSESSMENT

**FINANCIAL ASSESSMENT :** In this section the robustness of the proposals should be set out in financial terms. The Project Manager will need to work closely with the capital and revenue finance teams to ensure that these sections demonstrate the affordability of the proposals to the Council as a whole.

CAPITAL COSTS AND FINANCING								
Breakdown of project costs including fees surveys and contingency	Prev. Yr. £m	20/21 £m	21/22 £m	22/23 £m	23/24 £m	24/25 £m	Future Yrs. £m	Total £m
Design & Engineering			0.177					0.177
Main equip capital			1.414					1.414
Install & Commission			1.233					1.233
Commercialisation			0.082					0.082
PM/QS/PD			0.115					0.115
Contingency			0.115					0.115
Total capital spend			3.136					3.136

Provide details of proposed funding: Funding to match with Project Value								
Breakdown of proposed funding	Prev. Yr. £m	20/21 £m	21/22 £m	22/23 £m	23/24 £m	24/25 £m	Future Yrs. £m	Total £m
Salix PSDS			2.325					2.325
S106			0.400					0.400
PCC (Ballard insul)			0.214					0.214
Salix Proj Delivery			0.197					0.197
Total funding			3.136					3.136

SI06 or CIL (Provide Planning App or site numbers)	<ul> <li>Spend certificate 7A6 2787 (being raised): 16/00028/FUL - Derrys Development, Plymouth £83,608.89 (second payment)</li> <li>Spend Certificate 2787 7A6: 16/00028/FUL - Derrys Development, Plymouth £75,000 &amp; 11/00750/FUL- Land At North Yard H. M. Naval Base Devonport £175,000 (remainder of spend not allocated £153k)</li> <li>11/00750/FUL- Land At North Yard H. M. Naval Base Devonport: £163,391.11</li> </ul>
Which alternative external funding sources been explored (Provide evidence)	Salix PSDS providing 76% of the funding (and S106: 13%)
Are there any bidding constraints and/or any restrictions or conditions attached to your funding	The PSDS grant has none besides that procurement must be within internal procurement guidelines and financial regulations. Once the grant is approved, there is a timeline requirement: the project must be contracted by the end of March 2021 and completed by the end of September 2021.
Tax and VAT implications	The sites proposed for the decarbonisation works include some premises which are leased out or where the Council receives income from lettings, for example the Guildhall. This means that a significant proportion of the VAT incurred on the capital cost of the works will be directly attributable to a VAT-exempt activity of the Council, 75% at the Guildhall based on income. VAT will still be recoverable on the cost of the project but a proportion of the VAT will need to be included in the Council's partial exemption calculation which is required to ensure that the Council is able to fully recover VAT relating to all of its VAT-exempt activities and does not exceed its limit. Expenditure on the project must be regularly monitored, therefore, to determine the amount of VAT to be included in the calculation.
Tax and VAT reviewed by	Sarah Scott
Will this project deliver capital receipts? (If so please provide details)	

Schemes in excess of  $\pounds 0.5$ m should be supported by a Cost Benefit Analysis. Calculations undertaken should be attached as an appendix to support financial implications shown below. Please contact your revenue accountant for assistance with this section.

Is the capital ask	No (90%	If the answer is yes, have you	No
greater than	grant & SI06	attached the Cost Benefit	
£0.5m	funded)	Analysis	

REVENUE COSTS AND IMPLICATIONS					
Cost of Developing the Capital Project (To be incurred at risk to Service area)					
Total Cost of developing the project	£				
Revenue cost code for the development costs	All grant funded (BEIS (HNDU & Salix), EIB (ELENA), ERDF- Interreg (SUNPeople))				
Revenue costs incurred for developing the project are to be included in the capital total, some of the expenditure could be capitalised if it meets the criteria	No				
Budget Managers Name	N/A				

Ongoing Revenue Implications for Service Area (SP&I)								
Poole Farm	Pre Yr	ev. 2 •	21/22 £	22/23 £	23/24 £	24/25 £	25/26 £	Year 20
Service area revenue cost								
Loan repayment (terms agreed with Treasury Management)	h N/.	A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Other</b> (Operating costs including mainter utilities etc. for heat pump)	nance,		281	283	285	290	297	289
Total Revenue Cost (A)			281	283	285	290	297	289
Service area revenue benefits/savings								
Annual revenue savings (gas b operating costs)	poiler		737	766	805	845	855	918
Total Revenue Savings (B)			737	766	805	845	855	918
Service area net (benefit) cost (A-B)		(	(456)	(483)	(520)	(555)	(558)	(629)
Has the revenue cost been budgeted for or would this make a revenue pressure		is rev	enue s	savings	1	1	1	1
Which cost centre would the revenue pressure be shown		6042 Has this been reviewed by the Y budget manager				′es		
Name of budget manager		Deene	ey					
Loan value £ Interes Rate	it	% Ter % Yea		n Annual s Repaym		nent <sup>£</sup>		
Revenue code for annual repayments								

Service area or corporate borrowing	N/A
Revenue implications reviewed by	Stephen Coker

Ongoing	Revenue	Implication	ns for Serv	vice Area (H	R/FM)				
Guildhall, Council House, Midland House and Law Courts; Ballard House; and Elliot Terrace		Prev. Yr.	22/23 £	23/24 £	24/25 £	25/26 £	26/27 £	Year 20	
Service area revenue cost		enue cost							
Loan re with Treasur	<b>payment</b> y Manageme	(terms agreed nt)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Other (C maintenance pumps, CHF	Pperating cost e, utilities etc. P and PV)	s including for heat		110,581	111,993	113,597	115,768	117,462	117,966
Total Re	evenue C	ost (A)		110,581	111,993	113,597	115,768	117,462	117,966
Service benefits	area reve /savings	enue							
Annual (gas boiler	r <b>evenue s</b> operating	<b>savings</b> costs)		97,483	99,876	104,303	107,606	108,960	112,992
Total Re	evenue Sa	avings (B)		97,483	99,876	104,303	107,606	108,960	112,992
Service area net (benefit) cost (A-B)		(benefit)		13,097	12,116	9,295	8,162	8,502	4,974
Has the revenue cost been budgeted for or would this make a revenue pressure		cost been would this pressure	The revenue pressure (as above) has not been budget for. It is a cost associated with decarbonisation and the net zero ambition.						
Which cost centre would the revenue pressure be shown		ELLIOT 5688/XX BALLARI 2244/XX GUILDH COURTS 2248/XX COUNC 2253/XX MIDLAN 2246/XX	5688/XXXX/C3976 by 1 BALLARD HOUSE: 2244/XXXX/C4356 GUILDHALL/LAW COURTS: 2248/XXXX/C3983 COUNCIL HOUSE: 2253/XXXX/C6326 MIDLAND HOUSE: 2246/XXXX/C4244			eviewed nanager		Yes	
Name of budget manager		Ralph Bint							
Loan value £ Interest Rate		9	<sup>%</sup> Term Ye	ars		Annual Repaym	ent <sup>£</sup>		
Revenue code for annual		N/A							
Service area or corporate		N/A							
Revenue implications reviewed by		Stephen Coker							

<b>Version Control:</b> (The version control table must be updated and signed off each time a change is made to the document to provide an audit trail for the revision and update of draft and final versions)								
Author of Business Case	Date	Document Version	Reviewed By	Date				
Alastair Gets	26/11/2020	v 1.0	Chris Flower, Stephen Coker,	16/12/2020				
	18/11/2020	v 2.0	Gosia Anthony, Ralph Bint, Kat Deeney	22/12/2020				

#### SECTION 6: RECOMMENDATION AND ENDORSEMENT

- Recommended Decision
- It is recommended that the Leader of the Council:
- Approves the Business Case
- Allocates £2.922m into the Capital Programme funded by £2.522m from the Salix PSDS & Skills Funds £0.400m from S106 funds
- Vire £0.214m from the Ballard House refurbishment project to this project.
- Authorises the procurement process
- Delegates the acceptance of the Salix grants to the S151 Officer
- Delegates the award of the contract to Service Director for SP&I

Service Director: Kim Brown, HR
Either email dated: Date 8/2/2021
Signed:
Date:
Service Director: Paul Barnard, SP&I
Either email dated: 04/01/2021
Signed:
Date:
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