

Zero Emission Bus Regional Areas Scheme – 2021 to 2022 Application Form

Call for Expressions of Interest

Applicant Information

Local transport authority: North Yorkshire County Council

(For joint bids only) Which local transport authority is the lead bidder:

Area within authority covered by bid: Harrogate

Bid Manager Name and position: Cathy Knight, Commercial Sector Service

Development Manager

Contact telephone number: 01609 535134

Email address: cathy.knight@northyorks.gov.uk

Postal address: County Hall, Northallerton, North Yorkshire DL7 8AD

Submission of proposals:

Applications to the Scheme will be assessed against the criteria set out here and in the guidance document. Please adhere to word limits. We will not accept any additional information unless specifically requested.

Proposals must be received no later than 17:00 on the following days.

- Fast track process 5pm on 21st May 2021
- Standard process 5pm on 25th June 2021.

You will receive confirmation that we have received your proposal within 1 working day.

An electronic copy only of the bid including any supporting material should be submitted to buses@dft.gov.uk.

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Please include "ZEBRA (Fast track Process) Local Transport Authority name" in the subject line of the email if you are applying under the fast track process.

Please include "ZEBRA (Standard Process) Local Transport Authority name" in the subject line of the email if you are applying under the standard process.

Enquiries about the Fund may be directed to buses@dft.gov.uk.

Transparency and privacy

Please refer to the guidance for this scheme before completing the application form to understand how DfT will manage your data.

SECTION A: Mandatory Questions

Areas must satisfactorily answer all of the questions in this section to be eligible to progress to Phase 2 of the scheme. If you would like further information, please contact the Department for Transport at buses@dft.gov.uk.

Areas must provide the information requested in questions A1-A5.

A1. In total, how many new zero emission buses will your proposal deliver?

39 new zero emission buses would be delivered in Harrogate over three years. With eight introduced in 2018 this would fully convert the Harrogate Bus Company (part of Transdev) service network to electric operation.

On notification of a successful grant award an order will be placed for the first tranche of vehicles with a target delivery date of 6 months. Arrangements have been made with infrastructure suppliers who will be immediately mobilised. Zenobe have been retained to manage this process.

March 2022 – order placed for 10 single deck buses for service 1 to arrive in September 2022

• March 2022 – order placed for infrastructure

• September 2022 – order placed for 10 single deck buses for service 7 to arrive in March 2023

• March 2023 – all infrastructure in place ready for expanded fleet

• September 2023 – order placed for 19 double deck buses for service 36 to arrive in March 2024

March 2024 – removal of diesel infrastructure

A2. Total DfT funding sought (£m)

While there is no minimum or maximum size for bids the department is interested in supporting at least three areas across the ZEBRA scheme as a whole, so we expect to see schemes that are approximately £25m - £35m. This is designed to encourage a wide range of bidding areas to come forward and to ensure DfT are able to fund at least three areas across the whole scheme

£8,396,250 Total DfT Funding sought (£656,250 infrastructure and £7,740,000 vehicles)

Detail redacted due to commercial sensitivity

A3. Third party funding contributions (£m)

£11,528,750

Transdev will commit to £11.310,000 capex over three years for the vehicles and £218,750 towards infrastructure assuming 75% the premium price for the vehicles and 75% of the infrastructure cost is grant funded.

All vehicles to be specified to high standard with next stop announcements (AV), USB power and free wifi. Two of the three routes are interurban operations including Transdev's high specification flagship 36 from Ripon through Harrogate to Leeds.

A4. Funding from other government schemes (£m)

Please set out any funding from other government schemes that is intended to be used alongside funding from the ZEBRA scheme.

None.

A5. Total cost of the proposal (£m):

This should include DfT funding as specified in A2, any third party contributions as specified in A3 and any funding from other government schemes as specified in A4.

£19,925,000

Areas must be able to answer yes to question A6-A12 to be able to progress to Phase 2.

A6, If your bid is successful, are you able to invest DfT funding within the time outlined by your scheme?

Yes. Transdev will submit orders for the first tranche of buses immediately for delivery within six months. Timescales:

- March 2022 order placed for 10 single deck buses for service 1 to arrive in September 2022
- March 2022 order placed for infrastructure
- September 2022 order placed for 10 single deck buses for service 7 to arrive in March 2023
- March 2023 all infrastructure in place ready for expanded fleet
- September 2023 order placed for 19 double deck buses for service 36 to arrive in March 2024
- March 2024 removal of diesel infrastructure

A7. If your bid is successful, are you able to capitalise DfT grant funding?

Yes

A8. Have you considered whether additional zero emission buses are needed to replace existing buses?

Evidence suggests that replacing diesel buses with zero emission buses can require additional zero emission buses to provide the same level service as provided by diesel buses. Areas should set out how many additional zero emission buses are needed to replace existing buses. If areas are of the view that additional zero emission buses are not required please set out why.

Yes. No additional buses would be required. Transdev have undertaken modelling with their suppliers on the routes and tested vehicles. Full day bus workings will need some supplementary charging and Transdev will specify opportunity charging capability to enable 'top up' charge during the day. There is also flexibility to amend bus workings to rotate buses across the evening when frequencies are lower. Transdev are also working with North Yorkshire County Council and West Yorkshire Combined Authority on parallel infrastructure projects which may reduce vehicle requirement, or deliver extra frequency if journey times can be reduced.

A9. Have you provided a breakdown of infrastructure costs for your proposal?

Infrastructure costs could include (but are not limited to): cost of charging unit or refuelling stations electrical or other power components; civil engineering works, labour costs (for installation); hardware costs; capital costs of developing associated software systems; surveys at the point of procuring the infrastructure provided they can be capitalised; upgrades to the energy grid to cater for increased energy demand.

Yes. Transdev have engaged suppliers and consultants to identify the infrastructure requirements. A 2MVA connection is required. The grid has capacity for 1MVA so additional capacity is required to cover the later phases.

Detail redacted due to commercial sensitivity

A10. Does your proposal have the support of bus operator(s) in the area?

The proposal requires the support of at least one bus operator operating in the area who will operate the zero emission buses. The bid does not, however, need the support of all bus operators operating in the area. If local transport authorities are not able to provide this evidence of support from operators they **must** explain why.

Yes. Transdev, trading as The Harrogate Bus Company, is the largest bus operator in Harrogate operating over 90% of the network. Since 2016 they have adopted a low emission bus town strategy and in 2018 started the move towards a zero emission bus town. New Euro 6 double deckers were purchased in 2016 for the 36 service; refreshed single deckers had CVRAS compliant exhaust treatment in 2016 and 2019 and new electric buses converted the entire Harrogate town network in 2018. This project will convert the three remaining corridors to electric operation in three stages:

- March 2022 (Phase 1): Order placed for 10 Alexander Dennis BYD Enviro 200 single deckers with oppcharge capability for the high frequency 1 service between Harrogate and Knaresborough
- September 2022 (Phase 2): Order placed for 10 Alexander Dennis BYD Enviro 200 single deckers with oppcharge capability for the interurban 7 service between Harrogate, Wetherby and Leeds and the rural 24 Harrogate to Pateley Bridge
- September 2023 (Phase 3): Order placed for 19 Alexander Dennis BYD Enviro 400 double deckers with oppcharge capability for the high quality high frequency interurban 36 from Ripon through Harrogate to Leeds

A letter of support is attached from the company Chief Executive Officer. The letter confirms the company is committed to investing in the buses and operating them in the defined area for a minimum of 5 years. Funding from this application will enable 100% of the Harrogate depot fleet to convert to ZEBs and 90% of the Harrogate network.

A11. Have you spoken with any energy companies when preparing your proposal?

Energy companies could include Distribution Network Operators, Independent Distribution Network Operators, energy supplier, energy storage companies, smart charging providers or hydrogen fuel providers.

Yes. Transdev has engaged SSE as an IDNO and also engaged Zenobe with both modelling the site requirements for us. Pascon Ltd has been engaged to obtain Point of Connection information from the National Grid and a proposal has been received. Supporting information from both of these organisations is included in this submission.

A12. Does your proposal comply with the accessibility requirements set out in the scheme guidance?

The scheme guidance sets out a number of accessibility requirements including: requiring buses to incorporate equipment to identify the route, each upcoming stop, and the beginning and end of diversions: providing an induction loop to aid direct communication between drivers and passengers who use a hearing aid and providing an additional flexible space in addition to the mandatory wheelchair space, suitable for a second wheelchair user and/or at least two unfolded pushchairs or prams.

Yes. Transdev have adopted these features as standard.

SECTION B. Defining the place

This section will seek a definition of the area to be covered by the Zero Emission Bus Regional Area. Areas should:

- Include information setting out the extent of the area to be covered by the proposal

 the defined area. If the defined area is different to the area covered by the local
 transport authority please make this clear. Please provide maps if required.
- Provide details on the bus sector including naming all operators who operate services in the defined area, their market share and fleet sizes. This should include both operators who are supporting your proposal and will be operating the zero emission buses and other bus operators in the defined area.
- Clarify what proportion of bus services in the defined area will be operated using zero emission buses.

Please limit your response to 500 words. Please provide maps as annex documents if required.

Defined Area

The defined area is the towns of <u>Harrogate</u> and <u>Knaresborough</u> in Harrogate borough. The services within the scheme will also operate to West Yorkshire (Wetherby and Leeds) and to Ripon.

<u>North Yorkshire</u> is the largest non-metropolitan county and lieutenancy area in England, covering an area of 8,654 square kilometres (3,341 sq mi). Around 40% of the county is covered by national parks, including most of the Yorkshire Dales and the North York Moors.

<u>Harrogate</u> is a spa town in North Yorkshire, England. The town is a tourist destination and its visitor attractions include its spa waters and RHS Harlow Carr gardens. 13 miles (21 km) away from the town centre is the Yorkshire Dales National Park and the Nidderdale AONB.

<u>Knaresborough</u> is a market and spa town and civil parish in the Borough of Harrogate, North Yorkshire, England, on the River Nidd 3 miles (4.8 km) east of Harrogate.

<u>Harrogate Borough Council</u> has declared four air quality management areas (AQMA's) for breaches of the annual mean objective for nitrogen dioxide (NO2). These were declared at Bond End, Knaresborough and Low and High Skellgate, Ripon in 2010, and York Place, Knaresborough and Wetherby Road, Harrogate in 2017.

Bus Sector and Bus Services

<u>Transdev</u>, trading as the Harrogate Bus Company, is the main bus operator in the defined area with over 90% of the market and operating 47 vehicles. Funding received through this bid will enable 39 new zero emission buses would be delivered in Harrogate over three years. With eight introduced in 2018 this would fully convert the Harrogate Bus Company (part of Transdev) service network to electric operation.

Five services already use ZEBs:

- The 2A between Harrogate and Bilton
- The 2B between Harrogate and Bilton
- The 3 between Harrogate and Jennyfield
- The 6 between Harrogate and Pannal
- The X6 between Harrogate and Beckwith Knowle

The following four services are part of this Expression of Interest for conversion to ZEBs:

- The 1 between Harrogate and Knaresborough estates
- The 7 between Harrogate, Wetherby and Leeds
- The 24 between Harrpgate and Pateley Bridge
- The 36 between Ripon, Harrogate and Leeds

Three rural off peak services and the local school bus network would remain using diesel buses.

As such over 90% of the market in the defined area will be operated using zero emission buses.

<u>Connexions Buses</u> is a small independent operator based near Harrogate, with services in Harrogate and to Knaresborough York, Otley and Ilkley. The company has a fleet of 40 buses and a PVR of 36. Connexions operate the remaining 10% of services but are not currently in a position to transition to ZEBs due to the rural location of their operating depot and grid capacity constraints.

SECTION C: Ambition

This section will seek evidence of the level of ambition from the local transport authority to decarbonise their bus fleets, support bus services and decarbonise transport.

C1. Public transport ambitions

Areas should:

- Provide clear explanation of your ambition to decarbonise the bus fleet in the
 defined area and how this proposal will support this ambition. If the defined area is
 different to the local transport authority area please explain your ambitions to
 decarbonise the bus fleet in your local transport authority area and how this
 proposal will support this ambition.
- Provide evidence of existing plans to support the provision and operation of local bus services in the area. This could include existing partnership working between the local transport authority and bus operators, bus priority measures, improvements to information about bus services.
- Include complementary policies to decarbonise transport in the area.
- Explain how the proposal supports wider ambitions to increase public transport use and active travel in the area.

Please limit your response to 500 words.

Ambition to Decarbonise

The York and North Yorkshire Mayoral Devolution Deal for York and North Yorkshire clearly sets out an ambition to accelerate the transition to zero emission buses across the proposed combined authority area. It sets out a three phase programme for the roll out of zero emission vehicles across the region. This bid is completely aligned to phase 2 of that ambition (with phase 1 being within City Of York Council boundaries).

The proposal aligns with local policy across the area's seven districts and two National Parks, including supporting all Local Plans, Climate Emergency Plans and Harrogate's <u>Ultra-Low Emission Vehicle</u> <u>Strategy 2019 – 2024</u>. The proposal supports the <u>Local Industrial Strategy</u> which sets out a vision for York and North Yorkshire to become England's first carbon negative region. One objective of the <u>North Yorkshire Local Transport Plan</u> is protecting the environment and preventing climate change. The Plan highlights how NYCC supports measures to promote environmentally friendly forms of transport, including supporting and making provision for the use of ULEVs. This aligns to the <u>North Yorkshire</u> <u>Draft Air Quality Strategy</u> with one of the key objective to support the use of ULEVs in North Yorkshire.

Existing Plans to Support Local Bus Services

NYCC Harrogate Transport Improvement Programme details plans to improve journey times and reliability on the 1 and 36 services. It also proposes sites for park and ride (which to be operationally sustainable and attractive to users is proposed to link with Transdev's 36 service thereby increasing the success and sustainability of this service).

The Leeds City Region Transforming Cities Fund will develop further bus priority and active travel measures in Harrogate town centre.

West Yorkshire Combined Authority also welcome this bid, with the 7 and 36 operating into Leeds City Council area. Both routes also benefit from investment schemes in the Leeds Transport Improvement Plan.

Complementary Policies and Wider Ambitions

North Yorkshire County Council is developing a countywide Electric Vehicle Infrastructure Rollout Strategy, considering the recommendations from the Electric Vehicle Charge Point (EVCP) Deployment Study, which recommended delivery of 615 publically available electric vehicle charge points by 2030 to accommodate the uptake and use of EVs in North Yorkshire. This sits alongside the council's Zero Emission Bus Deployment roadmap.

North Yorkshire County Council and Transdev work in partnership on a voluntary basis to deliver a high quality bus network for Harrogate. This will evolve into an Enhanced Partnership in 2022 and we are collaborating on an ambitious Bus Service Improvement Plan which builds on the programme of investment made by The Harrogate Bus Company since 2016. The full fleet has been renewed or refurbished as new; contactless payments including a pioneering tap on, tap off capping scheme and a comprehensive marketing campaign.

The Harrogate Transport Improvement Plan also includes a range of measures to increase active travel in Harrogate including improved cycling infrastructure in line with the Local Cycling Infrastructure Plan and a commitment for the provision of ongoing revenue funding for Smarter Choices and Behaviour Change interventions.

C2. Community benefits

Please highlight any community benefits from your proposal. This could include economic development in the area or the creation and/or retention of jobs and apprenticeships related to the maintenance of zero emission vehicles, including batteries and fuel cells, and supporting infrastructure.

Please limit your response to 500 words.

Converting over **90%** of the market in the defined area to operation using **zero emission buses** will have the following community benefits:

Social

Transdev has an established apprentice scheme which will now include training on electric vehicle maintenance. The project will also considering making charging equipment available commercially to other businesses while not required for charging buses.

There are also associated grid resilience improvements with investment in the electrical capacity.

Economic

This proposal directly supports job creation/protection, as labour is required to plan, in-stall, maintain and manage the charge points and supporting infrastructure.

Provision of a network of zero emission Transdev fleet across Harrogate and Knaresborough will support leisure and tourism, and encourage longer distance tourist trips into the region. Multiple districts and stakeholders have raised the impact on tourism due to the current lack of EV charge points in North Yorkshire.

Depending on the commercial and delivery model for EV charge points, there is the potential for local businesses to financially benefit from Transdev's commitment to considering making charging equipment available commercially to other businesses while not required for charging buses.

Air Quality

This funding will accelerate improved air quality, with zero emission vehicles produce zero tail pipe emissions. This proposal will deliver air quality benefits, benefiting the environment and the general health of the North Yorkshire population – in alignment with the North Yorkshire Draft Air Quality Strategy (2020).

Health

Improved air quality has associated improvements to the health due and as such will lead to improvements in the general health local residents and of the North Yorkshire population and visitors who visit Harrogate and Knaresborough.

Environmental

Reduced noise pollution This funding will and will deliver environmental benefits and accelerate the benefits of decarbonisation, benefiting the environment– in alignment with the <u>North Yorkshire Draft Air Quality Strategy</u> (2020).

The benefits above all help deliver the LEPs vision for York and North Yorkshire to become England's first carbon negative region.

C3. Support for your proposal and wider vision

Provide evidence of support for your proposal and wider vision, such as letters of support or evidence of engagement, from partners.

This **must** include evidence of support from the bus operator(s) who will operate the zero emission buses. You **do not** need to include evidence of support from all bus operators within the area, only the operator(s) who will be operating the zero emission buses. This evidence must be a signed letter by both the CEO/equivalent level of the company and the local MD, committing to investing in the buses and operating them in the defined area e for a minimum of 5 years.

Local transport authorities that have not included this evidence must clearly set out the reasons for this.

You **must** also include evidence of engagement with an energy company. Energy companies could include Distribution Network Operators, Independent Distribution Network Operators, energy supplier, energy storage companies, smart charging providers or hydrogen fuel providers.

Areas may also wish to include evidence of support from other relevant bodies, depending on the proposal, for example:

- Other tiers of local government
- Local Enterprise Partnerships
- Local Energy Hub
- Leasing companies
- Finance companies

Please limit your response to 1000 words. Evidence of support, such as letter of support, can be included as annex.

Transdev are strong supporters of this Expression of Interest. A letter of support is attached from the company Chief Executive Officer. The letter confirms the company is committed to investing in the

buses and operating them in the defined area e for a minimum of 5 years. Funding from this application will enable 100% of the Harrogate depot fleet to convert to ZEBs and 90% of the Harrogate network.

West Yorkshire Combined Authority also support this bid, with the 7 and 36 operating into Leeds City Council area. Both routes also benefit from investment schemes in the Leeds Transport Improvement Plan. Direct replacement of 11 Euro 5 Optare buses with SCRT treatment to CVRAS standard, and 2 Euro 6 Optare buses – these will cascade onto other services in West Yorkshire.

Supporting information is also attached from Northern Powergrid confirming high voltage connection to the distribution system for the Transdev Harrogate depot.

SSE Enterprise, a leading generator of renewable electricity in the UK and Ireland and one of the largest electricity network companies in the UK also support the application. Supporting information is attached.

The proposal supports the <u>Local Industrial Strategy</u> (2020) which sets out a vision for York and North Yorkshire to become England's first carbon negative region. In the <u>Local Energy Strategy</u> (2020), EVs are identified as an opportunity for reduced energy expenditure. Increasing the uptake of EVs and designing infrastructure with circular principles is one of the key strategic opportunities that has been identified within <u>Creating a competitive</u>, <u>carbon-neutral</u>, <u>circular economy in York and North Yorkshire</u> (2019). A letter of support from York and orth Yorkshire Local Enterprise Partnership is included in this submission.

Andrew Jones MP for Harrogate and Knaresborough is a strong supporter of this proposal and a letter of support that is included in this proposal confirms this.

Harrogate is a centre of conference, exhibition and festivals in North Yorkshire all contributing the strong and varied economy, benefitting residents but also bringing tourists into the region. Harrogate International Festivals, a charitable organisation, is a strong supporter of this proposal and a letter of support that is included in this proposal confirms this.

SECTION D: Air Quality

This section will seek evidence of the air quality challenges in the area and how your plans tackle air quality in the area. Areas should:

- Set out the air quality challenge in the area, such as whether the area is identified in the national assessment as exceeding statutory limits.
- Set out how the proposal would address the local air problem.
- Provide evidence of existing transport plans to tackle air quality and greenhouse gas emissions.

Please limit your response to 500 words.

We will not accept bids covering places that cannot show that they have air quality issues.

Air Quality Challenge

Harrogate Borough Council has declared four air quality management areas (AQMA's) for breaches of the annual mean objective for nitrogen dioxide (NO2). These were declared at Bond End, Knaresborough and Low and High Skellgate, Ripon in 2010, and York Place, Knaresborough and Wetherby Road, Harrogate in 2017. The tables below, taken from Harrogate Borough Council Air Quality Action Plan, showing the source apportionment to bus:

Table 1 York Place, Knaresborough source apportionment.

	Source Apportionment								
	Background	Car	LGV	Rigid HGV	Artic HGV	Bus			
Concentration (µg/m³)	11.8	16.2	1.8	12.1	0.9	3.1			
% Contribution to Total	26	35	4	26	2	7			

Table 2 Bond End, Knaresborough 2014 source apportionment

	Source Apportionment								
	Regional Background	Local Background	Car	LGV	Rigid HGV	Artic HGV	Bus	Motorbike	
Concentration (µg/m³)	6.67	5.14	14.4	6.92	4.46	1.27	7.13	0.069	
% Contribution to Total	14.47	11.15	31.24	15.01	9.67	2.75	15.47	0.15	

Table 4 Wetherby Road, Harrogate source apportionment

2	Source Apportionment							
	Regional Background	Local Background	Car	LGV	Rigid HGV	Artic HGV	Bus	
Concentration (µg/m³)	4.65	5.95	22.38	3.34	8.72	0.64	0.73	
% Contribution to Total	10	12.8	48.2	7.2	18.8	1.4	1.6	

Table 5 Low Skellgate, Ripon source apportionment

	Source Apportionment							
	Regional Background	Local Background	Car	LGV	Rigid HGV	Artic HGV	Bus	
Concentration (µg/m³)	4.22	5.69	22.03	6.56	1.68	0.39	4.99	
% Contribution to Total	9.26	12.49	48.36	14.40	3.68	0.86	10.96	

How the Proposal address the Air Quality Issues

As can be seen from the tables above bus is a contributor to air quality issues in all four Air Quality Management Areas. At it's highest the bus contributes to 15.47% of the total at Bond End Knaresborough. As such the use of the Zero Emission vehicles funded from this proposal will operate on bus routes covering all four Air Quality Management Areas:

York Place, Knaresborough – Service 1 Bond End, Knaresborough – Service 1 Wetherby Road, Harrogate – Service 7 Low Skellgate, Ripon – Service 36

As such there will be there will be a positive impact on the air quality in all four Air Quality Management Areas. The vehicles currently operating on these services are fitted with SCRT exhaust technology (pre CVRAS) and will be reployed elsewhere replacing higher emission buses (Euro 2 or Euro 3), improving air quality elsewhere in the county.

If this proposal is successful customer growth of 6% is anticipated. This estimation is based on the growth achieved by Transdev from investing in electric buses in Harrogate (Sept 2019-Dec 2019 the

electric buses carried 6% more customers than in same period in 2018). Due to the phased approach this would result in additional bus journeys of:

[Redacted]

As a result there will be modal shift from car to bus directly, reducing the number of car journeys and improving air quality.

Existing Plans to Tackle Air Quality Issues

The use of zero emission buses on these routes will complement other measures being delivered in the defined area. North Yorkshire County Council has produced the Harrogate Transport Investment Programme which includes a series of bus priority measures on the routes operated by the 1, 7 and 36 services. Implementation of this will be included in the Bus Services Improvement Plan for North Yorkshire and Transdev has committed to reinvest any buses saved as a result of increases in bus speeds into supplementary improvement (this includes additional frequency, lower fares or additional links – the actions being determined collectively through the Enhanced Partnership).

Within Leeds, the 7 and 36 services have planned infrastructure improvements as part of the Leeds Transport Investment Programme and the Transforming Cities Fund. With electric buses and advanced priorities we are convinced this delivers a step change in transport on already popular high quality corridors.

SECTION E: Value for Money

This section will seek evidence how you meet the Value for Money criteria, as set out in the guidance. Areas are also required to submit a separate value for money proforma that has been published alongside the application form. This spreadsheet requests basic information about the proposed investment to enable the value for money to be assessed using the Department's "Greener bus model".

The information in a completed pro forma, enables the model to estimate the greenhouse gases (GHG) emissions savings, other environmental & social impacts such as reduction in particulate matter (PM) and nitrogen oxide (NoX) emissions and savings & costs in the public and private sectors. By quantifying the key impacts of a proposed investment, this model helps provide decision-makers with as full a view as possible, about impacts on the environment, society, transport operators and the government finances.

The model provides a measure of the 'Value for Money', in the form of a benefit cost ratio (BCR) alongside other metrics such as the total estimated GHG savings and a cost effectiveness indicator estimating the net cost per tonne of carbon saved. These outputs will be used to score bids based on value for money.

The model does not capture every possible impact from a proposed investment, such as impacts from any resulting increases in patronage, improvement to the quality of journeys, or increased reliability. Where wider impacts (positive or negative) from investment are expected these should be stated, in the pro_forma, as non-monetised impacts. These will be considered when making a value for money judgement, as set out in the Department value for money framework.

Competitiveness of the bid

Bus costs and delivery timetables were obtained directly from the vehicle manufacturer and as such represent costs that are the best that can be obtained. Infrastructure costs were obtained by Transdev direct from Northern Powergrid and SSE and the costs are based on its best and realistic estimates at this time. Transdev has considerable experience of installing EV infrastructure in Harrogate and if this bid is successful further discussions will be undertaken to ensure that any systems installed are optimises requirements for ensuring flexibility of developing technology, long terms cost of the electrical supply and compatibility with vehicle types.

Detail of buses to be replaced

- 5 Volvo single deckers with Euro 3 engines with SCRT exhaust technology (pre CVRAS)
- 5 Volvo single deckers with Euro 4 engines with SCRT exhaust technology (pre CVRAS)
- 10 Volvo single deckers with Euro 5 engines with SCRT exhaust technology to CVRAS standards

 these will be cascaded to elsewhere in Transdev's operations to replace higher emission buses
 (Euro 2 or Euro 3)
- 16 Euro 6 Volvo double deckers
- and 3 Euro 5 double deckers with SCRT exhaust technology to CVRAS standard these will be cascaded to elsewhere in Transdev's operations to replace higher emission buses (Euro 2 or Euro 3)

SECTION F: Deliverability

This section will seek evidence of how the Zero Emission Bus Regional Area will be delivered, and demonstrate that plans are credible and deliverable.

F1. Method of delivery and timescale for implementation

Establish the method of delivery, to cover:

- How you will work with local bus operators and other partners to deliver the proposal
- Any public consultation or third-party permission that will be required (e.g. for infrastructure)
- Explain any mitigations put in place for SMEs.
- Timescales for implementation, including when orders will be placed for zero emission buses and when supporting infrastructure will be delivered.
- Please demonstrate how your plans are credible and deliverable in the time proposed, and that any risks have been understood and mitigated

Please limit your response to 1,000 words.

The project will be overseen by North Yorkshire County Council, with Transdev as key delivery partner. Transdev has a proven track record of installing electric vehicle recharging instracture having installed chargers in Harrogate bus station. Preparation for this final stage of converting Transdev's Harrogate fleet to 100% ZEB has been part of their fleet replacement plan. Early engagement with Northern Powergrid and SSE Enterprise provides evidence of a planned approach to ZEB deployment.

A high-level project plan for the delivery and installation of the buses and associated recharging infrastructure will be prepared in conjunction with Transdev and a risk register for the project will also be prepared.

To ensure the objectives of the project are met and costs are managed as robustly as possible there will be a strict governance procedure in place. The Project Sponsor, Assistant Director, Michael Leah and Project Manager, Commercial Sector Service Development Manager, Cathy Knight will constitute the nucleus of the project team which will be able to call on the various specialisms across the service unit and beyond via an established Bus Partnership Reference Group. The Project Sponsor will report regularly, on behalf of the project team, to the Business and Environmental Service Executive Members meetings, chaired by the Senior Responsible Owner, the Corporate Director, Business and Environmental Services, Karl Battersby, where the cost information will be shared.

Public consultation is not required. Infrastructure will be installed at Transdev's Harrogate depot, which is owned and maintained by Transdev.

Timescales for implementation (on the assumption of an announcement of a successful bid in March 2022):

March 2022 – order placed for 10 single deck buses for service 1 to arrive in September 2022

March 2022 – order placed for infrastructure

September 2022 – order placed for 10 single deck buses for service 7 to arrive in March 2023

March 2023 – all infrastructure in place ready for expanded fleet

September 2023 – order placed for 19 double deck buses for service 36 to arrive in March 2024

March 2024 – removal of diesel infrastructure

Risks currently identified (though a full risk register will be prepared as detailed above):

Description	Risk Rating	Mitigating Actions	Residual Risk Rating	Owner
Technical/Construction	•			
Power supply configuration	configuration Medium Early engagement with provider to identify optimum charging plan to maximise flexibility and reduce requirement for additional supply		Low	NYCC/Transdev
Power supply constraints require additional grid upgrades	Medium	Early engagement with Distribution Network Operator. Prepare for usage of temporary battery storage as interim measure pending permanent mains connection.		
Presence of other utilities necessitating diversion works	Medium	Ensure testing is undertaken to identify presence of any obstructing utilities	Low	NYCC/Transdev
Costs				
Presence of other utilities necessitating diversion works	Medium	Ensure testing is undertaken to identify presence of any obstructing utilities	Low	NYCC/Transdev
Electricity supplier inform of additional grid capacity requirements	Medium	Early engagement on requirements or alternative requirements	Low	NYCC/Transdev
Legal				
Delays in agreeing SLA	Medium	Consult with stakeholders and ensure SLA covers requirements of all parties	Low	NYCC
Stakeholders				
Delays from information not being communicated in a timely fashion	Low	Regular meetings/briefings and reporting through project management structure	Low	NYCC
Delayed approvals from stakeholders	Low	Early engagement with stakeholders for their views	Low	NYCC
Programme				
Decision making delays	Medium	Regular meetings/briefings and reporting through project management structure. Early agreement on acceptable tolerances.	Low	NYCC
Scope change	Low	Regular meetings/briefings and reporting through project management structure. Early agreement on acceptable tolerances.	Low	NYCC

F2. Monitoring and evaluation

Please provide indicative details of how monitoring and evaluation will be used to ensure learning about the project and inform future schemes. A detailed monitoring and

evaluation plan is not required at this stage but should explain how the approach to delivering services will ensure that future learning is maximised.

We recognise the importance of effective monitoring and evaluation to capture learnings, informing the design and delivery of future schemes.

Monitoring and evaluation will capture:

- 1. Short-term impacts.
- 2. Longer-term impacts and outcomes.
- 3. Process learning, to capture lessons learned on how the project was managed and implemented.
- 4. Dissemination, through open sharing of data, insights and learning to inform policy and business cases elsewhere.

We will use modern techniques and build the evaluation into the pilot design to ensure we capture the triumphs and learning from favourable and less favourable outcomes from the process. A full plan will be developed in conjunction with Transdev including objectives for evaluation, recording of assumptions etc. An indicative plan is as follows:

- 1. Stage 1: A high-level desktop monitoring and evaluation exercise.
- 2. Stage 2: A comprehensive evaluation to update the Stage 1 findings with the addition of new data.
- 3. Stage 3: Post implementation evaluation together with lessons learnt.
- 3. Dissemination: We will actively disseminate findings to maximise learning for future schemes by publishing findings and participating in any relevant knowledge sharing initiatives

F3. Procurement, State Aid and subsidy rules

Please confirm you have received advice on legal requirements in relation to procurement, subsidy control and state aid.

Please also demonstrate how you will abide by legal requirements in relation to procurement, subsidy control and state aid, including an explanation, together with supporting evidence, of how you will comply with the principles under the UK-EU Trade and Cooperation Agreement.

Please limit your response to 500 words.

Procurement

- Whenever NYCC propose to purchase goods or services they are required to follow NYCC's own Contract and Financial Procedure Rules which reflect the statutory requirements that authorities are subject to under the Public Contract Regulations 2015 (and any equivalent legislation)
- NYCC Procurement Team review all projects on a case by case basis to determine and assess the
 nature of the expenditure, its contractual value and the optimal means by which to achieve a value
 for money compliant process. This includes market engagement, risk analysis and a review of best
 practice
- NYCC are proposing to undertake a procurement exercise to appoint any supplier to provide the services under this project and therefore it is not envisaged that there will be any contravention of the subsidy control regime (see below)

Subsidy Control (formerly state aid)

 Any potential subsidy arising in respect of contractors can addressed by ensuring no overcompensation is present. This may be evidenced either by selecting suppliers through an open and competitive market exercise or benchmarking their remuneration at market rate

- Despite our comments above NYCC is familiar with the UK Subsidy Control regime following the cessation of EU State Aid Rules
- NYCC is aware of the BEIS published guidance for public authorities, Complying with the UK's
 international obligations on subsidy control: guidance for public authorities which it has regard to
 when providing subsidies and the 5 steps that NYCC (as a public authority) must consider when
 awarding subsidies from 1 January 2021
- NYCC acknowledges that the TCA's subsidy control provisions (Chapter 3 of Title XI-which applies
 to goods and services) are of direct relevance to subsidies it grants and are required to meet the
 terms of all of the 'principles' set out in the TCA (or expose itself to a risk of challenge by way of
 judicial review). TCA defines a 'subsidy' by way of its four-fold test all four elements of which need
 to be established
- NYCC will not grant a subsidy "where it has or could have a material effect on trade or investment between the Parties", and ensures compliance with TCA by having in place an effective system of subsidy control determining that the granting of an individual subsidy respects the six principles.
- NYCC is aware the lawfulness of any other subsidy would be actionable only where it has, or could have, a negative effect on UK/EU trade and investment.
- The risk that it may distort competition within the UK may be increased particularly where given to
 only some economic actors in a particular geographic region such as NYCC Transport Authority
 area. NYCC intends to mitigate any such risk by awarding grants, resulting from any successful bid
 for ZEBRA funding, to local bus operators only after the conclusion of an open, transparent,
 competitive bidding exercise, run and managed by NYCC's procurement team, for the award of any
 such subsidy.