

Notice of a public meeting of

Climate Change Policy and Scrutiny Committee

- To:** Councillors Vassie (Chair), Baker (Vice-Chair), S Barnes, Fisher, Wann, Perrett and Melly
- Date:** Wednesday, 7 July 2021
- Time:** 5.30 pm
- Venue:** Remote meeting

AGENDA

This is not a formal meeting of this Scrutiny Committee. The Council is operating its scrutiny and decision making meetings in accordance with statutory requirements relating to holding 'Covid-safe' meetings between 7 May and 19 July 2021. As non-decision making bodies, Members of this Council's Scrutiny Committees will continue to hold public informal sessions remotely for the purpose of commenting only on the business set out in the agenda below. Members of the public may register to speak in the usual way set out below.

1. **Declarations of Interest**

At this point, Members are asked to declare:

- any personal interests not included on the Register of Interests
- any prejudicial interests or
- any disclosable pecuniary interests

which they may have in respect of business on this agenda.

2. **Minutes** (Pages 1 - 12)

To approve and sign the Minutes of the meeting held on Tuesday 9 March 2021, and to approve and sign the updated minutes of the meeting held on Tuesday 8 December 2020.

3. **Public Participation**

At this point in the meeting members of the public who have registered to speak can do so. Members of the public may speak on agenda items or on matters within the remit of the committee. Please note that our registration deadlines have changed to 2 working days before the meeting, in order to facilitate the management of public participation at remote meetings. The deadline for registering at this meeting is at **5.00pm on Monday 5 July 2021**.

To register to speak please visit <http://www.york.gov.uk/AttendCouncilMeetings> to fill out an online registration form. If you have any questions about the registration form or the meeting please contact the Democracy Officer for the meeting whose details can be found at the foot of the agenda.

Webcasting of Remote Public Meetings

Please note that, subject to available resources, this remote public meeting will be webcast including any registered public speakers who have given their permission.

The remote public meeting can be viewed live and on demand at www.york.gov.uk/webcasts. During coronavirus, we've made some changes to how we're running council meetings. See our coronavirus updates (www.york.gov.uk/COVIDDemocracy) for more information on meetings and decisions.

4. Climate Change Resident Engagement Plan (Pages 13 - 40)
The Committee will consider a report which provides an overview of the Council's approach to resident engagement and its role delivering the York Climate Change Strategy.

5. Net Zero Carbon: Key Performance Indicators (Pages 41 - 48)
The Committee will consider a report which will detail the Key Performance Indicators required to monitor progress against the Council's ambition to achieve net zero carbon emissions for York by 2030.

6. Urgent Business
Any other business which the Chair considers urgent under the Local Government Act 1972.

Democracy Officer:

Name: Joseph Kennally
Telephone: (01904) 551573
E-mail: joseph.kennally@york.gov.uk

For more information about any of the following please contact the Democratic Services Officer responsible for servicing this meeting:

- Registering to speak
- Business of the meeting
- Any special arrangements
- Copies of reports and
- For receiving reports in other formats

Contact details are set out above.

This information can be provided in your own language.


我們也用您們的語言提供這個信息 (Cantonese)

এই তথ্য আপনার নিজের ভাষায় দেয়া যেতে পারে। (Bengali)

Ta informacja może być dostarczona w twoim (Polish)
własnym języku.

Bu bilgiyi kendi dilinizde almanız mümkündür. (Turkish)

یہ معلومات آپ کی اپنی زبان (بولی) میں بھی مہیا کی جاسکتی ہیں۔ (Urdu)

 **(01904) 551550**

City of York Council

Committee Minutes

| | |
|-----------|--|
| Meeting | Climate Change Policy and Scrutiny Committee |
| Date | 8 December 2020 |
| Present | Councillors Vassie (Chair), Baker (Vice-Chair), S Barnes, D Myers, Wann, Melly and Fenton (substitute for Cllr Fisher) |
| | The Committee were also joined by non-voting co-oped Terry Smithson from Yorkshire Wildlife Trust. |
| Apologies | Councillor Fisher |

1. Declarations of Interest

At this point, Members were asked to declare any personal interests not included on the Register of Interests, prejudicial interest or any disclosable pecuniary interests which they may have in respect of business on the agenda. None were declared.

2. Minutes

Resolved: That the minutes of the meeting held on the 10 March 2020 be signed as a correct record, subject to an amendment to the recommendations to item 36. One Planet York Update. To read that the Committee resolved: That the Committee recommended to the Executive that it explore One Planet York's involvement in any Climate Change Commission that could be set up.

3. Public Participation

It was reported that there had been no registrations to speak under the Council's Public Participation Scheme.

4. Climate Change Strategy

The chair outlined the actions taken by Council since in 2019 declaring a Climate Emergency and agreeing to a target of York becoming Net Carbon Zero by 2030. It was noted that the Carbon Pathway presentation received by the Committee did not target Net Carbon Zero by 2030, however it was outlined that the Council maintained its commitment to becoming Net Carbon Zero by 2030. The chair also highlighted the progress he felt the

Council had made and that the Council should be in a stronger position to decarbonise than it had been a year ago.

The Committee welcomed the Council's new Head of Carbon Reduction officer who provided a presentation on the formation of the York Climate Change Strategy and provided an update on the role of the York Climate Change Commission. It was then agreed that Members would use the information from the presentation provided to inform discussion in the next item on York Emissions Reporting & Carbon Neutral Ambition.

Resolved:

- i. The Committee noted the presentation on the York Climate Change Strategy.

Reason: So that the Committee remain updated on the progress of the York Climate Change Strategy.

5. York Emissions Reporting & Carbon Neutral Ambition

Officers introduced the report and discussed the challenges of York reaching net zero carbon by 2030 including government policy, available technology, and cost to the Council. The Committee discussed the amended objectives and the opportunity to link up with objectives from other organisations in the region. While the significant challenge of achieving net zero carbon for York by 2030 was noted, a pathway taking us beyond this date could still keep emissions across the city at a level that contributes to limiting global temperature increase to 1.5C. Members supported the amendments based on the data provided, but stressed the importance of aiming to meet these objectives quickly and being a leader in decarbonisation and to encourage other organisations to also aim to meet the same targets as the Council.

The Committee supported the objective for the Council to become net zero carbon by 2030, noting that it would allow the Council to provide a leading role in the city. However, it was confirmed that there would be challenges to achieving this goal and officers confirmed that this would likely not include services that were not wholly delivered by the Council. Other examples that would likely not be included were housing provided by housing associations or Waste collection services provided by organisations such as YorWaste. The Committee noted that they would welcome the opportunity to review the objective for the Council to become net zero carbon by 2030, once more detail was confirmed.

Members discussed the importance of a roadmap to plan out the Councils objectives, as well as, the potential benefits to create clear plans for projects which can attach external and government funding. Members enquired as to whether the Council could include a Local Energy Area Energy Plan, it was confirmed this could be a benefit to produce a plan and would allow the Council to work with third parties to develop energy production solutions within the Council's territory. The Committee also considered wider challenges in planning and working with developers and suggested that the Council consider special planning documents to improve higher energy standards in the city.

The estimated cost of York reaching net carbon zero being between £1.1 and £2.3 billion was discussed. It was noted that the city would require external funding to be able to deliver this including Government funding programmes. It was confirmed that while it would cost a lot to deliver net carbon neutral, the costs to achieve this would create a cost benefit to many of the projects delivered. With this in mind the Committee recommended the Council identify quick wins and areas to achieve a net zero carbon York which would be the most challenging.

Resolved:

- i. Noted the evidence for setting a decarbonisation pathway for York and support the ambition for making the city carbon neutral ahead of the Climate Change Policy which will be produced in Spring 2021.
- ii. The Committee recommended that the Executive make a commitment to achieving a net zero carbon council by 2030.
- iii. That the Executive Member for Environment and Climate Change use best endeavours to ensure planning is sufficiently resourced to deliver the special planning documents required to ensure higher energy standards in York.

Resolved: To ensure the Committee remain updated on the progress towards the creation of the Council's Climate Change Policy and to promote the objective of making York net carbon neutral.

6. York Climate Commission

Members were joined by the Executive Member for Environment and Climate Change for the item. Officers introduced the report setting out the rationale for the creation of the York Climate Commission. The Executive Member noted the importance of Commission to bring together stakeholders across the city to advise the Council and promote positive change in helping York reach its Climate Change objectives.

The Committee discussed the proposed commission and expressed concerns regarding the lack of proposed members from a range of sectors across the city. The Executive Member noted that recommendations for who could be invited to join the commission were made from across the Council, and that while some of those approached had turned down the opportunity to join the commission, she noted that there would be an opportunity for new members to join or be part of working groups. It was agreed that it was important that members on the commission came with strong expertise to share and a desire to actively engage in the commission's work.

The Committee discussed how the terms of reference could be amended, to ensure key stakeholders could be added to the commission, as well as, engage York's wider public. The Committee also discussed whether there would be a benefit to involving cross party representation on the commission, as voting or non-voting members. Members of the Committee requested if it would be possible to provide a list of all stakeholders that were approached about joining the commission and how the council undertook the work of making invitations.

The role of the Executive Member for Environment and Climate change was discussed in both the setting up of the proposed membership of the commission and their role as the first chair of the commission. The Committee agreed to recommend that the terms of reference state that a new chair be elected within 12 months of the commission's formation. The Committee also noted that the terms of reference could be clearer in setting out how new stakeholders could join and how chairs of the commission would be selected in future years.

Members also suggested that this Committee should receive more updates from the commission from what was currently recommended. The importance of ensuring that the commission does not duplicate the work of the Committee was highlighted, as well as, concern that the commission could overlap work with One Planet York, an organisation the Council had a role in setting up, but was currently struggling financially to continue its work in the city.

Resolved:

- i. That this Committee receive regular updates or minutes from the meeting of the York Climate Commission;
- ii. That the Terms of Reference be amended to confirm that the Executive Member for Environment and Climate Change would not exceed 12 months as chair of the commission;

- iii. That the Committee receive a presentation at a future meeting on performance indicators showing how we can reach a carbon council and city.

Reason: To support the creation of the York Climate Commission and to ensure the Committee continues to support the Council in achieving its carbon reduction ambitions.

Cllr C Vassie, Chair

[The meeting started at 5.30 pm and finished at 7.47 pm].

This page is intentionally left blank

| | |
|-----------|---|
| Meeting | Climate Change Policy and Scrutiny Committee |
| Date | 9 March 2021 |
| Present | Councillors Vassie (Chair), Baker (Vice-Chair), Fisher and Wann |
| Apologies | Councillors S Barnes |

7. Declarations of Interest

At this point, Members were asked to declare any personal interests not included on the Register of Interests, prejudicial interest or any disclosable pecuniary interests which they may have in respect of business on the agenda. None were declared.

8. Minutes

The Committee discussed the minutes from meeting held on the 8 December 2020. A number of grammatical corrections were requested and it was noted that under item 4. Climate Change Strategy a correction was made with the section worded 'He (the chair of the Committee) noted that while the Council was no longer targeting net zero for the whole city by 2030, he highlighted the progress he felt the Council had made and that the Council should be in a stronger position to decarbonise than it had been a year ago.' Be amended to read 'It was noted that the Carbon Pathway presentation received by the Committee did not target Net Carbon Zero by 2030, however it was outlined that the Council maintained its commitment to becoming Net Carbon Zero by 2030. The chair also highlighted the progress he felt the Council had made and that the Council should be in a stronger position to decarbonise than it had been a year ago.'

Resolved: That the minutes from the meeting held on the 8 December 2020 be amended and brought to the next meeting of the Committee.

9. Public Participation

It was reported that there had been two registrations to speak under the Council's Public Participation Scheme.

Deborah Cobbett raised a number of concerns and questions to the Committee firstly on the minutes of the last meeting, she also raised

concerns that the Council was becoming less ambitious at tackling climate change and Countries like the UK needed to be proactive not doing the minimum required. She highlighted that the Committee had held discussions with senior managers from a number of organisations and recommended that the Committee widen its participation. Finally she questioned the use of Council communications and how magazines like 'Our City' would advertise the work of things like the Climate Commission and a Council Road Map.

Tom Franklin spoke as the chair of the York Green Party and raised concerns regarding the Key Performance Indicators for a Zero Carbon Road Map as outlined in the Agenda. He highlighted that they did not take into account areas such as food, flying, or concrete. He asked that the Council maintain its commitment to a zero carbon York by 2030 and noted a number of recent decisions the Council had made including a decision regarding waste vehicles as a sign the Council was not doing all it can to achieve net carbon natural. Finally he raised concerns about the impact on the climate the duelling of the outer ring road would cause.

10. Carbon Literacy Training

The Committee discussed the training provided by Speak Carbon to the Committee on 2 March 2021, that was designed to provide an overview of the course and allow committee members to evaluate the effectiveness and appropriateness of this format for a wider rollout. It was noted that the session was too short for its intended purpose and two hour sessions could be ineffective at delivering effective Carbon Literacy training. Members also discussed whether the training could be too broad as it was proposed in the meeting and how it could be altered to be more effective.

Discussion took place as to the purpose of the training and who it should prioritise being targeted too. Focusing on phrase one in the report that would recommend to the Executive Member whether to seek to commission training for Councillors, senior management, and Internal climate emergency groups. The Committee supported an approach that targeted those with the ability to create structural change across the city. However, they also recommended that training should link into a specific groups area of work and help facility ideas on how to reduce Carbon production; this could include studying examples where services are delivered in more carbon producing efficient way and how this was achieved.

Members discussed what could be undertaken prior to training and how to deliver tailored training to avoid a one size fits all approach. Consideration was taken as to how and whether the a pre-training consultation could take

place with those selected to attend in order to identify what they would be seeking to learn from the training and their current Carbon Literacy.

Resolved:

- i. That the Committee requested that a consultation be organised for councillors and senior officers to establish current Carbon Literacy.
- ii. That the Committee requested a procurement specification to be produced for the training provision and to be bought back to the Committee to consider the specification and provide feedback.

Reason: To ensure the Committee can recommend the most effective Carbon Literacy training for the Council to commission.

11. York's Tree Canopy Expansion Target

The Committee considered a report on the York's Tree Canopy Expansion Target. Officers confirmed the White Rose Forest were aiming to introduce a tree planting target, a proposal would promote an ambition for a 13% target for tree canopy cover by 2050 in York, equating to around 22-27 ha per annum. This target would result in an annual carbon sequestration rate at 2050 of circa 9,000tCO₂ per year; equivalent to around 1% of the regions total CO₂ emissions between 2020-2050.

Members considered how ambitious a target of 13% would be, noting that this would be an increase of 2.2% from the city's current average rate. However, it was also noted that funding for a sustained increase would be costly and could equate to requiring a similar budget to that set out for the Northern Forrest by the Council of approximately £3 million every two years. Discussion highlighted that the funding of any increase would not be able to come solely from the Council and that new industries could be encouraged in the city that would take advantage of new woodland. This highlighted the potential benefit of sustainable forestry and how this could feed into local building practices.

Members were provided with an update as to how York's planning department were incorporating things such as tree planting into their work and on the creation of Green Infrastructure Supplementary Planning Documents. The Committee noted the update and expressed a desire to be able to feed into the creation of the Green Infrastructure Supplementary Planning Documents.

Resolved:

- i. That the Committee would recommend to the Executive Member that the Council adopt a minimum of 13% tree canopy coverage in York by 2050;
- ii. That the Committee requested to be consulted on the production of the Green Infrastructure Supplementary Planning Documents.

Reason: To bring York in line with the national average on tree canopy coverage and to assist the city in reducing its net carbon production.

12. Establishing Key Performance Indicators to drive a Zero Carbon Roadmap for York

Officers introduced the item on establishing key performance indicators (KPIs) and noted the prior consideration the Committee had provided on producing indicators to drive a Zero Carbon Roadmap for York. Discussion took place regarding whether or not the proposed indicators were broad enough to be capable of capturing the cities progress in a range of areas effectively. Members also highlighted the need for robust monitoring if the City was gain the maximum benefit from KPIs being set.

The importance of incorporating climate change into Council performance indicators to ensure it was taken into account across different areas of the city was highlighted, but it was also noted that focus needed to be on delivery of projects that reduced carbon production, not only on how accurate a baseline of recording that could be produced.

Resolved:

- i. To request a future item be added to the work plan with Business Intelligence to discuss how the Council can embed climate change into the Council's performance indicators.

Reason: To ensure the Council considers its impact on climate change across all of its services.

13. Work Plan 2020/21

The Committee considered whether it had any further items it would wish to be considered for its work plan, as well as, discussing the importance of including climate emergency in the Committees name.

Resolved:

- i. To add an update on how the Council will use its communications to highlight how the Council is tackling climate change and how it will advertise residence the work of the York Climate Commission.

Reason: To ensure residents are aware of the work that is being done in York to tackle climate change and to ensure residents are kept engaged and aware of how they can be involved.

Cllr Vassie, Chair

[The meeting started at 5.30 pm and finished at 7.26 pm].

This page is intentionally left blank



7 July 2021

Climate Change Scrutiny Committee

Report of the Head of Carbon Reduction

Portfolio of the Executive Member for Environment and Climate Change

Climate Change Resident Engagement Plan

Summary

1. This paper provides an overview of the Council's approach to resident engagement and its role delivering the York Climate Change Strategy.
2. The Climate Change Resident Engagement Plan follows the principles set out in the Council's Resident Engagement Strategy. It recognises the interdependencies between addressing climate change impacts and for example, how people travel or work in York and sets out to create alignment with the development of other core strategies, including the Local Transport Plan and the Economic Strategy.
3. Stage 1 of the Resident Engagement Plan launched with Our Big Conversation on 18 June 2021 ([Join Our Big Conversation to shape York's future! – City of York Council](#)) and will run until 31 July 2021. Stage 2 will run July to September and include stakeholder roundtables focussed on the main themes of Buildings, Transport and Energy.
4. Scrutiny are invited to consider how wide participation and resident engagement can lead to an ambitious and inspiring strategy

Background

5. In April 2021, the Executive approved the Resident Engagement Strategy, which set out a new council-wide approach to engaging residents to better support delivery of the Council Plan priorities and inform the development and delivery of future core strategies.
6. The Resident Engagement Strategy aims to create a more cohesive programme of resident engagement that consolidates emerging

feedback and learns from previous engagement to ensure approaching residents for their views and opinions is more inclusive, more joined-up and leads to a more consistent and aligned strategic direction. The Resident Engagement Strategy focuses on how residents live, work and travel in and through York and is known as “our big conversation” [Our Big Conversation – City of York Council](#).

7. One of the core strategies currently under development is the Climate Change Strategy. Delivering the council’s net-zero carbon ambition by 2030 will require significant change across the city, supported by bold leadership and strategic decision-making.
8. The evidence base for the strategic direction will combine the work completed to date at a local and regional level with the resident engagement programme set out below. It will also draw on the expertise of existing and emerging stakeholder networks, the York Climate Change Commission and the Yorkshire and Humber Climate Change Commissions, together with understanding wider environmental, technological, societal and political impacts.
9. Climate change activity can be categorised into two streams (mitigation and resilience). The City of York Council are addressing both streams through carbon reduction work and through work on flood alleviation, biodiversity, overheating and food security.
10. The Climate Change Engagement Plan clarifies our approach to engagement and its role in the development of the Strategy together with its alignment with engagement activity for the Local Transport Plan and Economic Strategy, approved at Decision Sessions in April and May.

Climate Change Engagement Plan

11. The Climate Change Strategy is a strategy for the whole city. It will set out the principles that support decision making at all levels over the years ahead to help York to contribute to reducing carbon, locally and regionally.
12. To be successful, all parts of the city will have a role to play, especially residents and businesses. It is therefore essential the council takes every effort to listen to as wide a range of community and residents’ perspectives as possible. This will help ensure the strategy is both realistic and deliverable, whilst being ambitious enough to inspire change.

13. The Carbon Reduction Engagement Plan addresses the first phase of engagement. It identifies the audiences and feedback required to inform development of the Strategy. Engaging residents will be a core theme of the strategy and continue throughout the duration of the strategy, with many more phases of engagement to follow this first phase.
14. The plan follows the principles of the Resident Engagement Strategy; it will ensure that key audiences understand each other's perspectives and explore responses together, so their feedback can inform multiple strategies, including the Local Transport Plan and the Economic Strategy.
15. Key audiences for climate change engagement have been identified within the plan together with the main channels of communication (see **annex A**). Audiences are listed per theme with many duplicated across all themes. This demonstrates the interdependencies between transport, economy and carbon reduction and why none of the strategies can be taken in isolation.
16. Objectives of resident engagement are to:
 - i. Raise awareness of the different stages and opportunities residents can engage
 - ii. Create broadcast opportunities to feedback on activities and projects
 - iii. Facilitate targeted opportunities to encourage participation
 - iv. Draw on partners and networks
 - v. Publish the decision making schedule relating to the strategy development
17. The Plan (annex A) details the approach in the initial phase of engagement; a single core survey – Our Big Conversation – that reflects the interdependence of each the key themes, provides contextual insight, diversifies the audience engaging with each strategy and avoids repetition.

Our Big Conversation – stage 1

18. Our Big Conversation launched on 18 June 2021. The launch has been promoted through a press release, signposting at York Festival of Ideas, social media posts and a Partner Toolkit (including posters, postcards and social media/newsletter copy).

19. Additional planned promotion includes further social media advertising, working with online community groups, building advocacy through existing internal and external channels and networks, promoting in all resident and business bulletins (which now includes 200 climate change e-newsletter subscribers), community/interest group workshops and a Live facebook engagement discussion, planned for the middle of July. Masterclasses are also being arranged to provide an opportunity to learn more about the themes and how other cities are responding.
20. The survey is open until 31 July with fortnightly insight updates published to identify emerging themes and feed into the design and development of the Climate Change Strategy.
21. An information dashboard will visualise the data from respondents.
22. Participation to date is included in Annex A – 195 survey completions and 95 social media conversations in about 6 days since the online survey went live with paper copies from the *Our City* survey still being collated.

Stakeholder Roundtables – stage 2

23. Throughout July, a series of thematic roundtables will be held to provide a greater depth of feedback and local context to inform and refine the Climate Change Strategy.
24. The roundtables will cover the priority areas of buildings, transport and energy and delve into the barriers and opportunities facing residents, businesses, community groups and partners, together with likely scenario planning, horizon scanning funding and grants opportunities.
25. Stakeholders will be identified and invited drawing on the Audience Map (annex A), developed as part of the Climate Change Engagement Plan,

Climate Change Strategy Timescale

26. The current timescale is to produce a draft strategy in August 2021. At this point, the second stage of engagement will continue with deeper analysis and review and targeted focus groups.
27. Following Executive approval, the Draft Climate Change Strategy will then be issued for wider resident consultation (ie. Stage 3 of this resident

engagement programme) and, depending on the level and type of feedback, be published in late 2021.

28. The Climate Change Engagement Plan will be updated to reflect the increasing importance and focus to inform, involve and monitor progress against the Climate Change Strategy.

Recommendations

Scrutiny are asked to review the report and annex and consider:

- The extent to which resident engagement can inform and improve the feasibility, achievability and aspirations detailed in the final strategy
- The extent to which this plan encourages inclusive participation of residents and partners

Council Plan

29. The Climate Change Engagement Plan relates to the ambitions for York to achieve net carbon zero and the Greener and Cleaner outcome.

Implications

- **Financial** – the financial implications were noted in the Resident Engagement Strategy and are contained within existing budgets.
- **Human Resources (HR)** – there are no HR implications
- **One Planet Council / Equalities** – the activities described in this report support the ambitions to be a sustainable city. A Community Impact Assessments will be developed.
- **Legal** – there are no legal implications in relation to this report.
- **Crime and Disorder** – there are no crime and disorder implications in relation to this report.
- **Information Technology (IT)** – there are no IT implications in relation to this report
- **Property** – there are no property implications in relation to this report.
- **Other**

Risk Management

23. The list of risks are below:

Impact: resident engagement is not a decision making forum, however to be successful, feedback will need to clearly inform the next stage of evidence

collation to inform strategy. Tensions between resident perspectives will require sensitive but open handling.

Transparency: to be effective resident engagement must be visibly open and accessible to all. This includes publishing feedback and recruiting participants from across York. This brings the risk of publically highlighting significant challenges.

Representative views: there is a risk that those individuals who are keen to participate are not representative of the wider population. To minimise this risk engagement activities are being provided at a household level through Our City to ensure everyone has an equal opportunity to take part.

Contact Details

Author:

Shaun Gibbons
Head of Carbon Reduction
Corporate Strategy

Tel No. 07923 222971

Chief Officer Responsible for the report:

Claire Foale
Assistant Director Policy and Strategy

Report **Date** 29.06.2021
Approved

Wards Affected:

All

For further information please contact the author of the report

Background papers

- [Agenda for Executive on Thursday, 22 April 2021, 5.30 pm \(york.gov.uk\)](#) Item 123
- [Agenda for Decision Session - Executive Member for Transport on Tuesday, 11 May 2021, 10.00 am \(york.gov.uk\)](#) item 84
- [Agenda for Decision Session - Executive Member for Economy and Strategic Planning on Tuesday, 27 April 2021, 11.00 am \(york.gov.uk\)](#) Item 44

Annexes

Climate Change Engagement Plan

This page is intentionally left blank

Carbon Reduction Engagement Plan

Version 1.0 | June 2021

1. Scope
2. Fit with Wider Engagement
3. Engagement Activity
4. Audiences
5. Objectives
6. Inclusivity
7. What we already know
8. Key decision points
9. Evidence gather
10. Evaluation and learning framework

I. Scope

This resident engagement plan addresses the first phase of the engagement for the Climate Change Strategy. This plan identifies the audiences and feedback required to develop the right approach to inform and support the development of the Climate Change Strategy, which will lead to further engagement in stage two. It will deepen insight into the needs and aspirations of key audiences, informing recommendations.

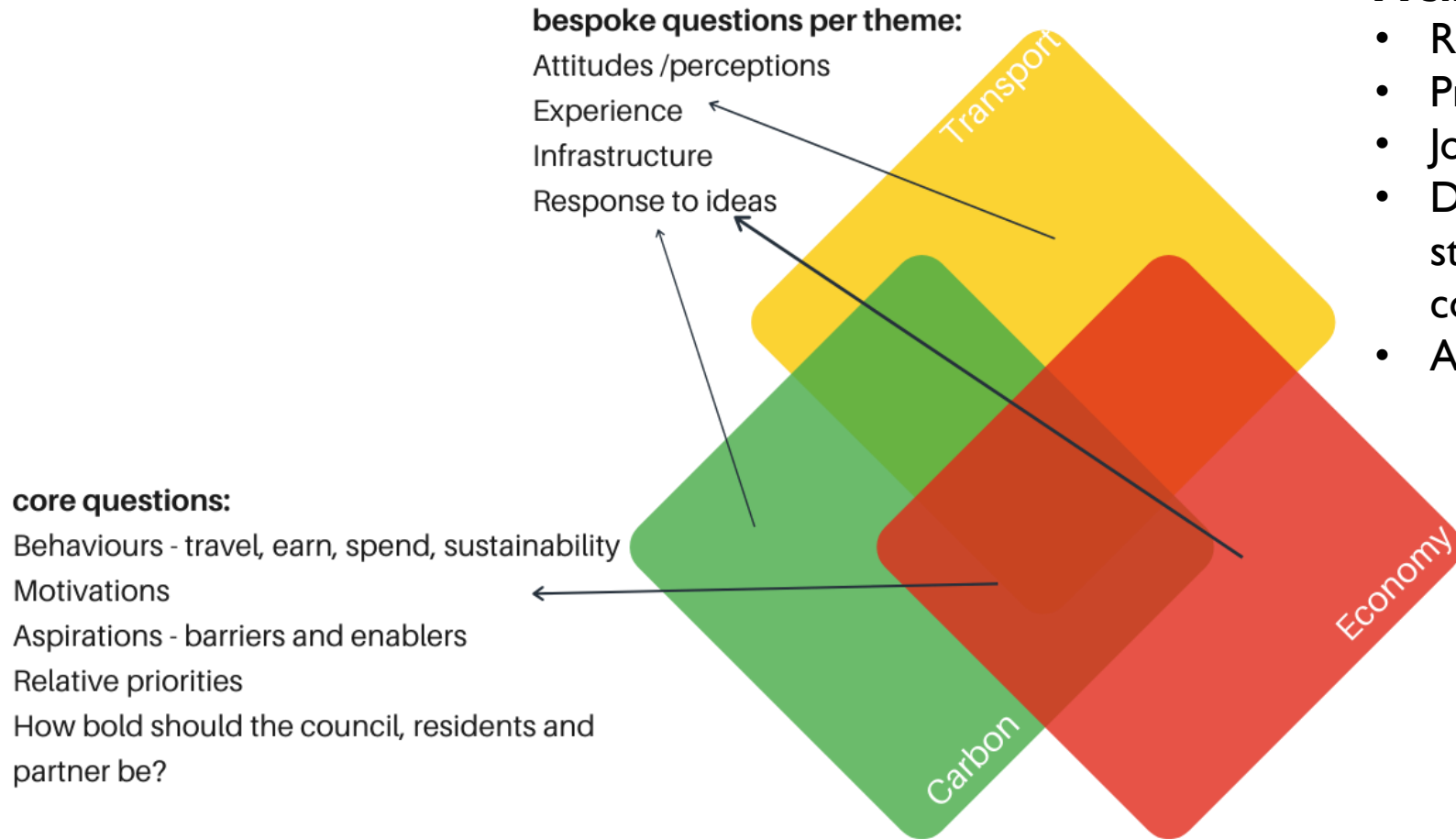
The resident engagement plan follows the principles of the council's resident engagement strategy. The engagement approach will make sure key audiences understand other perspectives and explore responses together and that insight will inform multiple strategies, including Local Transport Plan and the Economic Strategy.

The engagement plan is mindful of overlap with two other core strategies, the economy and local transport plan, as well as other projects including My City Centre, My Castle Gateway and City Centre Access together with engagement activities that has either already taken place, or is underway that will surface issues that affect both transport and carbon

reduction. This includes Woodlands, Navigation Road and Groves engagement activities. Given the interdependence of the three core strategies, it proposes a single initial phase of engagement – Our Big Conversation - to gain diverse and deeper resident feedback and to avoid repetition.



Three strategies – one conversation



A single core survey:

- Reflects the interdependence of each theme
- Provides contextual feedback and insight
- Joins the dots
- Diversifies the audience engaging with each strategy – increasing understanding of complexity and other perspectives
- Avoids repetition

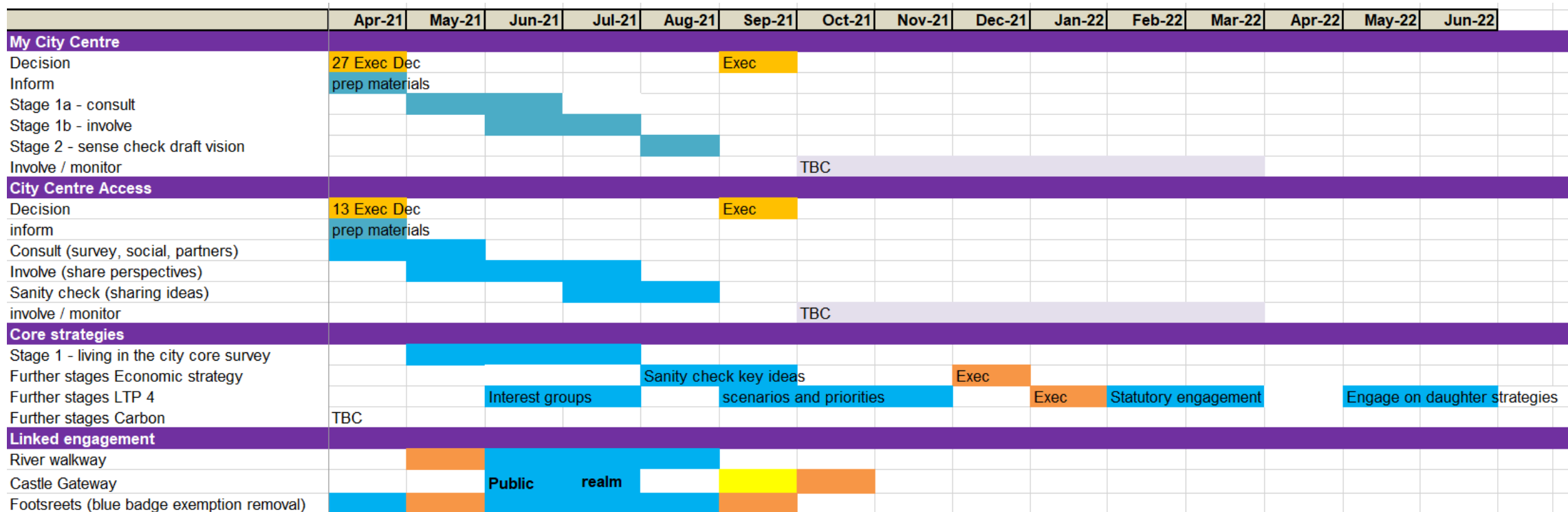


2. Fit with Wider Engagement

Each strategy will benefit from resident feedback gained from **linked engagement exercises**.

The engagement will complement the conversation shaping three emerging core strategies: Local Transport Plan, Carbon Strategy and the Economic Strategy.

Our Big Conversation



3. Engagement activities by stage

| Stage | Process | Engagement activities |
|-------------------------------|---|--|
| Stage 1 <i>Summer 2021</i> | Consult Explore the broad scope | Online Survey (living in the city) Postcard polls Social media conversations (analysed) Thematic webinars Targeted partner workshops |
| Stage 2 <i>Autumn 2021</i> | Inform and involve Test draft strategy and opportunities | Deeper analysis and review Stakeholder roundtables Commission targeted focus groups |



4. Audiences

- **Broadcast:** city wide to all households (e.g. via *Our City* the resident newsletter), in public spaces where possible and via social media and digital communications (e.g. Gov Notify)
- Demographic data will be collected where possible
- **Targeted for example:**
 - Local Disability Forum
 - Citizens Transport Forum (Civic Trust)
 - Age Friendly York
 - Residents aged 16-30 years
 - Young people aged under 16



Audience Map: Economy

| Audience | Network/Partners | Engagement tools | Comms Channels |
|---|--|---|--|
| Residents – cross section of York population and representation of all communities of identity/interest | Ward members Res associations Engagement map under development – partners and networks for all communities of identity and York geographies | Online Survey Curate social conversations Webinars by theme | Live Q&As PR Social incl facebook groups Partner network cascade Resident Email Newsletter |
| Commuters – from and into York | Quality Bus Network Bus forum, York Bike Belles, York Cycle Campaign Local employers | Existing partner data Online survey Curate social conversations | Live Q&As PR Social Partner network cascade Resident Email Newsletter |
| Lower paid sectors | Hospitality – York Hospitality Health and care workers - Unions? | Online and offline survey Focus groups | Targeted social, media |
| Unemployed/underemployed and NEETS | CAB, JC-plus Training providers | CAB interviews | |
| Young Residents (age 16-24 years old) | York Youth Council Schools Show me I matter | Online survey Workshop Commission additional research | Zoom Social media Partner network cascade |
| Working (and would-be) working parents, | Mumbl, Little Vikings, Schools, nurseries, post-natal healthcare | On and offline surveys | In settings, school FB groups and other comms |
| Women | Women’s business networks | Attend networks | |
| Businesses | Indie York, York BID, Make it York, traders associations Business Membership Groups – FSB, Chamber, IoD Professional Services Sector specific partners e.g. York Retail Forum, York Hospitality Association | Online Survey Curate social conversations incl LinkedIn Sector roundtables Insight briefings Special interest sessions e.g. Property Forum, Chamber events etc. | Business Bulletin & Partner network (cascade) PR Social What do you need to recover? Campaign to draw micros and SMEs into conversation |
| Teachers/education | York Education comms | ANNEX 1 | |

Audience Map: Transport

| Stakeholder | Network/Partners | Tool | Communications Channels |
|---|--|---|---|
| Residents – cross section of York population and representation of all communities of identity/interest | Ward members Resident’s associations Citizen’s Transport Forum (Civic Trust) Engagement map under development – partners and networks for all | Online Survey Curate social conversations Webinars/Mastclasses by theme | Live Q&As PR Social Partner network cascade Resident Email Newsletter |
| Commuters – from and into York. | Quality Bus Network Bus forum, York Bike Belles, York Cycle Campaign Local employers | Existing partner data Online survey Curate social conversations | Live Q&As PR Social Partner network cascade Resident Email Newsletter |
| Disabled groups and Blue Badge Holders | Footstreets channel map YDRF | Online survey | Advocacy organisations cascade PR Social campaign, tagging network reps |
| Young Residents (age 16-30 years old) | York Youth Council Schools/Colleges/Universities Show me I matter | Online survey Workshop Commission additional research | Zoom Social media Partner network cascade |
| Special Interest Groups | Including Citizens Transport Forum (Civic Trust); Bike Belles; York Bus Forum; Walk York etc. | Online survey Workshop inc. Citizens’ Forum Academic event | Zoom Social media Advocacy organisations cascade |
| Councillors | Ward members, parish councillors | Regular Member briefings | Internal |
| Businesses | BID, Indie York, Make it York, York Retail Forum Location-specific traders associations | Online Survey Curate social conversations | Business Bulletin, Partner network cascade BID Rangers PR Social |
| Taxis | | PR Taxi Times | PR Social Rep bodies |
| Delivery drivers | TBC - Professional/rep bodies; Sustainable delivery companies | Stakeholder interviews (will be covered in strategic city centre access and parking review) | York BID, Partner cascade |

Audience Map Carbon Reduction

| Audiences | Channels + corporate rhythm of resident, member and partner updates ... | |
|---|---|--|
| Parents | <ul style="list-style-type: none"> - York Mumbler - Schools/headteachers newsletter - Healthy child service - Internal comms | |
| Residents (as walkers/cyclists, families commuters and leisure users) | Corporate comms and engagement channels including social ads and in Our City Local media, plus key national media to frame York as positive/national leader – #AskThe Leaders Q&A featuring partners and advocates - | |
| Businesses/organisations | <ul style="list-style-type: none"> - Leaders Group; Sectoral round tables - Local Ward Committees - Economic development team networks and databases (using Business Friendly Council membership)– Apprenticeships - Yorkshire and Humber Regional Climate Change Commission - York Climate Change Commission - University of York - Nestle - Rollits - First Group - Joseph Rowntree Foundation. - Environmental groups - York environment Forum - York Community Energy - St Nicks - Edible York - Knapton Allotment association - York Tree Wardens - RSPB - Cycling groups: - Sustrans - York Bike Belles, | <ul style="list-style-type: none"> - One Planet York - Employment Hub, Maki it York, York BID - Representatives/intermediary organisations (FSB, Property Forum, Retail Forum, Chamber, LEPS) - Local traders associations; markets, Micklegate, Gillygate, Fossgate - Adapted MY City Centre steering group - Professional service providers (accountants, lawyers, landlords) - LinkedIn, Business bulletin, business-facing accounts and influencers across social platforms - Travel and transport sectors (Bus, train, cycling, deliveries) - City of York heads of comms group - ITravel team targeting city employers - Universities transport leads/student marketing teams - Live well York |
| Community groups | <ul style="list-style-type: none"> - Community Facebook groups - York Civic Trust - Ward councillors and parish councillors - York CVS - Communities teams - York Cares - Talkabout panel - York Bus forum - CAB- Residents Associations – Friends of groups | |
| Young people | <ul style="list-style-type: none"> -Schools and colleges -Show me that I matter -York Youth Council -Universities - Skills team – Sports clubs – Scouts/Guides etc – school councils – FE Colleges including: Askham Bryan and York College Universities and Research Institutes – Stockholm Institute, York St John, York Uni, Sheffield Uni | |
| Disabled people / people with accessibility issues | <ul style="list-style-type: none"> - Liaison group established – but never convened – for My City Centre including representative groups | |
| Older people | <ul style="list-style-type: none"> - YOPA - Age UK - OCAY -Libraries -Falls Prevention team - YBPS -Wilberforce Trust -Care home providers? | |
| Our Big Conversation | Running in parallel with this engagement programme (see separate communications/engagement plan) | |

5. Engagement Objectives

Reflect the resident engagement strategy and LGA engagement spectrum.

1. **Raise awareness of the different stages and opportunities to engage** through corporate and partner channels, signposting the engagement activities on the web and drawing participants to a shared online conversation.
2. **Create broadcast opportunities to feedback** on activities and projects, collating demographical information to ensure inclusive.
3. **Facilitate targeted opportunities** to ensure that specific resident concerns and aspirations are reflected, joining up engagement activities with the 10 year plan, economic strategy and carbon reduction action plan and delivering engagement activities that reflect current restrictions – signposting an online survey that is open to all (to allow the collation of data whilst providing easy and accessible bite-sized engagement activities)
4. **Draw on partners and networks** such as the Economic Partnership, York Civic Trust forum and Age Friendly forum and incorporate their advice into the recommendations that are tested through further engagement (above)
5. **Publish the decision making schedule** relating to the strategy development allowing participants to influence through open democracy.



6. Engagement will be inclusive to address:



Lack of internet access

Users who struggle with literacy are unlikely to use the internet alone and would not use the internet as their main source of coronavirus information



Reliance on family and friends

Users who tend to rely on family and friends to support them with tasks that require reading, but not all users have access to that support



Trusted & respected local figures

Respected figures and organisations that people listen to can help build trust in the service and dispel existing myths and alternative narratives



Information is confusing and does not land with the community

Official information is confusing and inconsistent and does not resonate with the user group. Thus, people get alternative narratives from social media and WhatsApp



Visual methods of passing information are beneficial

Pictures, videos, icons and physical signage are beneficial to users as they are visual and easier to quickly understand and engage with



Familiar settings and staff

Engagement activities in familiar places could reduce feelings of fear or exclusion and may increase uptake

7. What we already know

- General York modal shift: Increased bus use (aging generation), decrease cycling.
- Talk York evidence based (2019)
- Annual budget consultations (2019, 20, 21)
- First and Park & Ride customer data/feedback
- Modal shift data throughout 2020
- Commonplace insight (Summer 2020)
- **Climate Emergency declaration and net-zero target 2030**
- YORR: Enabling less city centre congestion and orbital cycle route.
- Mobility considerations and learning from Foot streets engagement
- National picture of modal shift due to changed habits e.g. remote working
- E-scooter trial and E-Bike scheme in the city
- Groves and Navigation Road Low Traffic Neighbourhood engagement/consultation – resident benefits vs commuter inconvenience
- Strategic review of city centre access and parking taking place summer 2021.



8. Key decision points

What has already been decided?

- What are the financial, practical and legal limitations to changes?
- Climate Emergency and aim for Carbon Neutrality in 2030
- Greener, cleaner city and supporting residents to get around sustainably (Council Plan Priorities)
- Council motion December 2019 removing non-essential journeys from city centre

What points of influence are there?

- Has the pandemic changed travel and living habits for good?
- What would you want to change to enable you to travel sustainably? Routes, restrictions, city centre, off-road paths.
- Secondary centres and areas of interest outside of the city centre?



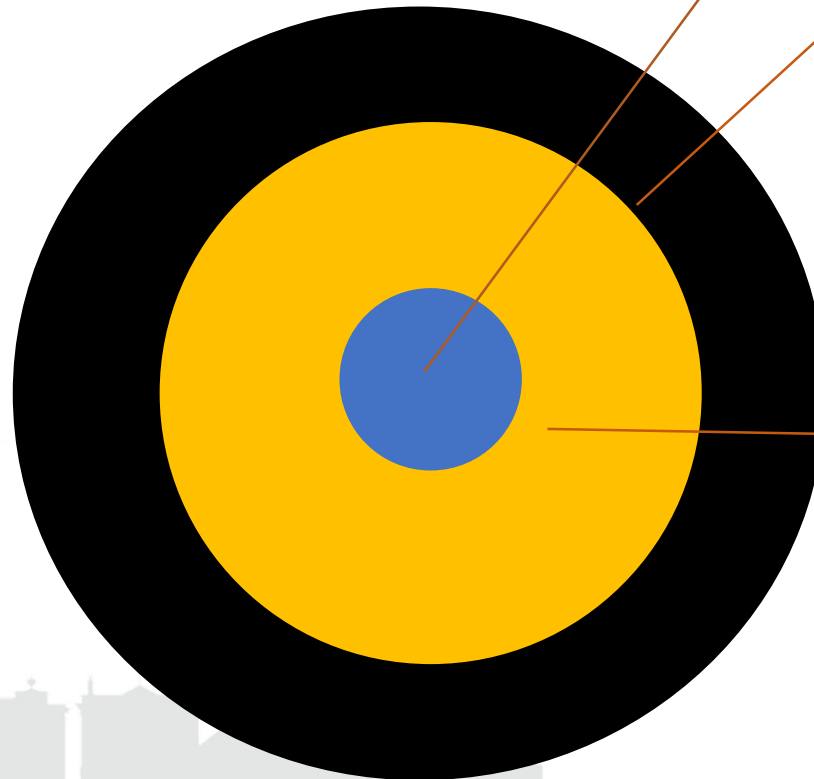
9. Evidence gather

At the heart of each stage of engagement is an online evidence gathering tool (to be confirmed). All engagement activities will signpost this to provide multiple access points. The purpose of the evidence gathering tool is to collate demographics and perspectives, and supplemented by:

- broadcast opportunities to feedback
- targeted opportunities
- partners and networks involvement



Online Survey “let’s talk about living in York”
– distributed via partners and media



Broadcast engagement

- Master class
- Offline option ????
- Thematic webinars
- Social media conversations
- Postcard polls
- Our City

Targeted engagement

- Targeted community workshops
- Targeted partner workshops





| | | | | |
|--|---|--|--|---|
| <p>Provide balanced and objective info:</p> <ul style="list-style-type: none"> - Existing insight - Constraints - Points of influence | <p>Gain feedback and analysis on alternatives, deepen understanding of need from some groups</p> | <p>Sharing perspectives and understanding competing demands for ltd space</p> | <p>Gain feedback and analysis on emerging proposals</p> | <p>Measure impact and support implementation of recommendations</p> |
| <p>Engagement activities</p> | | | | |
| <p>Social media key Qs CYC landing page Areas of influence and future constraints Web pages including Video content Member briefings</p> | <p>Updated web pages Online Survey (living in the city) Postcard polls distributed through community/public spaces Social media conversations (analysed) Thematic webinars Targeted community workshops Targeted partner workshops Thematic masterclasses – the art of the possible</p> | <p>Updated web pages Online survey - deeper analysis and review – Publish community briefs – use to encourage response to big ideas / transport forum discussion points Masterclasses – expertise /examples from elsewhere Thematic workshops Commission targeted focus groups Social media conversations (analysed)</p> | <p>Updated web pages Online survey – curate conversations Social media - present feedback and emerging ideas, curate conversations Partner interviews</p> | <p>Attend established fora of partner groups for feedback</p> |
| <p>Broadcast</p> | | | | |
| <p>Signpost to web landing pages and mailing lists/resident eng lists Our City Partner/rep orgs cascade Media activity</p> | <p>PR Social campaign Targeted Social media ads Social communities Partner/rep orgs cascade Media activity Recruit diverse population to engagement, incl Transport Forum</p> | <p>PR Social campaign Targeted Social media ads Social communities Partner/rep orgs cascade Media activity</p> <p style="text-align: center;">ANNEX 1</p> | <p>PR Social campaign PR Social campaign Targeted Social media ads Social communities Partner/rep orgs cascade Media activity</p> | |

Executive decision

10. Evaluation and learning framework

| Objective | Indicator | Tools to measure | Learning questions |
|--|--|--|--|
| Increase participation | Diversity by survey demographic data Engagement map - % engaged across communities (geographical and interest/identity) | Demographic data on surveys Partners / networks reached on engagement map | Which communities engage with which |
| Build confidence in engagement opportunities | Levels of participation – and trust - from under-represented communities Social media sentiment | Feedback surveys Focus groups (testing recognition, attitudes, repeat engagement, progress along framework, perception of levels of influence) | Was it easy to share your views? Do you feel listened to? Do you feel this has had influence? Would you engage again? |
| Surface tensions and increase understanding/ cooperation | Diversity of attendance at multi-community workshops/conversations (by target audience per theme) Produce and publish community briefs for each engagement theme # interactions (comments, shares) with each brief | Demographic data Sentiment of views exchanged Analytics of web page / platform if purchased Content of public speakers/press sentiment after decision published | Do audiences understand each other's aspirations? Do audiences want to compromise their aspirations to accommodate others? |
| Support better decisions | # new perspectives added Stakeholder response to process and recommendations | Feedback / wash-up session with project leads and exec Stakeholder endorsement and advocacy | How has engagement informed our approach? Has engagement led to a more informed decision? |

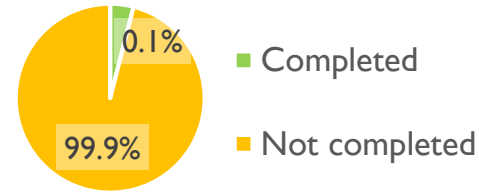
Annex A

Resident participation to date
(23 June 2021 – 6 days)

Our Big Conversation Dashboard

| | |
|--------------------------------|-----|
| Total survey participants: | 195 |
| Total social media engagement: | 92 |

% of York population who have completed survey



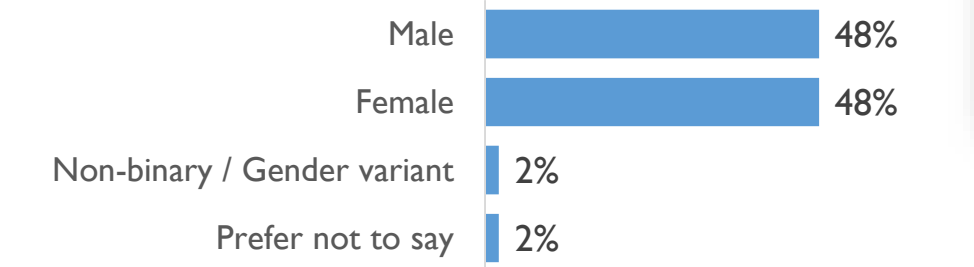
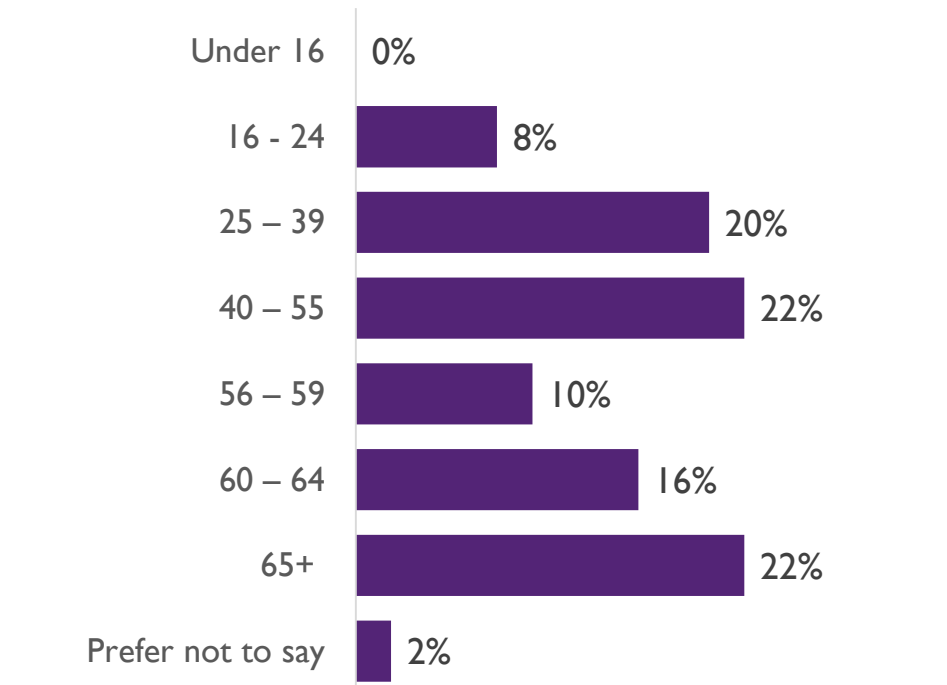
Example of current social media:



Survey audience breakdown

Age (131 responses)

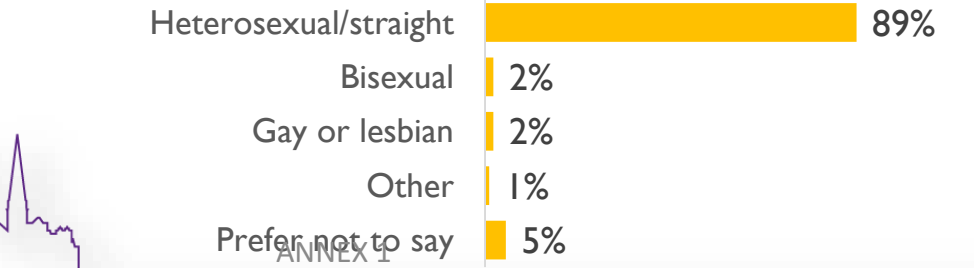
Gender (132 responses)



Gender same as sex registered at birth (131 responses)



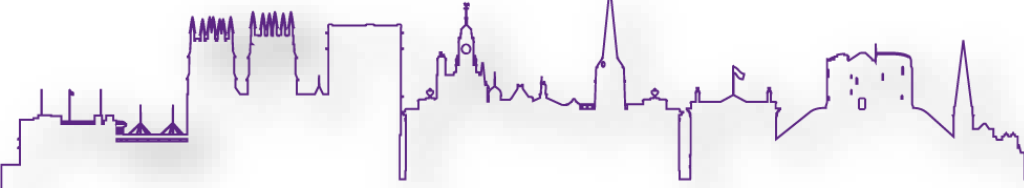
Sexual orientation (130 responses)

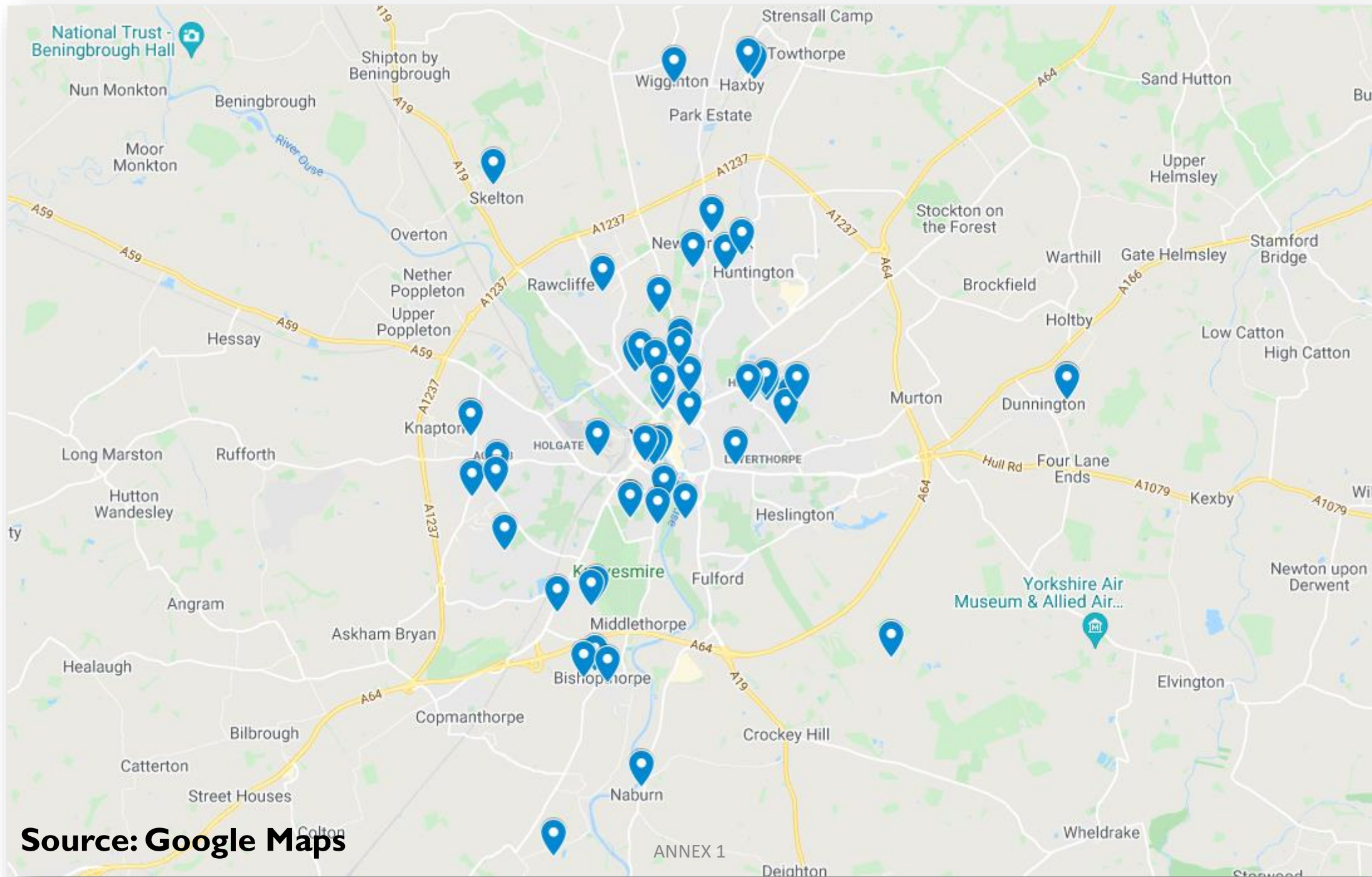


Partners and influencers:

- University of York shared OBC link at Festival of Ideas
- Our City magazine distribution underway (began 17 June)
- OCAY sharing social media
- Collating potential panellists for July Live Facebook Q&A discussion.

N.B. Totals may not add up to 100% due to rounding





Source: Google Maps

This page is intentionally left blank



Climate Change Scrutiny Committee

7 July 2021

Report of the Head of Carbon Reduction

Portfolio of the Executive Member for Environment and Climate Change

Net Zero Carbon: Key Performance Indicators

Summary

1. The Council has set an ambition for York to achieve net zero carbon by 2030. A set of performance indicators are required to monitor progress against this ambition.
2. The Council Plan made a commitment to providing this data:
 - i. Carbon emissions across the city
 - ii. Level of CO₂ emissions from council buildings and operations (Net emissions)
3. KPI data will be reported on an annual basis

Background

4. City of York Council (CYC) announced a climate emergency in March 2019; subsequently setting an ambition for York to be carbon neutral by 2030
5. To monitor progress against this ambition, a standardised set of key performance indicators is required, covering both corporate emissions from CYC activity and city-wide emissions.
6. The key performance indicators would cover two of the three data commitments to monitor progress of a Greener and Cleaner City in the Council Plan.¹
7. CYC last reported corporate emissions in 2011/12, with Scope 1 & Scope 2 CO₂e emissions totalling 25,000 tonnes in that year.

¹ The third being a Citywide KPI on air quality

8. In previous years, the 'Emissions of carbon dioxide for Local Authority areas'² published by the Department for Business, Energy and Industrial Strategy has been used to estimate emissions for the whole of York. This methodology tends to underestimate emissions compared to the SCATTER tool, which includes a greater number of data inputs.
9. In 2020, CYC completed a detailed emissions inventory of the city for the first time, using the SCATTER Tool. Total emissions were 910,000 (Scope 1 and 2) or 1,121,660 (Scope 1, 2 and 3) for that year.

Corporate Emissions

10. The proposed list of KPIs for corporate emissions is presented below:

| Source | Unit | Total | CO2 | Comments |
|-----------------------------|--------------------|-------|-----|---|
| CYC buildings - Electricity | kWh | | | Since 2019 all electricity consumed by CYC buildings is from 100% renewable sources |
| CYC buildings - Gas | kWh | | | Include summary of top emitting sites |
| CYC buildings - Water | ltrs | | | Not currently recorded |
| Corporate Waste | tonnes | | | Include split of recycling rates |
| CYC Fleet | ltrs/fuel type | | | Include number of electric vehicles and % of total CYC fleet |
| Business travel | miles/vehicle type | | | Separate journeys by vehicle type |
| Land use | Trees planted | | | Trees planted by CYC on our own land and used to offset corporate emissions |

11. Government published annual greenhouse gas conversion factors will be used to calculate the carbon emissions from each source³ and the Woodland Carbon Code Calculator will be used to calculate emission savings from tree planting⁴

² <https://data.gov.uk/dataset/723c243d-2f1a-4d27-8b61-cdb93e5b10ff/emissions-of-carbon-dioxide-for-local-authority-areas>

³ <https://www.gov.uk/government/collections/government-conversion-factors-for-company-reporting>

⁴ <https://woodlandcarboncode.org.uk/standard-and-guidance/3-carbon-sequestration/3-3-project-carbon-sequestration>

12. A dashboard summarising the data will be provided, along with a report providing a more detailed breakdown.
13. The KPIs will be recorded annually, allowing for close monitoring of progress against our net zero ambition. Data will be made available through the York Open Data Platform and KPI machine.
14. We are in the process of updating procurement policies to include information of supplier’s carbon emissions. At present, there is no reliable way of calculating our Scope 3 emissions; however, this will be included in the future following a review of procurement policy.

City Wide Emissions

15. A city-wide emissions inventory will be compiled using the SCATTER Tool. SCATTER is a local authority focussed emissions tool developed using funding from The Department for Business, Energy and Industrial Strategy (BEIS)
16. SCATTER standardises greenhouse gas reporting and aligns to international frameworks, including the setting of targets in line with the Paris Climate Agreement. It is also compliant with the reporting standards of The Global Covenant of Mayors’ Common Reporting Framework (CRF) and Carbon Disclosure Project (CDP).
17. The tool is free to use for all local authorities in the UK.
18. The Performance Indicators generated from the SCATTER Tool are presented below:

| Sector | Sub-sector | Scope 1 | Scope 2 | Scope 3 | |
|--------------------------|--------------------------------------|-------------|-------------|-------------|-------------|
| | | Total tCO2e | Total tCO2e | Total tCO2e | Total tCO2e |
| | | DIRECT | INDIRECT | OTHER | TOTAL |
| Stationary energy | Residential buildings | | | | |
| | Commercial buildings & facilities | | | | |
| | Institutional buildings & facilities | | | | |
| | Industrial buildings & facilities | | | | |

| | | | | | |
|---|-------------------------------|--|--|--|--|
| | Agriculture | | | | |
| | Fugitive emissions | | | | |
| Transportation | On-road | | | | |
| | Rail | | | | |
| | Waterborne navigation | | | | |
| | Aviation | | | | |
| | Off-road | | | | |
| Waste | Solid waste disposal | | | | |
| | Biological treatment | | | | |
| | Incineration and open burning | | | | |
| | Wastewater | | | | |
| Industrial Process & Product use | Industrial process | | | | |
| | Industrial product use | | | | |
| Land Use | Livestock | | | | |
| | Land use | | | | |
| | Other AFOLU | | | | |
| Generation of grid-supplied energy | Electricity-only generation | | | | |
| | CHP generation | | | | |
| | Heat/cold generation | | | | |
| | Local renewable generation | | | | |

19. The approach is based on the Accounting and Reporting Standard developed by the Greenhouse Gas Protocol, the Global Protocol for Community-Scale Greenhouse Gas Emission Inventories.
20. The datasets are drawn from publicly available information. Further information on the data and methodology is available at: <https://scatter-staging.anthesis.systems/pages/methodology/>
21. Latest data currently available is 2 years in arrears and reported annually.

22. A Report Summary will be produced alongside the complete inventory and available data will be reported through the quarterly Financial & Performance monitors, which will include narrative on city actions when appropriate.
23. To improve transparency and allow city partners and service providers to benefit from access, data will be made publicly available through the York Open Data Platform.

Council Plan

24. The net zero carbon key performance indicators relates to the ambitions for York to achieve net carbon zero and the Greener and Cleaner outcome.

Implications

- **Financial** – there are no financial implications
- **Human Resources (HR)** – there are no HR implications
- **One Planet Council / Equalities** – the activities described in this report support the ambitions to be a sustainable city.
- **Legal** – there are no legal implications in relation to this report.
- **Crime and Disorder** – there are no crime and disorder implications in relation to this report.
- **Information Technology (IT)** – the majority of information being recorded is already captured in some format. Some of this information is reported through the York Open Data Platform. Consolidating this data into one place will make it easier for the public to access
- **Property** – there are no property implications in relation to this report.
- **Other**

Risk Management

23. There are no known risks in relation to the recommendation of this report.

Contact Details

Author:

Shaun Gibbons
Head of Carbon Reduction
Corporate Strategy

Tel No. 07923 222971

Chief Officer Responsible for the report:

Claire Foale
Assistant Director Policy & Strategy

Report **Date** 29/06/2021
Approved

Wards Affected:

All

For further information please contact the author of the report

Annexes

York SCATTER Summary Report 2020

ANNEX 1 - Summary greenhouse gas emissions York (metric tonnes CO2e)

| Sector | Sub-sector | Scope 1 | Scope 2 | Scope 3 | |
|------------------------------------|--------------------------------------|-------------|-------------|-------------|-------------|
| | | Total tCO2e | Total tCO2e | Total tCO2e | Total tCO2e |
| | | DIRECT | INDIRECT | OTHER | TOTAL |
| Stationary energy | Residential buildings | 208,042.87 | 111,596.36 | 52,255.90 | 371,895.12 |
| | Commercial buildings & facilities | 36,333.08 | 16,240.48 | 8,639.06 | 61,212.62 |
| | Institutional buildings & facilities | 57,255.24 | 82,066.56 | 22,348.41 | 161,670.21 |
| | Industrial buildings & facilities | 45,817.56 | 47,572.47 | 15,510.47 | 108,900.50 |
| | Agriculture | 3,590.15 | 1.49 | 857.40 | 4,449.05 |
| | Fugitive emissions | - | - | - | - |
| Transportation | On-road | 249,545.86 | IE | - | 249,545.86 |
| | Rail | 7,131.96 | IE | 1,700.49 | 8,832.46 |
| | Waterborne navigation | 6.33 | NO | 1.51 | 7.84 |
| | Aviation | - | IE | 110,039.34 | 110,039.34 |
| | Off-road | - | IE | - | - |
| Waste | Solid waste disposal | 27,250.81 | - | - | 27,250.81 |
| | Biological treatment | - | - | - | - |
| | Incineration and open burning | - | - | - | - |
| | Wastewater | 12,981.81 | - | - | 12,981.81 |
| IPPU | Industrial process | 0.01 | - | NE | 0.01 |
| | Industrial product use | 0.00 | - | NE | 0.00 |
| AFOLU | Livestock | 3,108.45 | - | NE | 3,108.45 |
| | Land use | - 0.01 | - | NE | - 0.01 |
| | Other AFOLU | NE | - | NE | - |
| Generation of grid-supplied energy | Electricity-only generation | - | - | - | - |
| | CHP generation | 1,490.60 | - | 275.31 | 1,765.90 |
| | Heat/cold generation | - | - | NE | - |
| | Local renewable generation | - | NE | NE | - |

| Notation keys: |
|------------------------------|
| Not Occuring |
| Integrated Elsewhere |
| Not Estimated |
| Confidential |
| Combination of notation keys |
| N/A |
| Required |
| Optional |

This page is intentionally left blank