## Road map to zero: The transition to 100% Zero Emission Buses, what it means for people, and the journey to get there.



Client: Stagecoach

Fieldwork dates: 12/11/21 to 15/11/21

Interview method: Online

Population effectively sampled: 2021 UK adults aged 18+

Online sampling method: A nationally representative sample was selected at random from the LUCID marketplace and the sample was selected in proportion to population distribution.

Sample size: 2,217

Data weighting: Data was weighted to the profile of all adults aged 18+. Data was weighted by sex, region, and age. Targets for the weighted data were derived from the Office for National Statistics.

**Presentation of questions:** The computer tables attached in PDF format show each question, in full, in the order they were put to respondents, including all response codes and the bases for all demographics.

In all questions where the responses are a list of parties, names, or statements, these will typically have been displayed to respondents in a randomising order.

Questions where there is a 'natural order' to responses (e.g., numerical responses, ordinal scales such as 'strongly disagree' to 'strongly agree', or factual questions (e.g., demographics) will not have been randomised.

Some questions may not have been asked to all respondents, for example in cases where they were filtered based on answers to previous questions to ensure that respondents were only asked relevant questions. This will affect the base size of the question.

Further enquiries: research@wacomms.co.uk

British Polling Council: WA Communications is a member of the British Polling Council and abides by its rules <a href="https://www.britishpollingcouncil.org/">https://www.britishpollingcouncil.org/</a>

Q4. How often do you use local bus services, if at all?

Column % Gender Age

|                                  | Total | Male  | Female | 18-24 | 25-34 | 35-44 | 45-54 | 55-64 | 65 and over |
|----------------------------------|-------|-------|--------|-------|-------|-------|-------|-------|-------------|
| Never                            | 23%   | 23%   | 22%    | 15%   | 16%   | 14%   | 24%   | 29%   | 34%         |
| A few times a year or less often | 28%   | 28%   | 28%    | 20%   | 20%   | 28%   | 25%   | 29%   | 39%         |
| About once a month               | 9%    | 8%    | 11%    | 11%   | 13%   | 10%   | 11%   | 7%    | 6%          |
| A few times a month              | 12%   | 12%   | 13%    | 18%   | 10%   | 15%   | 16%   | 12%   | 6%          |
| Once or twice a week             | 14%   | 16%   | 13%    | 15%   | 22%   | 16%   | 13%   | 10%   | 10%         |
| A few times a week or more often | 13%   | 13%   | 13%    | 22%   | 18%   | 17%   | 12%   | 13%   | 4%          |
| Non-bus user                     | 51%   | 51%   | 50%    | 35%   | 37%   | 42%   | 49%   | 58%   | 73%         |
| Bus user                         | 49%   | 49%   | 50%    | 66%   | 63%   | 58%   | 51%   | 42%   | 27%         |
| Base n                           | 2,217 | 1,037 | 1,162  | 200   | 405   | 373   | 418   | 375   | 438         |

| Column %                           |       |                 |          |       | Bus u                                     | sage                     |                           |                            |  | Gen  | der    |       |       | Ag    | е     |       |                |
|------------------------------------|-------|-----------------|----------|-------|---|--------------------------|---------------------------|----------------------------|--|------|--------|-------|-------|-------|-------|-------|----------------|
|                                    | Total | Non-bus<br>user | Bus user | Never | A few<br>times a<br>year or<br>less often | About<br>once a<br>month | A few<br>times a<br>month | Once or<br>twice a<br>week | A few<br>times a<br>week or<br>more<br>often | Male | Female | 18-24 | 25-34 | 35-44 | 45-54 | 55-64 | 65 and<br>over |
| 1 - Very bad impression            | 5%    | 7%              | 3%       | 9%    | 4%  | 2%                       | 2%                        | 3%                         | 4%   | 5%   | 4%     | 6%    | 3%    | 6%    | 4%    | 6%    | 3%             |
| 2                                  | 3%    | 4%              | 3%       | 5%    | 3%  | 4%                       | 3%                        | 2%                         | 2%   | 4%   | 2%     | 4%    | 3%    | 2%    | 3%    | 3%    | 4%             |
| 3                                  | 6%    | 9%              | 3%       | 8%    | 9%  | 4%                       | 5%                        | 2%                         | 3%   | 6%   | 6%     | 7%    | 6%    | 5%    | 5%    | 7%    | 7%             |
| 4                                  | 7%    | 10%             | 4%       | 10%   | 9%  | 5%                       | 6%                        | 4%                         | 3%   | 6%   | 8%     | 7%    | 9%    | 9%    | 6%    | 7%    | 6%             |
| 5                                  | 13%   | 17%             | 9%       | 18%   | 17%                                       | 10%                      | 10%                       | 8%                         | 7%   | 10%  | 15%    | 14%   | 14%   | 14%   | 14%   | 11%   | 11%            |
| 6                                  | 11%   | 13%             | 8%       | 10%   | 15%                                       | 9%                       | 11%                       | 8%                         | 6%   | 10%  | 11%    | 14%   | 13%   | 8%    | 12%   | 11%   | 8%             |
| 7                                  | 13%   | 11%             | 15%      | 9%    | 13%                                       | 16%                      | 17%                       | 14%                        | 12%  | 14%  | 12%    | 17%   | 14%   | 14%   | 11%   | 11%   | 11%            |
| 8                                  | 17%   | 11%             | 24%      | 7%    | 14%                                       | 22%                      | 22%                       | 28%                        | 21%  | 19%  | 16%    | 17%   | 14%   | 18%   | 19%   | 17%   | 18%            |
| 9                                  | 9%    |                 | 14%      | 1%    |   | 13%                      | 13%                       | 13%                        | 18%  | 11%  | 8%     | 6%    | 10%   | 9%    | 9%    | 10%   | 9%             |
| 10 - Very good<br>impression       | 10%   | 4%              | 15%      | 3%    | 5%  | 13%                      | 10%                       | 17%                        | 20%  | 9%   | 10%    | 9%    | 11%   | 10%   | 11%   | 7%    | 10%            |
| NET Bad impression (1+2+3)         | 14%   | 19%             | 9%       | 23%   | 16%                                       | 11%                      | 10%                       | 6%                         | 9%   | 16%  | 12%    | 17%   | 12%   | 13%   | 11%   | 17%   | 14%            |
| NET Middling bad impression (4+5)  | 20%   | 27%             | 13%      | 28%   | 26%                                       | 14%                      | 16%                       | 11%                        | 11%  | 17%  | 23%    | 21%   | 23%   | 23%   | 19%   | 18%   | 17%            |
| NET Middling good impression (6+7) | 23%   | 24%             | 23%      | 19%   | 27%                                       | 25%                      | 28%                       | 22%                        | 18%  | 24%  | 23%    | 30%   | 26%   | 22%   | 23%   | 23%   | 20%            |
| NET Good impression (8+9+10)       | 36%   | 19%             | 53%      | 12%   | 25%                                       | 49%                      | 45%                       | 58%                        | 60%  | 38%  | 35%    | 31%   | 35%   | 37%   | 39%   | 34%   | 38%            |
| I have no opinion of them          | 7%    | 11%             | 2%       | 18%   | 5%  | 1%                       | 1%                        | 3%                         | 3%   | 5%   | 7%     | 2%    | 3%    | 5%    | 7%    | 8%    | 11%            |
| Average                            | 6.3   | 5.4             | 7.2      | 4.9   | 5.8                                       | 7.0                      | 6.8                       | 7.4                        | 7.4  | 6.4  | 6.3    | 6.1   | 6.4   | 6.3   | 6.5   | 6.1   | 6.5            |
| Base n                             | 2,072 | 997             | 1,075    | 413   | 584                                       | 207                      | 270                       | 307                        | 291  | 981  | 1,075  | 196   | 391   | 354   | 388   | 346   | 389            |

Q9. As part of the UK trying to reach net-zero carbon emissions, bus companies are being asked by the government to replace traditional diesel buses with zero-emission buses (either electric or hydrogen powered). What impact, if any, do you think a move to zero-emission buses would have on the following things?
The amount of bus services at evenings and weekends

| Column %              |       |                 |          |       | Bus u                                     | sage               |                           |                            |  | Gen   | der    |       |       | Ag    | e     |       |                |
|-----------------------|-------|-----------------|----------|-------|---|--------------------|---------------------------|----------------------------|--|-------|--------|-------|-------|-------|-------|-------|----------------|
|                       | Total | Non-bus<br>user | Bus user | Never | A few<br>times a<br>year or<br>less often | About once a month | A few<br>times a<br>month | Once or<br>twice a<br>week | A few<br>times a<br>week or<br>more<br>often | Male  | Female | 18-24 | 25-34 | 35-44 | 45-54 | 55-64 | 65 and<br>over |
| Get much better       | 9%    | 5%              | 13%      | 5%    | 5%  | 8%                 | 10%                       | 15%                        | 17%  | 10%   | 8%     | 14%   | 12%   | 12%   | 9%    | 6%    | 4%             |
| Get a bit better      | 15%   | 10%             | 19%      | 7%    | 12%                                       | 20%                | 19%                       | 18%                        | 20%  | 14%   | 15%    | 21%   | 20%   | 21%   | 11%   | 10%   | 8%             |
| Make no<br>difference | 50%   | 56%             | 45%      | 53%   | 58%                                       | 47%                | 47%                       | 45%                        | 40%  | 52%   | 49%    | 34%   | 42%   | 42%   | 55%   | 61%   | 60%            |
| Get a bit worse       | 12%   | 11%             | 13%      | 11%   | 12%                                       | 14%                | 13%                       | 10%                        | 13%  | 11%   | 12%    | 15%   | 16%   | 13%   | 11%   | 9%    | 9%             |
| Get much worse        | 6%    | 7%              | 4%       | 9%    | 5%  | 6%                 | 5%                        | 3%                         | 4%   | 7%    | 5%     | 9%    | 5%    | 5%    | 6%    | 6%    | 6%             |
| NET Better            | 23%   | 15%             | 32%      | 12%   | 17%                                       | 27%                | 30%                       | 34%                        | 37%  | 24%   | 23%    | 35%   | 32%   | 33%   | 20%   | 16%   | 12%            |
| NET Worse             | 18%   | 18%             | 17%      | 20%   | 17%                                       | 21%                | 18%                       | 14%                        | 17%  | 18%   | 17%    | 24%   | 20%   | 17%   | 17%   | 15%   | 15%            |
| Don't know            | 9%    | 11%             | 6%       | 15%   | 8%  | 5%                 | 5%                        | 8%                         | 6%   | 7%    | 11%    | 9%    | 6%    | 8%    | 8%    | 8%    | 13%            |
| Base n                | 2,217 | 1,122           | 1,095    | 506   | 616                                       | 209                | 272                       | 315                        | 299  | 1,037 | 1,162  | 200   | 405   | 373   | 418   | 375   | 438            |

Q9. As part of the UK trying to reach net-zero carbon emissions, bus companies are being asked by the government to replace traditional diesel buses with zero-emission buses (either electric or hydrogen powered). What impact, if any, do you think a move to zero-emission buses would have on the following things?
How punctual and reliable services were

| Column %              |       |                 |          |       | Bus u                                     | sage               |                           |                            |  | Gen   | der    |       |       | Ag    | е     |       |                |
|-----------------------|-------|-----------------|----------|-------|---|--------------------|---------------------------|----------------------------|--|-------|--------|-------|-------|-------|-------|-------|----------------|
|                       | Total | Non-bus<br>user | Bus user | Never | A few<br>times a<br>year or<br>less often | About once a month | A few<br>times a<br>month | Once or<br>twice a<br>week | A few<br>times a<br>week or<br>more<br>often | Male  | Female | 18-24 | 25-34 | 35-44 | 45-54 | 55-64 | 65 and<br>over |
| Get much better       | 9%    | 4%              | 15%      | 3%    | 5%  | 12%                | 11%                       | 17%                        | 18%  | 10%   | 9%     | 16%   | 14%   | 13%   | 9%    | 6%    | 3%             |
| Get a bit better      | 15%   | 11%             | 19%      | 8%    | 13%                                       | 16%                | 21%                       | 22%                        | 18%  | 16%   | 14%    | 21%   | 20%   | 20%   | 11%   | 14%   | 9%             |
| Make no<br>difference | 56%   | 62%             | 49%      | 61%   | 64%                                       | 53%                | 52%                       | 46%                        | 47%  | 57%   | 55%    | 39%   | 41%   | 47%   | 63%   | 65%   | 71%            |
| Get a bit worse       | 8%    | 8%              | 9%       | 7%    | 8%  | 11%                | 10%                       | 7%                         | 9%   | 6%    | 10%    | 13%   | 14%   | 8%    | 9%    | 5%    | 5%             |
| Get much worse        | 5%    | 6%              | 4%       | 8%    | 3%  | 4%                 | 4%                        | 3%                         | 3%   | 5%    | 4%     | 8%    | 6%    | 5%    | 4%    | 3%    | 3%             |
| NET Better            | 24%   | 15%             | 34%      | 11%   | 18%                                       | 28%                | 31%                       | 39%                        | 36%  | 26%   | 23%    | 36%   | 33%   | 32%   | 20%   | 19%   | 13%            |
| NET Worse             | 13%   | 13%             | 13%      | 15%   | 11%                                       | 15%                | 14%                       | 10%                        | 13%  | 12%   | 14%    | 20%   | 20%   | 13%   | 13%   | 8%    | 7%             |
| Don't know            | 7%    | 10%             | 4%       | 13%   | 7%  | 4%                 | 3%                        | 5%                         | 4%   | 5%    | 9%     | 6%    | 6%    | 8%    | 5%    | 7%    | 10%            |
| Base n                | 2,217 | 1,122           | 1,095    | 506   | 616                                       | 209                | 272                       | 315                        | 299  | 1,037 | 1,162  | 200   | 405   | 373   | 418   | 375   | 438            |

Q9. As part of the UK trying to reach net-zero carbon emissions, bus companies are being asked by the government to replace traditional diesel buses with zero-emission buses (either electric or hydrogen powered). What impact, if any, do you think a move to zero-emission buses would have on the following things? How frequent services were

| Column %              |       |                 |          |       | Bus u                                     | sage               |                           |                            |  | Gen   | der    |       |       | Ag    | е     |       |                |
|-----------------------|-------|-----------------|----------|-------|---|--------------------|---------------------------|----------------------------|--|-------|--------|-------|-------|-------|-------|-------|----------------|
|                       | Total | Non-bus<br>user | Bus user | Never | A few<br>times a<br>year or<br>less often | About once a month | A few<br>times a<br>month | Once or<br>twice a<br>week | A few<br>times a<br>week or<br>more<br>often | Male  | Female | 18-24 | 25-34 | 35-44 | 45-54 | 55-64 | 65 and<br>over |
| Get much better       | 10%   | 5%              | 15%      | 4%    | 5%  | 10%                | 14%                       | 15%                        | 18%  | 10%   | 9%     | 17%   | 13%   | 13%   | 9%    | 6%    | 5%             |
| Get a bit better      | 15%   | 10%             | 21%      | 7%    | 12%                                       | 21%                | 18%                       | 26%                        | 20%  | 16%   | 15%    | 23%   | 20%   | 23%   | 14%   | 11%   | 7%             |
| Make no<br>difference | 51%   | 59%             | 44%      | 58%   | 59%                                       | 44%                | 48%                       | 41%                        | 41%  | 53%   | 50%    | 30%   | 42%   | 43%   | 54%   | 63%   | 64%            |
| Get a bit worse       | 11%   | 10%             | 12%      | 10%   | 11%                                       | 17%                | 12%                       | 9%                         | 11%  | 10%   | 12%    | 15%   | 14%   | 10%   | 11%   | 9%    | 9%             |
| Get much worse        | 5%    | 6%              | 4%       | 9%    | 4%  | 3%                 | 5%                        | 3%                         | 4%   | 6%    | 4%     | 7%    | 6%    | 5%    | 6%    | 4%    | 5%             |
| NET Better            | 25%   | 15%             | 36%      | 11%   | 18%                                       | 31%                | 32%                       | 41%                        | 38%  | 26%   | 25%    | 39%   | 32%   | 35%   | 23%   | 17%   | 12%            |
| NET Worse             | 16%   | 17%             | 16%      | 19%   | 15%                                       | 20%                | 17%                       | 12%                        | 15%  | 16%   | 16%    | 22%   | 20%   | 15%   | 17%   | 12%   | 14%            |
| Don't know            | 7%    | 10%             | 5%       | 12%   | 8%  | 5%                 | 3%                        | 6%                         | 5%   | 5%    | 10%    | 9%    | 6%    | 7%    | 5%    | 8%    | 10%            |
| Base n                | 2,217 | 1,122           | 1,095    | 506   | 616                                       | 209                | 272                       | 315                        | 299  | 1,037 | 1,162  | 200   | 405   | 373   | 418   | 375   | 438            |

Q9. As part of the UK trying to reach net-zero carbon emissions, bus companies are being asked by the government to replace traditional diesel buses with zero-emission buses (either electric or hydrogen powered). What impact, if any, do you think a move to zero-emission buses would have on the following things?
What it was like to be on the bus

| Column %              |       |                 |          |       | Bus u                                     | sage               |                           |                            |  | Gen   | ider   |       |       | Ag    | е     |       |                |
|-----------------------|-------|-----------------|----------|-------|---|--------------------|---------------------------|----------------------------|--|-------|--------|-------|-------|-------|-------|-------|----------------|
|                       | Total | Non-bus<br>user | Bus user | Never | A few<br>times a<br>year or<br>less often | About once a month | A few<br>times a<br>month | Once or<br>twice a<br>week | A few<br>times a<br>week or<br>more<br>often | Male  | Female | 18-24 | 25-34 | 35-44 | 45-54 | 55-64 | 65 and<br>over |
| Get much better       | 14%   | 8%              | 19%      | 8%    | 8%  | 15%                | 21%                       | 21%                        | 19%  | 14%   | 13%    | 14%   | 14%   | 17%   | 14%   | 13%   | 11%            |
| Get a bit better      | 25%   | 23%             | 28%      | 19%   | 26%                                       | 23%                | 26%                       | 32%                        | 27%  | 26%   | 24%    | 26%   | 30%   | 20%   | 27%   | 26%   | 23%            |
| Make no<br>difference | 46%   | 50%             | 41%      | 48%   | 52%                                       | 44%                | 43%                       | 36%                        | 42%  | 47%   | 45%    | 38%   | 40%   | 47%   | 45%   | 49%   | 52%            |
| Get a bit worse       | 5%    | 5%              | 5%       | 5%    | 5%  | 11%                | 4%                        | 3%                         | 4%   | 5%    | 5%     | 10%   | 6%    | 5%    | 5%    | 4%    | 3%             |
| Get much worse        | 4%    | 5%              | 4%       | 7%    | 3%  | 5%                 | 3%                        | 4%                         | 3%   | 4%    | 4%     | 7%    | 6%    | 5%    | 4%    | 3%    | 2%             |
| NET Better            | 39%   | 31%             | 47%      | 27%   | 34%                                       | 38%                | 47%                       | 53%                        | 46%  | 40%   | 37%    | 40%   | 44%   | 38%   | 40%   | 38%   | 33%            |
| NET Worse             | 9%    | 10%             | 8%       | 11%   | 8%  | 15%                | 7%                        | 7%                         | 6%   | 8%    | 9%     | 17%   | 12%   | 9%    | 8%    | 7%    | 5%             |
| Don't know            | 7%    | 9%              | 4%       | 14%   | 6%  | 3%                 | 3%                        | 4%                         | 5%   | 4%    | 9%     | 6%    | 4%    | 6%    | 6%    | 6%    | 10%            |
| Base n                | 2,217 | 1,122           | 1,095    | 506   | 616                                       | 209                | 272                       | 315                        | 299  | 1,037 | 1,162  | 200   | 405   | 373   | 418   | 375   | 438            |

Q9. As part of the UK trying to reach net-zero carbon emissions, bus companies are being asked by the government to replace traditional diesel buses with zero-emission buses (either electric or hydrogen powered). What impact, if any, do you think a move to zero-emission buses would have on the following things?
The air quality locally

| Column %              |       |                 |          |       | Bus u                                     | sage               |                           |                            |  | Gen   | der    |       |       | Ag    | е     |       |                |
|-----------------------|-------|-----------------|----------|-------|---|--------------------|---------------------------|----------------------------|--|-------|--------|-------|-------|-------|-------|-------|----------------|
|                       | Total | Non-bus<br>user | Bus user | Never | A few<br>times a<br>year or<br>less often | About once a month | A few<br>times a<br>month | Once or<br>twice a<br>week | A few<br>times a<br>week or<br>more<br>often | Male  | Female | 18-24 | 25-34 | 35-44 | 45-54 | 55-64 | 65 and<br>over |
| Get much better       | 32%   | 29%             | 35%      | 27%   | 30%                                       | 30%                | 32%                       | 37%                        | 40%  | 30%   | 34%    | 29%   | 32%   | 30%   | 36%   | 34%   | 30%            |
| Get a bit better      | 34%   | 34%             | 34%      | 32%   | 36%                                       | 35%                | 39%                       | 32%                        | 32%  | 35%   | 33%    | 28%   | 28%   | 35%   | 33%   | 36%   | 42%            |
| Make no<br>difference | 21%   | 23%             | 19%      | 23%   | 23%                                       | 16%                | 20%                       | 22%                        | 18%  | 23%   | 20%    | 23%   | 22%   | 23%   | 21%   | 21%   | 19%            |
| Get a bit worse       | 5%    | 4%              | 5%       | 4%    | 4%  | 12%                | 4%                        | 4%                         | 3%   | 5%    | 4%     | 9%    | 8%    | 4%    | 4%    | 3%    | 2%             |
| Get much worse        | 4%    | 4%              | 3%       | 5%    | 3%  | 3%                 | 3%                        | 4%                         | 2%   | 4%    | 3%     | 8%    | 5%    | 5%    | 3%    | 2%    | 1%             |
| NET Better            | 66%   | 63%             | 70%      | 59%   | 66%                                       | 65%                | 72%                       | 68%                        | 73%  | 65%   | 67%    | 56%   | 61%   | 65%   | 69%   | 70%   | 72%            |
| NET Worse             | 8%    | 8%              | 8%       | 9%    | 7%  | 15%                | 7%                        | 8%                         | 6%   | 9%    | 7%     | 17%   | 13%   | 9%    | 7%    | 5%    | 3%             |
| Don't know            | 4%    | 6%              | 2%       | 9%    | 4%  | 4%                 | 1%                        | 2%                         | 3%   | 3%    | 5%     | 5%    | 4%    | 3%    | 3%    | 4%    | 6%             |
| Base n                | 2,217 | 1,122           | 1,095    | 506   | 616                                       | 209                | 272                       | 315                        | 299  | 1,037 | 1,162  | 200   | 405   | 373   | 418   | 375   | 438            |

Q10. And what impact, if any, do you think a move to zero-emission buses would have on the cost of fares?

Column % Bus usage Gender Age **Total** Non-bus 18-24 25-34 45-54 Bus user Never A few About A few Once or A few Male **Female** 35-44 55-64 65 and times a times a twice a times a user once a over year or month month week week or less often more often **Much more** 17% 21% 13% 18% 13% 12% 12% 15% 17% 11% 13% 15% 23% 24% 16% 18% 17% expensive 45% 47% 43% 47% 46% 44% 47% 43% 44% 46% 41% 44% 40% 45% 45% A bit more 39% 53% expensive The same 29% 26% 32% 22% 30% 28% 26% 30% 34% 28% 27% 29% 28% 33% 35% 30% 27% A bit cheaper 7% 6% 9% 5% 6% 8% 9% 7% 16% 10% 4% 2% 11% 8% 8% 11% 7% 2% 1% 3% 3% 0% 3% 3% 2% 2% 7% 2% 2% 3% Much cheaper 3% 3% 1% 1% 62% 67% 56% 64% 59% 55% 52% 57% 55% 62% 70% **NET More** 71% 58% 54% 60% 64% 69% expensive **NET Cheaper** 9% 7% 12% 7% 12% 10% 9% 23% 13% 9% 5% 3% 7% 14% 11% 11% 11% 2,217 1,122 1,095 209 299 1,037 1,162 200 405 373 438 Base n 506 616 272 315 418 375

Q11. Overall, which of the following statements best describes your view on a move to zero-emission buses?

| Column %                |       |                 |          |       | Bus u                                     | sage               |                           |                            |  | Gen   | der    |       |       | Ag    | е     |       |                |
|-------------------------|-------|-----------------|----------|-------|---|--------------------|---------------------------|----------------------------|--|-------|--------|-------|-------|-------|-------|-------|----------------|
|                         | Total | Non-bus<br>user | Bus user | Never | A few<br>times a<br>year or<br>less often | About once a month | A few<br>times a<br>month | Once or<br>twice a<br>week | A few<br>times a<br>week or<br>more<br>often | Male  | Female | 18-24 | 25-34 | 35-44 | 45-54 | 55-64 | 65 and<br>over |
| A very bad thing        | 4%    | 4%              | 4%       | 5%    | 3%  | 5%                 | 3%                        | 4%                         | 3%   | 5%    | 3%     | 6%    | 4%    | 5%    | 3%    | 4%    | 3%             |
| A fairly bad<br>thing   | 7%    | 6%              | 7%       | 5%    | 7%  | 10%                | 7%                        | 7%                         | 7%   | 7%    | 6%     | 17%   | 13%   | 5%    | 5%    | 2%    | 3%             |
| Neither good<br>nor bad | 23%   | 24%             | 23%      | 28%   | 21%                                       | 23%                | 23%                       | 21%                        | 24%  | 21%   | 25%    | 25%   | 27%   | 28%   | 22%   | 22%   | 18%            |
| A fairly good<br>thing  | 33%   | 33%             | 34%      | 31%   | 34%                                       | 37%                | 34%                       | 34%                        | 31%  | 32%   | 35%    | 33%   | 34%   | 33%   | 37%   | 32%   | 31%            |
| A very good thing       | 33%   | 33%             | 32%      | 32%   | 35%                                       | 24%                | 33%                       | 34%                        | 35%  | 35%   | 31%    | 20%   | 21%   | 29%   | 34%   | 40%   | 46%            |
| NET Good                | 66%   | 66%             | 66%      | 63%   | 69%                                       | 61%                | 67%                       | 68%                        | 66%  | 67%   | 65%    | 53%   | 56%   | 62%   | 71%   | 72%   | 76%            |
| NET Bad                 | 11%   | 10%             | 11%      | 10%   | 10%                                       | 15%                | 10%                       | 11%                        | 10%  | 12%   | 9%     | 23%   | 17%   | 10%   | 7%    | 6%    | 6%             |
| Base n                  | 2,217 | 1,122           | 1,095    | 506   | 616                                       | 209                | 272                       | 315                        | 299  | 1,037 | 1,162  | 200   | 405   | 373   | 418   | 375   | 438            |

Q12. Put yourself in the shoes of a bus company. How hard or easy do you think they will find a move to zero-emission buses?

Column % Gender Age

|             | Total | Non-bus<br>user | Bus user | Never | A few<br>times a<br>year or<br>less often | About<br>once a<br>month | A few<br>times a<br>month | Once or<br>twice a<br>week | A few<br>times a<br>week or<br>more<br>often | Male  | Female | 18-24 | 25-34 | 35-44 | 45-54 | 55-64 | 65 and<br>over |
|-------------|-------|-----------------|----------|-------|---|--------------------------|---------------------------|----------------------------|--|-------|--------|-------|-------|-------|-------|-------|----------------|
| Very hard   | 16%   | 20%             | 12%      | 21%   | 19%                                       | 11%                      | 14%                       | 10%                        | 11%  | 16%   | 15%    | 11%   | 13%   | 13%   | 14%   | 20%   | 20%            |
| Fairly hard | 37%   | 40%             | 33%      | 40%   | 40%                                       | 39%                      | 31%                       | 36%                        | 28%  | 37%   | 37%    | 29%   | 34%   | 34%   | 36%   | 34%   | 47%            |
| Middling    | 31%   | 28%             | 33%      | 27%   | 29%                                       | 29%                      | 36%                       | 31%                        | 36%  | 28%   | 32%    | 37%   | 32%   | 34%   | 34%   | 27%   | 23%            |
| Fairly easy | 13%   | 9%              | 16%      | 8%    | 10%                                       | 15%                      | 15%                       | 18%                        | 16%  | 14%   | 12%    | 21%   | 15%   | 14%   | 11%   | 15%   | 7%             |
| Very easy   | 4%    | 3%              | 6%       | 4%    | 2%  | 5%                       | 3%                        | 6%                         | 9%   | 5%    | 4%     | 4%    | 6%    | 5%    | 5%    | 3%    | 3%             |
| NET Hard    | 52%   | 60%             | 45%      | 61%   | 59%                                       | 51%                      | 46%                       | 45%                        | 39%  | 53%   | 52%    | 39%   | 47%   | 47%   | 50%   | 54%   | 67%            |
| NET Easy    | 17%   | 12%             | 22%      | 12%   | 13%                                       | 20%                      | 18%                       | 24%                        | 25%  | 19%   | 16%    | 24%   | 21%   | 19%   | 16%   | 18%   | 10%            |
|             |       |                 |          |       |   |                          |                           |                            |  |       |        |       |       |       |       |       |                |
| Base n      | 2,217 | 1,122           | 1,095    | 506   | 616                                       | 209                      | 272                       | 315                        | 299  | 1,037 | 1,162  | 200   | 405   | 373   | 418   | 375   | 438            |

The average bus has a service life of around 15 years. For a diesel bus this means an initial cost of £200k with annual fuel cost of around £25k, giving a total cost of £575k over the 15 years. For an electric bus there is an initial cost of £350k, with a new battery costing £150k half way and annual fuel (electricity) cost of £12k, giving a total cost of £680k. The maintenance costs of an electric bus are likely to be less than a diesel bus but the total cost of ownership for an electric bus is thought to be about 20% more than its diesel equivalent, depending on how many miles it does each year. If all diesel buses were replaced with zero-emission buses, the UK's total carbon footprint would be reduced by about 1.5%.

Q13. How do you feel about the following statements? The environmental benefit for using a zero-emission bus outweighs its higher overall lifetime

| Column %                           |       |                 |          |       | Bus u                                     | sage               |                           |                            |  | Gen   | nder   |       |       | Ag    | е     |       |                |
|------------------------------------|-------|-----------------|----------|-------|---|--------------------|---------------------------|----------------------------|--|-------|--------|-------|-------|-------|-------|-------|----------------|
|                                    | Total | Non-bus<br>user | Bus user | Never | A few<br>times a<br>year or<br>less often | About once a month | A few<br>times a<br>month | Once or<br>twice a<br>week | A few<br>times a<br>week or<br>more<br>often | Male  | Female | 18-24 | 25-34 | 35-44 | 45-54 | 55-64 | 65 and<br>over |
| Strongly<br>disagree               | 5%    | 6%              | 4%       | 7%    | 5%  | 5%                 | 4%                        | 3%                         | 3%   | 6%    | 3%     | 4%    | 4%    | 5%    | 5%    | 4%    | 5%             |
| Disagree                           | 7%    | 7%              | 7%       | 8%    | 7%  | 8%                 | 8%                        | 7%                         | 5%   | 7%    | 7%     | 7%    | 7%    | 5%    | 6%    | 8%    | 10%            |
| Indifferent                        | 17%   | 17%             | 17%      | 17%   | 16%                                       | 19%                | 18%                       | 14%                        | 16%  | 16%   | 17%    | 19%   | 22%   | 17%   | 17%   | 15%   | 12%            |
| Agree                              | 37%   | 36%             | 38%      | 32%   | 40%                                       | 36%                | 41%                       | 38%                        | 36%  | 38%   | 36%    | 37%   | 36%   | 39%   | 37%   | 35%   | 38%            |
| Strongly agree                     | 24%   | 21%             | 27%      | 20%   | 23%                                       | 24%                | 23%                       | 28%                        | 33%  | 26%   | 23%    | 22%   | 24%   | 25%   | 26%   | 26%   | 23%            |
| NET Disagree                       | 12%   | 13%             | 11%      | 15%   | 12%                                       | 13%                | 13%                       | 10%                        | 7%   | 13%   | 10%    | 11%   | 11%   | 10%   | 11%   | 13%   | 15%            |
| NET Agree                          | 61%   | 58%             | 65%      | 52%   | 62%                                       | 60%                | 64%                       | 66%                        | 69%  | 63%   | 60%    | 59%   | 60%   | 64%   | 63%   | 61%   | 61%            |
| Don't know<br>enough to<br>comment | 10%   | 13%             | 8%       | 16%   | 10%                                       | 7%                 | 6%                        | 10%                        | 7%   | 7%    | 13%    | 11%   | 7%    | 10%   | 9%    | 11%   | 13%            |
| Base n                             | 2,217 | 1,122           | 1,095    | 506   | 616                                       | 209                | 272                       | 315                        | 299  | 1,037 | 1,162  | 200   | 405   | 373   | 418   | 375   | 438            |

The range of zero-emission buses is a fair bit lower than diesel buses at the moment. In order to offer the same service as currently, bus companies would need to have more vehicles (and larger depots) so enough could be in service while others charged.

Q14. To what extent, if at all, should this affect the roll-out of zero-emission buses?

Column % Bus usage Gender Age

|   | Total | Non-bus<br>user | Bus user | Never | A few<br>times a<br>year or<br>less often | About<br>once a<br>month | A few<br>times a<br>month | Once or<br>twice a<br>week | A few<br>times a<br>week or<br>more<br>often | Male  | Female | 18-24 | 25-34 | 35-44 | 45-54 | 55-64 | 65 and<br>over |
|---|-------|-----------------|----------|-------|---|--------------------------|---------------------------|----------------------------|--|-------|--------|-------|-------|-------|-------|-------|----------------|
| This seems like a big problem – they don't seem viable until the range can match diesel buses                                 | 37%   | 41%             | 33%      | 44%   | 39%                                       | 34%                      | 30%                       | 36%                        | 31%  | 39%   | 35%    | 24%   | 34%   | 30%   | 37%   | 42%   | 48%            |
| This seems like a small problem – but with the right plans in place it shouldn't stop zero-emission buses from happening soon | 52%   | 49%             | 56%      | 44%   | 53%                                       | 54%                      | 61%                       | 54%                        | 56%  | 50%   | 55%    | 63%   | 54%   | 58%   | 53%   | 49%   | 44%            |
| This doesn't seem like a problem at all – it just sounds like excuses   | 11%   | 10%             | 11%      | 11%   | 9%  | 12%                      | 9%                        | 10%                        | 13%  | 11%   | 10%    | 14%   | 12%   | 12%   | 10%   | 10%   | 8%             |
| Base n  | 2,217 | 1,122           | 1,095    | 506   | 616                                       | 209                      | 272                       | 315                        | 299  | 1,037 | 1,162  | 200   | 405   | 373   | 418   | 375   | 438            |

Q16. Whose responsibility should it be to pay for a transition to zero-emission buses? You have 10 points to allocate, please give more points to those who have more responsibility and less (or none)

| Row %                                      | Missing + 0 | 1   | 2   | 3   | 4   | 5   | 6  | 7  | 8  | 9  | 10 | Average |
|--|-------------|-----|-----|-----|-----|-----|----|----|----|----|----|---------|
| The<br>government<br>(through<br>taxation) | 10%         | 10% | 18% | 19% | 14% | 14% | 5% | 3% | 2% | 0% | 4% | 3.4     |
| Bus<br>companies                           | 10%         | 14% | 26% | 21% | 11% | 9%  | 3% | 2% | 1% | 0% | 3% | 2.9     |
| Local councils                             | 17%         | 19% | 32% | 19% | 7%  | 4%  | 1% | 0% | 0% | 0% | 1% | 2.0     |
| Bus users<br>(through fares)               | 26%         | 34% | 23% | 8%  | 4%  | 3%  | 1% | 0% | 0% | 0% | 1% | 1.5     |

## Q17. If fares rose because of investment in zero-emission buses, at what level would you start to use the bus less?

Column % Bus usage Gender Age

|   | Total | Non-bus<br>user | Bus user | Never | A few<br>times a<br>year or<br>less often | About once a month | A few<br>times a<br>month | Once or<br>twice a<br>week | A few<br>times a<br>week or<br>more<br>often | Male | Female | 18-24 | 25-34 | 35-44 | 45-54 | 55-64 | 65 and<br>over |
|---|-------|-----------------|----------|-------|---|--------------------|---------------------------|----------------------------|--|------|--------|-------|-------|-------|-------|-------|----------------|
| A 10% increase (e g<br>a £2 fare going up to<br>£2 20)                            | 34%   | 39%             | 31%      | NA    | 39%                                       | 28%                | 31%                       | 34%                        | 30%  | 33%  | 35%    | 25%   | 33%   | 36%   | 35%   | 34%   | 35%            |
| A 30% increase (e g<br>a £2 fare going up to<br>£2 60)                            | 25%   | 28%             | 24%      | NA    | 28%                                       | 29%                | 22%                       | 22%                        | 23%  | 28%  | 24%    | 23%   | 22%   | 27%   | 27%   | 30%   | 23%            |
| A 50% increase (e g<br>a £2 fare going up to<br>£3 00)                            | 17%   | 14%             | 19%      | NA    | 14%                                       | 19%                | 21%                       | 18%                        | 17%  | 16%  | 17%    | 24%   | 22%   | 19%   | 14%   | 16%   | 10%            |
| A 70% increase (e g<br>a £2 fare going up to<br>£3 40)                            | 5%    | 3%              | 5%       | NA    | 3%  | 6%                 | 7%                        | 4%                         | 4%   | 4%   | 5%     | 8%    | 8%    | 4%    | 4%    | 2%    | 2%             |
| A 100% increase (e g<br>a £2 fare going up to<br>£4 00)                           | 3%    | 2%              | 3%       | NA    | 2%  | 4%                 | 3%                        | 3%                         | 2%   | 3%   | 3%     | 5%    | 3%    | 2%    | 3%    | 2%    | 1%             |
| I'd pay whatever it<br>cost as it would be<br>worth it                            | 5%    | 5%              | 5%       | NA    | 5%  | 4%                 | 6%                        | 5%                         | 5%   | 6%   | 5%     | 6%    | 4%    | 2%    | 5%    | 3%    | 12%            |
| I have no alternative<br>to the bus, so would<br>just have to pay any<br>increase | 11%   | 9%              | 13%      | NA    | 9%  | 10%                | 10%                       | 13%                        | 18%  | 10%  | 12%    | 8%    | 9%    | 8%    | 12%   | 14%   | 17%            |
| Base n  | 1,711 | 616             | 1,095    | 0     | 616                                       | 209                | 272                       | 315                        | 299  | 795  | 901    | 171   | 340   | 321   | 318   | 266   | 290            |

Q20. Overall, how would you feel about your local bus company/ies if they only used zero-emission buses?

| Column %                           |       |                 |          |       | Bus u                                     | sage               |                           |                            |  | Gen  | der    |       | Age   |       |       |       |                |  |
|------------------------------------|-------|-----------------|----------|-------|---|--------------------|---------------------------|----------------------------|--|------|--------|-------|-------|-------|-------|-------|----------------|--|
|                                    | Total | Non-bus<br>user | Bus user | Never | A few<br>times a<br>year or<br>less often | About once a month | A few<br>times a<br>month | Once or<br>twice a<br>week | A few<br>times a<br>week or<br>more<br>often | Male | Female | 18-24 | 25-34 | 35-44 | 45-54 | 55-64 | 65 and<br>over |  |
| 1 - Very bad<br>impression         | 3%    | 4%              | 2%       | 5%    | 3%  | 2%                 | 2%                        | 3%                         | 2%   | 3%   | 3%     | 5%    | 1%    | 4%    | 3%    | 4%    | 2%             |  |
| 2                                  | 2%    | 2%              | 2%       | 2%    | 2%  | 2%                 | 3%                        | 1%                         | 1%   | 2%   | 1%     | 6%    | 2%    | 2%    | 3%    | 1%    | 0%             |  |
| 3                                  | 3%    | 3%              | 3%       | 3%    | 3%  | 5%                 | 2%                        | 3%                         | 4%   | 3%   | 3%     | 7%    | 6%    | 3%    | 2%    | 1%    | 1%             |  |
| 4                                  | 3%    | 3%              | 3%       | 3%    | 4%  | 5%                 | 4%                        | 3%                         | 2%   | 3%   | 4%     | 8%    | 4%    | 5%    | 2%    | 2%    | 2%             |  |
| 5                                  | 9%    | 9%              | 9%       | 9%    | 9%  | 10%                | 12%                       | 7%                         | 8%   | 8%   | 10%    | 12%   | 12%   | 12%   | 6%    | 7%    | 8%             |  |
| 6                                  | 8%    | 9%              | 8%       | 9%    | 9%  | 6%                 | 7%                        | 8%                         | 9%   | 8%   | 9%     | 10%   | 12%   | 7%    | 7%    | 7%    | 7%             |  |
| 7                                  | 10%   |                 |          | 10%   |   | 10%                | 11%                       | 9%                         | 12%  | 11%  | 9%     | 14%   | 13%   | 10%   | 10%   | 9%    | 7%             |  |
| 8                                  | 15%   |                 |          | 13%   |   | 16%                | 15%                       | 18%                        | 14%  | 17%  | 14%    | 11%   | 15%   | 15%   | 16%   | 14%   | 18%            |  |
| 9                                  | 12%   |                 |          | 11%   |   | 12%                | 11%                       | 13%                        | 13%  | 12%  | 12%    | 9%    | 10%   | 13%   | 16%   | 13%   | 12%            |  |
| 10 - Very good<br>impression       | 27%   | 25%             | 28%      | 23%   | 27%                                       | 26%                | 26%                       | 30%                        | 31%  | 26%  | 27%    | 17%   | 22%   | 22%   | 28%   | 33%   | 34%            |  |
| NET Bad impression (1+2+3)         | 8%    | 8%              | 7%       | 9%    | 7%  | 10%                | 7%                        | 8%                         | 6%   | 8%   | 7%     | 17%   | 9%    | 10%   | 8%    | 6%    | 3%             |  |
| NET Middling bad impression (4+5)  | 13%   | 13%             | 13%      | 13%   | 13%                                       | 15%                | 17%                       | 9%                         | 10%  | 12%  | 13%    | 19%   | 16%   | 17%   | 8%    | 10%   | 10%            |  |
| NET Middling good impression (6+7) | 18%   | 18%             | 18%      | 19%   | 18%                                       | 16%                | 19%                       | 17%                        | 21%  | 19%  | 18%    | 23%   | 25%   | 17%   | 18%   | 16%   | 13%            |  |
| NET Good impression<br>(8+9+10)    | 54%   | 51%             | 57%      | 47%   | 55%                                       | 55%                | 53%                       | 60%                        | 58%  | 55%  | 54%    | 36%   | 47%   | 50%   | 59%   | 60%   | 63%            |  |
| Wouldn't matter to me at all       | 7%    | 9%              | 5%       | 12%   | 7%  | 4%                 | 5%                        | 6%                         | 4%   | 6%   | 8%     | 5%    | 4%    | 6%    | 7%    | 9%    | 11%            |  |
| Average                            | 7.5   | 7.4             | 7.6      | 7.2   | 7.5                                       | 7.3                | 7.4                       | 7.7                        | 7.7  | 7.5  | 7.5    | 6.4   | 7.1   | 7.1   | 7.7   | 7.9   | 8.1            |  |
| Base n                             | 2,060 | 1,019           | 1,041    | 444   | 575                                       | 201                | 258                       | 295                        | 287  | 974  | 1,069  | 190   | 389   | 352   | 388   | 342   | 391            |  |

Q21. If zero-emission buses replaced diesel buses in your local area, with the same fares and schedule, do you think your use of buses would increase, decrease or remain the same?

| Column %               | Bus usage |                 |          |       |   |                    |                           |                            |  | Gen   | der    |       |       |       |       |       |                |
|------------------------|-----------|-----------------|----------|-------|---|--------------------|---------------------------|----------------------------|--|-------|--------|-------|-------|-------|-------|-------|----------------|
|                        | Total     | Non-bus<br>user | Bus user | Never | A few<br>times a<br>year or<br>less often | About once a month | A few<br>times a<br>month | Once or<br>twice a<br>week | A few<br>times a<br>week or<br>more<br>often | Male  | Female | 18-24 | 25-34 | 35-44 | 45-54 | 55-64 | 65 and<br>over |
| Increase a lot         | 6%        | 3%              | 8%       | 2%    | 4%  | 6%                 | 6%                        | 11%                        | 9%   | 5%    | 6%     | 9%    | 9%    | 8%    | 3%    | 5%    | 2%             |
| Increase a little      | 16%       | 14%             | 18%      | 9%    | 18%                                       | 21%                | 18%                       | 19%                        | 16%  | 17%   | 16%    | 22%   | 18%   | 20%   | 15%   | 13%   | 13%            |
| Stay the same          | 58%       | 65%             | 52%      | 68%   | 62%                                       | 50%                | 52%                       | 48%                        | 57%  | 59%   | 58%    | 45%   | 48%   | 53%   | 60%   | 68%   | 70%            |
| Decrease a little      | 6%        | 4%              | 8%       | 3%    | 5%  | 7%                 | 11%                       | 7%                         | 7%   | 6%    | 6%     | 12%   | 9%    | 7%    | 6%    | 3%    | 2%             |
| Decrease a lot         | 4%        | 3%              | 4%       | 3%    | 3%  | 7%                 | 6%                        | 3%                         | 3%   | 4%    | 4%     | 6%    | 6%    | 3%    | 4%    | 3%    | 2%             |
| Top 2 - Increase       | 22%       | 17%             | 27%      | 12%   | 22%                                       | 27%                | 24%                       | 30%                        | 25%  | 22%   | 21%    | 31%   | 26%   | 28%   | 18%   | 17%   | 16%            |
| Bottom 2 -<br>Decrease | 10%       | 8%              | 13%      | 7%    | 8%  | 13%                | 16%                       | 11%                        | 10%  | 10%   | 10%    | 18%   | 16%   | 10%   | 10%   | 6%    | 4%             |
| I couldn't say         | 10%       | 11%             | 9%       | 13%   | 8%  | 10%                | 8%                        | 11%                        | 7%   | 9%    | 11%    | 8%    | 10%   | 9%    | 12%   | 9%    | 11%            |
| Base n                 | 2,217     | 1,122           | 1,095    | 506   | 616                                       | 209                | 272                       | 315                        | 299  | 1,037 | 1,162  | 200   | 405   | 373   | 418   | 375   | 438            |