***“Supplementary Material”***

**Real-world contribution of electrification and renovation scenarios to the fleet emissions in West Midland boroughs, UK**

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**Motorway Roads**

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| Chart, bar chart  Description automatically generated   1. NOx |  |
| Chart, bar chart  Description automatically generated   1. CO2 |  |
| Chart, bar chart  Description automatically generated   1. PM |  |
| Figure S1. The effect of fleet electrification on motorway emissions of (a) NOx, (b) CO2, and (c) PM in West Midlands boroughs. In the y-axis, (%) is based on the total fleet emission. | |

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| Chart, bar chart  Description automatically generated   1. NOx |  |
| Chart, bar chart  Description automatically generated   1. CO2 |  |
| Chart, bar chart  Description automatically generated   1. PM |  |
| Figure S2. The effect of fleet renovation on motorway emissions of (a) NOx, (b) CO2, and (c) PM in West Midlands boroughs. In the y-axis, (%) is based on the total fleet emission. | |

**Rural Roads**

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| Chart, bar chart  Description automatically generated   1. NOx |  |
| Chart, bar chart  Description automatically generated   1. CO2 |  |
| Chart, bar chart  Description automatically generated   1. PM |  |
| Figure S3. The effect of fleet electrification on rural road emissions of (a) NOx, (b) CO2, and (c) PM in West Midlands boroughs. In the y-axis, (%) is based on the total fleet emission. | |

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| Chart, bar chart  Description automatically generated   1. NOx |  |
| Chart, bar chart  Description automatically generated   1. CO2 |  |
| Chart, bar chart  Description automatically generated   1. PM |  |
| Figure S4. The effect of fleet renovation on rural road emissions of (a) NOx, (b) CO2, and (c) PM in West Midlands boroughs. In the y-axis, (%) is based on the total fleet emission. | |

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