***“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 generated1. NOx
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| 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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| 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 generated1. NOx
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| 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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| 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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