Cambridgeshire Peterborough Combined Authority

LOCAL TRANSPORT & CONNECTIVITY PLAN

Carbon Assessment Base Analysis

March 2022

> Phase 1 - Scope & Purpose

>National Policy Context

> Phase 1 - Findings

> Phase 2 - Scope & Purpose



Phase 1 - Carbon Assessment Base Analysis

- > WSP commissioned to produce initial high-level carbon assessment to support LTCP engagement.
- > The scope of that work was:
 - Indicative analysis of current baseline emissions across the region
 - BAU forecasts (based on national assumptions from central government)
 - Test impact of 15% traffic reduction target recommended by the CPCA Climate Change Commission (2019 baseline)
 - High-level review of trip distances to assess level of opportunity to shift modes
 - Outcome: Indicative analysis to inform future investigation

The national policy context

The national policy context



Phase 1: Declarations

was in the 19th century.



2019 sees over 400 declared climate emergencies

across the UK Local Government sector with Net Zero targets ranging between 2030 and 2050

word of the year





people to drive. money on projects that encourage more We need to shift away from spending

Climate Change Lee Waters, Deputy Minister for

ransport ecarbonising

> an LTP with quantifiable carbon reductions duction of entto lished in

- DfT announce the publication of Local Transport Guidance
- publication in late 2022. LTAs required to produce an LTP Reduction. Consultation scheduled for Summer and and supporting guidance on Quantifying Carbon
- this parliamentary term
- DfT publish Electric Vehicle guidance during 2022
- parliamentary term requiring LTA's to have a strategy in place this
- DfT are due to launch their Future of Transport: Rural
- Strategy during 2022 following consultation in late 2021
- consultee response to planning applications in 2022 National Highways to integrate net zero into their statutory
- The Transport Select Committee report on National Road
- Pricing on 4th Feb 2022: DfT & HMT must jointly establish
- an arm's-length body tasked with recommending an
- alternative road charging mechanism to replace fuel
- duty and vehicle excise duty by the end of 2022
- in 2023 and set out infrastructure needs and NIC's National Infrastructure Assessment to be published
- recommendations for the next 10-30 years including
- reaching net zero

What does a 15% reduction achieve, compared to national legal targets?













County aim for net zero scope 1 & 2 emissions by 2030, and 50% reduction in scope 3 ~HDC agreed its 2040 ambition December 2021

*SCDC = reduce Council emissions by 75% by 2030 // reduce area emissions by 50% by 2030

Uncertainties & Further work

'Business as Usual – 15%' vkms does not align with national legal & policy, or science-based reduction pathways, with a significant gap demonstrated

The size of the gap is has not yet been fully refined to the local context

Local transport funding will be conditional on demonstrating emission reductions aligned with national policy

Similar to many authorities across the country, two broad avenues for action are emerging:

Organisational Reflection & Reorientation

OUTCOME:

- Consensus on strategic goals
- Increased agility to respond to funding opportunities
- Staff upskilled to become carbon literate
- Carbon at the heart of processes & governance
- A strong & proportionate strategic case for change
- Stakeholder support & advocacy

Knowledge & Evidence Base Development

OUTCOME:

- Emissions gap quantified
- Current commitments tested
- Detailed analysis of local impact of national trends
- Define & quantify the proportionate, necessary scale of action
- Evidence-base for long-term investment and programme
- Robust, compliant plans

Phase 2 Proposal

Phase 2 Carbon Assessment Proposal

- 1. More detailed study will provide better-informed understanding of the carbon value the proposed 15% reduction target may provide
- 2. Refining the local evidence base will continue to inform further development of the Local Transport and Connectivity Plan and associated public consultation.
- **3**. To increase the likelihood of long-term investment by central government, further work will be designed to meet emerging requirements of DfT's Transport Decarbonisation Plan associated with Carbon reduction.

Phase 2 Carbon Assessment Proposal

> Phase 2 aims to reduce some of the inherent uncertainties in Phase 1 analysis and increase local relevance. The Phase 2 approach at this stage comprises two workstreams, running in parallel:

> Workstream A

- Carbon Appraisal of current programme & committed schemes

> Workstream B

- Refining model-based Local Evidence
- > These two workstreams will provide greater clarity around the likely carbon impact of the existing programme and what scale of action is necessary to better-align local forecasts with delivery of a net zero transport system by 2050.

Workstream A - Carbon Appraisal

- Produces a quantified assessment of current transport commitments and their projected impact on reducing carbon emissions.
- Enhances understanding of the relationship between User Emissions, Embodied Emissions and Additional Impacts informing best value carbon approaches within the current portfolio.
- Indicates the type and scale of transport interventions needed to mitigate carbon impacts from development.

These findings can be layered into the Baseline Emissions Model, to more completely understand the net impact on CPCA's business-as-usual decarbonisation pathway, prior to the addition of any further policy interventions developed via the LTCP.



Workstream B - Refining Local Evidence

- Increases understanding of current trip patterns contributing to greatest carbon emissions, including how they are projected to change over time.
- Determines significance of carbon emissions outside CPCA control (e.g. trips on the strategic road network or influenced by externalities).

This will increase stakeholder and public support through demonstration of a robust evidence base upon which decisions can be made.



Dashboard analytics produced from similar baseline emissions modelling undertaken for Midlands Connect

Summary

- Future local transport funding will become conditional on local areas demonstrating how emissions will be reduced through Local Transport Plans.
- Initial analysis indicates that future CPCA transport emissions do not align with national legal targets, policy goals or science-based reduction pathways, with a significant gap demonstrated.
- There is some uncertainty around the size of the gap, necessitating further study in Phase 2.
- Phase 2 will provide more detailed **local** analysis, will refine the scale of the challenge and provide politicians and policy makers a robust, evidence-based position from which they can make informed decisions on what actions to take.
- Phase 2 will reflect that "one size doesn't fit all" in terms of policy and transport infrastructure interventions and help inform what will work where and why.
- In terms of Behavioural change policy and interventions, Phase 2 would be better informed by public feedback from the consultation to gauge appetite and propensity for change.

