

Preliminary Environmental Information Report Appendix 15.3.1: Summary of Stakeholder Scoping Responses - Climate Change and Carbon September 2021



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Our northern runway: making best use of Gatwick

1 Introduction

1.1 General

- This document forms Appendix 15.3.1 of the Preliminary Environmental Information Report (PEIR) prepared on behalf of Gatwick Airport Limited (GAL). The PEIR presents the preliminary findings of the Environmental Impact 1.1.1 Assessment (EIA) process for the proposal to make best use of Gatwick Airport's existing runways (referred to within this report as 'the Project'). The Project proposes alterations to the existing northern runway which, together with the lifting of the current restrictions on its use, would enable dual runway operations. The Project includes the development of a range of infrastructure and facilities which, with the alterations to the northern runway, would enable the airport passenger and aircraft operations to increase. Further details regarding the components of the Project can be found in the Chapter 5: Project Description.
- This document provides the summary of stakeholder scoping responses for climate change and carbon for the Project. 1.1.2

2 Summary of Stakeholder Scoping Responses for Climate Change and Carbon

| Consultee | Date | Details | How/where addre |
|--------------------------|-------------------|---|---|
| Charlwood Parish Council | 30 September 2019 | Growth of the airport has facilitated substantial growth in aviation's greenhouse gas emissions, making a significant contribution to climate change. | Historic growth of t Chapter 15 of the F arising from the Pro surface access and |
| Crawley Borough Council | 30 September 2019 | The assessment of climate change and carbon should include as a key element the Government's commitment to achieving an emissions' reduction target of 100% by 2050, (as set out in the Climate Change Act 2008 (2050 Target Amendment) Order 2019). This amendment should be included as a key piece of legislation in section 7.9.8, as well as any further guidance Government on aviation and emissions. This assessment should also consider the impact of other airport expansion projects. Given the importance of reducing greenhouse gases, CBC considers that all greenhouse gases in aviation emissions, and not just C02 as proposed in paragraph 7.9.73, should be assessed. | Section 15.2 (Chap Change Act 2008, i GHG emissions on other legislation an (Department for Tra detailed in the Avia 2013). This docume and, as such, does 3.87 of the strategy (then) Committee of international aviatio 'headroom' to acco economy is on a tra target. The paragra 'To set a clear leve proposes to: accep UK-departing flight has now been supe recommendations f aviation within the f |

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f the airport is not considered within the PEIR. PEIR considers and quantifies the GHG emissions Project, and the associated changes in energy, nd aviation emissions.

apter 15 of the PEIR) provides details of the Climate 3, including the 2019 change to a 100% reduction in on the 1990 baseline. This section also includes and policy of relevance. The Aviation 2050 strategy Transport, 2018) reviews the climate change policies viation Policy Framework (Department for Transport, ment has recently undergone public consultation es not represent currently adopted policy. Paragraph gy states that the Government agreed with the on Climate Change's (CCC's) advice to exclude tion emissions from carbon budgets but to leave count for international aviation so that the whole trajectory to achieve the 2050 Climate Change Act graph also states that:

vel of ambition for the sector, the government ept the CCC's recommendation that emissions from hts should be at or below 2005 levels in 2050'.. This perseded by the Sixth Carbon Budget

is from the CCC, and the inclusion of international e formal adoption of the Sixth Carbon Budget. The tatement (ES) will respond to this emerging policy arified.

| Consultee | Date | Details | How/where addres |
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| | | | The assessment do airport expansion p GHG emissions aris GHG targets. |
| | | | The assessment co emission (and CO ₂₄ reporting conventio acknowledged that aviation fuel, and th additional 1% in CO assessment of sign national targets, ca policy and carbon to aviation emissions |
| Crawley Borough Council | 30 September 2019 | CBC considers that the increase in buildings and hardstanding on the airport as a result of existing and proposed developments (Table 4.6.1) and the Project itself, may create an urban heat island effect, and that the impact from this should be included in the ICCI assessment. | Currently we under significant urban he measurements from values to those from This is based on res Scoping Report. It in hardstanding and |
| London Borough of Croydon | 1 October 2019 | The Council has recently declared a Climate Change Emergency and is undertaking a Climate Change Commission and Citizens Assembly. While Gatwick Airport is recognised for its economic contribution to the sub- region, aviation clearly has an impact on the environment. It is for Gatwick and the aviation industry more widely to ensure that it can meet current and future climate change and emissions standards and develop Gatwick in such a way as to minimise its negative impact on the environment and climate change. Taking this forward in the Scoping Report the emphasis should be on ensuring that the proposed development is focused on sustainable growth and improves the environment for now and future generations. | Section 15.9 of PEI arising from the Pro UK carbon targets. emissions against a UK's commitment to |
| London Borough of Croydon | 1 October 2019 | The scoping report refers to a commitment to include targets to increase the sustainable mode share for passengers and staff which is welcomed. How these targets will be achieved and their role in mitigating the effects of the proposed development need to be considered. Whilst mode share targets have been indicated for 2022, in the light that the Council has declared a Climate Change Emergency, all travel will need to be sustainable in the medium to long term. Further targets should be developed and agreed looking to the medium term which is provided by the Mayor of London's Transport Strategy. This sets out a target for 80% of journeys to be by sustainable means by 2041. I light of the Mayor's objectives and the Climate Change Emergency we would strongly question the intention to increase 'on airport' parking from its current 46,700. It is considered that there are significant opportunities to increase the proportion of passengers travelling via bus and coach, along with walking and cycling access improvements to the airport. The data listed in 7.6.5 does not appear to cover these modes of transport directly. | Details on mode sh Transport and Appe Report. |

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does not consider the aggregate impact of other projects, but does provide context for the forecast rising from the Project in terms of the existing UK

continues to assess CO₂ only for the aviation O₂e for other emissions sources) in line with national tions and national targets for aviation. It is at other non-CO2 GHGs arise from combustion of the direct emissions of these accounts to an CO₂e emissions over the CO₂-only emissions. The inificance, and the consideration of the context of can only be carried out in the context of the existing targets, and these are expressed in CO₂ for is in the UK.

erstand that Gatwick Airport does not experience a heat island (UHI), and that temperature om the locality of the control tower show similar om surrounding rural weather observation stations. research published in CIBSE TM49 referred to in the It is not expected that the relatively small changes nd buildings will create a new UHI effect.

EIR assesses the magnitude of GHG emissions roject, and presents these in the context of current s. It also provides context on the scale of these t a potential future carbon target predicated on the to net zero by 2050.

share is provided in Chapter 12: Traffic and pendix 12.9.1 Preliminary Transport Assessment

| Consultee | Date | Details | How/where addres |
|---|-------------------|---|---|
| Environment Agency | 20 September 2019 | The production of a Flood Risk Assessment (FRA) in accordance with the planning practice guidance and National Planning Policy Framework (NPPF) is noted, this is certainly a requirement of this proposal. The FRA should incorporate the latest guidance on climate change, this aspect is referenced as part of section 7.5.15. The FRA should clearly demonstrate how the risk to flooding from both fluvial and surface water will not be increased as a result of any development on the site. Due to the timeline of this project, it is feasible that updated guidance could be released on factors such as climate change, flood risk extents and planning or policy guidance associated with flood risk during the development phase of this project. GAL should be prepared to implement new guidance/policy as appropriate, and this may result in changes to the baseline scenarios. | The FRA has shown and pluvial, as a res information can be f (Appendix 11.9.1) |
| Historic England | 1 October 2019 | Para 7.1.25 – potential climate change effects on the historic environment are dismissed but we would suggest that there may be some effects; e.g. climate generated change in hydrology and ground water conditions may affect archaeological preservation environments through drying out of soil or rapid changes in ground saturation. | These effects are co the PEIR. |
| Horsham District Council | 27 September 2019 | In relation to the Assessment of Significance, the meaning of paragraph 7.9.68 requires clarification. The paragraph refers to a 'qualified effect' to be compared against a national carbon budget. In accordance with the recommendations of IEMA guidance 2017, it is expected that the Project's carbon budget should be quantified and compared against an existing carbon budget. Will the fourth and fifth carbon budgets be used for that purpose? Are there regional or local budgets that can be used? | This terminology sho The PEIR has quant compares this to the of construction and o exist. Some organisations Authority level, but t geographies in whic |
| Mid Sussex District Council | 1 October 2019 | It is recommended that the relevance to the assessment of each policy or legislation is fully noted as part of the PEIR or ES. | The preliminary ass will continue to be ta |
| Reigate and Banstead Borough Council | 27 September 2019 | Following the adoption of the DMP, references to the "emerging Reigate & Banstead Borough Development Management Plan 2018-2027" should be amended to "Reigate and Banstead Development Management Plan (Reigate and Banstead Borough Council, 2019)" to ensure consistency with other adopted Local Plan documents. References to saved Borough Local Plan Policy Hr2B "Quality & Sustainable Development (within Horley)" also needs to be removed from the policies and legislative requirements section following adoption of the DMP. | The policy table 15.2 Development Manag The Local Plan Polic |
| Reigate and Banstead Borough Council | 27 September 2019 | The Council notes that the justification for excluding GHG emissions from CCD stages for inward flights is that "these emissions are outside the scope of influence of the Project as the Project does not include changes to airspace". Given our previous comments regarding airspace modernisation, we consider that there is a need to take into consideration GHG emissions from CCD stages for inward flights. | A full response to a "Airspace design ch process. This PEIR as recommendation assessments of airs insufficient informati assessment on GHC proposed to consult assessment in the E the outcomes of con |
| Reigate and Banstead Borough Council | 27 September 2019 | The Council would welcome clarity as to whether non-CO2 radiative forcing effects (including water vapour, contrails, NOX, etc.) will be taken into consideration in the scope of the assessment of carbon. If not this will result in a significant change in the figures presented in the final assessment. | The assessment is the Kyoto Protocol. is set out, along with |

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wn that there is no increase in flood risk, both fluvial esult of the proposed development. Further e found in the flood risk assessment (FRA)

considered in Chapter 7: Historic Environment of

should have read 'quantified' not 'qualified'.

antified the emissions from the Project, and the relevant carbon budgets for the relevant periods d operation for which carbon budgets currently

ns have proposed carbon budgets at the Local t these have not been formally accepted for those nich GHG emissions will arise from the Project. ssessments take into account relevant policy and taken into account throughout the EIA process

5.2.2 in the PEIR refers to "Reigate and Banstead nagement Plan 2019".

blicy Hr2B is not referred to in the PEIR.

a similar comment is presented in Table 15.3.1: changes fall under a different regulatory system and R does not include an assessment of arriving flights ons on inclusion of these are only applicable to irspace design changes. In addition, there is ation on future airspace changes to allow an HG emissions to be carried out at this stage. It is ult with CAA to discuss the scope of the EIA process and the final ES will take into account onsultation."

s restricted to consideration of GHGs as defined by I. It does not consider wider non-GHG effects. This ith the supporting rationale, in Paragraph 15.4.7.

| Consultee | Date | Details | How/where addres |
|--|-------------------|---|---|
| Reigate and Banstead Borough Council | 27 September 2019 | In terms of the presentation of the findings, we note that Paragraph 7.9.34 of the EIA Scoping Report states that "it is proposed that the findings of the assessment of effects on climate change and carbon would be set out as a topic chapter within the ES, supported by technical appendices where appropriate". In order to understand the non CO2 radiative forcing effects, we would find it helpful if a table were included within the chapter which specifically details the non CO2 radiative forcing impact. | The assessment is the Kyoto Protocol. is set out, along wit |
| Surrey County Council West Sussex County Council | 1 October 2019 | The County Council is broadly content with the approach to the assessment of climatic impacts and carbon emissions set out in section 7.9 (pp.144-160) of the Scoping Report. However, the County Council would recommend that the assessment give consideration to the likely implications of the forthcoming report of the Committee on Climate Change (CCC), which is expected in the autumn. That report is expected to make recommendations for the aviation sector consistent with delivering the Government's recently legislated target for net zero carbon by 2050. Those recommendations are expected to be taken into account in the Government's final Aviation Strategy for 2050, and is therefore a key issue for the proposed development at Gatwick that should be factored into the assessment. In reference to Section 3.2: It is considered that a "low growth" scenario should be added to account for the possibility the growth of the airport will be limited by climate change considerations and/or Brexit. In reference to Paragraph 7.1.25: | Section 15.9 of PEI arising from the Pro UK carbon targets. emissions against a UK's commitment to any changes in poli Forecast data have found within the For consultation materia |
| West Sussex County Council | | Climate change should be included as it is likely to affect the historic environment baseline over the assessment period through increased heat and rainfall undermining foundations and damaging buildings. | This point to be rais response. |
| West Sussex County Council | | In reference to Paragraph 7.9.8: The Climate Change Act 2008 (2050 Target Amendment)(Order 2019) should be included in the list of key legislation. | The amended Clim section 15.2 |
| West Sussex County Council | | In reference to Paragraph 7.9.11: The list of Guidance Documents should include the National Adaptation Programme. | The National Adapt Legislation section |
| West Sussex County Council | | In reference to Paragraphs 7.9.15 and 7.9.18: The ICCI assessment should consider the impact of the heat island effect resulting from works proposed to 2038 (including additional concrete/hardstanding/buildings), as set out in table 4.6.1 | See comment abov |
| West Sussex County Council | | In reference to Paragraph 7.9.34: The cumulative impact of the Project along with other airport projects, particularly the Heathrow expansion, should be considered. | A cumulative asses of the PEIR – see s |
| West Sussex County Council | | In reference to Paragraph 7.9.39: The assessment of future impact should consider the heat island effect of increased concrete/hardstanding/buildings. | See comment abov |
| West Sussex County Council | | In reference to Table 7.9.3: This should explicitly include: the potential impact of increased drought/storm weather on runway surfaces through cracking; overheating in buildings; health impacts on staff during construction/operation. | These points are di |
| Waverley Borough Council | | The climate change baseline presented in the scoping request report deals with increases in temperature and of greenhouse gas emissions. The area that would be affected by the development, in terms of the greenhouse gas | The study areas for Appendix 7.6.1: His |

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is restricted to consideration of GHGs as defined by ol. It does not consider wider non-GHG effects. This vith the supporting rationale, in Paragraph 15.4.7.

EIR assesses the magnitude of GHG emissions roject, and presents these in the context of current . It also provides context on the scale of these t a potential future carbon target predicated on the to net zero by 2050. The final ES will respond to licy context and forthcoming carbon budgets.

ve been provided by ICF and further details can be Forecast Data Book provided as part of the rial.

aised with Chapter 7: Historic Environment topic for

mate Change Act is referenced in the PEIR in

ptation Programme (NAP) is included in the n of the PEIR

ove

essment has not been undertaken within Chapter 15 section 15.10 for explanation.

ove

discussed in Section 15.9

or the heritage assessment are described within listoric Environment Baseline Report.

| | 1 | | |
|----------------------------|-------------------|--|-------------------|
| Consultee | Date | Details | How/where address |
| | | emissions attributed to the relevant boroughs should be included as part of the EIA. Aviation is set to be the | |
| | | biggest source of UK emissions by 2050. The assessment should include a cumulative impact of CO2 emissions | |
| | | arising from both the proposed Gatwick and Heathrow expansions and how these may impact on Waverley | |
| | | Borough residents and businesses as well as the environment, biodiversity and habitat. | |
| | | Paragraph 7.9.8 of the EIASR should include as key legislation the Climate Change Act 2008 (2050 Target | The amended Clima |
| Tandridge District Council | 30 September 2019 | Amendment) Order 2019. This sets out the Government's commitment in relation to carbon emission reductions | section 15.2 |
| | | by 2050 and should be central to the assessment of climate change in the ES. | Section 15.2 |

3 References

Climate Change Act (2008), c.27 (as amended).

Department for Transport (2013) Aviation Policy Framework.

Department for Transport (2018) Aviation 2050 - the future of UK aviation.

4 Glossary

Glossary of terms 4.1

Table 4.1.1: Glossary of Terms

| Term | Description | |
|-------|--|--|
| CBC | Crawley Borough Council | |
| CCC | Committee on Climate Change | |
| CCD | Climb-Cruise-Descent | |
| DMP | Development Management Plan | |
| EIA | Environmental Impact Assessment | |
| EIASR | Environmental Impact Assessment Scoping Report | |
| ES | Environmental Statement | |
| FRA | Flood Risk Assessment | |
| GAL | Gatwick Airport Limited | |
| GHG | Green House Gas | |
| ICCI | In-combination Climate Change Impacts | |
| IEMA | Institute of Environmental Management and Assessment | |
| NAP | National Adaptation Programme | |
| NPPF | National Planning Policy Framework | |
| PEIR | Preliminary Environmental Information Report | |

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mate Change Act is referenced in the PEIR in