

Gatwick Airport Northern Runway Project

Environmental Statement Appendix 16.9.1: Assessment of Construction Greenhouse Gas Emissions

Book 5

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Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009



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1 Introduction

1.1 General

- This document forms Appendix 16.9.1 of the Environmental 1.1.1 Statement (ES) prepared on behalf of Gatwick Airport Limited (GAL) for the proposal to make best use of Gatwick Airport's existing runways and infrastructure (referred to within this report as 'the Project').
- This document provides the Greenhouse Gas (GHG) Technical 1.1.2 Appendix for the construction activities associated with the Project.

1.2 **Overview of Methodology**

- 1.2.1 The purpose of the construction assessment is to quantify the scale of works undertaken in future years under the Project, and compare these to construction works in the absence of the 1.2.9 Project. By their nature emissions associated with construction do not follow a continuous year-on-year profile, they fluctuate significantly due to the scale of development undertaken in any 1.2.10 single year.
- 1.2.2 The construction assessment seeks to quantify emissions from those construction activities arising from the Project. It also provides information on already consented development, some of which will result in construction activities being carried out in parallel with the works resulting from the Project. These already-2 consented works represent the future baseline for construction ie construction activity that will take place both without the 2.1 Project, and with the Project.
- 2.1.1 1.2.3 The assessment does not seek to estimate impacts from typical day-to-day maintenance or minor works arising from normal operations, and those works which would not require to undergo a consenting process. These works are therefore excluded from 2.1.2 the construction assessment as they are judged to be not material in the context of other construction carried out under existing consents, or under the Project.
- 1.2.4 The assessment of construction impacts is structured around three main works types:
 - construction associated with the airfield works;
 - construction of new buildings on the airport (including demolition of some existing buildings); and
 - highway works associated with the Project.

The data sources available for each works type is different and so a range of methodologies have been used to develop quantified estimates for materials, fuels, waste etc prior to converting these to estimates of GHG emissions.

1.2.5

1.2.6

1.2.7

- 2.2 Each sub-project within the Project has its own programme for delivery. The estimated emissions for each sub-project are calculated and then pro-rata'd across the years of construction for 2. that sub-project. In this way a time-series for the overall Project can be developed. 2.3
- Estimating impacts from the construction of airfield works is largely drawn from costings data that provides material volumes for different sub-projects. These are augmented with estimated data on plant operation, water demand, and staffing levels.
- 1.2.8 Estimated impacts for the construction of buildings are drawn from the use of benchmark data based on m² floorspace for each building.
 - Estimated impacts for the construction of highways works are based on cost plans for these works.
 - Additionally, the construction assessment includes an appraisal of land use change. This is dealt with in a separate way to the main construction assessment as it does not seek to include a time-based assessment of land use change emissions. This is discussed in isolation in Section 7 of this ES Appendix.

Baseline Development

- **Baseline Methodology**
- The baseline for GHG emissions includes a single historic year -2018 – and then a future baseline period extending from 2018 to 2050.
- Construction works form part of the day-to-day operation of large airports and works were being undertaken during the calendar year of 2018. However, for the purposes of the assessment of construction emissions it is not considered of value to quantify historic construction activities as these have no bearing on the assessment of impact under the Project in future years. For this reason, the 2018 baseline construction emissions are taken to be zero.
- 2.1.3 GAL has several sub-projects within the airport that are committed to be developed whether the Project proceeds or does

construction emissions.

2.2	Data Sources
2.2.1	As noted above construction emi
2.3	Data Sources
2.3.1	The following da future baseline d

Table 2.3.1: Future Baseline Data Sources

Data		Source Provider	
Buildin capacit conser	g footprints / areas, hotel ty, car parking etc. for already ited projects	ES Chapter 5: Project Description (Doc Ref. 5.1)	GAL
2.4 Future Baseline Calcul		tion Methodology	
2.4.1 The quantification of constru- baseline is based on availab construction activities. This information for these project makes use of the data that i supplemented with additiona construction based on typica		ction related GHG for t le information on alread does not comprise full o s, and as such the asse s available, which is the I typical and represent I practices.	he future dy consented lesign essment en ative data for

- 2.4.2
- 2.4.3

Environmental Statement: July 2023 Appendix 16.9.1: Assessment of Construction Greenhouse Gas Emissions not proceed. These sub-projects form the future baseline for

for 2018 Baseline

the 2018 baseline year is assumed to have zero issions.

for Future Baseline

ta sources and forecasts have informed the development.

Future emissions intensities (ie emissions of GHG per unit of activity) will differ from those that represent activities at the time of writing in 2023, and in many cases will reduce in line with wider national trends towards decarbonisation. However, as a conservative approach to the construction assessment no future decarbonisation trends have been incorporated into the assessment of construction emissions.

Methodology notes for each element of the future baseline quantification are presented in Table 2.4.1.

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Activity	Methodology					
Construction Emissions						
GHGs arising from the extraction, processing, and manufacturing of construction materials for buildings	 Floor areas of proposed development for the future baseline scenario was provided by GAL and benchmarks were used for estimating GHG emissions arising from those projects. Detail on the projects that are already consented at Gatwick are presented in ES Chapter 5: Project Description (Doc Ref. 5.1). The majority of consented works represent new buildings at the airport, and the method used for estimating GHG emissions associated with these was to use the typical building benchmarks contained within the LETI Embodied Carbon Primer (LETI, 2020). For all buildings excluding multi-storey car parks the assumed embodied carbon (covering modules A1-A5) was 1,000 kgCO₂e/m² of floor area. For multi-storey car parks this was reduced to 500 kgCO₂e/m² of floor area to reflect that these building types typically lack any façade materials or building services equipment. They also typically lack any internal finishes beyond signage. 					
GHGs arising from disposal of construction and demolition waste	In the absence of specific data for this element an estimate of likely related emissions has been derived from the full Project assessment. This results in an assumption that this element contributes an additional 0.85% of GHG emissions over the A1-3 GHG emissions.					
GHGs arising from surface access for transportation of materials and waste	In the absence of specific data for this element an estimate of likely related emissions has been derived from the full Project assessment. This results in an assumption that this element contributes an additional 6.3% of GHG emissions over the A1-3 GHG emissions.					

Activity	Methodo	logy			Param	eter	Value
GHGs arising	In the absence of specific data for this element an					l embodie	d carbon
from surface	estimate	of likely relat	ed emissions	has been derived	Substr	ucture	31
access for	from the	full Project a	ssessment. T	his results in an	Supers	structure	17
construction	assumpti	on that this e	element contri	butes an additional	Interna	l	22
staff	3.2% of 0	GHG emissio	ns over the A	1-3 GHG emissions.	Finishe	Finishes	
					Façade	Façade	
					MEP		13
GHGs arising from water usage for construction	GHGs arising from water usage for constructionIn the absence of specific data for this element an estimate of likely related emissions has been derived from the full Project assessment. This results in an assumption that this element contributes an additional 0.03% of GHG emissions over the A1-3 GHG emissions.		3.1.2	LETI in resider especia the sch lower r enviror	ncludes th ntial, com ally suited nool arche rise develo nmental c		
					4	Futu	ire Wi
3 Fut	ure Ba	seline G	GHG Emi	ssions Factors	6 4.1.1	The fut	ture with-
3.1.1 The following factors were used in preparation of the future baseline.						constru baselir	uction typ ne) namel
Table 3.1.1 Future Baseline GHG Modelling Parameters						Methoo future l	dology an baseline r
Parameter	Value	Unit	Source	Notes	modellin		ing paran
Assumed				Table 4	.1.1 Addit	ional Fut	

Business-as- usual school embodied carbon	1,000	kgCO ₂ e/m ²	LETI Embodied Carbon Primer	Assumed appropriate for all airport buildings except multi-storey car parks.	Parameter Average assumed material waste upli
Business-as- usual estimated embodied carbon for multi- storey car parks	500	kgCO2e/m ²	Derived from LETI Embodied Carbon Primer	Estimated impact for multi-storey car park – school archetype benchmark reduced by 50% to reflect lack of façade, HVAC, internal finishes, and simpler superstructure.	Embodied Carbon factor – Asphalt Embodied Carbon factor – Pavement Concrete Embodied Carbon factor – Granular Sub-base Embodied Carbon factor – Lean Concrete

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material waste uplift **Embodied Carbon**

Concrete

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Unit	Source	Notes
breakdown:		
%		These values have
%	LETI	been used to
%	Embodied	inform the
	Carbon	estimation of 50%
%	Primer	reduction for multi-
%		storey car parks.

es three building types in their general benchmarks: commercial office, and school. None of these is uited to airport buildings in terms of similarity however archetype has been chosen as it typically represents a evelopment with mechanically controlled tal conditions.

With Project Development

with-Project development includes additional n types beyond solely buildings (as in the future amely airfield construction, and highways construction.

y and assumptions relating to buildings are as per the line methodology. Additional future with-Project GHG arameters are set out in Table 4.1.1.

I Future With-Project GHG Modelling Parameters

Value	Unit	Source
5	%	N/A
0.058	kgCO ₂ e/kg	ICE v3
0.149	kgCO ₂ e/kg	ICE v3
0.017	kgCO ₂ e/kg	ICE v3
0.097	kgCO ₂ e/kg	ICE v3



Parameter	Value	Unit	Source	Table 5	5.2.1 Future
Embodied Carbon factor – Reinforcement bar	1.990	kgCO ₂ e/kg	ICE v3	Year	A1-3 Emb Carbon o Construc
Plant energy	2.558	kgCO ₂ e/litre of	Estimate derived from indicative		Materials gate) ktC
emissions		diesei	piant equipment	2019	-
			BEIS GHG	2020	-
Water supply	149	kgCO ₂ e/million	Conversion Factors	2021	-
emissions	145	litres	2022	2022	-
	272	kgCO₂e/million litres	BEIS GHG	2023	14.369
Waste water			Conversion Factors	2024	18.476
treatment emissions			2022	2025	4.107
			Estimated based on	2026	4.107
			factors from RICS	2027	-
			Whole Life Carbon	2028	-
			Assessment for the	2029	-
Average material			Built Environment	2030	-
haulage distance	100	km	(RICS 2017).	2031	-
5			Assumes 80% is	2032	-
			locally sourced and	2033	-
			20% is nationally	2034	-
			sourced.	2035	-
				2036	-
1.1.3 Parameters	relating to	the construction of	highways are contained	2037	_

ngnways within the National Highways Carbon emissions calculator tool (Highways England, 2022) and are not replicated here.

Evaluation of Construction GHG 5 Emissions

- 5.1 2018 Baseline Emissions
- As noted in Section 2.1 the 2018 baseline is assumed to be zero. 5.1.1
- 5.2 Future Baseline Emissions
- 5.2.1 The future baseline construction-related emissions are presented in Table 5.2.1and Table 5.2.2.

Year	A1-3 Embodied Carbon of Construction Materials (cradle- gate) ktCO ₂ e	A4 Transportation of Construction Materials (ktCO ₂ e)	A5 Construction Energy (ktCO ₂ e)
2019	-	-	-
2020	-	-	-
2021	-	-	-
2022	-	-	-
2023	14.369	0.605	0.151
2024	18.476	0.778	0.194
2025	4.107	0.173	0.043
2026	4.107	0.173	0.043
2027	-	-	-
2028	-	-	-
2029	-	-	-
2030	-	-	-
2031	-	-	-
2032	-	-	-
2033	-	-	-
2034	-	-	-
2035	-	-	-
2036	-	-	-
2037	-	-	-
2038	-	-	-
2039	-	-	-
2040	-	-	-
2041	-	-	-
2042	-	-	-
2043	-	-	-
2044	-	-	-
2045	-	-	-
2046	-	-	-
2047	-	-	-
2048	-	-	-
2049	-	-	-
2050	-	-	-

Year	Construction Worker Transport (ktCO ₂ e)	Construction Waste Management (ktCO ₂ e)	Construction Water Use (ktCO ₂ e)
2019	-	-	-
2020	-	-	-
2021	-	-	-
2022	-	-	-
2023	0.453	0.121	0.005
2024	0.583	0.155	0.006
2025	0.130	0.035	0.001
2026	0.130	0.035	0.001
2027	-	-	-
2028	-	-	-
2029	-	-	-
2030	-	-	-
2031	-	-	-
2032	-	-	-
2033	-	-	-
2034	-	-	-
2035	-	-	-
2036	-	-	-
2037	-	-	-
2038	-	-	-
2039	-	-	-
2040	-	-	-
2041	-	-	-
2042	-	-	-
2043	-	-	-
2044	-	-	-
2045	-	-	-
2046	-	-	-
2047	-	-	-
2048	-	-	-
2049	-	-	-
2050	-	-	-
1	1		1

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Table 5.2.2: Future Baseline Construction Emissions for Worker Transport, Construction Waste, and Construction Water



5.3 **Future Project Emissions**

- 5.3.1 The future project emissions reflect the commitments made in the ES Appendix 5.4.2: Carbon Action Plan (CAP) (Doc Ref. 5.3), which include a commitment not to exceed 1.155 MtCO₂e emissions from the construction of the Project. This level of emissions represents a 17% reduction on the 'unmitigated' scenario in the absence of the CAP.
- 5.3.2 The future construction-related emissions for the Project are presented in these categories in Table 5.3.1 to Table 5.3.2.

Table 5.3.1 Project Construction Emissions for Embodied Carbon of Materials

Year	A1-3 Embodied Carbon of Construction Materials (cradle- gate) ktCO ₂ e	A4 Transportation of Construction materials (ktCO ₂ e)	A5 Construction Energy (ktCO ₂ e)
2019	-	-	-
2020	-	-	-
2021	-	-	-
2022	-	-	-
2023	-	-	-
2024	61.089	4.082	25.337
2025	112.926	6.554	37.681
2026	102.472	6.071	55.663
2027	55.888	3.178	32.692
2028	53.658	3.392	33.722
2029	58.326	5.528	28.154
2030	82.060	6.390	18.089
2031	83.720	6.647	16.583
2032	55.068	2.606	13.291
2033	52.639	2.255	10.264
2034	61.217	2.620	6.431
2035	13.482	0.571	2.432
2036	-	-	-
2037	-	-	-
2038	-	-	-
2039	-	-	-
2040	-	-	-
2041	-	-	-
2042	-	-	-

Year	A1-3 Embodied Carbon of Construction Materials (cradle- gate) ktCO ₂ e	A4 Transportation of Construction materials (ktCO ₂ e)	A5 Construction Energy (ktCO ₂ e)
2043	-	-	-
2044	-	-	-
2045	-	-	-
2046	-	-	-
2047	-	-	-
2048	-	-	-
2049	-	-	-
2050	-	-	-

Table 5.3.2: Project Construction Emissions for Commuting of Construction Workers

Year	Construction Worker Transport (ktCO ₂ e)	Construction Waste Management (ktCO ₂ e)	Construction Water Use (ktCO ₂ e)
2019	-	-	-
2020	-	-	-
2021	-	-	-
2022	-	-	-
2023	-	-	-
2024	2.331	1.270	0.024
2025	3.060	1.457	0.049
2026	3.731	1.009	0.044
2027	2.444	0.580	0.030
2028	2.618	0.859	0.039
2029	2.455	0.511	0.027
2030	2.809	0.409	0.030
2031	2.169	0.534	0.011
2032	1.375	0.012	0.005
2033	1.053	0.009	0.003
2034	0.638	0.009	0.003
2035	0.320	0.000	0.000
2036	-	-	-
2037	-	-	-
2038	-	-	-

Year	Construction Worker Transport (ktCO ₂ e)	Construction Waste Management (ktCO ₂ e)	Construction Water Use (ktCO ₂ e)
2039	-	-	-
2040	-	-	-
2041	-	-	-
2042	-	-	-
2043	-	-	-
2044	-	-	-
2045	-	-	-
2046	-	-	-
2047	-	-	-
2048	-	-	-
2049	-	-	-
2050	-	-	-

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5.4
5.4.1
         5.4.1.
```

Year	Aggregated Construction Emissions (ktCO ₂ e)
2019	-
2020	-
2021	-
2022	-
2023	-
2024	94.133
2025	161.727
2026	168.989
2027	94.812
2028	94.288
2029	95.001
2030	109.788
2031	109.665
2032	72.356
2033	66.223
2034	70.916
2035	16.805

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Construction Emissions Time Series

The aggregated construction emissions are presented in Table

Table 5.4.1: Aggregated Project Construction Emissions by Year



Year	Aggregated Construction Emissions (ktCO ₂	e)
2036	-	
2037	-	
2038	-	
2039	-	
2040	-	
2041	-	
2042	-	
2043	-	
2044	-	
2045	-	6.0.1
2046	-	0.2.
2047	-	
2048	-	
2049	-	
2050	-	
Total	1,154.704 ¹	

Mitigation 6

6.1 Aggregated Construction Emissions

6.1.1 The aggregated future baseline construction emissions are 0.045 MtCO₂e. 6.1.2 The aggregated Project construction emissions are 1.155 MtCO₂e.

6.2 Impact of the Carbon Action Plan

- 6.2.1 ES Appendix 5.4.2: Carbon Action Plan (Doc Ref. 5.3) includes commitments to achieving certain performance improvements in terms of GHG emissions from construction of the Project.
- 6.2.2 GAL has carried out an exercise to assess the scale of GHG reductions that might be achieved relative to an approach to construction. This exercise has considered a range of potential measures including:

- substitution of lower carbon materials at various scales of deployment across the airfield works, buildings construction, and highways construction;
- mitigation of construction waste across the Project;
- replacement of traditional concrete reinforcement with use of steel fibre reinforcement;
- alternative energy supplies for construction plant, such as use of electrical plant or HVO powered plant, at various scales of deployment across the Project works;
- improvements in transport associated with construction workers to encourage lower emissions travel modes; and
- targeting best practice benchmarks for construction of buildings.
- At this stage in project development the specific measures that would be implemented across the construction phase are not confirmed. However, the assessment undertaken by GAL to identify the feasibility of these measures has provided an indication of what levels of GHG mitigation are likely to be achievable while reflecting uncertainties around:
- potential limitations around material substitution arising from the need to deviate from standard practice, or from accepted technical standards, for airfield infrastructure;
- availability of specific construction plant types using alternative energy supply/sources; and
- feasibility of low carbon building construction methods in the context of safety and security requirements for airport buildings.
- Other opportunities for reducing and managing GHG may also arise from design efficiency and scope-reduction as the overarching Project proceeds through design stages.

6.2.4

6.2.5

- Based on this work GAL includes within the CAP a commitment to achieving a 17% reduction on the GHG emissions from construction of the Project, compared to a typical construction approach. This mitigated level forms the main assessment scenario presented in the ES, and in the preceding sections of this ES Appendix.
- The construction emissions for the Project only with the commitments of the CAP in place are 1.155 MtCO2e.
- The construction emissions for the Project only without the commitments of the CAP in place are 1.391 MtCO₂e.

Land Use Change

7

7.1.1	The appraisal of as used for the o This appraisal po habitat types be
7.1.2	In the absence of be zero on the b ongoing sequest
7.1.3	Table 7.1.1 prov

for the Area Impacted by the Project

Biodiversity Habitat Type	Area Before Construction (ha)	Area After Construction (ha)
Grassland	67.22	59.97
Heathland and shrub	5.90	9.97
Lakes	1.97	0.92
Sparsely vegetated land	0.08	0.01
Urban	151.21	159.38
Wetland	0.07	0.24
Woodland forest	13.16	7.46
Watercourse footprint	0.35	1.55
Individual trees	0.00	0.46

have been sourced from Carbon Storage and Sequestration by Habitat 2021 (NERR094) (Natural England 2021). These factors are presented in Table 7.1.2.

Biodiversity Habitat Type

Grassland Heathland and shrub

¹ Throughout the chapter, and associated appendices, tables present the calculated values for that datum. These are frequently simplified to a specific number of decimal places or significant

figures. In several cases disparities in rounding lead to tallies of summary values, and presented total values, being inconsistent.

land use impacts is based on a common dataset calculation of biodiversity net gain for the Project. rovides an estimate of the hectarage of different fore and after construction of the Project.

of the Project, land use impacts are assumed to asis that existing habitats are mature, and any tration is at a low annual rate.

ides a summary of the areas of habitat before and after construction has taken place:

Table 7.1.1: Biodiversity Habitat Areas Before and After Construction

Table 7.1.2: Biodiversity Habitat Area Carbon Storage Factors

e	Representative Carbon Storage Factor (tC/ha)
	130.0
	144.5



Biodiversity Habitat Type	Representative Carbon Storage Factor (tC/ha)	7.1.
Lakes	109.4	
Sparsely vegetated land	0	_
Urban	60.0	_
Wetland	76.0	_
Woodland forest	255.0	_
Watercourse footprint	76.0	
Individual trees	255	7 1

- 7.1.5 Due to the nature of the construction programme a portion of the landscape areas present before construction would be removed, and new habitat areas provided in different locations, although in some cases areas of habitat would be retained in situ. To estimate the GHG impacts of this process a worst-case assumption is adopted that assumes all habitat areas are lost during construction, and then sequestration of carbon in newly 7.1.11 constructed habitat areas would develop over time as the habitat matures.
- 7.1.6 This represents a conservative approach to the appraisal of land use changes impacts as it assumes 100% loss of all habitat areas during construction processes whereas it is likely that some 8 areas would remain undisturbed or minimally disturbed during construction.
- 7.1.7 The appraisal uses average carbon stock data for each of the habitat types, representing a mature habitat over 30 years of age, to estimate the maximum loss and subsequent gain of sequestered carbon. The scale of lost and sequestered carbon is presented in Table 7.1.3.

Table 7.1.3: Carbon Losses and Gains through Landscape Use Changes

Impact	Notional 100% Loss During Construction	Notional Full Post- Construction Sequestration (assumed 30 year maturity)
Carbon (tonnes C)	22,267	21,217
Carbon dioxide equivalent (tCO ₂ e)	81,645	77,794

7.1.8 The net change is estimated as an emission of 3,851 tCO₂e.

- Full construction emissions for the Project totals 1.155 MtCO₂e over the construction period 2024-2038.
- Full land use impacts from loss of all habitats over the construction period totals 0.082 MtCO₂e.
- Net land use impacts are equivalent to approximately 0.33% of total construction impacts for the Project.
- The scale of land use emissions for the area impacted by the Project is small compared to wider construction. While the comparison of habitat areas does indicate a net release of GHG emissions over the construction period and the 30 years following, the new areas of habitat would be expected to continue to sequester carbon beyond this period (albeit at a slower rate per year).
- On this basis the impacts arising from land use are not considered to be material to the overall assessment of GHG emissions and are not considered to affect the assessment of significance within the main chapter.

References

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Construction Industry Training Board (2019) Workforce Mobility and Skills in the UK Construction Sector 2018/19.

Department for Business, Energy & Industrial Strategy (2022) BEIS GHG conversion factors.

Highways England (2022) Carbon emissions calculation tool v2.5.

LETI (2020) LETI Embodied Carbon Primer.

Natural England (2021) Carbon Storage and Sequestration by Habitat 2021.

RICS (2017) Whole life carbon assessment for the built environment.

Glossary Glossarv of Terms

9

9.1

UK Government Department for Business Energy and
Industrial Strategy
Carbon Action Plan
Carbon Dioxide
Carbon Dioxide Equivalent
Environmental Statement
Gatwick Airport Ltd
Greenhouse Gas
Hectare
Heavy Goods Vehicle
Hydrotreated Vegetable Oil (diesel-like fuel)
Inventory of Carbon and Energy
Royal Institute of Chartered Surveyors

Our northern runway: making best use of Gatwick