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Status report of the annual inventory of the United Kingdom of Great Britain and Northern Ireland

- This status report was prepared by the secretariat pursuant to decision 22/CMP.1 in conjunction with decision 4/CMP.11, as part of the initial check of the United Kingdom of Great Britain and Northern Ireland 's 2019 annual greenhouse gas inventory, submitted in accordance with decisions 24/CP.19 and 15/CMP.1 in conjunction with decisions 3/CMP.11 and 2/CMP.8.
- The report reflects the content of the inventory submission as submitted by the Party, which, in accordance with 24/CP.19, is due by 15 April each year (dates of submission are provided in the table on page 2).
- In accordance with decision 24/CP.19 Parties report aggregate emissions and removals in carbon dioxide equivalent using the global warming potential values from the Fourth Assessment Report of the Intergovernmental Panel on Climate Change over a 100year time horizon.
- In this report, the following abbreviations are used:

CRF: common reporting format

GHG: greenhouse gas

HWP: harvested wood products

IPPU: industrial processes and product use

KP-LULUCF activities: activities under Article 3,

paragraphs 3 and 4, of the Kyoto Protocol

LULUCF: land use, land-use change and forestry

NIR: national inventory report SEF: standard electronic format

Gases

CH₄: methane

CO: carbon monoxide CO₂: carbon dioxide HFC: hydrofluorocarbon

HFC/PFC mix: unspecified mix of hydrofluorocarbons

and perfluorocarbons NF₃: nitrogen trifluoride

NMVOC: non-methane volatile organic compound

NO_X: nitrogen oxides N₂O: nitrous oxide PFC: perfluorocarbon SF₆: sulfur hexafluoride SO₂: sulfur dioxide

Kyoto Protocol units AAU: assigned amount unit

CER: certified emission

reduction

ERU: emission reduction unit ICER: long-term certified emission reduction RMU: removal unit

tCER: temporary certified emission reduction

Notation keys C: confidential

IE: included elsewhere NA: not applicable

NE: not estimated NO: not occurring





	Part I General information regarding 2019 inventory submission														
		Date subm	of origin ission	ıal	Date of resubmission(s)				Comments ^a						
	NIR	15 A	pril 201	19											
	CRF tables ^b	15 A	15 April 2019						Latest inventory (assessed in this report): GBK_2019_2						
General information	Additional information ^c	15 April 2019						- E - u - A - A v8	Files submitted (15 April 2019): - Energy_background_data_uk_2019.xlsx - ukghgi-90-17_Annexes_Issue_2.pdf - Annex A - CSEUR.pdf - Annex B - Changes in EUCR v8.0.10.2 to v8.2.2.xlsx - SIAR Reports 2018-GB v1.0.xlsx						
	CRF tables provided for years	1990–2017													
	Base year or period d	1990		Base	year fo	year for HFCs, PFCs and S			SF ₆ ^e 1995		Base year for NF ₃ ^f		1995		
	Gases covered ^g	CO ₂	CH ₄	N ₂ O	HFCs	PFCs	HFC/PFC mix	SF ₆	NF ₃	NO _X	СО	NMVOCs	SO ₂		
		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
CRF ^h tables	Source categories accounting for 7% or more of Party's aggregate emissions from sources included in Annex A to the Kyoto Protocol	No n	nissing	source	catego	ry acco	unting for 7	% or	more has	s been id	entified				

^a The comment field is used to indicate the name of the inventory being assessed (relevant to CRF tables), the names of the files submitted as additional information (relevant to the row for additional information) and any other information relevant to the submission.

- ^b The CRF tables are contained in annex II to decision 24/CP.19.
- ^c Additional information can be any information submitted by a Party in conjunction with its NIR or CRF tables.
- ^d Parties included in Annex I to the Convention undergoing the process of transition to a market economy may use a base year or a period of years other than 1990, in accordance with the provisions of Article 4, paragraph 6, of the Convention and decisions 9/CP.2 and 11/CP.4.
- ^e A Party may select 1995 as the base year for HFCs, PFCs and SF₆ in accordance with Article 3, paragraph 8, of the Kyoto Protocol.
- ^f A Party may select 1995 or 2000 as the base year for NF3 in accordance with Article 3, paragraph 8 bis, in the Doha Amendment.
- ^g If, in the latest year, for a given gas, a Party reports a numerical value or a notation key other than "NE", a tick is shown in the respective cell; if "NE", zero or no value is reported, the cell is left blank.
 - ^h In accordance with decision 15/CMP.1, paragraph 3(b), in conjunction with decision 3/CMP.11.

	Part II General information regarding the submission of supplementary information under Article 7, paragraph 1, of the Kyoto Protocol											
		Date of original submission	Date of resubmission(s)	Comments ^a								
	KP-LULUCF information ^b 15 April 2019 N			NIR chapter 11								
information	KP-LULUCF CRF tables ^c	15 April 2019		KP-LULUCF CRF tables provided for years	1990, 2013–2017							
	Information on Kyoto units (ERUs, CERs, RMUs and AAUs) ^d	15 April 2019		NIR chapter 12								
Reporting of supplementary	SEF tables with Kyoto Protocol units ^e	15 April 2019		Reported year: 2018 - SEF table for the second committed on 15 April 2019								
Repc	Changes in national system ^f	15 April 2019		NIR chapter 13								
	Changes in national registry ^f	15 April 2019		NIR chapter 14								
	Minimization of adverse impacts ^f	15 April 2019										

^a Where applicable the comments field indicates the location of the reported information in the NIR.

^b Parties are required to include in their annual submission information on anthropogenic GHG emissions by sources and removals by sinks from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol, and, if any, elected activities under Article 3, paragraph 4, in accordance with decision 2/CMP.8, annex II, paragraphs 1–5.

^c Parties are required to report anthropogenic GHG emissions by sources and removals by sinks from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol, forest management and, if any, elected activities under Article 3, paragraph 4. Parties may also elect to report these tables for the base year or 1990.

^d Parties are required to include in their annual submission information on ERUs, CERs, tCERs, ICERs, AAUs and RMUs, in accordance with decision 15/CMP.1, annex, chapter I.E, in conjunction with annex II to decision 3/CMP.11.

^e As required by annex II to decision 3/CMP.11.

^f The requirements for Parties to report on changes in their national systems in accordance with Article 5, paragraph 1, of the Kyoto Protocol, changes in national registries, and the minimization of adverse impacts in accordance with Article 3, paragraph 14, of the Kyoto Protocol, are set out in decision 15/CMP.1, annex, chapters I.F, I.G and I.H respectively, in conjunction with annex II to decision 3/CMP.11.

	Part III Completeness ^a of CRF tables for the latest reported inventory year (2017)												
		Ener	rgy	IPPU	IPPU Agri		ılture		LU.	LUCF		Waste	
	Sectoral report tables	1	✓	2(I)	✓	3	✓	4	✓	4.1	✓	5	✓
	Sectoral background tables	1.A(a)	✓	2(I).A-H	✓	3.A	✓	4.A	✓	4(I)	✓	5.A	✓
ī.		1.A(b)	✓	2(II)	✓	3.B(a)	✓	4.B	✓	4(II)	✓	5.B	✓
Sectoral tables		1.A(c)	✓	2(II).B-H	✓	3.B(b)	✓	4.C	√	4(III)	✓	5.C	✓
Sectora		1.A(d)	✓			3.C	✓	4.D	✓	4(IV)	✓	5.D	✓
		1.B.1	✓			3.D	✓	4.E	✓	4(V)	✓		
		1.B.2	✓			3.E	✓	4.F	✓				
		1.C	✓			3.F	✓	4.G	✓				
		1.D	✓			3.G-I	✓						
and cross- tables ^b	Cross-sectoral report tables	Table 6 (Indirect	t emissi	ons of N2O an	ıd CO2)		√						
Summative and cross- cutting tables ^b	Other tables	Table 9 (Informa	ation on	ı notation keys	s – NE)		✓	Table 9		n notation	keys – l	IE)	√

 ^a A tick indicates that the respective table is not blank.
 ^b Tables that are automatically generated by the CRF Reporter (summary table 1.A, summary table 2, summary table 3, table 7 key categories, table 10 emissions trends) are not included here.

	Part III (continued) Completeness ^a of CRF tables related to KP-LULUCF ^b information for the latest reported inventory year (2017)											
		NIR-1	✓									
	tables	NIR-2	✓									
	Sectoral report tables	NIR-3	✓									
		4(KP)	✓									
tables		4(KP) Recalculation										
Sectoral tables	es	4(KP-I).A.1	✓	4(KP-I)B.1	✓	4(KP-I)B.2	✓	4(KP-II)1	✓			
	ınd tabl	4(KP-I).A.1.1	✓	4(KP-I)B.1.1	✓	4(KP-I)B.3	✓	4(KP-II)2	✓			
	ackgrou	4(KP-I).A.2	✓	4(KP-I)B.1.2		4(KP-I)B.4	✓	4(KP-II)3	✓			
	Sectoral background tables	4(KP-I).A.2.1	✓	4(KP-I)B.1.3	✓	4(KP-I)B.5	✓	4(KP-II)4	✓			
	Sec				•	4(KP-I).C	✓	Accounting table	✓			

^a A tick indicates that the respective table is not blank.

^b Parties are required to report anthropogenic GHG emissions by sources and removals by sinks from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol, and, if any, elected activities under Article 3, paragraph 4, using the agreed CRF tables adopted under decision 6/CMP.9.

	Part IV Provision of selected information in the CRF tables														
Direct GHGs totals ^a	Gas	CO ₂	CF	CH ₄ N ₂ O			HFCs		PFCs		HFC/PFC mix		SF ₆		NF ₃
Direct GH	Provided for years	1990– 2017	199 20	990– 1990– 917 2017			1990- 2017	-	1990– 2017		1990– 2017		1990– 2017		1990– 2017
t CO2	Sector	Energy		IPPU		Agriculture		LULUCF			Waste		Ot	her	
Indirect CO_2	Provided for years					1990–2017			199		90–2017				
Energy ${\it CO}_2^{\it b}$	Comparison of CO ₂ emissions from fuel	Reference approach			Difference between reference and sectoral approach more than 2%								re than 2%		
Energ	combustion ^b	✓	✓			Lio	quid			Solid		✓	Ga	seous	
International bunkers	Bunker type	Aviation		Naviga	tion										
Interno bun	Provided for years	1990–2017		1990–2017											
$HFCs$ and $PFCS^{b,c}$	Disaggregation by species	HFCs		PFCs											
HFC. PFC		✓		✓											

Considered provided if the total for a given gas is a numerical value or a notation key other than "NE".
 A tick indicates that the information is provided.
 Assessment based on information reported for the latest inventory year.

			Part V		
	Comp	leteness of CRF tab	oles for years reporte	d (base year, 1990–2017) ^a	_
	Yes/no	Sector	Table	Year(s)	Notation keys used
CRF submission contains blank tables ^b	Yes	KP-LULUCF	NIR-1	1990	
orank taoles		KP-LULUCF	NIR-2	1990	
		KP-LULUCF	NIR-3	1990	
		KP-LULUCF	4(KP-I)A.1	1990	
		KP-LULUCF	4(KP-I)A.1.1	1990	
		KP-LULUCF	4(KP-I)A.2	1990	
		KP-LULUCF	4(KP-I)A.2.1	1990	
		KP-LULUCF	4(KP-I)B.1	1990	
		KP-LULUCF	4(KP-I)B.1.1	1990	
		KP-LULUCF	4(KP-I)B.1.2	1990, 2013–2017	
		KP-LULUCF	4(KP-I)B.1.3	1990	
		KP-LULUCF	4(KP-I)B.4	1990	
		KP-LULUCF	4(KP-I)B.5	1990	
		KP-LULUCF	4(KP-I)C	1990	
		KP-LULUCF	4(KP-II)1	1990	
CRF submission includes tables containing only	Yes	Energy	Table1.C	1990–2017	NO
notation keys ^c		Agriculture	Table3.C	1990–2017	NO
		Agriculture	Table3.E	1990–2017	NO
		Agriculture	Table3.F	1994–2017	NO
		NIR	NIR-1	2013	IE, NA, NE, NO
		KP-LULUCF	4(KP-I)A.1.1	2013–2017	NA
		KP-LULUCF	4(KP-I)B.1.3	2013–2017	NO
		KP-LULUCF	4(KP-I)B.4	2013–2017	NA
		KP-LULUCF	4(KP-I)B.5	2013–2017	NE
		KP-LULUCF	4(KP-II)2	1990	NA, NE

 ^a KP-LULUCF tables are only considered for the years associated with the second commitment period of the Kyoto Protocol.
 ^b Excludes table 8 in the latest reported inventory year.
 ^c Notation keys associated with methods and emission factor information are not considered.

	Part VI Provision of information in the CRF tables relating to recalculations									
Recalculation reported for years ^a	1990–2016									
Recalculated sectors/gases ^b	Energy	IPPU	Agriculture	LULUCF	Waste	KP-LULUCF				
CO ₂	✓	✓	✓	√	✓	✓				
CH ₄	✓	✓	✓	✓	✓	✓				
N ₂ O	✓	✓	✓	✓	✓	✓				
HFCs		✓								
PFCs		✓								
HFC/PFC mix										
SF ₆		✓								
NF ₃										
Indirect CO ₂										
Percentage difference in aggregate GHG	Base-year estimate ^c	With LULUCF:	0.05%	Without LULUCF:	-0.25%					
emissions	Latest recalculated year ^d	With LULUCF:	1.17%	Without LULUCF:	0.16%					

^a Years in which recalculations were performed.

^b Tick indicates that, for the respective sector and gas, recalculations were performed in one or more years.

^c Parties included in Annex I to the Convention undergoing the process of transition to a market economy may use a base year or a period of years other than 1990 in accordance with the provisions of Article 4, paragraph 6, of the Convention and decision 24/CP.19.

^d The latest recalculated year is the latest reported inventory year minus one.

	Part VII		
	Provision of information relating to KP-LULUCF acti	ivities	
		Provided ^a	Observation
	nissions by sources and removals by sinks are clearly distinguished from emissions from categories cluded in Annex A to the Kyoto Protocol	✓	
Gu	formation on how inventory methodologies have been applied, taking into account the 2006 IPCC uidelines for National Greenhouse Gas Inventories and any relevant supplementary guidance recognizing e principles laid out in decision 16/CMP.1	✓	
Inf	formation on the geographical location of the boundaries of areas that encompass:		
	Units of land subject to activities under Article 3, paragraph 3	✓	
	Units of land subject to activities under Article 3, paragraph 3, which would otherwise be included in land subject to forest management or elected activities under Article 3, paragraph 4	✓	
	Land subject to forest management or elected activities under Article 3, paragraph 4	✓	
	formation on the spatial assessment unit for determining the area of accounting for afforestation, forestation and deforestation	√	
loc	formation on GHG emissions/removals resulting from KP-LULUCF activities, for all geographical cations reported in the current and previous years since the beginning of the commitment period or the onset the activity, whichever occurs later	√	
	formation on carbon pools (above-ground/below-ground biomass, litter, deadwood and soil organic carbon) at are not accounted for	√	
in	hen a Party applies the provisions for natural disturbances, information demonstrating that these emissions any single year exceed the background level(s), including a margin, where needed. For this purpose, the rty shall include information showing:		
	That all lands subject to exclusion due to natural disturbances are identified	✓	In chapter 11.3.1.2 of the NIR the Party reports that no emissions from natural disturbance above the disturbance provision threshold level have occurred in the period cov by the latest inventory
	How annual emissions resulting from natural disturbances and the subsequent removals are estimated and excluded from the accounting	√	In chapter 11.3.1.2 of the NIR the Party reports that no emissions from natural disturbance above the disturbance provision threshold level have occurred in the period cov by the latest inventory

	Part VII Provision of information relating to KP-LULUCF activities									
		Provided ^a	Observation							
That no land-use paragraph 33, ar	change has occurred on lands for which the provisions in decision 2/CMP.7, annex, e applied	√	In chapter 11.3.1.2 of the NIR the Party reports that no emissions from natural disturbance above the disturbance provision threshold level have occurred in the period covere by the latest inventory							
That events and	circumstances were beyond the control of the Party	√	In chapter 11.3.1.2 of the NIR the Party reports that no emissions from natural disturbance above the disturbance provision threshold level have occurred in the period covered by the latest inventory							
That the efforts annex, paragraph	aken to rehabilitate the land for which the provisions contained in decision 2/CMP.7, a 33, are applied	√	In chapter 11.3.1.2 of the NIR the Party reports that no emissions from natural disturbance above the disturbance provision threshold level have occurred in the period covered by the latest inventory							
That emissions a	ssociated with salvage logging were not excluded from the accounting	√	In chapter 11.3.1.2 of the NIR the Party reports that no emissions from natural disturbance above the disturbance provision threshold level have occurred in the period covere by the latest inventory							
	y instantaneous oxidation, information on GHG emissions/removals resulting from pool accounted for in accordance with decision 2/CMP.7, including:									
	the HWP categories used for estimating the pool removed from domestic forests, for aption and for export	✓								
Half-lives used i	n estimating emissions/removals for the HWP categories used	✓								
	ons from HWP originating from forests prior to the start of the second commitment a included in the accounting, if the forest management reference level is based on a	√								
	from the HWP pool accounted for in the first commitment period on the basis of idation have been excluded from the accounting for the second commitment period	~								
How HWP resul	ting from deforestation has been accounted on the basis of instantaneous oxidation	✓								

	Part VII		
	Provision of information relating to KP-LULUCF act	tivities	
		Provided ^a	Observation
	ow CO2 emissions from HWP in solid waste disposal sites and from wood harvested for energy rposes have been accounted on the basis of instantaneous oxidation		Information required in paragraph 2(g)(vi) of annex II to decision 2/CMP.8 could not be identified in the submiss
Но	ow emissions/removals from changes in the HWP pool accounted for do not include imported HWP	✓	
Informa	tion on anthropogenic GHG emissions from KP-LULUCF activities, factoring out removals from:		
Ele	evated CO ₂ concentrations above pre-industrial levels	✓	
Inc	direct nitrogen deposition	✓	
Th	e dynamic effects of age structure resulting from activities prior to 1 January 1990	✓	
Specific	information to be reported for activities under Article 3, paragraph 3:		
	tivities that began on or after 1 January 1990 and before 31 December of the last year of the mmitment period, and are directly human-induced	√	
	ow harvesting or forest disturbance that is followed by the re-establishment of forest is distinguished om deforestation	√	
Specific	information to be reported for activities under Article 3, paragraph 4:		
Ac	tivities that have occurred since 1 January 1990 and are human-induced	✓	
em	opland management, grazing land management, revegetation, wetland drainage and rewetting: hissions/removals reported for each year of the commitment period and for the base year for each of elected activities at the geographical locations reported	✓	
	nissions/removals from activities under Article 3, paragraph 4, are not accounted for under activities der Article 3, paragraph 3	√	
	Formation on how emissions arising from the conversion of natural forests to planted forests are counted for	√	
Me	ethodological consistency between the reference level and reporting for forest management	✓	
Te	chnical corrections made pursuant to decision 2/CMP.7, annex, paragraph 14	✓	

Part VII Provision of information relating to KP-LULUCF activities								
	Provided ^a	Observation						
Forest management: if emissions/removals from the harvest and conversion of forest plantations to non-forest land were included, information on how requirements set out in decision 2/CMP.7, annex, paragraphs 37–39, were met, including:								
The identification of all lands and associated carbon pools subject to decision 2/CMP.7, annex, paragraph 37, including the georeferenced location and year of conversion	✓	In chapter 11.3.1.2 of the NIR the Party reports that it has not elected to report carbon equivalent forest						
A demonstration that the forest plantation was first established through direct human-induced planting and/or seeding of non-forest land before 1 January 1990, and, if the forest plantation was reestablished, that this last occurred on forest land through direct human-induced planting and/or seeding after 1 January 1960	√	In chapter 11.3.1.2 of the NIR the Party reports that it has not elected to report carbon equivalent forest						
A demonstration that a new forest of area at least equivalent to the harvested forest plantation is established through direct human-induced planting and/or seeding of non-forest land that did not contain forest on 31 December 1989	✓	In chapter 11.3.1.2 of the NIR the Party reports that it has not elected to report carbon equivalent forest						
A demonstration that this newly established forest will reach at least the equivalent carbon stock that was contained in the harvested forest plantation at the time of harvest, within the normal harvesting cycle of the harvested forest plantation, and, if not, that a debit would be generated under Article 3, paragraph 4	✓	In chapter 11.3.1.2 of the NIR the Party reports that it has not elected to report carbon equivalent forest						

^a A tick is accompanied by an explanatory comment in the observation field where the provision of information is not applicable.