



REPUBLIC OF CROATIA
MINISTRY OF ECONOMY AND SUSTAINABLE
DEVELOPMENT

**REPORT UPON EXPIRATION OF THE
ADDITIONAL PERIOD FOR FULFILLING
COMMITMENTS FOR THE SECOND
COMMITMENT PERIOD OF THE KYOTO
PROTOCOL**

Zagreb, October 2023

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I. Introduction

This report contains the information required to be reported upon the expiration of the additional period for fulfilling the commitments¹ for the second commitment period of the Kyoto Protocol (hereinafter referred to as the true-up period), in accordance with the relevant decisions² of the Conference of the Parties serving as the meeting of the Parties to the Kyoto Protocol.

The information contained in this report covers the period 1 January to 9 September 2023, as well as the period 1 January to 31 December 2022, in accordance with decision 15/CMP.1, annex, paragraph 20.

The information required to be included in the report is presented using the standard electronic format (SEF) tables in accordance with decision 3/CMP.10, paragraph 3.

II. Joint fulfilment of commitment for the second commitment period of the Kyoto Protocol

Croatia has committed to fulfill its commitments for the second commitment period of the Kyoto Protocol jointly with other European Union member states and Iceland in accordance with the Agreement³ between the European Union and its Member States, of the one part, and Iceland, of the other part, concerning Iceland's participation in the joint fulfilment of the commitments of the European Union, its Member States and Iceland for the second commitment period of the Kyoto Protocol to the United Nations Framework Convention on Climate Change (hereinafter referred to as joint fulfilment agreement), about which The Secretariat of the United Nations Framework Convention on Climate Change has been notified⁴.

Further details on joint fulfilment are provided in Annex I of this report.

III. Information provided before the submission of the true-up report

The SEF tables and R2, R3, R4 and R5 reports for years 2020, 2021, and 2022 have been submitted previously and can be found on the UNFCCC web page https://unfccc.int/reports?f%5B0%5D=corporate_author%3A191.

IV. Information on holdings and transactions

The information on unit holdings and transactions, provided as SEF tables in accordance with Decision 13/CMP.1, covering the period 1 January to 9 September 2023 is submitted as a part of this report in form of an Excel file named RREG1_HR_2023_2_3_20230909.xlsx and is also provided in Annex II of this report.

¹ Section XIII of decision 27/CMP.1 (Procedures and mechanisms related to compliance under the Kyoto Protocol) defines the additional period for fulfilling commitments.

² Decisions 5/CMP.1, 13/CMP.1, 15/CMP.1, 22/CMP.1, 27/CMP.1, 1/CMP.8 and 3/CMP.10.

³ https://eur-lex.europa.eu/eli/agree_internation/2015/1340/oj

⁴ <https://unfccc.int/documents/228590>

V. Information on accounting

The following information on accounting is reported for the period 1 January to 9 September 2023:

- There were no discrepant transactions;
- There were no CDM ITL notifications, corresponding cancellation or replacement transactions;
- There were no non-replacements related to CDM ITL notifications;
- There were no invalid units (units involved in a transaction found to be discrepant by the ITL which was not terminated by the end of the period).

Consequently, no actions or changes were required and the corresponding R2, R3, R4 and R5 reports are empty and therefore are not submitted as part of this report.

VI. Information on quantity and serial numbers of retired units

In accordance with joint fulfilment agreement, Croatia has retired 126.825.797 Assigned Amount Units⁵ valid for the second commitment period of the Kyoto Protocol. Serial numbers of the retired units are listed in Table 1.

Table 1. Serial numbers of units in the retirement account for the second commitment period of the Kyoto Protocol.

Party	CROATIA
REGISTRY_CODE	HR
ORIGINATING_COUNTRY_CODE	HR
UNIT_TYPE_CODE	AAU
SUPP_UNIT_TYPE	
START_BLOCK	5411964
END_BLOCK	132237760
ORIGINAL_PERIOD_CODE	2
APPLICABLE_PERIOD_CODE	2
LULUCF_CODE	
PROJECT_ID	
TRACK	
EXPIRY_DATE	

VII. Carry-over of units to the subsequent commitment period

Croatia requests to carry over 7.182.633 Assigned Amount Units (AAU) to the subsequent commitment period in accordance with decision 13/CMP.1, section F, in conjunction with decision 3/CMP.1, and decision 1/CMP.8.

Serial numbers of units requested to be carried over to the subsequent period are provided in Annex III of this report.

⁵ Abbreviation: AAU

VIII. Annexes

Annex I - Information on EU agreement on joint fulfilment of commitments for the second commitment period of the Kyoto Protocol

The terms of the agreement to fulfil jointly the commitments of the European Union, its Member States⁶ and Iceland ('the members') under Article 3 of the Kyoto Protocol for the second commitment period of the Kyoto Protocol, as adopted by the Conference of the Parties to the United Nations Framework Convention on Climate Change ('UNFCCC') serving as the meeting of the Parties to the Kyoto Protocol in Doha, by Decision 1/CMP.8, in accordance with Article 4 of the Kyoto Protocol provides that the members will fulfil their commitments by ensuring that, in accordance with Article 4(5) and (6) of the Kyoto Protocol, the combined sum of the aggregate anthropogenic carbon dioxide equivalent emissions of the greenhouse gases listed in Annex A to the Kyoto Protocol in the Member States and Iceland does not exceed their joint assigned amount.

The joint assigned amount of the EU, its Member States and Iceland for the period 2013-2020, as established in the initial review report, is 37 604 433 280 t CO₂ eq⁷.

The assigned amounts of the individual Member States and Iceland cover the emissions from sectors and gases listed in Annex A to the Kyoto Protocol not covered by the EU's emissions trading system (ETS), i.e., emissions covered by the EU's [Effort Sharing Decision](#). The assigned amounts for the period 2013-2020 were calculated per each Member State after exclusion of LULUCF activities. However, six countries (NL, UK, DK, PT, IE and LU) were allowed to include net emissions from deforestation activities in the calculation of their assigned amounts. The total amount assigned to the individual Member States and Iceland is 21 791 343 942 t CO₂ eq. A breakdown of the assigned amounts per country is presented in Table A.1.

The assigned amount of the Union for the period 2013-2020 amounts to the difference between the joint assigned amount and the sum of the individual assigned amounts of the Member States and Iceland, and is, as established in the UNFCCC initial review report, 15 813 089 338 t CO₂ eq. It covers emissions under the EU ETS. The sectors covered by the EU Emissions Trading System are those specified in Annex I of the [EU ETS Directive](#) and taking into account the application of its Articles 24 and 27.

Based on the above, for the purpose of compliance with the second commitment period of the Kyoto protocol, the assigned amounts of the individual Member States and Iceland should not be compared with the sum of the anthropogenic carbon dioxide equivalent emissions of the greenhouse gases listed in Annex A to the Kyoto Protocol in these individual countries as the calculation of the assigned amounts of these countries excludes ETS emissions on their territory.

⁶ In this Annex, 'Member States' should be understood as the current 27 EU Member States and the United Kingdom.

⁷ <https://unfccc.int/process/transparency-and-reporting/reporting-and-review-under-the-kyoto-protocol/second-commitment-period/initial-reports>

Table A.1 - Assigned amount per member to the agreement

Country	Assigned amount in tonnes CO₂ eq. considering Article 3 (7bis)
Austria	405.712.317
Belgium	584.228.513
Bulgaria	222.945.983
Croatia	162.271.086
Cyprus	47.450.128
Czech Republic	520.515.203
Denmark	269.377.890
Estonia	51.056.976
Finland	240.544.599
France	3.014.714.832
Germany	3.592.699.888
Greece	480.791.166
Hungary	434.486.280
Ireland	343.519.892
Italy	2.410.291.421
Latvia	76.633.439
Lithuania	113.600.821
Luxembourg	72.454.473
Malta	9.299.769
Netherlands	924.777.902
Poland	1.583.938.824
Portugal	429.581.969
Romania	656.059.490
Slovakia	202.268.939
Slovenia	99.425.782
Spain	1.766.877.232
Sweden	315.554.578
United Kingdom	2.744.937.332
Iceland	15.327.217
Total	21.791.343.942

Annex II - SEF tables covering the period 1 January to 9 September 2023

Report type	RREG1
Registry	HR
Reported year	2023
Submission year	2023
CP	2
Version	3
Status	FINAL
Validity	VALID

Party Croatia
 Submission year 2023
 Reported year 2023
 Commitment period 2

Table 1. Total quantities of Kyoto Protocol units by account type at beginning of reported year

	Account type	Unit type					
		AAUs	ERUs	RMUs	CERs	tCERs	ICERs
1	Party holding accounts	162.271.086	NO	NO	NO	NO	NO
2	Entity holding accounts	NO	NO	NO	NO	NO	NO
3	Retirement account	NO	NO	NO	NO	NO	NO
4	Previous period surplus reserve account	NO					
5	Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
6	Non-compliance cancellation account	NO	NO	NO	NO		
7	Voluntary cancellation account	NO	NO	NO	NO	NO	NO
8	Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
9	Article 3.1 ter and quater ambition increase cancellation account	NO					
10	Article 3.7 ter cancellation account	NO					
11	tCER cancellation account for expiry					NO	
12	ICER cancellation account for expiry						NO
13	ICER cancellation account for reversal of storage						NO
14	ICER cancellation account for non-submission of certification report						NO
15	tCER replacement account for expiry	NO	NO	NO	NO	NO	
16	ICER replacement account for expiry	NO	NO	NO	NO		
17	ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
18	ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
	Total	162.271.086	NO	NO	NO	NO	NO

Party Croatia
 Submission year 2023
 Reported year 2023
 Commitment period 2

Table 2 (a). Annual internal transactions

	Transaction type	Additions						Subtractions					
		Unit type						Unit type					
		AAUs	ERUs	RMUs	CERs	tCERs	ICERs	AAUs	ERUs	RMUs	CERs	tCERs	ICERs
Article 6 issuance and conversion													
1	Party-verified projects		NO					NO		NO			
2	Independently verified projects		NO					NO		NO			
Article 3.3 and 3.4 issuance or cancellation													
3	3.3 Afforestation and reforestation			2.405.408				NO	NO	NO	NO		
4	3.3 Deforestation			NO				NO	NO	193.896	NO		
5	3.4 Forest management			7.146.706				NO	NO	NO	NO		
6	3.4 Cropland management			NO				NO	NO	NO	NO		
7	3.4 Grazing land management			NO				NO	NO	NO	NO		
8	3.4 Revegetation			NO				NO	NO	NO	NO		
9	3.4 Wetlands drainage and management			NO				NO	NO	NO	NO		
Article 12 afforestation and reforestation													
10	Replacement of expired tCERs							NO	NO	NO	NO	NO	
11	Replacement of expired ICERs							NO	NO	NO	NO		
12	Replacement for reversal of storage							NO	NO	NO	NO	NO	
13	Cancellation for reversal of storage											NO	
14	Replacement for non-submission of certification report							NO	NO	NO	NO	NO	
15	Cancellation for non-submission of certification report											NO	
Other cancelation													
16	Voluntary cancellation							NO	NO	NO	NO	NO	
17	Article 3.1 ter and quater ambition increase cancellation							NO					
Sub-total			NO	9.552.114				NO	NO	193.896	NO	NO	

	Transaction type	Retirement					
		Unit type					
		AAUs	ERUs	RMUs	CERs	tCERs	ICERs
1	Retirement	126.825.797	NO	NO	NO	NO	NO
2	Retirement from PPSR	NO					
Total		126.825.797	NO	NO	NO	NO	NO

Party Croatia
 Submission year 2023
 Reported year 2023
 Commitment period 2

Table 2 (b). Total annual external transactions

		Additions						Subtractions					
		Unit type						Unit type					
		AAUs	ERUs	RMUs	CERs	tCERs	ICERs	AAUs	ERUs	RMUs	CERs	tCERs	ICERs
Total transfers and acquisitions													
1	EU	7.182.633	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Sub-total		7.182.633	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

Table 2 (c). Annual transactions between PPSR accounts

		Additions						Subtractions					
		Unit type						Unit type					
		AAUs	ERUs	RMUs	CERs	tCERs	ICERs	AAUs	ERUs	RMUs	CERs	tCERs	ICERs
Transfers and acquisitions between PPSR accounts													
Sub-total		NO						NO					

Table 2 (d). Share of proceeds transactions under decision 1/CMP.8, paragraph 21 - Adaptation fund

		Amount transferred or converted						Amount contributed as SoP to the adaptation fund					
		AAUs	ERUs	RMUs	CERs	tCERs	ICERs	AAUs	ERUs	RMUs	CERs	tCERs	ICERs
1	First international transfers of AAUs	NO						NO					
2	Issuance of ERU from party-verified projects		NO						NO				
3	Issuance of independently verified ERUs		NO						NO				

Table 2 (e). Total annual transactions

1	Total (Sum of sub-totals in table 2a and table 2b)	7.182.633	NO	9.552.114	NO	NO	NO	NO	NO	193.896	NO	NO	NO
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Party Croatia
 Submission year 2023
 Reported year 2023
 Commitment period 2

Table 3. Annual expiry, cancellation and replacement

Transaction or event type	Requirement to replace or cancel			Replacement						Cancellation					
	Unit type			Unit type						Unit type					
	tCERs	ICERs	CERs	AAUs	ERUs	RMUs	CERs	tCERs	ICERs	AAUs	ERUs	RMUs	CERs	tCERs	ICERs
Temporary CERs															
1	Expired in retirement and replacement accounts	NO			NO	NO	NO	NO	NO						
2	Expired in holding accounts	NO												NO	
Long-term CERs															
3	Expired in retirement and replacement accounts		NO		NO	NO	NO	NO							
4	Expired in holding accounts		NO												NO
5	Subject to reversal of storage		NO		NO	NO	NO	NO		NO					NO
6	Subject to non-submission of certification Report		NO		NO	NO	NO	NO		NO					NO
Carbon Capture and Storage CERs															
7	Subject to net reversal of storage			NO							NO	NO	NO	NO	
8	Subject to non-submission of certification report			NO							NO	NO	NO	NO	
Total		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

Party Croatia
 Submission year 2023
 Reported year 2023
 Commitment period 2

Table 4. Total quantities of Kyoto Protocol units by account type at end of reported year

	Account type	Unit type					
		AAUs	ERUs	RMUs	CERs	tCERs	ICERs
1	Party holding accounts	42.627.922	NO	9.358.218	NO	NO	NO
2	Entity holding accounts	NO	NO	NO	NO	NO	NO
3	Retirement account	126.825.797	NO	NO	NO	NO	NO
4	Previous period surplus reserve account	NO					
5	Article 3.3/3.4 net source cancellation accounts	NO	NO	193.896	NO		
6	Non-compliance cancellation account	NO	NO	NO	NO		
7	Voluntary cancellation account	NO	NO	NO	NO	NO	NO
8	Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
9	Article 3.1 ter and quater ambition increase cancellation account	NO					
10	Article 3.7 ter cancellation account	NO					
11	tCER cancellation account for expiry					NO	
12	ICER cancellation account for expiry						NO
13	ICER cancellation account for reversal of storage						NO
14	ICER cancellation account for non-submission of certification report						NO
15	tCER replacement account for expiry	NO	NO	NO	NO	NO	
16	ICER replacement account for expiry	NO	NO	NO	NO		
17	ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
18	ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
	Total	169.453.719	NO	9.552.114	NO	NO	NO

Party Croatia
 Submission year 2023
 Reported year 2023
 Commitment period 2

Table 5 (a). Summary information on additions and subtractions

		Additions						Subtractions					
		Unit type						Unit type					
		AAUs	ERUs	RMUs	CERs	tCERs	ICERs	AAUs	ERUs	RMUs	CERs	tCERs	ICERs
1	Assigned amount units issued	162.271.086											
2	Article 3 paragraph 7 ter cancellations							NO					
3	Cancellation following increase in ambition							NO					
4	Cancellation of remaining units after carry over							NO	NO	NO	NO	NO	NO
5	Non-compliance cancellation							NO	NO	NO	NO		
6	Carry-over		NO		NO				NO		NO		
7	Carry-over to PPSR	NO						NO					
	Total	162.271.086	NO		NO			NO	NO	NO	NO	NO	NO

Table 5 (b). Summary information on annual transactions

		Additions						Subtractions					
		Unit type						Unit type					
		AAUs	ERUs	RMUs	CERs	tCERs	ICERs	AAUs	ERUs	RMUs	CERs	tCERs	ICERs
1	Year 1 (2013)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2	Year 2 (2014)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
3	Year 3 (2015)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4	Year 4 (2016)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
5	Year 5 (2017)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
6	Year 6 (2018)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
7	Year 7 (2019)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
8	Year 8 (2020)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
9	Year 2021	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
10	Year 2022	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
11	Year 2023	7.182.633	NO	9.552.114	NO	NO	NO	NO	NO	193.896	NO	NO	NO
	Total	7.182.633	NO	9.552.114	NO	NO	NO	NO	NO	193.896	NO	NO	NO

Table 5 (c). Summary information on annual transactions between PPSR accounts

		Additions						Subtractions						
		Unit type						Unit type						
		AAUs	ERUs	RMUs	CERs	tCERs	ICERs	AAUs	ERUs	RMUs	CERs	tCERs	ICERs	
1	Year 1 (2013)	NO						NO						
2	Year 2 (2014)	NO						NO						
3	Year 3 (2015)	NO						NO						
4	Year 4 (2016)	NO						NO						
5	Year 5 (2017)	NO						NO						
6	Year 6 (2018)	NO						NO						
7	Year 7 (2019)	NO						NO						
8	Year 8 (2020)	NO						NO						
9	Year 2021	NO						NO						
10	Year 2022	NO						NO						
11	Year 2023	NO						NO						
	Total	NO						NO						

Table 5 (d). Summary information on expiry, cancellation and replacement

		Requirement to replace or cancel			Replacement						Cancellation					
		Unit type			Unit type						Unit type					
		tCERs	ICERs	CERs	AAUs	ERUs	RMUs	CERs	tCERs	ICERs	AAUs	ERUs	RMUs	CERs	tCERs	ICERs
1	Year 1 (2013)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2	Year 2 (2014)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
3	Year 3 (2015)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4	Year 4 (2016)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
5	Year 5 (2017)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
6	Year 6 (2018)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
7	Year 7 (2019)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
8	Year 8 (2020)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
9	Year 2021	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
10	Year 2022	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
11	Year 2023	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	Total	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

Table 5 (e). Summary information on retirement

Year		Retirement					
		Unit type					
		AAUs	ERUs	RMUs	CERs	tCERs	ICERs
1	Year 1 (2013)	NO	NO	NO	NO	NO	NO
2	Year 2 (2014)	NO	NO	NO	NO	NO	NO
3	Year 3 (2015)	NO	NO	NO	NO	NO	NO
4	Year 4 (2016)	NO	NO	NO	NO	NO	NO
5	Year 5 (2017)	NO	NO	NO	NO	NO	NO
6	Year 6 (2018)	NO	NO	NO	NO	NO	NO
7	Year 7 (2019)	NO	NO	NO	NO	NO	NO
8	Year 8 (2020)	NO	NO	NO	NO	NO	NO
9	Year 2021	NO	NO	NO	NO	NO	NO
10	Year 2022	NO	NO	NO	NO	NO	NO
11	Year 2023	126.825.797	NO	NO	NO	NO	NO
Total		126.825.797	NO	NO	NO	NO	NO

Party	Croatia
Submission year	2023
Reported year	2023
Commitment period	2

Table 6 (a). Memo item: Corrective transactions relating to additions and subtractions

	Additions						Subtractions					
	Unit type						Unit type					
	AAUs	ERUs	RMUs	CERs	tCERs	ICERs	AAUs	ERUs	RMUs	CERs	tCERs	ICERs

Table 6 (b). Memo item: Corrective transactions relating to replacement

	Requirement for replacement		Replacement					
	Unit type		Unit type					
	tCERs	ICERs	AAUs	ERUs	RMUs	CERs	tCERs	ICERs

Table 6 (c). Memo item: Corrective transactions relating to retirement

	Retirement					
	Unit type					
	AAUs	ERUs	RMUs	CERs	tCERs	ICERs

Annex III - Serial numbers of units requested to be carried over to the subsequent period

Party	HR										
REGISTRY_CODE	ORIGINATING_COUNTRY_CODE	UNIT_TYPE_CODE	SUPP_UNIT_TYPE_CODE	START_BLOCK	END_BLOCK	ORIGINAL_PERIOD_CODE	APPLICABLE_PERIOD_CODE	LULUCF_CODE	PROJECT_ID	TRACK	EXPIRY_DATE
HR	EU	AAU		156295269018	156295987280	2	2				
HR	EU	AAU		155080029700	155086494069	2	2				
HR	HR	AAU		132237761	167683049	2	2				