

Protocolo de Montreal relativo a las Sustancias que Agotan la Capa de Ozono

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38ª Reunión de las Partes en el Protocolo de Montreal relativo a las Sustancias que Agotan la Capa de Ozono

Kigali, 2 a 6 de noviembre de 2026

Tema 10 del programa provisional de la serie de sesiones
preparatorias*

**Cuestiones relacionadas con el cumplimiento y la
presentación de datos: labor del Comité de Aplicación
y decisiones recomendadas por este**

Comité de Aplicación establecido con arreglo al Procedimiento relativo al Incumplimiento del Protocolo de Montreal

77ª reunión

Kigali, 30 y 31 de octubre de 2026

Temas 3, 5, 6 y 7 del programa provisional**

**Presentación de la Secretaría del Ozono sobre los datos
y la información proporcionados con arreglo a los
artículos 7 y 9 del Protocolo de Montreal y sobre
cuestiones conexas**

**Seguimiento de la aplicación de decisiones anteriores
de las Partes y de las recomendaciones del Comité de
Aplicación relativas al incumplimiento**

**Examen de otras cuestiones relativas a posibles
incumplimientos inferidas de la presentación de datos**

Solicitudes de modificaciones de los datos de referencia

Información presentada por las Partes de conformidad con los artículos 7 y 9 del Protocolo de Montreal relativo a las Sustancias que Agotan la Capa de Ozono

Informe de la Secretaría

I. Introducción

1. El presente informe se ha elaborado de conformidad con el párrafo c) del artículo 12 del Protocolo de Montreal relativo a las Sustancias que Agotan la Capa de Ozono y contiene la información recibida por la Secretaría del Ozono hasta la fecha con arreglo a los artículos 7 y 9 del Protocolo y las decisiones conexas de las Reuniones de las Partes en el Protocolo de Montreal. Las principales cuestiones abordadas en el informe se resumen en el cuadro 1 para facilitar la labor de las Partes en el Protocolo de Montreal y los miembros del Comité de Aplicación establecido con arreglo al Procedimiento relativo al Incumplimiento del Protocolo de Montreal a la hora de examinar el informe.

2. En la sección II del informe se abordan las cuestiones incluidas en el cuadro 1.

3. En la sección III se enumeran los anexos del presente informe. En los anexos I a III se presenta información de referencia que se ha actualizado, en su caso, para reflejar los dos últimos años que se

* UNEP/OzL.Pro.38/1.

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examinan (2024 y 2025 para el presente informe), mientras que en los anexos IV a XVI se presentan datos e información comunicados por las Partes o derivados de los informes presentados con arreglo al artículo 7.

Cuadro 1

Resumen de las cuestiones

<i>Sección/tema</i>	<i>Estado</i>
A. Presentación de datos con arreglo al artículo 9 del Protocolo	En abril de 2026, Lituania presentó un nuevo informe correspondiente al bienio 2020-2021 (véase el párr. 4)
B. Situación del cumplimiento de las obligaciones de presentación de datos anuales y datos de referencia de los hidrofluorocarbonos (HFC) (artículo 7, párrs. 2, 3, 3 bis y 3 ter)	- Presentación de datos correspondientes a 2025: - Hasta la fecha, 136 de las 198 Partes han presentado sus informes (véase el cuadro 2); - En total, 97 Partes han comunicado datos mediante el sistema de presentación de datos en línea. - Presentación de datos correspondientes a 2024: 197 Partes han presentado sus informes (véase el cuadro 2); - En total, 128 Partes comunicaron datos mediante el sistema de presentación de datos en línea. - Seis Partes que ratificaron recientemente la Enmienda de Kigali al Protocolo no han comunicado todavía sus datos de referencia sobre los HFC (véase el cuadro 3).
C. Situación de cumplimiento de las medidas de control en 2024	- Se presentan ocho casos de posible incumplimiento que no se abordaron en 2025 porque parte o la totalidad de la información requerida no se recibió a tiempo para su inclusión en el examen del Comité, y se muestra que, de conformidad con la información recibida después de la 75ª reunión del Comité (véase el cuadro 4): - Cinco de esas Partes corrigieron la información que habían presentado y confirmaron que cumplían las medidas de control para 2024; - Dos de esas Partes no han aclarado todavía su exceso de consumo de HFC; - Se ha aplazado el examen de un caso de posible situación de incumplimiento, de conformidad con la decisión XXXV/16.
D. Situación del cumplimiento de las medidas de control en 2025 por Partes que no operan al amparo del párrafo 1 del artículo 5 (Partes que no operan al amparo del artículo 5)	- Hasta la fecha, dos Partes que no operan al amparo del artículo 5 han presentado datos relativos a 2025 que muestran desviaciones respecto de las medidas de control para 2025. - Uno de los casos se refiere a los usos exentos; - El otro caso se ajusta a lo dispuesto en las decisiones XVIII/17 y XXII/20 (véanse los cuadros 5 y 6).
E. Situación de cumplimiento de las medidas de control en 2025 por Partes que operan al amparo del artículo 5	- Hasta la fecha, seis Partes que operan al amparo del párrafo 1 del artículo 5 han presentado datos relativos a 2025 que muestran desviaciones respecto de las medidas de control para 2025. - Ninguna de esas Partes ha aclarado todavía su exceso de consumo (véase el cuadro 7).
F. Información sobre las exenciones concedidas para usos críticos en 2025	La única Parte que gozaba de una exención para usos críticos en 2025 ha presentado la información correspondiente (véase el cuadro 8).
G. Notificación de las exportaciones y de sus países de destino (decisiones XVII/16 y XXX/12)	En total, 52 Partes notificaron exportaciones en 2024; 44 incluyeron información parcial o completa sobre los países de destino, y se especificó el destino del 99 % de todas las exportaciones notificadas (por peso) (véase el cuadro 9).
H. Notificación de las importaciones y de sus países de origen (decisiones XXIV/12 y XXX/12)	En total, 167 Partes notificaron importaciones en 2024; 96 incluyeron información sobre los países de destino, y se especificó el origen del 72 % de todas

<i>Sección/tema</i>	<i>Estado</i>
	las importaciones notificadas (por peso) (véase el cuadro 10).
I. Registro consolidado de casos de exceso de los niveles calculados de producción y consumo atribuible al almacenamiento para 2024 y 2025 (decisiones XVIII/17 y XXII/20)	- En 2024, cuatro Partes notificaron cinco casos de exceso de los niveles calculados de producción o consumo atribuible al almacenamiento (véase el anexo XI). - Hasta la fecha, se ha notificado un caso en 2025.
J. Presentación de información sobre los usos como agentes de procesos en 2024 y 2025 (decisiones X/14, XXI/3, XXXI/6 y XXXII/5)	- Todas las Partes con obligación de informar sobre los usos como agentes de procesos lo han hecho en relación con 2024 (véanse el párr. 26). - Dos de ellas presentaron informes correspondientes a 2025 (véase el cuadro 11).
K. Producción notificada de sustancias controladas eliminadas	La producción total notificada de sustancias controladas eliminadas fue de casi 596.000 toneladas en 2024, el 97 % de las cuales consistía en clorofluorocarbonos, tetracloruro de carbono y metilcloroformo (véase el cuadro 12).
L. Uso notificado de sustancias controladas como materia prima	En total, 20 Partes comunicaron el uso como materia prima de cerca de 2,2 millones de toneladas de sustancias controladas en 2024 (véanse las figuras 2 y 3).
M. Uso notificado del bromuro de metilo para aplicaciones de cuarentena y previas al envío	Un total de 39 Partes informaron del uso de unas 8.000 toneladas de bromuro de metilo para aplicaciones de cuarentena y previas al envío en 2024 (véase la figura 4).
N. Destrucción notificada de sustancias controladas	Un total de 27 Partes notificaron la destrucción de aproximadamente 18.000 toneladas de sustancias controladas en 2024 (véase la figura 5).
O. Respuestas de las Partes a las decisiones XXIV/14, XXIX/18 y XXX/14 (notificación de la cifra de cero en los formularios de comunicación de datos con arreglo al artículo 7)	- En relación con los datos correspondientes a 2024, ocho Partes presentaron formularios con casillas en blanco (véase el cuadro 13). - Todas esas Partes han aclarado que las casillas en blanco representaban ceros, o bien han presentado formularios diferentes.
P. Modificación de los datos de referencia de los hidrofluorocarbonos (decisiones XIII/15 y XV/19)	Cuatro Partes han solicitado la revisión de sus datos de referencia relativos a los HFC (véase el cuadro 14 y 15).

II. Información suministrada por las Partes

A. Presentación de datos con arreglo al artículo 9 del Protocolo

4. En abril de 2026, la Secretaría recibió nuevas comunicaciones de Lituania, presentadas de conformidad con el artículo 9, que abarcaban los bienios 2012-2013, 2014-2015, 2016-2017 y 2020-2021¹. Solo la comunicación correspondiente al bienio 2020-2021 aporta información nueva; las demás son reenvíos de información de años anteriores.

¹ La información presentada en virtud del artículo 9 puede consultarse en <https://ozone.unep.org/countries/additional-reported-information/article-9>. En 2002, en la 29ª reunión del Comité de Aplicación, la Secretaría observó que el Comité había llegado a un entendimiento oficioso según el cual los requisitos en virtud del artículo 9 se cumplían con los informes periódicos de los grupos de evaluación y la Organización Meteorológica Mundial (documento UNEP/OzL.Pro/ImpCom/29/3, párr. 39).

B. Situación de cumplimiento del requisito de comunicar los datos anuales y los datos de referencia sobre los hidrofluorocarbonos (artículo 7, párrs. 2, 3, 3 bis y 3 ter)

5. En el cuadro 2 se expone información estadística sobre la presentación de datos con arreglo al artículo 7² correspondientes a los últimos años. En relación con el periodo 1986-2023, todas las Partes han facilitado datos correspondientes a todos los años. Para 2024, todas las Partes, excepto Armenia, han comunicado sus datos, incluidas las demás Partes mencionadas en la decisión XXXVII/8 como pendientes de presentar datos en virtud del párrafo 3 del artículo 7, a saber, las Comoras, Islandia y Santo Tomé y Príncipe.

Cuadro 2

Número de Partes que han comunicado datos con arreglo al artículo 7, 2016-2025

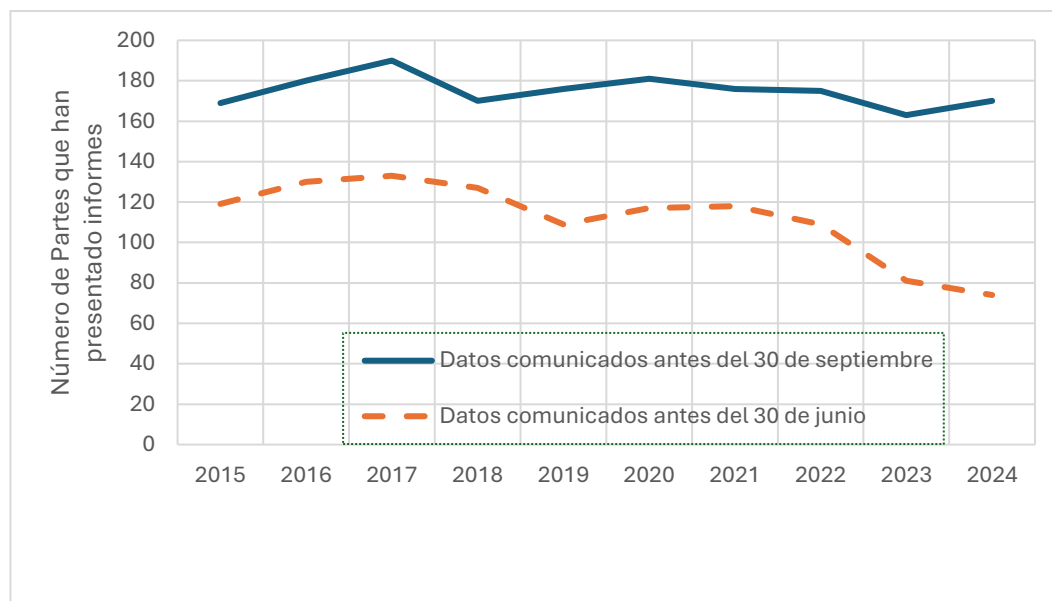
	Número de Partes con obligación de informar	Total	Número de Partes que han informado hasta la fecha					Número de Partes pendientes de comunicar datos
			Antes del 30 de septiembre	Antes del 30 de junio	En línea	Partes que operan al amparo del artículo 5	Partes que no operan al amparo del artículo 5	
2025	198	136	n. a.	95	97	103	33	62
2024	198	197	170	74	128	146	51	1
2023	198	198	163	81	115	147	51	–
2022	198	198	175	109	117	147	51	–
2021	198	198	176	118	112	147	51	–
2020	198	198	181	117	105	147	51	–
2019	198	198	176	109	105	147	51	–
2018	197	197	170	127	17	147	50	–
2017	197	197	190	133	7	147	50	–
2016	197	197	180	130	4	147	50	–

6. En la figura 1 se muestra la tendencia anual del número de Partes que presentan datos dentro de los 9 meses siguientes a la conclusión del año al que corresponden (antes del 30 de septiembre) y de las que los presentan dentro de los 6 meses siguientes al final del año (antes del 30 de junio). La información se ofrece en respuesta a la solicitud del Comité de Aplicación, formulada en su 60^a reunión, de que se le informase de las tendencias observadas en cuanto a la observancia de los plazos de comunicación de datos.

² Conforme al párrafo 3 del artículo 7 del Protocolo de Montreal, toda Parte deberá proporcionar a la Secretaría datos estadísticos de su producción anual de cada una de las sustancias controladas incluidas en los anexos A, B, C, E y F del Protocolo e indicar, por separado para cada sustancia, las cantidades utilizadas como materias primas, las cantidades destruidas mediante tecnologías aprobadas por las Partes y las importaciones de Partes y exportaciones a Estados que no son Partes, respecto del año en que las disposiciones referentes a las sustancias en cuestión hayan entrado en vigor para esa Parte, así como respecto de cada año subsiguiente. En el párrafo 3 del artículo 7 también se dispone que las Partes deben comunicar esos datos a más tardar nueve meses después del final del año al que correspondan; sin embargo, en la decisión XV/15 se invita a las Partes a presentar esos datos a la Secretaría antes del 30 de junio.

Figura 1

Puntualidad en la presentación de datos anuales con arreglo al párrafo 3 del artículo 7 del Protocolo de Montreal



7. En el cuadro 3 se indican las Partes que han ratificado recientemente la Enmienda de Kigali al Protocolo de Montreal y están obligadas a presentar datos de referencia sobre los HFC, pero que aún no lo han hecho. La Secretaría se ha puesto en contacto con las Partes que han excedido los plazos de presentación para recordarles que deben presentar sus datos.

Cuadro 3

Partes que han ratificado recientemente la Enmienda de Kigali al Protocolo de Montreal y están obligadas a presentar datos de referencia sobre los HFC, pero que aún no lo han hecho

<i>Parte</i>	<i>Fecha de ratificación de la Enmienda de Kigali</i>	<i>Entrada en vigor de la Enmienda de Kigali</i>	<i>Años de referencia con datos sobre los HFC pendientes*</i>	<i>Fecha límite para la presentación de los datos de referencia sobre los HFC</i>
1. Azerbaiyán	24 de noviembre de 2025	22 de febrero de 2025	2011, 2012, 2013	22 de mayo de 2026
2. Madagascar	10 de agosto de 2025	8 de noviembre de 2025	2020, 2021, 2022	8 de febrero de 2025
3. Mauritania	11 de noviembre de 2025	9 de febrero de 2023	2020, 2021, 2022	9 de mayo de 2026
4. Nepal	6 de agosto de 2025	4 de noviembre de 2025	2020, 2021, 2022	4 de febrero de 2026
5. República Centroafricana	15 de octubre de 2025	13 de enero de 2026	2020, 2021, 2022	13 de abril de 2026
6. Saint Kitts y Nevis	29 de agosto de 2025	27 de noviembre de 2025	2020, 2021, 2022	27 de febrero de 2026

Abreviación: HFC = hidrofluorocarbono.

* En la tabla solo se incluyen los años que no están sujetos al aplazamiento previsto en la decisión XXX/11.

8. En los anexos IV a VII se exponen los datos de los niveles calculados de producción y consumo de la manera siguiente:

(a) En el anexo IV se muestran los datos calculados de la producción y el consumo de sustancias controladas correspondientes a 2025, desglosados según la distinción entre Partes que operan al amparo del artículo 5 y Partes que no operan de ese modo;

(b) En el anexo V se muestran los datos calculados de la producción y el consumo de sustancias controladas correspondientes a 2024, desglosados según la distinción entre Partes que operan al amparo del artículo 5 y Partes que no operan de ese modo;

(c) En el anexo VI se resume la información agregada sobre los datos calculados de la producción y el consumo de sustancias controladas correspondientes a 2024 y 2025, desglosados por grupos regionales de las Naciones Unidas;

(d) En el anexo VII se presenta un resumen de la información agregada en el que se comparan los datos calculados de la producción, importación y exportación de sustancias controladas correspondientes a 2024 y 2025, desglosados según la distinción entre Partes que operan al amparo del artículo 5 y Partes que no operan de ese modo.

9. En los anexos VIII y IX se ofrece información detallada o resumida sobre el comercio de sustancias controladas recuperadas³ de la manera siguiente:

(a) En el anexo VIII se presenta un resumen de la información relativa a la importación y exportación de sustancias controladas correspondientes a 2024 y 2025, desglosada según la distinción entre Partes que operan al amparo del artículo 5 y Partes que no operan de ese modo;

(b) En el anexo IX figura información desglosada por sustancia y Parte sobre sustancias controladas recuperadas, importadas o exportadas por las Partes durante 2024 y 2025, agrupada según la distinción entre Partes que operan al amparo del artículo 5 y Partes que no operan de ese modo.

10. En el anexo X se presenta información resumida sobre la producción y el consumo de sustancias que agotan el ozono para usos analíticos y de laboratorio, según lo dispuesto en el párrafo 2 de la decisión XXXI/5. Cabe observar que, de conformidad con el párrafo 1 de la decisión XXXI/5, está en vigor una exención general de duración indefinida para usos analíticos y de laboratorio de sustancias controladas en todos los anexos y grupos, con excepción de los grupos I y II del anexo F.

C. Situación de cumplimiento de las medidas de control en 2024

11. En el cuadro 4 se enumeran los casos de consumo calculado de sustancias controladas que superan los límites prescritos para 2024 y que no fueron examinados por el Comité de Aplicación en su 76ª reunión ni por la 37ª Reunión de las Partes, bien porque parte o la totalidad de la información requerida no se había recibido a tiempo o porque se señaló como pendiente de aclaración la información relativa al exceso de consumo o producción. Los casos se han actualizado sobre la base de la información recibida tras la 76ª reunión del Comité. En la última columna del cuadro figuran las explicaciones u observaciones pertinentes.

Cuadro 4

Casos en los que el consumo calculado supera la cantidad permitida por los calendarios de reducción previstos en virtud del Protocolo para 2024 y explicaciones correspondientes

Consumo en t PAO para el anexo E/I, y en t de CO ₂ eq para el anexo F					
Parte	Anexo/ grupo ^a	Nivel de base	Límite establecido en el Protocolo para 2024	2024 consumo	Explicación u observación
1. Cabo Verde	F	38 791	38 791	108 546	Aclaración pendiente
2. Eritrea	F	169 249	169 249	169 245	El consumo para 2024, comunicado anteriormente en 169.266 toneladas de CO ₂ equivalente, se corrigió de conformidad con el párrafo 3 de la decisión VI/5
3. Guinea	F	1 798 954	1 798 954	1 836 016	Aclaración pendiente
4. Mozambique	F	655 255	655 255	652 110	El consumo para 2024, comunicado anteriormente en 1.184.182 toneladas de CO ₂ equivalente, se corrigió de conformidad con el párrafo 3 de la decisión VI/5

³ Según el párrafo 3 bis del artículo 7 del Protocolo de Montreal, toda Parte proporcionará a la Secretaría datos estadísticos por separado sobre sus importaciones y exportaciones anuales de cada una de las sustancias controladas que figuran en el grupo II del anexo A y el grupo I del anexo C que hayan sido recicladas.

<i>Consumo en t PAO para el anexo E/I, y en t de CO₂ eq para el anexo F</i>					
<i>Parte</i>	<i>Anexo/ grupo^a</i>	<i>Nivel de base</i>	<i>Límite establecido en el Protocolo para 2024</i>	<i>2024 consumo</i>	<i>Explicación u observación</i>
5. Namibia	F	774 924	774 924	600 368	El consumo para 2024, comunicado anteriormente en 916.622 toneladas de CO ₂ equivalente, se corrigió de conformidad con el párrafo 3 de la decisión VI/5
6. Santa Lucía	F	83 735	83 735	104 747	Se ha aplazado el examen del estado de cumplimiento, de conformidad con la decisión XXXV/16
7. Sri Lanka	E/I	4,1	0,0	0,0	El consumo de 34 toneladas ODP para 2024 comunicado anteriormente se corrigió de conformidad con el párrafo 3 de la decisión VI/5 y se confirmó que correspondía a aplicaciones de cuarentena y previas al envío
8. Uganda	F	39 432	39 432	35 728	El consumo para 2024, comunicado anteriormente en 94.318 toneladas de CO ₂ equivalente, se corrigió de conformidad con el párrafo 3 de la decisión VI/5

Abreviaciones: t de CO₂ eq = toneladas de dióxido de carbono equivalentes; t PAO = toneladas de potencial de agotamiento del ozono.

^a La sustancia de E/I es el bromuro de metilo, y las sustancias de F son los HFC.

D. Situación de cumplimiento de las medidas de control en 2025 por Partes que no operan al amparo del artículo 5

12. En el cuadro 5 se indican los casos notificados hasta la fecha en que una Parte que no opera al amparo del artículo 5 superó en 2025 los límites impuestos al consumo de sustancias controladas, conjuntamente con las explicaciones o aclaraciones aportada, bien por la Secretaría, bien por la Parte, según el caso.

Cuadro 5

Casos en los que el consumo supera la cantidad permitida por los calendarios de reducción previstos en virtud del Protocolo para 2025 para las Partes que no operan al amparo del artículo 5, y explicaciones correspondientes

<i>Consumo en t PAO</i>					
<i>Parte</i>	<i>Anexo/ grupo</i>	<i>Nivel de base</i>	<i>Límite establecido en el Protocolo para 2025</i>	<i>Consumo para 2025</i>	<i>Explicación u observación</i>
Japón	B/II	74.879,2	0,0	7,9	Usos analíticos y de laboratorio

Abreviación: t PAO = toneladas de potencial de agotamiento del ozono.

^a La sustancia de B/II es el tetracloruro de carbono.

13. En el cuadro 5 se indican los casos notificados hasta la fecha en que una Parte que no opera al amparo del artículo 5 superó en 2025 los límites impuestos a la producción prevista de sustancias controladas, conjuntamente con las explicaciones o aclaraciones aportadas, bien por la Secretaría, bien por la Parte, según el caso.

Cuadro 6

Casos en los que la producción calculada supera la cantidad permitida por los calendarios de reducción previstos en virtud del Protocolo para 2025 para las Partes que no operan al amparo del artículo 5 y explicaciones correspondientes

Parte	Anexo/ grupo	Nivel de base	Producción en t PAO		Explicación u observación
			Límite establecido en el Protocolo para 2025	Producción calculada para 2025	
Japón	B/II	19 602,0	0,0	7,9	Usos analíticos y de laboratorio
Países Bajos (Reino de los)	B/II	0,0	0,0	1,6	Fabricación no intencional de subproductos: almacenados para ser destruido en un año futuro (hipótesis a) de las decisiones XVIII/17 y XXII/20)

Abreviación: t PAO = toneladas de potencial de agotamiento del ozono.

^a La sustancia de B/II es el tetracloruro de carbono.

14. Como puede verse en los cuadros 5 y 6, dos Partes que no operan al amparo del artículo 5 han comunicado hasta la fecha un consumo o una producción de sustancias controladas que superan los límites establecidos para 2025. Uno de los casos guarda relación con los usos exentos y el otro caso se rige por lo establecido en las decisiones XVIII/17 y XXII/20. Por consiguiente, no es necesario someter ninguno de los dos casos al examen del Comité.

E. Situación de cumplimiento de las medidas de control en 2025 por Partes que operan al amparo del artículo 5

15. En el cuadro 7 se enumeran todos los casos notificados hasta la fecha de consumo de sustancias controladas que superan los límites prescritos para 2025 para las Partes que operan al amparo del artículo 5.

Cuadro 7

Casos en los que el consumo supera la cantidad permitida por los calendarios de reducción previstos en virtud del Protocolo para 2025 para las Partes que operan al amparo del artículo 5

Parte	Anexo/ grupo	Nivel de base	Consumo en t PAO		Explicación u observación
			Límite establecido en el Protocolo para 2025	Consumo para 2025	
1. Argentina	E/I	411,3	0,0	19,2	Aclaración pendiente
2. Congo	C/I	10,14	3,30	3,58	Aclaración pendiente
3. Guinea Ecuatorial	C/I	6,31	2,05	4,63	Aclaración pendiente
4. Malí	F	399 935	399 935	1 571 571	Aclaración pendiente
5. Mongolia	F	57 309	57 309	67 925	Aclaración pendiente
6. Samoa	F	20 557	20 557	28 660	Aclaración pendiente

Abreviación: t PAO = toneladas de potencial de agotamiento del ozono.

^a Las sustancias del grupo C/I son los hidroclorofluorocarbonos, la sustancia del grupo E/I es el bromuro de metilo, y las sustancias del grupo F son los HFC.

F. Información sobre las exenciones concedidas para usos críticos en 2025

16. Solo a una Parte se le concedió una exención para usos críticos para 2025. En el cuadro 8 se resume la información relativa a la exención y la notificación, incluida la situación de esa Parte en cuanto a la presentación del informe contable previsto en las decisiones Ex.I/4 (párr. 9 f)) y XVI/6⁴.

⁴ En las decisiones Ex.I/4 (párr. 9 f)) y XVI/6 se establece que las propuestas de exenciones para usos críticos de bromuro de metilo deben acompañarse de informes contables.

Cuadro 8

Exenciones para usos críticos concedidas a las Partes y notificación de uso de emergencia de bromuro de metilo en 2025

<i>Parte</i>	<i>Cantidad exenta/notificada (en toneladas)</i>	<i>Decisión</i>	<i>Estado de la presentación de informes contables</i>
Canadá	2,85	XXXVI/8	Presentada

G. Notificación de las exportaciones y de sus países de destino (decisiones XVII/16 y XXX/12)

17. En el cuadro 9 se resume la información disponible sobre la cantidad de exportaciones⁵ notificadas por las Partes entre 2012 y 2024, el número de Partes que las han notificado y la especificación de los países de destino.

Cuadro 9

Presentación de información sobre las exportaciones y los países de destino

<i>Año</i>	<i>Cantidad de exportaciones notificadas</i>			<i>Número de Partes que notifican exportaciones</i>			<i>Número de Partes destinatarias comunicadas por las Partes exportadoras</i>
	<i>Total (toneladas)</i>	<i>Países de destino especificados (toneladas)</i>	<i>Países de destino especificados (porcentaje)</i>	<i>Número total de Partes</i>	<i>Países de destino especificados para algunas o todas las exportaciones</i>	<i>Países de destino no especificados</i>	
2024	642 927	636 513	99,0	52	44	8	161
2023	688 938	688 775	100,0 ^a	44	40	4	160
2022	730 050	729 359	99,9	41	37	4	158
2021	649 549	602 921	92,8	41	36	5	162
2020	562 754	539 027	95,8	37	32	5	158
2019	238 935	209 320	87,6	38	30	8	146
2018	197 686	168 350	85,2	32	28	4	136
2017	198 316	196 311	99,0	28	28	0	130
2016	211 308	209 747	99,3	32	31	1	138
2015	204 855	203 687	99,4	28	28	0	132
2014	240 759	236 808	98,4	30	29	1	129
2013	343 689	240 315	69,9	31	30	1	130
2012	385 371	278 457	72,3	35	31	4	140

^a Redondeado a partir del 99,98 %.

18. En mayo de 2026, la Secretaría envió la información agregada correspondiente a 2024 a las 161 Partes identificadas como países de destino por las Partes exportadoras, de conformidad con la decisión XVII/16⁶.

⁵ En su decisión XVII/16, la 17ª Reunión de las Partes solicitó a la Secretaría que revisase los formularios de presentación de informes para dar cabida a las exportaciones y reexportaciones de todas las sustancias controladas e instó a las Partes a utilizar sin dilación el formulario de presentación de informes revisado. En la información estadística, la Secretaría excluye las exportaciones notificadas por los distintos Estados miembros de la Unión Europea para no duplicar la contabilidad de las exportaciones comunicadas por la Unión Europea en nombre de sus Estados miembros.

⁶ En el párrafo 4 de la decisión XVII/16, la 17ª Reunión de las Partes solicitó a la Secretaría que comunicase a la Parte importadora de que se tratase la información agregada recibida de la Parte exportadora/reexportadora.

H. Notificación de las importaciones y de sus países de origen (decisiones XXIV/12 y XXX/12)

19. En el cuadro 10 se presenta la información disponible sobre la cantidad de importaciones notificadas por las Partes entre 2012 y 2024, el número de Partes que las han notificado y la especificación de los países de origen⁷.

20. En abril de 2026, la Secretaría envió la información recopilada correspondiente a 2024 sobre las importaciones a 25 Partes que habían notificado a la Secretaría que deseaban recibir la información, de conformidad con la decisión XXIV/12⁸. Esa cifra incluye una Parte que en 2014 había solicitado que se le hiciese llegar esa información cada vez que se recopilase. Las 25 Partes figuraban entre las 71 Partes que habían sido incluidas en la lista de países exportadores por las Partes importadoras durante el año 2024, y a las que la Secretaría había enviado cartas en las que les invitaba a solicitar, en caso de estar interesadas, la información recopilada que les resultase pertinente.

Cuadro 10

Presentación de información sobre las exportaciones y los países de origen

Año	Cantidad de importaciones notificadas			Número de Partes que notifican importaciones			Número de Partes de origen comunicadas por las Partes exportadoras
	Total (toneladas)	Países de origen especificados (toneladas)	Países de origen especificados (porcentaje)	Número total de Partes	Países de origen especificados para algunas o todas las importaciones	Países de origen no especificados	
2024	607 251	435 750	72,0	167	96	71	71
2023	627 903	513 750	81,8	168	89	79	69
2022	662 757	431 207	65,4	168	91	77	66
2021	537 246	328 902	61,9	170	90	80	63
2020	477 686	277 921	58,7	168	82	86	58
2019	429 575	307 427	71,6	165	81	84	58
2018	264 675	146 115	55,2	161	59	102	42
2017	191 089	116 970	61,2	161	55	106	37
2016	212 135	135 930	64,1	162	57	105	43
2015	213 206	113 901	53,4	160	51	109	39
2014	250 393	148 825	59,0	164	46	118	35
2013	418 609	115 242	28,0	168	42	126	29
2012	468 993	146 829	31,0	169	32	137	36

I. Registro consolidado de casos de exceso de los niveles calculados de producción y consumo atribuible al almacenamiento para 2024 y 2025 (decisiones XVIII/17 y XXII/20)

21. La Secretaría, de conformidad con las decisiones XVIII/17 y XXII/20, lleva un registro consolidado de los casos de exceso de los niveles calculados de producción y consumo atribuible al almacenamiento⁹, como consta en el anexo XI del presente informe.

⁷ En el párrafo 1 de la decisión XXIV/12, la 24ª Reunión de las Partes solicitó a la Secretaría que revisase el formulario de presentación de informes para incluir un anexo en el que las Partes pudiesen indicar, con carácter voluntario, las Partes exportadoras de las sustancias controladas notificadas como importaciones.

⁸ En el párrafo 2 de la decisión XXIV/12, la 24ª Reunión de las Partes solicitó a la Secretaría que reuniese cada enero la información agregada relativa a las sustancias controladas, por anexo y por grupo, recibida de la Parte importadora/reimportadora y que comunicase esa información única y exclusivamente a la Parte exportadora correspondiente cuando esta la solicitase.

⁹ En las decisiones XVIII/17 y XXII/20, la 18ª Reunión de las Partes y la 22ª Reunión de las Partes, respectivamente, solicitaron a la Secretaría que llevase un registro consolidado de los casos en que las Partes, al presentar sus datos con arreglo al artículo 7 del Protocolo, declarasen un exceso de producción o consumo debido a la producción, en el año objeto de informe, de sustancias controladas que se habían almacenado a fin de: a) destruirlas en el país o exportarlas con fines de destrucción en un año posterior; b) usarlas como materia prima en el país o exportarlas con ese fin en un año posterior; o c) exportarlas para satisfacer las necesidades básicas internas de países en desarrollo en un año posterior.

22. Con respecto a 2024, cuatro Partes (España, Francia, Israel y la Unión Europea) han notificado cinco casos. Las cuatro Partes confirmaron que disponían de las normas y medidas necesarias para impedir que las sustancias almacenadas se destinasen a usos no autorizados.
23. Hasta la fecha del presente informe, se había notificado un caso para 2025 de exceso de producción calculada atribuible al almacenamiento.

J. Presentación de información sobre los usos como agentes de procesos en 2024 y 2025 (decisiones X/14, XXI/3, XXXI/6 y XXXII/5)

24. En la decisión XXI/3 se solicitó a la Secretaría que señalase a la atención del Comité de Aplicación, para que los examinase, los casos de incumplimiento de la obligación de notificar el uso de sustancias controladas como agentes de procesos.
25. Tan solo cuatro Partes (China, los Estados Unidos de América, Israel y la Unión Europea) siguen presentando informes sobre el uso de sustancias controladas como agentes de procesos. En el cuadro B del anexo de la decisión XXXI/6 puede consultarse la información disponible sobre los límites más recientes al uso de agentes de procesos¹⁰.
26. En relación con el año 2024, las cuatro Partes mencionadas han presentado la información necesaria, que el Comité examinó en sus reuniones 74ª y 76ª.
27. Con respecto a 2025, hasta la fecha, solo dos de las Partes mencionadas han presentado sus informes sobre los usos como agentes de procesos. El cuadro 11 presenta el examen resumido de la Secretaría de la información presentada.

Cuadro 11

Examen de la información comunicada sobre los usos como agentes de procesos en 2025

<i>Parte</i>	<i>Se han notificado las emisiones y están dentro del límite</i>	<i>Tecnologías de confinamiento notificadas</i>	<i>Producción o importaciones para usos como agente de procesos notificadas</i>
Estados Unidos de América	Sí: dentro del límite	Sí	No
Unión Europea	Sí: dentro del límite	Sí	Sí

K. Producción notificada de sustancias controladas eliminadas

28. En el anexo XII del presente informe se muestra la información notificada sobre la producción de sustancias controladas eliminadas¹¹.
29. En el cuadro 12 se resume la información correspondiente a 2024 presentada por las Partes que siguen produciendo sustancias cuyas fechas de eliminación ya han vencido. Se han excluido del resumen las sustancias cuya producción total suma menos de media tonelada, destinada por lo general a usos objeto de exenciones, como usos analíticos y de laboratorio.

¹⁰ Extracto del cuadro B, sobre los límites para los usos como agentes de procesos, del anexo de la decisión XXXI/6:

<i>Parte</i>	<i>Composición o consumo (toneladas por año)</i>	<i>Emisiones máximas (toneladas por año)</i>
China	1 103,0	313
Estados Unidos de América	2 300,0	181
Israel	3,5	0
Unión Europea	921,0	15

¹¹ Según las medidas de control, todas las Partes debían haber eliminado antes de 2010 la producción y el consumo de CFC (grupo I del anexo A y grupo I del anexo B), halones (grupo II del anexo A) y tetracloruro de carbono (grupo II del anexo B), salvo para los usos objeto de exenciones otorgadas por las reuniones de las Partes. Asimismo, todas las Partes deberían haber eliminado antes de 2015 la producción y el consumo de metilcloroformo (grupo III del anexo B) y bromuro de metilo (grupo I del anexo E), salvo para los usos objeto de exenciones otorgadas por las reuniones de las Partes. Además, las sustancias incluidas en los grupos II (hidrobromofluorocarbonos) y III (bromoclorometano) del anexo C se eliminaron inmediatamente después de su inclusión en el Protocolo en 1996 y 2002, respectivamente.

Cuadro 12
Producción de sustancias controladas eliminadas en 2024
(toneladas)

	Anexo/grupo ^a							Total
	A/I	A/II	B/II	B/III	C/II	C/III	E/I	
Número de Partes notificantes	6	4	14	3	3	3	6	15
Producción comunicada total para todos los usos	179 037	1 843	352 946	46 781	3	3 254	12 106	595 970
Producción para usos propios como materia prima	178 988	1 543	319 093	46 667	1	2 131	2 978	551 401
Producción para usos esenciales o críticos propios	–	–	96	–	–	–	–	96
Cantidades exportadas para usos como materia prima	3	300	23 843		1	1 086	61	25 294
Cantidades destruidas por los productores	395	14	10 841	480	–	15	7	11 751
Producción para ACPE ^b	–	–	–	–	–	–	8 935	8 935

Abreviación: ACPE = aplicaciones de cuarentena y previas al envío.

^a Las sustancias de A/I son los CFC; las sustancias del A/II son halones; la sustancia de B/II es el tetracloruro de carbono; la sustancia de B/III es el 1,1,1-tricloroetano (metilcloroformo); las sustancias de C/ II son hidrobromofluorocarbonos; la sustancia de C/III es el bromoclorometano; y la sustancia de E/I es el bromuro de metilo.

^b La producción para aplicaciones de cuarentena y previas al envío comprende las cantidades para uso dentro del país y las cantidades fabricadas para la exportación.

30. En 2024 se notificó una producción de sustancias eliminadas de casi 596.000 toneladas, el 30 % de las cuales consistía en CFC, tetracloruro de carbono y metilcloroformo, a razón de un 59 %, un 8 % y un 97 %, respectivamente. El 93 % de la producción total se destinó a usos como materia prima, mientras que toda la producción de bromuro de metilo se destinó a aplicaciones de cuarentena y previas al envío.

L. Uso notificado de sustancias controladas como materia prima

31. En la presente sección se resume la información sobre las cantidades de sustancias controladas que se usan como materia prima¹². En el anexo XIII del presente informe se recoge la información presentada sobre las cantidades de sustancias controladas usadas como materia prima¹³ y en el anexo XIV se indica el número de Partes que notificaron ese uso.

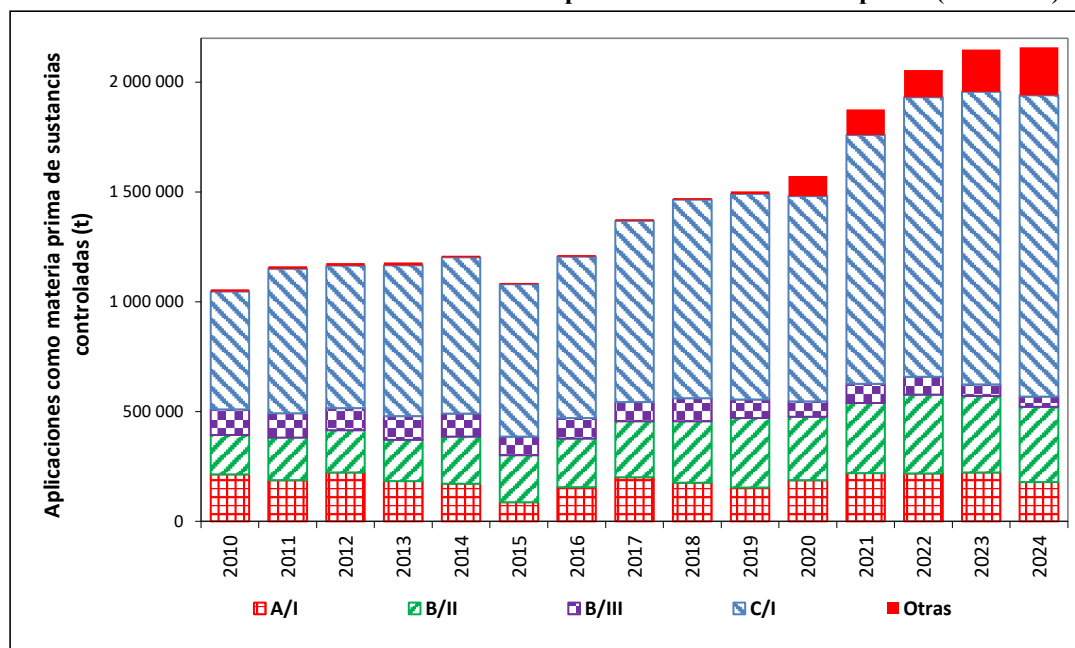
32. En la figura 2 se recogen las cantidades de sustancias controladas que se usan como materia prima, desglosadas por anexo y grupo en forma de gráfico de barras, y en la figura 3 se muestra el número de Partes que han comunicado el uso de sustancias controladas como materia prima.

¹² En el artículo 1 del Protocolo de Montreal se especifica que las cantidades de sustancias controladas enteramente utilizadas como materia prima en la fabricación de otras sustancias químicas deben restarse del cálculo de la producción y el consumo, con lo cual no están sujetas a las medidas de control.

¹³ La cantidad de sustancias controladas utilizadas como materia prima en un país se calcula sumando la cantidad producida y la cantidad importada a tal efecto por el país.

Figura 2

Cantidades de sustancias controladas usadas en aplicaciones como materia prima (toneladas)

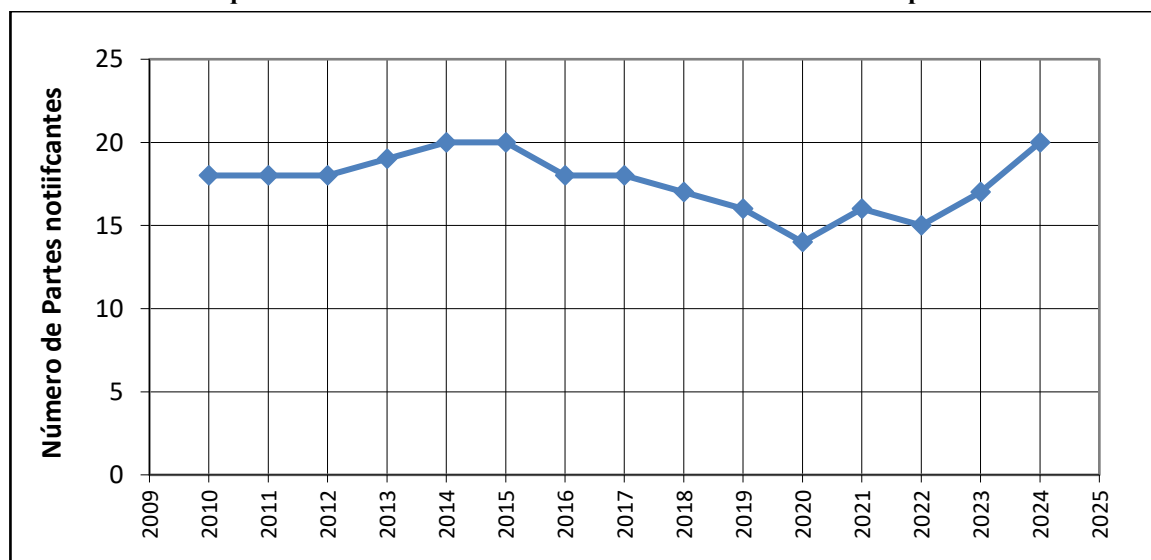


Nota: la categoría “Otras” incluye las sustancias incluidas en el grupo II del anexo A; el grupo I del anexo B; el grupo II del anexo C; el grupo III del anexo C; el grupo I del anexo E; y el anexo F.

Abreviaciones: A/I = grupo I del anexo A; B/II = grupo II del anexo B; B/III = grupo III del anexo B; C/I = grupo I del anexo C; t = toneladas.

Figura 3

Número de Partes que notifican el uso de sustancias controladas como materia prima



M. Uso notificado del bromuro de metilo para aplicaciones de cuarentena y previas al envío

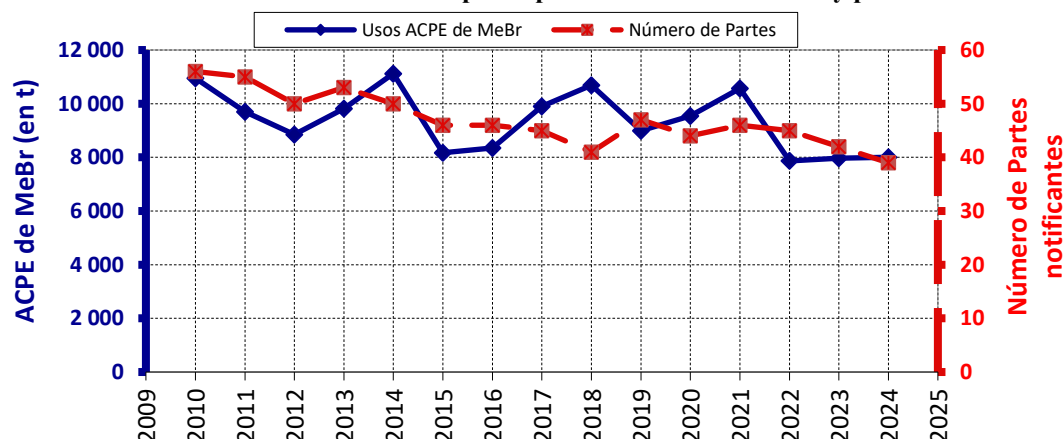
33. A fin de facilitar el examen de la cuestión del uso del bromuro de metilo para aplicaciones de cuarentena y previas al envío¹⁴, en el cuadro del anexo XV del presente informe se recogen los datos distintos de cero comunicados por las Partes con arreglo al artículo 7 en relación con ese uso en toneladas.

¹⁴ En el párrafo 6 del artículo 2H del Protocolo se especifica que los niveles calculados de producción y consumo con arreglo a ese artículo no incluirán las cantidades utilizadas por la Parte para aplicaciones de cuarentena y previas al envío, lo que significa que quedan excluidas de las medidas de control.

34. La figura 4 muestra la tendencia general de las aplicaciones de cuarentena y previas al envío del bromuro de metilo en todo el mundo desde 2010 a 2024.

Figura 4

Cantidades de bromuro de metilo usadas para aplicaciones de cuarentena y previas al envío



Abreviaciones: ACPE = aplicaciones de cuarentena y previas al envío; MeBr = bromuro de metilo; t = toneladas.

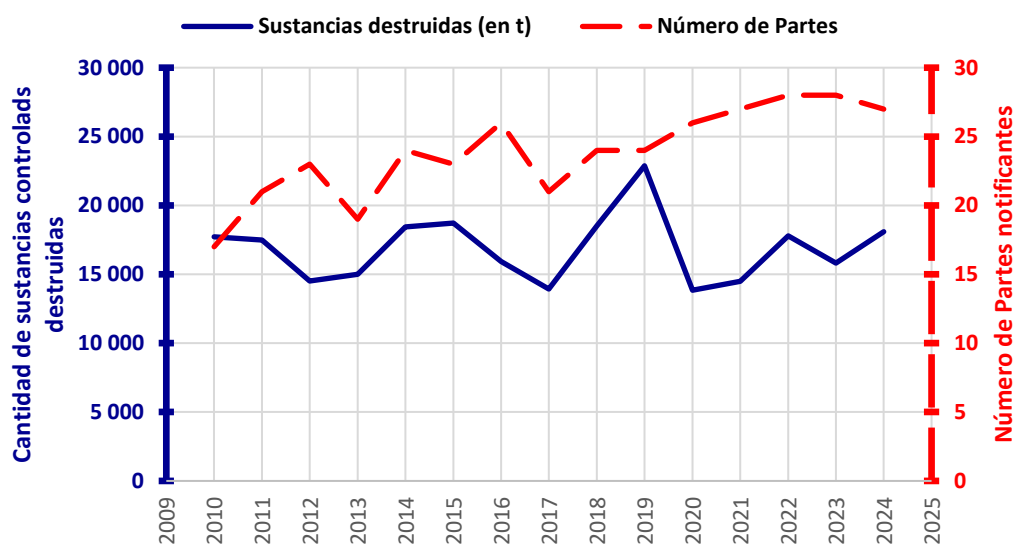
N. Destrucción notificada de sustancias controladas

35. A fin de facilitar el examen de la cuestión de las sustancias controladas destruidas¹⁵, en el cuadro del anexo XVI se recogen los datos distintos de cero comunicados por las Partes con arreglo al artículo 7 en relación con esa destrucción. Los datos anuales de cada Parte correspondientes a todas las sustancias declaradas en un mismo año se presentan agregados y expresados en toneladas.

36. En la figura 5 se muestran las cantidades totales de sustancias controladas destruidas en todo el mundo de 2010 a 2024.

Figura 5

Cantidades de sustancias controladas destruidas



Abreviación: t = toneladas.

¹⁵ En el artículo 1 del Protocolo de Montreal, que se aprobó el 16 de septiembre de 1987 y entró en vigor el 1 de enero de 1989, se especifica que las sustancias controladas que hayan sido destruidas deben restarse del cálculo de la producción y el consumo. No obstante, la obligación de notificar las cantidades destruidas mediante tecnologías aprobadas por las Partes se introdujo oficialmente en el artículo 7 por medio de la Enmienda de Londres al Protocolo, que se aprobó el 29 de junio de 1990 y entró en vigor el 10 de agosto de 1992.

O. Respuestas de las Partes a las decisiones XXIV/14, XXIX/18 y XXX/14 (notificación de la cifra de cero en los formularios de comunicación de datos con arreglo al artículo 7)

37. En la presente sección se resume la información relativa a la respuesta de las Partes a las decisiones XXIV/14, XXIX/18 y XXX/14¹⁶. En el cuadro 13 se muestra el número de Partes que presentaron datos con arreglo al artículo 7, los medios mediante los que presentaron esos datos y el número y porcentaje de Partes que presentaron formularios con casillas en blanco y que respondieron a las subsiguientes solicitudes de aclaración formuladas por la Secretaría.

38. Cabe hacer notar que, como se indica en el cuadro 13, algunas Partes utilizan el sistema de presentación de datos en línea y otras se valen de los formularios aprobados para la presentación de datos en virtud del artículo 7, mientras que otras no utilizan los formularios de presentación de datos en virtud del artículo 7 acordados en decisiones de las reuniones de las Partes a la hora de presentar sus datos. Algunas Partes cuyo consumo y producción es cero o que apenas realizan importaciones a veces notifican sus datos a la Secretaría por carta en lugar de utilizar los formularios de presentación de datos de conformidad con el artículo 7, y algunas Partes que operan al amparo del artículo 5 presentan los datos solicitados con arreglo al artículo 7 mediante los formularios del programa para el país de la Secretaría del Fondo Multilateral para la Aplicación del Protocolo de Montreal. Cuando una Parte se vale de esos formularios, la Secretaría, tras extraer la información sobre las importaciones, las exportaciones y la producción, registra esa información como los datos presentados oficialmente con arreglo al artículo 7 y solicita a la Parte en cuestión que vuelva a presentar sus datos mediante el sistema de presentación de datos en línea o bien mediante los formularios de presentación de datos con arreglo al artículo 7 aprobados, cuya actualización más reciente se hizo en virtud de la decisión XXXVI/12.

Cuadro 13

Respuestas de las Partes a las decisiones XXIV/14, XXIX/18 y XXX/14 relativas a la notificación de la cifra de cero en los formularios de comunicación de datos con arreglo al artículo 7

<i>Descripción de la actividad</i>	<i>2020</i>	<i>2021</i>	<i>2022</i>	<i>2023</i>	<i>2024</i>
Presentación de datos anuales (número de Partes)	198	198	198	198	197
Presentación de datos utilizando medios distintos del sistema de presentación de datos en línea o de los formularios de presentación de datos con arreglo al artículo 7 (entre otros, correo electrónico, cuestionario, carta, anexo al formulario de datos 1, formulario del programa para el país) (número de Partes)	41	30	17	15	8
Presentación de datos con arreglo al artículo 7 mediante el sistema de presentación de datos en línea al menos una vez (número de Partes)	105	112	117	115	128
Presentación de datos por medio de los formularios de presentación de datos con arreglo al artículo 7, pero sin usar nunca el sistema de presentación de datos en línea (número de Partes)	52	56	64	68	61
Presentación de los formularios de presentación de datos con arreglo al artículo 7 con casillas en blanco (número de Partes)	15	16	9	15	8
Presentación de los formularios de presentación de datos con arreglo al artículo 7 con casillas en blanco (porcentaje)	8	8	5	8	4
Aclaraciones facilitadas o formularios incompletos sustituidos por formularios diferentes (número de Partes)	15	16	9	15	8
Suministro de aclaraciones o formularios incompletos sustituidos por formularios diferentes (porcentaje)	100	100	100	100	100

¹⁶ En la decisión XXIV/14, la 24ª Reunión de las Partes solicitó a las Partes que, al notificar la producción, las importaciones, las exportaciones o la destrucción, anotasen un número en todas las casillas de los formularios de comunicación de datos, incluido un cero cuando correspondiese, en lugar de dejar casillas en blanco. También se pidió a la Secretaría que solicitase aclaración a las Partes que presentasen un formulario de información con casillas en blanco. Las Reuniones de las Partes reiteraron la solicitud a las Partes en las decisiones XXIX/18 y XXX/14.

P. Modificación de los datos de referencia de los hidrofluorocarbonos (decisiones XIII/15 y XV/19)

39. En su 76ª reunión, el Comité de Aplicación estudió cuatro solicitudes de modificación de los datos de referencia de los HFC. La información relativa a esas solicitudes se resume en los cuadros 14 y 15.

Cuadro 14

Solicitud de modificación de los datos de referencia de los hidrofluorocarbonos recomendadas para su aprobación por el Comité de Aplicación en su 76ª reunión

Parte/año	Datos anteriores sobre los HFC (Toneladas de CO ₂ equivalente)			Nuevos datos propuestos sobre los HFC (Toneladas de CO ₂ equivalente)		
	2020	2021	2022	2020	2021	2022
Belice	73 601	1 137 903	121 648	74 940	112 035	128 839

Cuadro 15

Solicitudes de modificación de los datos de referencia de los hidrofluorocarbonos presentados al Comité de Aplicación en su 76ª reunión que todavía se están examinando

Parte/año	Datos anteriores sobre los HFC (Toneladas de CO ₂ equivalente)			Nuevos datos propuestos sobre los HFC (Toneladas de CO ₂ equivalente)		
	2020	2021	2022	2020	2021	2022
Armenia	195 790	317 041	465 778	526 204	568 809	682 249
Malí	81 130	50 780	106 988	1 414 693	1 079 923	1 026 175
Somalia	—	—	348 650	—	—	949 474

40. A petición de Sudáfrica, el Comité de Aplicación acordó aplazar el examen de la solicitud de esa Parte relativa a la revisión de sus datos de referencia sobre los HFC, trasladándolo de su 76.ª reunión a su 77.ª reunión, con el fin de conceder a la Parte tiempo adicional para revisar y confirmar sus datos y la documentación de apoyo.

41. La información adicional relativa a estas solicitudes, así como cualquier nueva solicitud de revisión de los datos de referencia sobre los HFC que reciba la Secretaría, se presentará al Comité de Ejecución para su examen.

III. Anexos

42. En el cuadro 16 se enumeran los anexos del presente informe y se reseña su contenido. Los anexos IV a XVI no han sido objeto de revisión editorial oficial en inglés y solo están disponibles en ese idioma.

Cuadro 16

Anexos del presente informe

Anexo	Descripción
I	Niveles calculados de producción y consumo
II	Principales obligaciones contraídas en virtud del Protocolo de Montreal y sus enmiendas
III	Medidas de control correspondientes a 2024 y 2025 para todas las Partes
IV	Cálculo de la producción y el consumo de sustancias controladas: comparación de los datos de 2025 con el nivel de base: a) resumen para todas las Partes; b) Partes que no operan al amparo del artículo 5; y c) Partes que operan al amparo del artículo 5
V	Cálculo de la producción y el consumo de sustancias controladas: comparación de los datos de 2024 con el nivel de base: a) resumen para todas las Partes; b) Partes que no operan al amparo del artículo 5; y c) Partes que operan al amparo del artículo 5
VI	Resumen de los niveles calculados de producción y consumo de sustancias controladas por regiones: a) comparación de los datos de 2025 con el nivel de referencia; y b) comparación de 2024 con el nivel de base

<i>Anexo</i>	<i>Descripción</i>
VII	Producción, importación y exportación calculadas de sustancias controladas: resumen para todas las Partes: a) comparación de 2025 con el nivel de base; y b) comparación de 2024 con el nivel de base
VIII	Importaciones y exportaciones notificadas de sustancias controladas nuevas y recuperadas: resumen de la información de todas las Partes correspondiente a a) 2025 y b) 2024
IX	Importaciones y exportaciones notificadas de sustancias controladas recuperadas correspondientes a a) 2025 y b) 2024
X	Resumen de las tendencias en los usos analíticos y de laboratorio de sustancias controladas
XI	Registro consolidado de casos de exceso de los niveles calculados de producción o consumo atribuible al almacenamiento (decisiones XVIII/17 y XXII/20)
XII	Resumen de la producción notificada de sustancias controladas eliminadas
XIII	Resumen de las notificaciones de usos de sustancias controladas como materia prima
XIV	Número de Partes que comunicaron el uso de sustancias controladas como materia prima
XV	Consumo notificado de bromuro de metilo para aplicaciones de cuarentena y previas al envío
XVI	Destrucción notificada de sustancias controladas

Annex I

Deriving calculated production and consumption

A. Basic formulas

1. The present section provides information on how the Ozone Secretariat calculates parties' production and consumption of substances controlled under the Montreal Protocol using the information on production, imports, exports and destruction reported by parties under Article 7 of the Protocol.
2. According to the definitions in paragraphs 5 and 6 of Article 1 of the Protocol, the formulas, in their most basic form, for calculating production and consumption, respectively, are as follows:
 - a) $\text{Production} = \text{Amount produced} - \text{amount destroyed} - \text{amount used as feedstock};$
 - b) $\text{Consumption} = \text{Production} + \text{imports} - \text{exports}.$

B. Aggregation of figures weighted by ozone-depleting potential or by global-warming potential

3. The control measures apply to groups of substances rather than to individual substances. According to Article 3 and paragraph 7 of Article 1, consumption and production for each group of substances are calculated by multiplying each component in the formulas (i.e. the amount produced, imports, exports, the amount destroyed and the amount used as feedstock) by the ozone-depleting potential, or the global-warming potential in the case of Annex F substances (hydrofluorocarbons (HFCs)), for each substance in the group and then aggregating the results to obtain a total for the group.

C. Feedstock uses

4. When the parties adopted the data reporting formats in decision IX/28, the reporting of data on feedstock uses was required in three areas: the amounts produced for feedstock uses within the producing country; the amounts imported for feedstock uses within the importing country; and the amounts exported for feedstock uses within the receiving country. Paragraph 1 of decision VII/30 had clarified that controlled substances produced and then exported for feedstock uses should not be included in the calculation of production or consumption by the exporting countries, while paragraph 2 of that decision had clarified that controlled substances used as feedstock should not be included in the calculation of consumption by importing countries.
5. Adjustment of the formulas for the calculation of production and consumption as set out in section A of the present annex to reflect decision VII/30 thus gives the following:
 - (a) $\text{Production} = \text{Total amount produced} - \text{amount destroyed} - \text{amount produced for internal feedstock uses}^{17} - \text{exports for feedstock uses};^{18}$
 - (b) $\text{Consumption} = \text{Production} + (\text{imports} - \text{imports for feedstock uses}) - (\text{exports} - \text{exports for feedstock uses}^2).$

D. Process agents

6. Decision X/14 provides for process-agent uses to be treated in a manner similar to feedstock uses. Thus, process-agent uses should not be taken into account in the calculation of production and consumption. The decision outlines conditions under which the exclusion is applicable, including the uses to which it applies, the parties allowed to make use of it and the maximum emissions and make-up limits for each of those parties.
7. Where the term "feedstock uses" appears in the formulas above, the term "process-agent uses" may be used in a similar way, but only for qualifying parties that satisfy the provisions of

¹⁷ The component "amount produced for internal feedstock uses" is the amount produced for feedstock uses within the producing party.

¹⁸ In the application of paragraph 1 of decision VII/30, exports for feedstock uses are deducted only for parties that report, within the same year, the production and export of a given annex group of substances controlled under the Montreal Protocol.

decision X/14. For example, when a party reports production for process-agent uses, that production is excluded from the calculation of production only if the party is permitted to engage in process-agent uses by a decision of a Meeting of the Parties.

E. Trade with non-parties

8. Paragraph 1 (c) of Article 3 of the Protocol provides that controlled substances exported to non-parties should not be subtracted when calculating the consumption level of the exporting party. For HFCs, however, this provision will apply from 1 January 2033 only, in accordance with paragraph 2 of Article IV of the Kigali Amendment.

F. Quarantine and pre-shipment applications

9. Paragraph 6 of Article 2H excludes methyl bromide used for quarantine and pre-shipment applications from the calculations of consumption and production. In the data reporting forms, parties report the amounts of methyl bromide produced for quarantine and pre-shipment applications (i.e. a single, total production figure for uses within the country and for export) and, separately, the amounts exported for such uses and imported for such uses. It should be noted that the quarantine and pre-shipment exclusion applies only to methyl bromide and is not available for any other controlled substance.

G. Hydrofluorocarbon-23 captured for destruction

10. Paragraph 7.4 of the instructions and guidelines on data reporting, adopted as part of the data reporting forms in decision XXX/10, and updated in decision XXXVI/12, states that the amounts of HFC-23 captured for destruction or for feedstock use will not be counted as production as defined in Article 1. Parties report the amounts of HFC-23 captured for destruction in data form 6.

H. Adjusted formulas

11. Further adjustment of the formulas for calculating production and consumption to take into account the provisions relating to process agents, exports to non-parties and quarantine and pre-shipment uses gives the following:

a) $\text{Production} = \text{Total amount produced} - \text{amount destroyed} - \text{amount produced for internal feedstock uses}^1 - \text{exports for feedstock uses}^2 - \text{production of methyl bromide for quarantine and pre-shipment applications}^{19} - \text{HFC-23 captured for destruction};$

b) $\text{Consumption} = \text{Production} + (\text{imports} - \text{imports for feedstock uses} - \text{imports of methyl bromide for quarantine and pre-shipment applications}) - (\text{exports} - \text{exports for feedstock uses}^2 - \text{exports of methyl bromide for quarantine and pre-shipment applications}^{20} - \text{exports to non-parties}).$

I. Rounding of calculated figures

12. The figures of calculated production and consumption of ozone-depleting substances are rounded to one decimal point in accordance with the guidance provided by the Eighteenth Meeting of the Parties (UNEP/OzL.Pro.18/10, paras. 145–147). Two decimal places have been used, however, in presenting and analysing HCFC data reported after 25 November 2011, as directed by the parties in decision XXIII/30. For HFCs, the calculated figures are rounded to the nearest whole number.

J. Negative values

13. Negative values for calculated production for a given year imply that the quantities destroyed or the quantities exported for feedstock uses exceeded production for that year. Similarly, negative values for calculated consumption indicate that the quantities destroyed or the quantities exported during that year exceeded production and imports for the same year. In both cases, the situation occurs when some or all of the amounts destroyed have come from recycled substances, or some or all of the quantities destroyed or exported have been taken from stockpiles.

¹⁹ Production of methyl bromide for quarantine and pre-shipment applications includes production for use within the producing party and production for export purposes.

²⁰ Exports of methyl bromide for quarantine and pre-shipment applications are deducted only if the exporting party has reported production of methyl bromide for that purpose within the same year.

Annex II

Key obligations associated with the Protocol and its amendments

<i>Instrument</i>	<i>Key obligations</i>
Montreal Protocol	Report Article 7 data for Annex A substances (CFCs and halons) Control production and consumption of Annex A substances (CFCs and halons)
London Amendment	Report Article 7 data for Annex B substances (other halogenated CFCs, carbon tetrachloride and methyl chloroform) and Annex C, group I, substances (HCFCs) Control production and consumption of Annex B substances (other halogenated CFCs, carbon tetrachloride and methyl chloroform) Ban imports and exports of Annex A and Annex B substances (CFCs, halons, carbon tetrachloride and methyl chloroform) to any State not party to the London Amendment
Copenhagen Amendment	Report Article 7 data for Annex C, group I and group II, substances (HCFCs and hydrobromofluorocarbons) and the Annex E, group I, substance (methyl bromide) Control consumption of Annex C, group I, substances (HCFCs) Control production and consumption of Annex C, group II, substances (hydrobromofluorocarbons) and the Annex E, group I, substance (methyl bromide) Ban imports and exports of Annex C, group II, substances (hydrobromofluorocarbons) to any State not party to the Copenhagen Amendment
Montreal Amendment	Establish, implement and report on a system for licensing the import and export of controlled substances Ban imports and exports of the Annex E, group I, substance (methyl bromide) to any State not party to the Montreal Amendment
Beijing Amendment	Control production of Annex C, group I, substances (HCFCs) Report Article 7 data for the Annex C, group III, substance (bromochloromethane) Control production and consumption of the Annex C, group III, substance (bromochloromethane) Ban imports and exports of Annex C, group I, substances (HCFCs) and the Annex C, group III substance (bromochloromethane) from and to any State not party to the Beijing Amendment (for Article 5 parties to the Protocol, the ban relating to the Annex C, group I substances went into effect on 1 January 2013, pursuant to decision XX/9)
Kigali Amendment	Report Article 7 data for Annex F substances (HFCs) Report emissions of the Annex F, group II, substance (HFC-23) Control production and consumption of Annex F substances (HFCs)

Annex III

Control measures for 2024 and 2025 for all parties

1. The control measures for 2024 and 2025 prescribed under the Montreal Protocol for non-Article 5 parties are summarized in table 1, while those for Article 5 parties are summarized in table 2. The specific control measures applicable to each party depend on ratifications by that party.
2. For all parties, excess production or consumption is allowed for exempted amounts approved for essential uses or critical uses, laboratory and analytical uses. Increased production for satisfying the basic domestic needs of Article 5 parties is allowed under conditions set out in the Protocol. In reviewing compliance, the Ozone Secretariat also takes into account the transfer of production rights between parties, under the terms set out in Article 2 of the Protocol.
3. Excess production and consumption attributable to stockpiling under the scenarios described in decisions XVIII/17 and XXII/20 are recorded for information purposes; parties reporting any such excess production or consumption and meeting the conditions described in decision XXII/20 are not subject to the non-compliance procedure, as directed by the Meetings of the Parties in the aforementioned decisions.
4. For parties that might previously have been in non-compliance and are the subject of decisions outlining those parties' commitments to plans of action with time-specific benchmarks for returning to compliance, the limits and the actions specified in those decisions are used as the primary determinant of the adherence by those parties to their obligations to reduce their production and consumption levels.

Table 1
Control measures for 2024 and 2025 prescribed for non-Article 5 parties*

<i>Annex/group</i>	<i>Control measures for 2024 and 2025 applicable to production and consumption^a</i>
A/I (CFCs), A/II (halons), B/I (other CFCs), B/II (carbon tetrachloride), C/II (hydrobromofluorocarbons), C/III (bromochloromethane) and E/I (methyl bromide)	Total phase-out except for the quantities allowed, approved or exempted by the Protocol or a Meeting of the Parties
C/I (HCFCs)	Total phase-out except for an annual allowance of 0.5 per cent of base-level consumption until 1 January 2030 for use in the four sectors specified in the Protocol
F (HFCs)	No greater than 70 per cent of the baseline ^b

* The specific control measures applicable to each party depend on ratifications by that party of relevant amendments.

^a Except for quantities allowed, approved or exempted by the Protocol or a Meeting of the Parties.

^b For Belarus, Kazakhstan, the Russian Federation, Tajikistan and Uzbekistan, no greater than 95 per cent of the baseline for 2024 and no greater than 65 per cent of the baseline for 2025, in accordance with paragraph 1 of decision XXVIII/2.

Table 2
Control measures for 2024 and 2025 prescribed for Article 5 parties*

<i>Annex/group(s)</i>	<i>Control measures for 2024 and 2025 applicable to production and consumption^a</i>
A/I (CFCs), A/II (halons), B/I (other CFCs), B/II (carbon tetrachloride), B/III (methyl chloroform), C/II (hydrobromofluorocarbons), C/III (bromochloromethane) and E/I (methyl bromide)	Total phase-out except for the quantities allowed, approved or exempted by the Protocol or a Meeting of the Parties
C/I (HCFCs)	2024: No greater than 65 per cent of the baseline 2025: No greater than 32.5 per cent of the baseline
F (HFCs)	No greater than the baseline ^b

* The specific control measures applicable to each party depend on ratifications by that party of relevant amendments.

^a Except for quantities allowed, approved or exempted by the Protocol or a Meeting of the Parties.

^b Not applicable to Article 5, group 2, parties: Bahrain, India, the Islamic Republic of Iran, Iraq, Kuwait, Oman, Pakistan, Qatar, Saudi Arabia and the United Arab Emirates [for which HFC control measures would begin in 2028].

**Annex IVa- Production and consumption of controlled substances - comparison of 2025 with baseline:
Summary for All Parties (ODP/CO2-eq tonnes).**

Key

- AI - Annex A, Group I (CFCs). Base for Article 5 parties is the average of 1995, 1996 and 1997. Base for non-Article 5 Parties is 1986.
 AII - Annex A, Group II (Halon). Base for Article 5 parties is the average of 1995, 1996 and 1997. Base for non-Article 5 Parties is 1986.
 BI - Annex B, Group I (Other Halogenated CFCs). Base for Article 5 parties = average of 1998, 1999 and 2000. Base for non-Article 5 Parties is 1989.
 BII - Annex B, Group II (Carbon Tetrachloride). Base for Article 5 parties is the average of 1998, 1999 and 2000. Base for non-Article 5 Parties is 1989.
 BIII - Annex B, Group III (Methyl Chloroform). Base for Article 5 parties is the average of 1998, 1999 and 2000. Base for non-Article 5 Parties is 1989.
 CI - Annex C, Group I (HCFCs). Base for Article 5 parties is the average of 2009 and 2010. Base consumption for non-Article 5 Parties is 1989 consumption of HCFCs plus 2.8% of 1989 consumption of CFCs. Base production for non-Article 5 Parties is Average of 1989 HCFC production + 2.8% of 1989 CFC production and 1989 HCFC consumption + 2.8% of 1989 CFC consumption.
 CII - Annex C, Group II (HBFCs). Phase-out requirement was from 1996.
 CIII - Annex C, Group III (Bromochloromethane). Phase-out requirement was from 2002.
 EI - Annex E, Group I (Methyl Bromide). Base for Article 5 parties is the average of 1995, 1996, 1997 and 1998. Base for non-Article 5 Parties is 1991.
 F - Annex F Hydrofluorocarbons (HFCs). Base for Article 5 Group 1 parties is the average HFC for 2020–2022 + 65% of HCFC baseline. Base for Article 5 parties- Group 2 is the average HFC for 2024-2026 + 65% of HCFC baseline. Base for non-Article 5 parties is the average HFC for 2011-2013 + 15% (25% for Belarus, Kazakhstan, the Russian Federation, Tajikistan and Uzbekistan) of HCFC baseline.

	PRODUCTION*			CONSUMPTION*			
	2025	Base	% Chng	2025	Base	% Chng	Per Cap. Cons.
All Parties - 137 (Population**: 4,106,059)							
AI - Chlorofluorocarbons (CFCs)	-227.0	729,718.9	-100	-276.2	676,860.9	-100	.0
AII - Halons	-22.0	127,412.0	-100	-22.1	112,959.3	-100	.0
BI - Other Fully Halogenated CFCs	0.0	2,741.0	-100	0.0	2,734.5	-100	.0
BII - Carbon Tetrachloride (CTC)	-4,870.5	276,353.4	-100	-8,478.6	244,917.3	-100	.0
BIII - Methyl Chloroform (TCA)	0.0	38,005.9	-100	0.0	34,663.5	-100	.0
CI - Hydrochlorofluorocarbons (HCFCs)	128.14	26,168.70	-99.51	2,097.27	29,846.35	-92.97	0.0005
CII - Hydrobromofluorocarbons (HBFCs)	0.0		-100	0.0		-100	.0
CIII - Bromochloromethane (BCM)	0.0		-100	-27.4		-100	.0
EI - Methyl Bromide (MB)	0.0	5,893.1	-100	7.6	23,096.7	-99.97	0.0000
Subtotal - Summation excludes Annex F	-4,991.36	1,206,293.00	-100	-6,699.43	1,125,078.55	-100	.0
F - Hydrofluorocarbons (HFCs)	19,929.814	189,405.976	-89.48	386,069.032	696,498.543	-44.57	94.0242
Article 5 Parties - 104 (Population**: 2,773,066)							
AI - Chlorofluorocarbons (CFCs)	0.0	24,512.1	-100	0.0	65,125.6	-100	.0
AII - Halons	0.0	0.0	-100	0.0	6,215.7	-100	.0
BI - Other Fully Halogenated CFCs	0.0	0.0	-100	0.0	9.2	-100	.0
BII - Carbon Tetrachloride (CTC)	0.0	11,629.6	-100	0.0	1,774.7	-100	.0
BIII - Methyl Chloroform (TCA)	0.0	32.4	-100	0.0	311.2	-100	.0
CI - Hydrochlorofluorocarbons (HCFCs)	131.25	921.60	-85.76	2,089.73	9,014.55	-76.82	0.0008
CII - Hydrobromofluorocarbons (HBFCs)	0.0		-100	0.0		-100	.0
CIII - Bromochloromethane (BCM)	0.0		-100	0.0		-100	.0
EI - Methyl Bromide (MB)	0.0	0.0	-100	19.2	6,943.2	-99.72	0.0000
Subtotal - Summation excludes Annex F	131.25	37,095.70	-99.65	2,108.93	89,394.15	-97.64	0.0008
F - Hydrofluorocarbons (HFCs)	-420.658	19,711.628	-100	281,532.917	360,334.546	-21.87	101.5241
Non-Article 5 Parties - 33 (Population**: 1,332,993)							
AI - Chlorofluorocarbons (CFCs)	-227.0	705,206.8	-100	-276.2	611,735.3	-100	.0
AII - Halons	-22.0	127,412.0	-100	-22.1	106,743.6	-100	.0
BI - Other Fully Halogenated CFCs	0.0	2,741.0	-100	0.0	2,725.3	-100	.0
BII - Carbon Tetrachloride (CTC)	-4,870.5	264,723.8	-100	-8,478.6	243,142.6	-100	.0
BIII - Methyl Chloroform (TCA)	0.0	37,973.5	-100	0.0	34,352.3	-100	.0
CI - Hydrochlorofluorocarbons (HCFCs)	-3.11	25,247.10	-100	7.54	20,831.80	-99.96	0.0000
CII - Hydrobromofluorocarbons (HBFCs)	0.0		-100	0.0		-100	.0
CIII - Bromochloromethane (BCM)	0.0		-100	-27.4		-100	.0
EI - Methyl Bromide (MB)	0.0	5,893.1	-100	-11.6	16,153.5	-100	.0
Subtotal - Summation excludes Annex F	-5,122.61	1,169,197.30	-100	-8,808.36	1,035,684.40	-100	.0
F - Hydrofluorocarbons (HFCs)	20,350.472	169,694.348	-88.01	104,536.115	336,163.997	-68.90	78.4221

**Annex IVb- Production and consumption of controlled substances - comparison of 2025 with baseline:
Non-Article 5 Parties (ODP/CO2-eq tonnes).**

Key

- AI - Annex A, Group I (CFCs). Base for Article 5 parties is the average of 1995, 1996 and 1997. Base for non-Article 5 Parties is 1986.
 AII - Annex A, Group II (Halons). Base for Article 5 parties is the average of 1995, 1996 and 1997. Base for non-Article 5 Parties is 1986.
 BI - Annex B, Group I (Other Halogenated CFCs). Base for Article 5 parties = average of 1998, 1999 and 2000. Base for non-Article 5 Parties is 1989.
 BII - Annex B, Group II (Carbon Tetrachloride). Base for Article 5 parties is the average of 1998, 1999 and 2000. Base for non-Article 5 Parties is 1989.
 BIII - Annex B, Group III (Methyl Chloroform). Base for Article 5 parties is the average of 1998, 1999 and 2000. Base for non-Article 5 Parties is 1989.
 CI - Annex C, Group I (HCFCs). Base for Article 5 parties is the average of 2009 and 2010. Base consumption for non-Article 5 Parties is 1989 consumption of HCFCs plus 2.8% of 1989 consumption of CFCs. Base production for non-Article 5 Parties is Average of 1989 HCFC production + 2.8% of 1989 CFC production and 1989 HCFC consumption + 2.8% of 1989 CFC consumption.
 CII - Annex C, Group II (HBFCs). Phase-out requirement was from 1996.
 CIII - Annex C, Group III (Bromochloromethane). Phase-out requirement was from 2002.
 EI - Annex E, Group I (Methyl Bromide). Base for Article 5 parties is the average of 1995, 1996, 1997 and 1998. Base for non-Article 5 Parties is 1991.
 F - Annex F Hydrofluorocarbons (HFCs). Base for Article 5 Group 1 parties is the average HFC for 2020–2022 + 65% of HCFC baseline. Base for Article 5 parties- Group 2 is the average HFC for 2024–2026 + 65% of HCFC baseline. Base for non-Article 5 parties is the average HFC for 2011–2013 + 15% (25% for Belarus, Kazakhstan, the Russian Federation, Tajikistan and Uzbekistan) of HCFC baseline.

	PRODUCTION*			CONSUMPTION*			
	2025	Base	% Chng	2025	Base	% Chng	Per Cap. Cons.
Andorra - (Population**: 82)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	3.50	-100	0.00	6.90	-100	0
Subtotal - Summation excludes Annex F	0.00	3.50	-100	0.00	6.90	-100	0
F - Hydrofluorocarbons (HFCs)	0	13.898	-100	14.190	69.107	-79.47	173.0488
Australia - (Population**: 26,845)							
AI - Chlorofluorocarbons (CFCs)	-1.5	15,385.4	-100	-1.5	14,290.4	-100	0
CI - Hydrochlorofluorocarbons (HCFCs)	-5.87	587.10	-100	-4.84	548.70	-100	0
Subtotal - Summation excludes Annex F	-7.37	15,972.50	-100	-6.34	14,839.10	-100	0
F - Hydrofluorocarbons (HFCs)	-787.802	1,205.875	-100	4,392.488	10,814,521	-59.38	163.6241
Belgium - (Population**: 11,750)							
BII - Carbon Tetrachloride (CTC)	-4,378.0	26,592.5	-100				
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100				
Subtotal - Summation excludes Annex F	-4,378.00	26,592.50	-100				
F - Hydrofluorocarbons (HFCs)	0	0	-100				
Bulgaria - (Population**: 6,737)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	40.90	-100				
Subtotal - Summation excludes Annex F	0.00	40.90	-100				
F - Hydrofluorocarbons (HFCs)	0	61.765	-100				
Canada - (Population**: 39,946)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	819.60	-100	0.00	892.30	-100	0
Subtotal - Summation excludes Annex F	0.00	819.60	-100	0.00	892.30	-100	0
F - Hydrofluorocarbons (HFCs)	0	2,174.370	-100	8,343.831	18,035,516	-53.74	208.8778
Cyprus - (Population**: 1,365)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	4.30	-100				
Subtotal - Summation excludes Annex F	0.00	4.30	-100				
F - Hydrofluorocarbons (HFCs)	0	6.688	-100				
Czechia - (Population**: 10,680)							
BII - Carbon Tetrachloride (CTC)	-16.4	5,285.5	-100				
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	107.60	-100				
Subtotal - Summation excludes Annex F	-16.40	5,393.10	-100				
F - Hydrofluorocarbons (HFCs)	-2,673	162.669	-100				
Denmark - (Population**: 5,991)							
CI - Hydrochlorofluorocarbons (HCFCs)	-0.69	68.90	-100				
Subtotal - Summation excludes Annex F	-0.69	68.90	-100				
F - Hydrofluorocarbons (HFCs)	0	118.820	-100				
Estonia - (Population**: 1,354)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	2.80	-100				
Subtotal - Summation excludes Annex F	0.00	2.80	-100				
F - Hydrofluorocarbons (HFCs)	0	5.009	-100				
European Union - (Population**: 506,227)							
AI - Chlorofluorocarbons (CFCs)				-199.0	309,307.6	-100	0
AII - Halons				-22.1	44,882.6	-100	0
BII - Carbon Tetrachloride (CTC)				-8,486.3	51,150.2	-100	0
CI - Hydrochlorofluorocarbons (HCFCs)				0.36	8,436.70	-100.00	0.0000
CIII - Bromochloromethane (BCM)				-27.4		-100	0
EI - Methyl Bromide (MB)				-11.6	10,318.0	-100	0
Subtotal - Summation excludes Annex F				-8,746.04	424,095.10	-100	0
F - Hydrofluorocarbons (HFCs)				33,098,768	163,576,330	-79.77	65.3833
Finland - (Population**: 5,623)							
AII - Halons	-21.8	0.0	-100				
CI - Hydrochlorofluorocarbons (HCFCs)	-0.26	36.50	-100				
Subtotal - Summation excludes Annex F	-22.06	36.50	-100				
F - Hydrofluorocarbons (HFCs)	0	78.600	-100				
France - (Population**: 66,601)							
BII - Carbon Tetrachloride (CTC)	-484.8	5,119.4	-100				
CI - Hydrochlorofluorocarbons (HCFCs)	-0.36	2,337.40	-100				
Subtotal - Summation excludes Annex F	-485.16	7,456.80	-100				
F - Hydrofluorocarbons (HFCs)	-40,023	32,975.001	-100				
Germany - (Population**: 84,409)							
AI - Chlorofluorocarbons (CFCs)	-130.9	123,652.8	-100				
AII - Halons	-0.2	18,134.0	-100				
BII - Carbon Tetrachloride (CTC)	-0.8	8,067.4	-100				
CI - Hydrochlorofluorocarbons (HCFCs)	-2.56	3,425.60	-100				
Subtotal - Summation excludes Annex F	-134.46	153,279.80	-100				
F - Hydrofluorocarbons (HFCs)	1,274,559	21,556,537	-94.09				

Greece - (Population**: 9,959)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	235.30	-100				
Subtotal - Summation excludes Annex F	0.00	235.30	-100				
F - Hydrofluorocarbons (HFCs)	0	477.681	-100				
Holy See - (Population**: 1)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.10	-100	0.00	0.20	-100	0
Subtotal - Summation excludes Annex F	0.00	0.10	-100	0.00	0.20	-100	0
F - Hydrofluorocarbons (HFCs)	0	407	-100	509	1,392	-63.43	509.0000
Hungary - (Population**: 9,663)							
AI - Chlorofluorocarbons (CFCs)	-4.1	0.0	-100				
CI - Hydrochlorofluorocarbons (HCFCs)	-0.04	67.90	-100				
Subtotal - Summation excludes Annex F	-4.14	67.90	-100				
F - Hydrofluorocarbons (HFCs)	0	72.881	-100				
Ireland - (Population**: 5,283)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100				
Subtotal - Summation excludes Annex F	0.00	0.00	-100				
F - Hydrofluorocarbons (HFCs)	0	0	-100				
Italy - (Population**: 59,251)							
AI - Chlorofluorocarbons (CFCs)	-6.3	56,656.4	-100				
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	1,704.10	-100				
Subtotal - Summation excludes Annex F	-6.30	58,360.50	-100				
F - Hydrofluorocarbons (HFCs)	0	3,182.160	-100				
Japan - (Population**: 123,435)							
BI - Carbon Tetrachloride (CTC)	7.9	19,602.0	-99.96	7.9	74,879.2	-99.99	0.0001
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	5,645.40	-100	0.00	5,554.90	-100	0
Subtotal - Summation excludes Annex F	7.90	25,247.40	-99.97	7.90	80,434.10	-99.99	0.0001
F - Hydrofluorocarbons (HFCs)	19,595.452	50,031.911	-60.83	22,749.522	71,521.258	-68.19	184.3037
Latvia - (Population**: 1,864)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	69.00	-100				
Subtotal - Summation excludes Annex F	0.00	69.00	-100				
F - Hydrofluorocarbons (HFCs)	0	107.215	-100				
Lithuania - (Population**: 2,851)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	77.80	-100				
Subtotal - Summation excludes Annex F	0.00	77.80	-100				
F - Hydrofluorocarbons (HFCs)	0	97.592	-100				
Luxembourg - (Population**: 677)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100				
Subtotal - Summation excludes Annex F	0.00	0.00	-100				
F - Hydrofluorocarbons (HFCs)	0	0	-100				
Monaco - (Population**: 38)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	1.20	-100	0.00	2.40	-100	0
Subtotal - Summation excludes Annex F	0.00	1.20	-100	0.00	2.40	-100	0
F - Hydrofluorocarbons (HFCs)	0		-100	2.088			54.9474
Netherlands (Kingdom of the) - (Population**: 18,292)							
BI - Carbon Tetrachloride (CTC)	1.6	0.0					
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	1,568.70	-100				
Subtotal - Summation excludes Annex F	1.60	1,568.70	-99.90				
F - Hydrofluorocarbons (HFCs)	914	3,342.468	-99.97				
New Zealand - (Population**: 5,234)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	28.00	-100	0.00	56.10	-100	0
Subtotal - Summation excludes Annex F	0.00	28.00	-100	0.00	56.10	-100	0
F - Hydrofluorocarbons (HFCs)	0	76.343	-100	534.913	1,795.965	-70.22	102.1997
Norway - (Population**: 5,604)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	38.00	-100	0.00	76.00	-100	0
Subtotal - Summation excludes Annex F	0.00	38.00	-100	0.00	76.00	-100	0
F - Hydrofluorocarbons (HFCs)	0	138.936	-100	181.850	989.402	-81.62	32.4500
Poland - (Population**: 38,367)							
AI - Chlorofluorocarbons (CFCs)	-8.5	0.0	-100				
CI - Hydrochlorofluorocarbons (HCFCs)	-0.78	97.30	-100				
Subtotal - Summation excludes Annex F	-9.28	97.30	-100				
F - Hydrofluorocarbons (HFCs)	-85.103	221.244	-100				
Portugal - (Population**: 10,420)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100				
Subtotal - Summation excludes Annex F	0.00	0.00	-100				
F - Hydrofluorocarbons (HFCs)	0	0	-100				
Russian Federation - (Population**: 144,435)							
BI - Carbon Tetrachloride (CTC)	0.0	103,290.0	-100	-0.1	103,290.0	-100	0
CI - Hydrochlorofluorocarbons (HCFCs)	13.10	4,066.10	-99.68	17.67	3,996.90	-99.56	0.0001
Subtotal - Summation excludes Annex F	13.10	107,356.10	-99.99	17.57	107,286.90	-99.98	0.0001
F - Hydrofluorocarbons (HFCs)	473.822	15,352.188	-96.91	30,925.863	48,729.257	-36.54	214.1161
Slovenia - (Population**: 2,118)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	34.00	-100				
Subtotal - Summation excludes Annex F	0.00	34.00	-100				
F - Hydrofluorocarbons (HFCs)	0	39.123	-100				
Spain - (Population**: 47,905)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	1,345.60	-100				
Subtotal - Summation excludes Annex F	0.00	1,345.60	-100				
F - Hydrofluorocarbons (HFCs)	0	21,286.874	-100				
Sweden - (Population**: 10,633)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	78.60	-100				
Subtotal - Summation excludes Annex F	0.00	78.60	-100				
F - Hydrofluorocarbons (HFCs)	-357	252.936	-100				
United Kingdom of Great Britain and Northern Ireland - (Population**: 69,353)							
AI - Chlorofluorocarbons (CFCs)	-75.7	102,014.4	-100	-75.7	46,218.4	-100	0
BI - Carbon Tetrachloride (CTC)	0.0	14,094.3	-100	-0.1	7,643.1	-100	0
CI - Hydrochlorofluorocarbons (HCFCs)	-5.65	2,755.80	-100	-5.65	1,260.70	-100	0
Subtotal - Summation excludes Annex F	-81.35	118,864.50	-100	-81.45	55,122.20	-100	0
F - Hydrofluorocarbons (HFCs)	-78.317	16,655.157	-100	4,292.093	20,631.249	-79.20	61.8876

**Annex IVc- Production and consumption of controlled substances - comparison of 2025 with baseline:
Article 5 Parties (ODP/CO2-eq tonnes).**

Key

- AI - Annex A, Group I (CFCs). Base for Article 5 parties is the average of 1995, 1996 and 1997. Base for non-Article 5 Parties is 1986.
 AII - Annex A, Group II (Halons). Base for Article 5 parties is the average of 1995, 1996 and 1997. Base for non-Article 5 Parties is 1986.
 BI - Annex B, Group I (Other Halogenated CFCs). Base for Article 5 parties = average of 1998, 1999 and 2000. Base for non-Article 5 Parties is 1989.
 BII - Annex B, Group II (Carbon Tetrachloride). Base for Article 5 parties is the average of 1998, 1999 and 2000. Base for non-Article 5 Parties is 1989.
 BIII - Annex B, Group III (Methyl Chloroform). Base for Article 5 parties is the average of 1998, 1999 and 2000. Base for non-Article 5 Parties is 1989.
 CI - Annex C, Group I (HCFCs). Base for Article 5 parties is the average of 2009 and 2010. Base consumption for non-Article 5 Parties is 1989 consumption of HCFCs plus 2.8% of 1989 consumption of CFCs. Base production for non-Article 5 Parties is Average of 1989 HCFC production + 2.8% of 1989 CFC production and 1989 HCFC consumption + 2.8% of 1989 CFC consumption.
 CII - Annex C, Group II (HBFCs). Phase-out requirement was from 1996.
 CIII - Annex C, Group III (Bromochloromethane). Phase-out requirement was from 2002.
 EI - Annex E, Group I (Methyl Bromide). Base for Article 5 parties is the average of 1995, 1996, 1997 and 1998. Base for non-Article 5 Parties is 1991.
 F - Annex F Hydrofluorocarbons (HFCs). Base for Article 5 Group 1 parties is the average HFC for 2020–2022 + 65% of HCFC baseline. Base for Article 5 parties- Group 2 is the average HFC for 2024–2026 + 65% of HCFC baseline. Base for non-Article 5 parties is the average HFC for 2011–2013 + 15% (25% for Belarus, Kazakhstan, the Russian Federation, Tajikistan and Uzbekistan) of HCFC baseline.

	PRODUCTION*			CONSUMPTION*			
	2025	Base	% Chng	2025	Base	% Chng	Per Cap. Cons.
Afghanistan - (Population**: 43,250)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	7.32	23.60	-68.98	0.0002
Subtotal - Summation excludes Annex F	0.00	0.00	-100	7.32	23.60	-68.98	0.0002
Albania - (Population**: 2,782)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	1.11	6.00	-81.50	0.0004
Subtotal - Summation excludes Annex F	0.00	0.00	-100	1.11	6.00	-81.50	0.0004
F - Hydrofluorocarbons (HFCs)	0	0	-100	871,744	883,849	-1.37	313.3515
Angola - (Population**: 38,459)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.53	16.00	-96.69	0.0000
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.53	16.00	-96.69	0.0000
F - Hydrofluorocarbons (HFCs)	0	0	-100	1,228,481	3,878,000	-68.32	31.9426
Antigua and Barbuda - (Population**: 94)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.00	0.30	-100	0
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.00	0.30	-100	0
Argentina - (Population**: 45,775)							
CI - Hydrochlorofluorocarbons (HCFCs)	29.80	224.60	-86.73	66.40	400.70	-83.43	0.0015
EI - Methyl Bromide (MB)	0.0	0.0	-100	19.2	411.3	-95.33	0.0004
Subtotal - Summation excludes Annex F	29.80	224.60	-86.73	85.60	812.00	-89.46	0.0019
F - Hydrofluorocarbons (HFCs)	-405,076	4,803,138	-100	5,718,004	19,219,484	-70.25	124.9154
Bahamas - (Population**: 402)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.84	4.80	-82.50	0.0021
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.84	4.80	-82.50	0.0021
F - Hydrofluorocarbons (HFCs)	0	0	-100	96,200	227,203	-57.66	239.3035
Bahrain - (Population**: 1,626)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	13.53	51.90	-73.93	0.0083
Subtotal - Summation excludes Annex F	0.00	0.00	-100	13.53	51.90	-73.93	0.0083
F - Hydrofluorocarbons (HFCs)	0	0	-100	2,018,852			1241.6064
Barbados - (Population**: 283)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.21	3.70	-94.32	0.0007
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.21	3.70	-94.32	0.0007
F - Hydrofluorocarbons (HFCs)	0	0	-100	183,413	295,419	-37.91	648.1025
Belize - (Population**: 420)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.46	2.80	-83.57	0.0011
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.46	2.80	-83.57	0.0011
F - Hydrofluorocarbons (HFCs)	0	0	-100	62,986	502,263	-87.46	149.9667
Benin - (Population**: 14,638)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	6.38	23.80	-73.19	0.0004
Subtotal - Summation excludes Annex F	0.00	0.00	-100	6.38	23.80	-73.19	0.0004
F - Hydrofluorocarbons (HFCs)	0	0	-100	1,499,852	1,875,057	-20.01	102.4629
Bhutan - (Population**: 794)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.01	0.30	-96.67	0.0000
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.01	0.30	-96.67	0.0000
F - Hydrofluorocarbons (HFCs)	0	0	-100	10,032	13,105	-23.45	12.6348
Bolivia (Plurinational State of) - (Population**: 12,498)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	1.04	6.10	-82.95	0.0001
Subtotal - Summation excludes Annex F	0.00	0.00	-100	1.04	6.10	-82.95	0.0001
F - Hydrofluorocarbons (HFCs)	0	0	-100	415,228	677,884	-38.75	33.2236
Botswana - (Population**: 2,542)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	2.07	11.00	-81.18	0.0008
Subtotal - Summation excludes Annex F	0.00	0.00	-100	2.07	11.00	-81.18	0.0008
F - Hydrofluorocarbons (HFCs)	0	0	-100	382,410	389,992	-1.94	150.4367
Brazil - (Population**: 212,423)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	394.81	1,327.30	-70.25	0.0019
Subtotal - Summation excludes Annex F	0.00	0.00	-100	394.81	1,327.30	-70.25	0.0019
F - Hydrofluorocarbons (HFCs)	0	0	-100	56,890,995	72,897,680	-21.96	267.8194
Brunei Darussalam - (Population**: 465)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	1.44	6.10	-76.39	0.0031
Subtotal - Summation excludes Annex F	0.00	0.00	-100	1.44	6.10	-76.39	0.0031
F - Hydrofluorocarbons (HFCs)	0	0	-100	331,969	454,855	-27.02	713.9118
Burkina Faso - (Population**: 23,812)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	2.20	28.90	-92.39	0.0001
Subtotal - Summation excludes Annex F	0.00	0.00	-100	2.20	28.90	-92.39	0.0001
F - Hydrofluorocarbons (HFCs)	0	0	-100	530,759	1,049,523	-49.43	22.2896

Burundi - (Population: 14,221)**

CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.45	7.20	-93.75	0.0000
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.45	7.20	-93.75	0.0000
F - Hydrofluorocarbons (HFCs)	0	0	-100	54.998	207.530	-73.50	3.8674

Cabo Verde - (Population: 526)**

CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.00	1.10	-100	0
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.00	1.10	-100	0
F - Hydrofluorocarbons (HFCs)	0	0	-100	32.031	38.791	-17.43	60.8954

Cambodia - (Population: 17,745)**

CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	4.76	15.00	-68.27	0.0003
Subtotal - Summation excludes Annex F	0.00	0.00	-100	4.76	15.00	-68.27	0.0003
F - Hydrofluorocarbons (HFCs)	0	0	-100	809.514	1,263.376	-35.92	45.6193

Cameroon - (Population: 29,500)**

CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	22.20	88.80	-75.00	0.0008
Subtotal - Summation excludes Annex F	0.00	0.00	-100	22.20	88.80	-75.00	0.0008
F - Hydrofluorocarbons (HFCs)	0	0	-100	3,728.749	4,760.203	-21.67	126.3983

Chad - (Population: 20,728)**

CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	5.16	16.10	-67.95	0.0002
Subtotal - Summation excludes Annex F	0.00	0.00	-100	5.16	16.10	-67.95	0.0002
F - Hydrofluorocarbons (HFCs)	0	0	-100	3,226.190	3,573.612	-9.72	155.6441

Colombia - (Population: 53,163)**

CI - Hydrochlorofluorocarbons (HCFCs)	-0.03	0.00	-100	9.67	225.60	-95.71	0.0002
Subtotal - Summation excludes Annex F	-0.03	0.00	-100	9.67	225.60	-95.71	0.0002
F - Hydrofluorocarbons (HFCs)	-14.738	0	-100	6,346.065	8,652.982	-26.66	119.3700

Comoros - (Population: 875)**

CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.02	0.10	-80.00	0.0000
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.02	0.10	-80.00	0.0000
F - Hydrofluorocarbons (HFCs)	0	0	-100	12.734	34.958	-63.57	14.5531

Congo - (Population: 6,408)**

CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	3.58	10.14	-64.69	0.0006
Subtotal - Summation excludes Annex F	0.00	0.00	-100	3.58	10.14	-64.69	0.0006
F - Hydrofluorocarbons (HFCs)	0	0	-100	217.008	504.649	-57.00	33.8652

Cook Islands - (Population: 13)**

CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.00	0.10	-100	0
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.00	0.10	-100	0
F - Hydrofluorocarbons (HFCs)	0	0	-100	5.485	6.461	-15.11	421.9231

Costa Rica - (Population: 5,142)**

CI - Hydrochlorofluorocarbons (HCFCs)	-0.02	0.00	-100	2.63	14.10	-81.35	0.0005
Subtotal - Summation excludes Annex F	-0.02	0.00	-100	2.63	14.10	-81.35	0.0005
F - Hydrofluorocarbons (HFCs)	-523	0	-100	1,349.032	1,450.799	-7.01	262.3555

Cuba - (Population: 10,959)**

CI - Hydrochlorofluorocarbons (HCFCs)	-0.01	0.00	-100	1.49	16.90	-91.18	0.0001
Subtotal - Summation excludes Annex F	-0.01	0.00	-100	1.49	16.90	-91.18	0.0001
F - Hydrofluorocarbons (HFCs)	0	0	-100	763.291	1,030.662	-25.94	69.6497

Democratic Republic of the Congo - (Population: 111,036)**

CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	1.18	66.21	-98.22	0.0000
Subtotal - Summation excludes Annex F	0.00	0.00	-100	1.18	66.21	-98.22	0.0000

Ecuador - (Population: 18,213)**

CI - Hydrochlorofluorocarbons (HCFCs)	-0.01	0.00	-100	6.81	23.49	-71.01	0.0004
Subtotal - Summation excludes Annex F	-0.01	0.00	-100	6.81	23.49	-71.01	0.0004
F - Hydrofluorocarbons (HFCs)	-321	0	-100	2,730.306	3,179.294	-14.12	149.9097

Egypt - (Population: 117,498)**

CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	113.41	386.30	-70.64	0.0010
Subtotal - Summation excludes Annex F	0.00	0.00	-100	113.41	386.30	-70.64	0.0010
F - Hydrofluorocarbons (HFCs)	0	0	-100	11,072.998	19,290.350	-42.60	94.2399

El Salvador - (Population: 6,352)**

CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.96	11.70	-91.79	0.0002
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.96	11.70	-91.79	0.0002
F - Hydrofluorocarbons (HFCs)	0	0	-100	664.865	922.362	-27.92	104.6702

Equatorial Guinea - (Population: 1,915)**

CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	4.63	6.31	-26.62	0.0024
Subtotal - Summation excludes Annex F	0.00	0.00	-100	4.63	6.31	-26.62	0.0024
F - Hydrofluorocarbons (HFCs)	0	0	-100	48.876			25.5227

Eritrea - (Population: 3,569)**

CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.35	1.09	-67.89	0.0001
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.35	1.09	-67.89	0.0001
F - Hydrofluorocarbons (HFCs)	0	0	-100	169.236	169.249	-0.01	47.4183

Eswatini - (Population: 1,249)**

CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.41	1.73	-76.30	0.0003
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.41	1.73	-76.30	0.0003
F - Hydrofluorocarbons (HFCs)	0	0	-100	74.942	105.500	-28.96	60.0016

Fiji - (Population: 931)**

CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	1.31	5.73	-77.14	0.0014
Subtotal - Summation excludes Annex F	0.00	0.00	-100	1.31	5.73	-77.14	0.0014
F - Hydrofluorocarbons (HFCs)	0	0	-100	243.546	443.528	-45.09	261.5961

Gabon - (Population: 2,566)**

CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	5.94	30.20	-80.33	0.0023
Subtotal - Summation excludes Annex F	0.00	0.00	-100	5.94	30.20	-80.33	0.0023
F - Hydrofluorocarbons (HFCs)	0	0	-100	860.591	2,182.210	-60.56	335.3823

Gambia - (Population: 2,791)**

CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.19	1.50	-87.33	0.0001
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.19	1.50	-87.33	0.0001
F - Hydrofluorocarbons (HFCs)	0	0	-100	193.479	271.515	-28.74	69.3225

Georgia - (Population: 3,808)**

CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.45	5.30	-91.51	0.0001
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.45	5.30	-91.51	0.0001
F - Hydrofluorocarbons (HFCs)	0	0	-100	477.552	813.152	-41.27	125.4076

Guatemala - (Population**: 18,548)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	1.38	8.30	-83.37	0.0001
Subtotal - Summation excludes Annex F	0.00	0.00	-100	1.38	8.30	-83.37	0.0001
F - Hydrofluorocarbons (HFCs)	0	0	-100	1,059,041	1,217,998	-13.05	57.0973
Guinea - (Population**: 14,928)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.30	0.90	-66.67	0.0000
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.30	0.90	-66.67	0.0000
F - Hydrofluorocarbons (HFCs)	0	0	-100	1,762,443	1,798,954	-2.03	118.0629
Guinea-Bissau - (Population**: 2,225)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.44	2.83	-84.45	0.0002
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.44	2.83	-84.45	0.0002
F - Hydrofluorocarbons (HFCs)	0	0	-100	522,940	722,391	-27.61	235.0292
Guyana - (Population**: 834)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.03	1.80	-98.33	0.0000
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.03	1.80	-98.33	0.0000
F - Hydrofluorocarbons (HFCs)	0	0	-100	111,632			133.8513
Haiti - (Population**: 11,840)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.42	3.63	-88.43	0.0000
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.42	3.63	-88.43	0.0000
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.42	3.63	-88.43	0.0000
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.42	3.63	-88.43	0.0000
F - Hydrofluorocarbons (HFCs)	0	0	-100	86,189			7.2795
F - Hydrofluorocarbons (HFCs)	0	0	-100	86,189			7.2795
Honduras - (Population**: 10,916)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	2.65	19.90	-86.68	0.0002
Subtotal - Summation excludes Annex F	0.00	0.00	-100	2.65	19.90	-86.68	0.0002
F - Hydrofluorocarbons (HFCs)	0	0	-100	1,278,987	1,449,723	-11.78	117.1663
Indonesia - (Population**: 284,622)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	109.83	403.90	-72.81	0.0004
Subtotal - Summation excludes Annex F	0.00	0.00	-100	109.83	403.90	-72.81	0.0004
F - Hydrofluorocarbons (HFCs)	0	0	-100	15,401,343	23,370,721	-34.10	54.1116
Iran (Islamic Republic of) - (Population**: 92,021)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	45.89	380.50	-87.94	0.0005
Subtotal - Summation excludes Annex F	0.00	0.00	-100	45.89	380.50	-87.94	0.0005
Iraq - (Population**: 46,526)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	33.61	108.40	-68.99	0.0007
Subtotal - Summation excludes Annex F	0.00	0.00	-100	33.61	108.40	-68.99	0.0007
Jamaica - (Population**: 2,839)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.65	16.30	-96.01	0.0002
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.65	16.30	-96.01	0.0002
Kenya - (Population**: 56,981)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	2.43	52.20	-95.34	0.0000
Subtotal - Summation excludes Annex F	0.00	0.00	-100	2.43	52.20	-95.34	0.0000
F - Hydrofluorocarbons (HFCs)	0	0	-100	1,352,478	1,543,824	-12.39	23.7356
Kiribati - (Population**: 136)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.00	0.10	-100	0
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.00	0.10	-100	0
F - Hydrofluorocarbons (HFCs)	0	0	-100	5,705	8,509	-32.95	41.9485
Kuwait - (Population**: 4,985)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	129.29	418.60	-69.11	0.0259
Subtotal - Summation excludes Annex F	0.00	0.00	-100	129.29	418.60	-69.11	0.0259
F - Hydrofluorocarbons (HFCs)	0	0	-100	3,789,288			760.1380
Lebanon - (Population**: 5,826)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	17.76	73.50	-75.84	0.0030
Subtotal - Summation excludes Annex F	0.00	0.00	-100	17.76	73.50	-75.84	0.0030
F - Hydrofluorocarbons (HFCs)	0	0	-100	1,558,689	2,556,533	-39.03	267.5402
Lesotho - (Population**: 2,350)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.35	3.50	-90.00	0.0001
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.35	3.50	-90.00	0.0001
F - Hydrofluorocarbons (HFCs)	0	0	-100	35,050	103,221	-66.04	14.9149
Liberia - (Population**: 5,672)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	1.38	5.30	-73.96	0.0002
Subtotal - Summation excludes Annex F	0.00	0.00	-100	1.38	5.30	-73.96	0.0002
F - Hydrofluorocarbons (HFCs)	0	0	-100	121,242	180,909	-32.98	21.3755
Libya - (Population**: 7,420)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	36.19	118.38	-69.43	0.0049
Subtotal - Summation excludes Annex F	0.00	0.00	-100	36.19	118.38	-69.43	0.0049
Malawi - (Population**: 21,934)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	1.30	10.80	-87.96	0.0001
Subtotal - Summation excludes Annex F	0.00	0.00	-100	1.30	10.80	-87.96	0.0001
F - Hydrofluorocarbons (HFCs)	0	0	-100	149,473	428,435	-65.11	6.8147
Maldives - (Population**: 529)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.00	4.60	-100	0
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.00	4.60	-100	0
F - Hydrofluorocarbons (HFCs)	0	0	-100	332,992	434,219	-23.31	629.4745
Mali - (Population**: 24,835)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	3.30	15.00	-78.00	0.0001
Subtotal - Summation excludes Annex F	0.00	0.00	-100	3.30	15.00	-78.00	0.0001
F - Hydrofluorocarbons (HFCs)	0	0	-100	1,571,571	399,935	292.96	63.2805
Mauritius - (Population**: 1,270)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.11	8.00	-98.63	0.0001
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.11	8.00	-98.63	0.0001
F - Hydrofluorocarbons (HFCs)	0	0	-100	619,258	665,957	-7.01	487.6047
Mexico - (Population**: 131,414)							
CI - Hydrochlorofluorocarbons (HCFCs)	101.52	697.00	-85.43	134.05	1,148.80	-88.33	0.0010
Subtotal - Summation excludes Annex F	101.52	697.00	-85.43	134.05	1,148.80	-88.33	0.0010
F - Hydrofluorocarbons (HFCs)	0	14,908,490	-100	40,497,334	76,982,664	-47.39	308.1661

Micronesia (Federated States of) - (Population**: 113)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.00	0.20	-100	0
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.00	0.20	-100	0
F - Hydrofluorocarbons (HFCs)	0	0	-100	6,292	13,600	-53.74	55.6814
Mongolia - (Population**: 3,497)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.30	1.40	-78.57	0.0001
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.30	1.40	-78.57	0.0001
F - Hydrofluorocarbons (HFCs)	0	0	-100	67,925	57,309	18.52	19.4238
Montenegro - (Population**: 638)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.00	0.80	-100	0
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.00	0.80	-100	0
F - Hydrofluorocarbons (HFCs)	0	0	-100	131,866	155,854	-15.39	206.6865
Morocco - (Population**: 38,261)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	16.32	51.35	-68.22	0.0004
Subtotal - Summation excludes Annex F	0.00	0.00	-100	16.32	51.35	-68.22	0.0004
F - Hydrofluorocarbons (HFCs)	0	0	-100	2,308,500	3,023,765	-23.65	60.3356
Naoero - (Population**: 12)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.00	0.00	-100	0
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.00	0.00	-100	0
F - Hydrofluorocarbons (HFCs)	0	0	-100	237	2,378	-90.03	19.7500
Niger - (Population**: 27,472)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	4.71	15.98	-70.53	0.0002
Subtotal - Summation excludes Annex F	0.00	0.00	-100	4.71	15.98	-70.53	0.0002
F - Hydrofluorocarbons (HFCs)	0	0	-100	554,715	1,222,358	-54.62	20.1920
Nigeria - (Population**: 235,088)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	92.06	344.88	-73.31	0.0004
Subtotal - Summation excludes Annex F	0.00	0.00	-100	92.06	344.88	-73.31	0.0004
F - Hydrofluorocarbons (HFCs)	0	0	-100	24,924,704	24,986,406	-0.25	106.0229
Niue - (Population**: 2)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.00	0.00	-100	0
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.00	0.00	-100	0
F - Hydrofluorocarbons (HFCs)	0	0	-100	3	236	-98.73	1.5000
Oman - (Population**: 5,398)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	5.90	31.50	-81.27	0.0011
Subtotal - Summation excludes Annex F	0.00	0.00	-100	5.90	31.50	-81.27	0.0011
F - Hydrofluorocarbons (HFCs)	0	0	-100	1,822,104			337.5517
Pakistan - (Population**: 253,203)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	76.40	248.11	-69.21	0.0003
Subtotal - Summation excludes Annex F	0.00	0.00	-100	76.40	248.11	-69.21	0.0003
F - Hydrofluorocarbons (HFCs)	0	0	-100	12,486,840			49.3155
Palau - (Population**: 18)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.01	0.20	-95.00	0.0006
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.01	0.20	-95.00	0.0006
F - Hydrofluorocarbons (HFCs)	0	0	-100	8,861	10,368	-14.54	492.2778
Panama - (Population**: 4,544)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	5.62	24.80	-77.34	0.0012
Subtotal - Summation excludes Annex F	0.00	0.00	-100	5.62	24.80	-77.34	0.0012
F - Hydrofluorocarbons (HFCs)	0	0	-100	1,865,356	2,543,386	-26.66	410.5097
Papua New Guinea - (Population**: 10,670)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.00	3.30	-100	0
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.00	3.30	-100	0
F - Hydrofluorocarbons (HFCs)	0	0	-100	327,611	430,238	-23.85	30.7039
Paraguay - (Population**: 6,972)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	4.90	18.00	-72.78	0.0007
Subtotal - Summation excludes Annex F	0.00	0.00	-100	4.90	18.00	-72.78	0.0007
F - Hydrofluorocarbons (HFCs)	0	0	-100	1,319,772	1,684,582	-21.66	189.2960
Peru - (Population**: 34,401)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	4.18	26.88	-84.45	0.0001
Subtotal - Summation excludes Annex F	0.00	0.00	-100	4.18	26.88	-84.45	0.0001
F - Hydrofluorocarbons (HFCs)	0	0	-100	2,315,018	2,735,721	-15.38	67.2951
Philippines - (Population**: 116,316)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	45.61	161.98	-71.84	0.0004
Subtotal - Summation excludes Annex F	0.00	0.00	-100	45.61	161.98	-71.84	0.0004
F - Hydrofluorocarbons (HFCs)	0	0	-100	8,243,347	11,903,687	-30.75	70.8703
Qatar - (Population**: 3,084)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	28.23	86.90	-67.51	0.0092
Subtotal - Summation excludes Annex F	0.00	0.00	-100	28.23	86.90	-67.51	0.0092
Saint Vincent and the Grenadines - (Population**: 100)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.00	0.30	-100	0
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.00	0.30	-100	0
F - Hydrofluorocarbons (HFCs)	0	0	-100	17,599	25,280	-30.38	175.9900
Samoa - (Population**: 219)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.00	0.30	-100	0
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.00	0.30	-100	0
F - Hydrofluorocarbons (HFCs)	0	0	-100	28,660	20,557	39.42	130.8676
Sao Tome and Principe - (Population**: 238)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.04	2.20	-98.18	0.0002
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.04	2.20	-98.18	0.0002
F - Hydrofluorocarbons (HFCs)	0	0	-100	34,040	71,039	-52.08	143.0252
Saudi Arabia - (Population**: 34,264)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	414.77	1,468.70	-71.76	0.0121
Subtotal - Summation excludes Annex F	0.00	0.00	-100	414.77	1,468.70	-71.76	0.0121
F - Hydrofluorocarbons (HFCs)	0	0	-100	30,146,394			879.8270
Senegal - (Population**: 18,716)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	6.60	36.20	-81.77	0.0004
Subtotal - Summation excludes Annex F	0.00	0.00	-100	6.60	36.20	-81.77	0.0004
F - Hydrofluorocarbons (HFCs)	0	0	-100	2,365,389	2,786,915	-15.13	126.3833

Serbia - (Population**: 6,714)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	2.59	8.40	-69.17	0.0004
Subtotal - Summation excludes Annex F	0.00	0.00	-100	2.59	8.40	-69.17	0.0004
F - Hydrofluorocarbons (HFCs)	0	0	-100	2,999,219	3,261,874	-8.05	446,7112
Seychelles - (Population**: 132)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.00	1.40	-100	0
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.00	1.40	-100	0
F - Hydrofluorocarbons (HFCs)	0	0	-100	176,476	249,400	-29.24	1336.9394
Sierra Leone - (Population**: 8,731)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.25	1.70	-85.29	0.0000
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.25	1.70	-85.29	0.0000
F - Hydrofluorocarbons (HFCs)	0	0	-100	272,316	350,905	-22.40	31.1896
Solomon Islands - (Population**: 829)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.06	2.00	-97.00	0.0001
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.06	2.00	-97.00	0.0001
F - Hydrofluorocarbons (HFCs)	0	0	-100	24,911	69,516	-64.17	30.0495
South Africa - (Population**: 64,386)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	68.36	369.70	-81.51	0.0011
Subtotal - Summation excludes Annex F	0.00	0.00	-100	68.36	369.70	-81.51	0.0011
F - Hydrofluorocarbons (HFCs)	0	0	-100	9,513,006	13,843,139	-31.28	147.7496
South Sudan - (Population**: 12,067)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.66	4.10	-83.90	0.0001
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.66	4.10	-83.90	0.0001
F - Hydrofluorocarbons (HFCs)	0	0	-100	36,465			3.0219
Sudan - (Population**: 50,849)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	2.64	52.70	-94.99	0.0001
Subtotal - Summation excludes Annex F	0.00	0.00	-100	2.64	52.70	-94.99	0.0001
F - Hydrofluorocarbons (HFCs)	0	0	-100	160,041			3.1474
Suriname - (Population**: 637)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.00	2.00	-100	0
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.00	2.00	-100	0
F - Hydrofluorocarbons (HFCs)	0	0	-100	261,105			409.8980
Syrian Arab Republic - (Population**: 25,171)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	33.02	135.00	-75.54	0.0013
Subtotal - Summation excludes Annex F	0.00	0.00	-100	33.02	135.00	-75.54	0.0013
F - Hydrofluorocarbons (HFCs)	0	0	-100	855,270	18,150,706	-95.29	33.9784
Timor-Leste - (Population**: 1,410)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.11	0.50	-78.00	0.0001
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.11	0.50	-78.00	0.0001
Togo - (Population**: 9,618)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	5.18	20.00	-74.10	0.0005
Subtotal - Summation excludes Annex F	0.00	0.00	-100	5.18	20.00	-74.10	0.0005
F - Hydrofluorocarbons (HFCs)	0	0	-100	1,085,933	1,124,896	-3.46	112.9063
Tonga - (Population**: 104)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.00	0.10	-100	0
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.00	0.10	-100	0
F - Hydrofluorocarbons (HFCs)	0	0	-100	5,402	7,676	-29.62	51.9423
Trinidad and Tobago - (Population**: 1,510)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	9.96	46.00	-78.35	0.0066
Subtotal - Summation excludes Annex F	0.00	0.00	-100	9.96	46.00	-78.35	0.0066
F - Hydrofluorocarbons (HFCs)	0	0	-100	1,844,879	5,681,787	-67.53	1221.7742
Turkmenistan - (Population**: 7,558)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	1.41	6.80	-79.26	0.0002
Subtotal - Summation excludes Annex F	0.00	0.00	-100	1.41	6.80	-79.26	0.0002
F - Hydrofluorocarbons (HFCs)	0	0	-100	112,838	597,121	-81.10	14.9296
Tuvalu - (Population**: 10)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.00	0.10	-100	0
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.00	0.10	-100	0
F - Hydrofluorocarbons (HFCs)	0	0	-100	550	2,648	-79.23	55.0000
Uganda - (Population**: 50,698)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.06	0.20	-70.00	0.0000
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.06	0.20	-70.00	0.0000
F - Hydrofluorocarbons (HFCs)	0	0	-100	35,209	39,432	-10.71	0.6945
United Republic of Tanzania - (Population**: 69,542)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.32	1.70	-81.18	0.0000
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.32	1.70	-81.18	0.0000
F - Hydrofluorocarbons (HFCs)	0	0	-100	86,358	218,611	-60.50	1.2418
Vanuatu - (Population**: 331)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.00	0.30	-100	0
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.00	0.30	-100	0
F - Hydrofluorocarbons (HFCs)	0	0	-100	19,987	23,529	-15.05	60.3837
Yemen - (Population**: 41,179)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	50.17	158.20	-68.29	0.0012
Subtotal - Summation excludes Annex F	0.00	0.00	-100	50.17	158.20	-68.29	0.0012
Zambia - (Population**: 21,612)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	1.30	5.00	-74.00	0.0001
Subtotal - Summation excludes Annex F	0.00	0.00	-100	1.30	5.00	-74.00	0.0001
F - Hydrofluorocarbons (HFCs)	0	0	-100	612,575	699,513	-12.43	28.3442
Zimbabwe - (Population**: 16,790)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	2.26	17.80	-87.30	0.0001
Subtotal - Summation excludes Annex F	0.00	0.00	-100	2.26	17.80	-87.30	0.0001
F - Hydrofluorocarbons (HFCs)	0	0	-100	790,887	1,210,624	-34.67	47.1046

**Annex Va- Production and consumption of controlled substances - comparison of 2024 with baseline:
Summary for All Parties (ODP/CO2-eq tonnes).**

Key

- AI - Annex A, Group I (CFCs). Base for Article 5 parties is the average of 1995, 1996 and 1997. Base for non-Article 5 Parties is 1986.
 AII - Annex A, Group II (Halon). Base for Article 5 parties is the average of 1995, 1996 and 1997. Base for non-Article 5 Parties is 1986.
 BI - Annex B, Group I (Other Halogenated CFCs). Base for Article 5 parties = average of 1998, 1999 and 2000. Base for non-Article 5 Parties is 1989.
 BII - Annex B, Group II (Carbon Tetrachloride). Base for Article 5 parties is the average of 1998, 1999 and 2000. Base for non-Article 5 Parties is 1989.
 BIII - Annex B, Group III (Methyl Chloroform). Base for Article 5 parties is the average of 1998, 1999 and 2000. Base for non-Article 5 Parties is 1989.
 CI - Annex C, Group I (HCFCs). Base for Article 5 parties is the average of 2009 and 2010. Base consumption for non-Article 5 Parties is 1989 consumption of HCFCs plus 2.8% of 1989 consumption of CFCs. Base production for non-Article 5 Parties is Average of 1989 HCFC production + 2.8% of 1989 CFC production and 1989 HCFC consumption + 2.8% of 1989 CFC consumption.
 CII - Annex C, Group II (HBFCs). Phase-out requirement was from 1996.
 CIII - Annex C, Group III (Bromochloromethane). Phase-out requirement was from 2002.
 EI - Annex E, Group I (Methyl Bromide). Base for Article 5 parties is the average of 1995, 1996, 1997 and 1998. Base for non-Article 5 Parties is 1991.
 F - Annex F Hydrofluorocarbons (HFCs). Base for Article 5 Group 1 parties is the average HFC for 2020–2022 + 65% of HCFC baseline. Base for Article 5 parties- Group 2 is the average HFC for 2024-2026 + 65% of HCFC baseline. Base for non-Article 5 parties is the average HFC for 2011-2013 + 15% (25% for Belarus, Kazakhstan, the Russian Federation, Tajikistan and Uzbekistan) of HCFC baseline.

	PRODUCTION*			CONSUMPTION*			
	2024	Base	% Chng	2024	Base	% Chng	Per Cap. Cons.
All Parties - 197 (Population**: 8,589,003)							
AI - Chlorofluorocarbons (CFCs)	-1,008.7	1,124,768.6	-100	-1,005.5	1,472,313.6	-100	0
AII - Halons	-404.7	231,127.8	-100	-404.7	286,371.4	-100	0
BI - Other Fully Halogenated CFCs	-55.4	3,344.7	-100	-55.4	3,489.8	-100	0
BII - Carbon Tetrachloride (CTC)	-1,283.8	390,170.7	-100	-819.8	402,929.4	-100	0
BIII - Methyl Chloroform (TCA)	-36.6	69,670.6	-100	-36.6	76,976.0	-100	0
CI - Hydrochlorofluorocarbons (HCFCs)	13,280.62	74,174.70	-82.10	12,843.64	84,600.59	-84.82	0.0015
CII - Hydrobromofluorocarbons (HBFCs)	0.0		-100	-0.5		-100	0
CIII - Bromochloromethane (BCM)	0.4			0.4			0.0000
EI - Methyl Bromide (MB)	75.7	40,407.4	-99.81	70.2	46,692.6	-99.85	0.0000
Subtotal - Summation excludes Annex F	10,567.52	1,933,664.50	-99.45	10,591.74	2,373,373.39	-99.55	0.0012
F - Hydrofluorocarbons (HFCs)	1,492,284.003	2,440,146.038	-38.84	1,549,099.283	2,209,348.271	-29.88	180.3585
Article 5 Parties - 146 (Population**: 6,724,476)							
AI - Chlorofluorocarbons (CFCs)	-20.9	108,540.6	-100	-17.7	164,726.1	-100	0
AII - Halons	0.0	44,959.8	-100	0.0	46,492.4	-100	0
BI - Other Fully Halogenated CFCs	0.0	26.7	-100	0.0	80.2	-100	0
BII - Carbon Tetrachloride (CTC)	96.1	57,532.2	-99.83	96.2	65,707.5	-99.85	0.0000
BIII - Methyl Chloroform (TCA)	0.0	152.9	-100	0.0	1,861.9	-100	0
CI - Hydrochlorofluorocarbons (HCFCs)	13,345.20	32,988.90	-59.55	12,905.59	35,776.69	-63.93	0.0019
CII - Hydrobromofluorocarbons (HBFCs)	0.0		-100	0.0		-100	0
CIII - Bromochloromethane (BCM)	0.0		-100	0.0		-100	0
EI - Methyl Bromide (MB)	0.0	806.3	-100	0.0	9,504.9	-100	0
Subtotal - Summation excludes Annex F	13,420.40	245,007.40	-94.52	12,984.09	324,149.69	-95.99	0.0019
F - Hydrofluorocarbons (HFCs)	1,346,701.889	1,887,966.058	-28.67	1,247,046.349	1,562,618.220	-20.20	185.4489
Non-Article 5 Parties - 51 (Population**: 1,864,527)							
AI - Chlorofluorocarbons (CFCs)	-987.8	1,016,228.0	-100	-987.8	1,307,587.5	-100	0
AII - Halons	-404.7	186,168.0	-100	-404.7	239,879.0	-100	0
BI - Other Fully Halogenated CFCs	-55.4	3,318.0	-100	-55.4	3,409.6	-100	0
BII - Carbon Tetrachloride (CTC)	-1,379.9	332,638.5	-100	-916.0	337,221.9	-100	0
BIII - Methyl Chloroform (TCA)	-36.6	69,517.7	-100	-36.6	75,114.1	-100	0
CI - Hydrochlorofluorocarbons (HCFCs)	-64.58	41,185.80	-100	-61.95	48,823.90	-100	0
CII - Hydrobromofluorocarbons (HBFCs)	0.0		-100	-0.5		-100	0
CIII - Bromochloromethane (BCM)	0.4			0.4			0.0000
EI - Methyl Bromide (MB)	75.7	39,601.1	-99.81	70.2	37,187.7	-99.81	0.0000
Subtotal - Summation excludes Annex F	-2,852.88	1,688,657.10	-100	-2,392.35	2,049,223.70	-100	0
F - Hydrofluorocarbons (HFCs)	145,582.114	552,179.980	-73.64	302,052.934	646,730.051	-53.30	161.9998

**Annex Vb- Production and consumption of controlled substances - comparison of 2024 with baseline:
Non-Article 5 Parties (ODP/CO2-eq tonnes).**

Key

- AI - Annex A, Group I (CFCs). Base for Article 5 parties is the average of 1995, 1996 and 1997. Base for non-Article 5 Parties is 1986.
 AII - Annex A, Group II (Halons). Base for Article 5 parties is the average of 1995, 1996 and 1997. Base for non-Article 5 Parties is 1986.
 BI - Annex B, Group I (Other Halogenated CFCs). Base for Article 5 parties = average of 1998, 1999 and 2000. Base for non-Article 5 Parties is 1989.
 BII - Annex B, Group II (Carbon Tetrachloride). Base for Article 5 parties is the average of 1998, 1999 and 2000. Base for non-Article 5 Parties is 1989.
 BIII - Annex B, Group III (Methyl Chloroform). Base for Article 5 parties is the average of 1998, 1999 and 2000. Base for non-Article 5 Parties is 1989.
 CI - Annex C, Group I (HCFCs). Base for Article 5 parties is the average of 2009 and 2010. Base consumption for non-Article 5 Parties is 1989 consumption of HCFCs plus 2.8% of 1989 consumption of CFCs. Base production for non-Article 5 Parties is Average of 1989 HCFC production + 2.8% of 1989 CFC production and 1989 HCFC consumption + 2.8% of 1989 CFC consumption.
 CII - Annex C, Group II (HBFCs). Phase-out requirement was from 1996.
 CIII - Annex C, Group III (Bromochloromethane). Phase-out requirement was from 2002.
 EI - Annex E, Group I (Methyl Bromide). Base for Article 5 parties is the average of 1995, 1996, 1997 and 1998. Base for non-Article 5 Parties is 1991.
 F - Annex F Hydrofluorocarbons (HFCs). Base for Article 5 Group 1 parties is the average HFC for 2020–2022 + 65% of HCFC baseline. Base for Article 5 parties- Group 2 is the average HFC for 2024–2026 + 65% of HCFC baseline. Base for non-Article 5 parties is the average HFC for 2011–2013 + 15% (25% for Belarus, Kazakhstan, the Russian Federation, Tajikistan and Uzbekistan) of HCFC baseline.

	PRODUCTION*			CONSUMPTION*			
	2024	Base	% Chng	2024	Base	% Chng	Per Cap. Cons.
Andorra - (Population**: 81)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	3.50	-100	0.00	6.90	-100	0
Subtotal - Summation excludes Annex F	0.00	3.50	-100	0.00	6.90	-100	0
F - Hydrofluorocarbons (HFCs)	0	13.898	-100	13.044	69.107	-81.12	161.0370
Australia - (Population**: 26,581)							
AI - Chlorofluorocarbons (CFCs)	-4.5	15,385.4	-100	-4.5	14,290.4	-100	0
CI - Hydrochlorofluorocarbons (HCFCs)	-7.16	587.10	-100	-5.93	548.70	-100	0
Subtotal - Summation excludes Annex F	-11.66	15,972.50	-100	-10.43	14,839.10	-100	0
F - Hydrofluorocarbons (HFCs)	-943.347	1,205.875	-100	4,251,739	10,814,521	-60.68	159.9541
Austria - (Population**: 9,125)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	91.20	-100				
Subtotal - Summation excludes Annex F	0.00	91.20	-100				
F - Hydrofluorocarbons (HFCs)	0	131.703	-100				
Azerbaijan - (Population**: 10,305)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	7.40	-100	0.00	14.90	-100	0
Subtotal - Summation excludes Annex F	0.00	7.40	-100	0.00	14.90	-100	0
Belarus - (Population**: 9,086)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	25.00	-100	0.00	50.00	-100	0
Subtotal - Summation excludes Annex F	0.00	25.00	-100	0.00	50.00	-100	0
F - Hydrofluorocarbons (HFCs)	0	59.139	-100	4,820,490	5,077,555	-5.06	530.5404
Belgium - (Population**: 11,728)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100				
Subtotal - Summation excludes Annex F	0.00	0.00	-100				
F - Hydrofluorocarbons (HFCs)	0	0	-100				
Bulgaria - (Population**: 6,778)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	40.90	-100				
Subtotal - Summation excludes Annex F	0.00	40.90	-100				
F - Hydrofluorocarbons (HFCs)	0	61.765	-100				
Canada - (Population**: 39,538)							
BII - Carbon Tetrachloride (CTC)	0.0	29,309.5	-100	0.1	6,167.7	-100.00	0.0000
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	819.60	-100	0.13	892.30	-99.99	0.0000
Subtotal - Summation excludes Annex F	0.00	30,129.10	-100	0.23	7,060.00	-100.00	0.0000
F - Hydrofluorocarbons (HFCs)	0	2,174.370	-100	8,394,444	18,035,516	-53.46	212.3133
Croatia - (Population**: 3,889)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	7.30	-100				
Subtotal - Summation excludes Annex F	0.00	7.30	-100				
F - Hydrofluorocarbons (HFCs)	0	8.563	-100				
Cyprus - (Population**: 1,352)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	4.30	-100				
Subtotal - Summation excludes Annex F	0.00	4.30	-100				
F - Hydrofluorocarbons (HFCs)	0	6.688	-100				
Czechia - (Population**: 10,792)							
BII - Carbon Tetrachloride (CTC)	-0.2	5,285.5	-100				
CI - Hydrochlorofluorocarbons (HCFCs)	-0.01	107.60	-100				
CIII - Bromochloromethane (BCM)	-0.1		-100				
Subtotal - Summation excludes Annex F	-0.31	5,393.10	-100				
F - Hydrofluorocarbons (HFCs)	-4.154	162.669	-100				
Denmark - (Population**: 5,964)							
BII - Carbon Tetrachloride (CTC)	-2.6	0.0	-100				
CI - Hydrochlorofluorocarbons (HCFCs)	-0.50	68.90	-100				
Subtotal - Summation excludes Annex F	-3.10	68.90	-100				
F - Hydrofluorocarbons (HFCs)	0	118.820	-100				
Estonia - (Population**: 1,367)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	2.80	-100				
Subtotal - Summation excludes Annex F	0.00	2.80	-100				
F - Hydrofluorocarbons (HFCs)	0	5.009	-100				
European Union - (Population**: 506,178)							
AI - Chlorofluorocarbons (CFCs)				-292.4	309,307.6	-100	0
AII - Halons				-399.7	44,882.6	-100	0
BII - Carbon Tetrachloride (CTC)				443.0	51,150.2	-99.13	0.0009
CI - Hydrochlorofluorocarbons (HCFCs)				-45.51	8,436.70	-100	0
CII - Hydrobromofluorocarbons (HBFCs)				-0.5		-100	0
CIII - Bromochloromethane (BCM)				-3.7		-100	0
EI - Methyl Bromide (MB)				-5.5	10,318.0	-100	0
Subtotal - Summation excludes Annex F				-304.31	424,095.10	-100	0
F - Hydrofluorocarbons (HFCs)				39,030,131	163,576,330	-76.14	77.1075

Finland - (Population: 5,612)**

All - Halons	-246.3	0.0	-100
Cl - Hydrochlorofluorocarbons (HCFCs)	0.00	36.50	-100
Subtotal - Summation excludes Annex F	-246.30	36.50	-100
F - Hydrofluorocarbons (HFCs)	-817	78.600	-100

France - (Population: 66,496)**

Al - Chlorofluorocarbons (CFCs)	-106.7	71,018.4	-100
All - Halons	-151.4	34,465.0	-100
BII - Carbon Tetrachloride (CTC)	5.8	5,119.4	-99.89
BIII - Methyl Chloroform (TCA)	-0.8	6,169.5	-100
Cl - Hydrochlorofluorocarbons (HCFCs)	-28.93	2,337.40	-100
Subtotal - Summation excludes Annex F	-282.03	119,109.70	-100
F - Hydrofluorocarbons (HFCs)	-191.397	32,975.001	-100

Germany - (Population: 84,696)**

Al - Chlorofluorocarbons (CFCs)	-132.3	123,652.8	-100
BII - Carbon Tetrachloride (CTC)	-22.9	8,067.4	-100
Cl - Hydrochlorofluorocarbons (HCFCs)	-14.20	3,425.60	-100
CIII - Bromochloromethane (BCM)	-1.4		-100
Subtotal - Summation excludes Annex F	-170.80	135,145.80	-100
F - Hydrofluorocarbons (HFCs)	1,689.758	21,556.537	-92.16

Greece - (Population: 10,137)**

Cl - Hydrochlorofluorocarbons (HCFCs)	0.00	235.30	-100
Subtotal - Summation excludes Annex F	0.00	235.30	-100
F - Hydrofluorocarbons (HFCs)	0	477.681	-100

Holy See - (Population: 0)**

Cl - Hydrochlorofluorocarbons (HCFCs)	0.00	0.10	-100	0.00	0.20	-100	0
Subtotal - Summation excludes Annex F	0.00	0.10	-100	0.00	0.20	-100	0
F - Hydrofluorocarbons (HFCs)	0	407	-100	251	1,392	-81.97	

Hungary - (Population: 9,690)**

Al - Chlorofluorocarbons (CFCs)	-3.5	0.0	-100
Cl - Hydrochlorofluorocarbons (HCFCs)	0.00	67.90	-100
Subtotal - Summation excludes Annex F	-3.50	67.90	-100
F - Hydrofluorocarbons (HFCs)	0	72.881	-100

Iceland - (Population: 391)**

Cl - Hydrochlorofluorocarbons (HCFCs)	0.00	4.30	-100	0.00	8.70	-100	0
Subtotal - Summation excludes Annex F	0.00	4.30	-100	0.00	8.70	-100	0
F - Hydrofluorocarbons (HFCs)	0	13.767	-100	11.131	271.188	-95.90	28.4680

Ireland - (Population: 5,227)**

Cl - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100
Subtotal - Summation excludes Annex F	0.00	0.00	-100
F - Hydrofluorocarbons (HFCs)	0	0	-100

Israel - (Population: 9,322)**

Cl - Hydrochlorofluorocarbons (HCFCs)	0.00	164.50	-100	4.33	329.00	-98.68	0.0005
CIII - Bromochloromethane (BCM)	4.1			4.1			0.0004
EI - Methyl Bromide (MB)	79.8	16,800.0	-99.53	79.8	2,148.0	-96.28	0.0086
Subtotal - Summation excludes Annex F	83.90	16,964.50	-99.51	88.23	2,477.00	-96.44	0.0095

Italy - (Population: 59,435)**

Cl - Hydrochlorofluorocarbons (HCFCs)	0.00	1,704.10	-100
Subtotal - Summation excludes Annex F	0.00	1,704.10	-100
F - Hydrofluorocarbons (HFCs)	0	3,182.160	-100

Japan - (Population: 124,071)**

BII - Carbon Tetrachloride (CTC)	6.9	19,602.0	-99.96	6.9	74,879.2	-99.99	0.0001
Cl - Hydrochlorofluorocarbons (HCFCs)	0.00	5,645.40	-100	0.00	5,554.90	-100	0
Subtotal - Summation excludes Annex F	6.90	25,247.40	-99.97	6.90	80,434.10	-99.99	0.0001
F - Hydrofluorocarbons (HFCs)	18,085.424	50,031.911	-63.85	26,088,942	71,521,258	-63.52	210.2743

Kazakhstan - (Population: 20,464)**

Cl - Hydrochlorofluorocarbons (HCFCs)	0.00	19.80	-100	0.25	39.50	-99.37	0.0000
Subtotal - Summation excludes Annex F	0.00	19.80	-100	0.25	39.50	-99.37	0.0000

Latvia - (Population: 1,880)**

Cl - Hydrochlorofluorocarbons (HCFCs)	0.00	69.00	-100		137.90		
Subtotal - Summation excludes Annex F	0.00	69.00	-100		137.90		
F - Hydrofluorocarbons (HFCs)	0	107.215	-100				

Liechtenstein - (Population: 40)**

Cl - Hydrochlorofluorocarbons (HCFCs)	0.00	0.30	-100	0.00	0.70	-100	0
Subtotal - Summation excludes Annex F	0.00	0.30	-100	0.00	0.70	-100	0
F - Hydrofluorocarbons (HFCs)	0	1.055	-100	6.275	12.258	-48.81	156.8750

Lithuania - (Population: 2,867)**

Cl - Hydrochlorofluorocarbons (HCFCs)	0.00	77.80	-100
Subtotal - Summation excludes Annex F	0.00	77.80	-100
F - Hydrofluorocarbons (HFCs)	0	97.592	-100

Luxembourg - (Population: 669)**

Cl - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100
Subtotal - Summation excludes Annex F	0.00	0.00	-100
F - Hydrofluorocarbons (HFCs)	0	0	-100

Malta - (Population: 536)**

Cl - Hydrochlorofluorocarbons (HCFCs)	0.00	5.80	-100
Subtotal - Summation excludes Annex F	0.00	5.80	-100
F - Hydrofluorocarbons (HFCs)	0	10.176	-100

Monaco - (Population: 39)**

Cl - Hydrochlorofluorocarbons (HCFCs)	0.00	1.20	-100	0.00	2.40	-100	0
Subtotal - Summation excludes Annex F	0.00	1.20	-100	0.00	2.40	-100	0

Netherlands (Kingdom of the) - (Population: 18,166)**

Cl - Hydrochlorofluorocarbons (HCFCs)	0.00	1,568.70	-100		1,472.80		
CIII - Bromochloromethane (BCM)	-2.2		-100				
Subtotal - Summation excludes Annex F	-2.20	1,568.70	-100		1,472.80		
F - Hydrofluorocarbons (HFCs)	-123.922	3,342.468	-100				

New Zealand - (Population: 5,194)**

Cl - Hydrochlorofluorocarbons (HCFCs)	0.00	28.00	-100	0.00	56.10	-100	0
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Subtotal - Summation excludes Annex F	0.00	28.00	-100	0.00	56.10	-100	0
F - Hydrofluorocarbons (HFCs)	0	76.343	-100	444,632	1,795,965	-75.24	85,6049
Norway - (Population**: 5,550)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	38.00	-100	0.00	76.00	-100	0
Subtotal - Summation excludes Annex F	0.00	38.00	-100	0.00	76.00	-100	0
F - Hydrofluorocarbons (HFCs)	0	138,936	-100	225,283	989,402	-77.23	40,5915
Poland - (Population**: 38,712)							
AI - Chlorofluorocarbons (CFCs)	-5.9	0.0	-100		4,986.0		
CI - Hydrochlorofluorocarbons (HCFCs)	-0.51	97.30	-100				
Subtotal - Summation excludes Annex F	-6.41	97.30	-100		5,180.60		
F - Hydrofluorocarbons (HFCs)	-60,575	221,244	-100				
Portugal - (Population**: 10,431)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100				
Subtotal - Summation excludes Annex F	0.00	0.00	-100				
F - Hydrofluorocarbons (HFCs)	0	0	-100				
Romania - (Population**: 19,068)							
AI - Chlorofluorocarbons (CFCs)	-33.2	0.0	-100				
BI - Carbon Tetrachloride (CTC)	-1.4	11,878.5	-100		2,264.5		
CI - Hydrochlorofluorocarbons (HCFCs)	0.00		-100				
Subtotal - Summation excludes Annex F	-34.60	11,878.50	-100		3,094.20		
F - Hydrofluorocarbons (HFCs)	0	70,220	-100				
Russian Federation - (Population**: 145,206)							
CI - Hydrochlorofluorocarbons (HCFCs)	3.50	4,066.10	-99.91	5.72	3,996.90	-99.86	0.0000
Subtotal - Summation excludes Annex F	3.50	4,066.10	-99.91	5.72	3,996.90	-99.86	0.0000
F - Hydrofluorocarbons (HFCs)	624,945	15,352,188	-95.93	34,208,456	48,729,257	-29.80	235,5857
San Marino - (Population**: 34)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.20	-100	0.00	0.40	-100	0
Subtotal - Summation excludes Annex F	0.00	0.20	-100	0.00	0.40	-100	0
F - Hydrofluorocarbons (HFCs)	0	366	-100	0	11,509	-100	0
Slovakia - (Population**: 5,520)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	29.10	-100				
Subtotal - Summation excludes Annex F	0.00	29.10	-100				
F - Hydrofluorocarbons (HFCs)	-312	45,177	-100				
Slovenia - (Population**: 2,119)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	34.00	-100				
Subtotal - Summation excludes Annex F	0.00	34.00	-100				
F - Hydrofluorocarbons (HFCs)	0	39,123	-100				
Spain - (Population**: 47,916)							
BI - Methyl Chloroform (TCA)	-0.8	0.0					
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	1,345.60	-100		1,345.60		
Subtotal - Summation excludes Annex F	0.80	1,345.60	-99.94		1,853.50		
F - Hydrofluorocarbons (HFCs)	0	21,286,874	-100				
Sweden - (Population**: 10,581)							
AI - Chlorofluorocarbons (CFCs)	-10.8	0.0	-100		4,962.0		
AI - Halons	-2.0	0.0	-100		1,831.0		
CI - Hydrochlorofluorocarbons (HCFCs)	-0.23	78.60	-100		157.20		
Subtotal - Summation excludes Annex F	-13.03	78.60	-100		6,950.20		
F - Hydrofluorocarbons (HFCs)	-15	252,936	-100				
Switzerland - (Population**: 8,898)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	65.30	-100	0.00	130.50	-100	0
Subtotal - Summation excludes Annex F	0.00	65.30	-100	0.00	130.50	-100	0
F - Hydrofluorocarbons (HFCs)	0	112,283	-100	1,247,176	2,208,655	-43.53	140,1636
Tajikistan - (Population**: 10,492)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	9.40	-100	0.05	18.70	-99.73	0.0000
Subtotal - Summation excludes Annex F	0.00	9.40	-100	0.05	18.70	-99.73	0.0000
F - Hydrofluorocarbons (HFCs)	0	27,216	-100	456,901	446,600	2.31	43,5476
Ukraine - (Population**: 37,441)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	82.10	-100	0.00	164.20	-100	0
Subtotal - Summation excludes Annex F	0.00	82.10	-100	0.00	164.20	-100	0
F - Hydrofluorocarbons (HFCs)	0		-100	6,823,397			182,2440
United Kingdom of Great Britain and Northern Ireland - (Population**: 68,923)							
AI - Chlorofluorocarbons (CFCs)	-44.9	102,014.4	-100	-44.9	46,218.4	-100	0
CI - Hydrochlorofluorocarbons (HCFCs)	-4.16	2,755.80	-100	-4.16	1,260.70	-100	0
Subtotal - Summation excludes Annex F	-49.06	104,770.20	-100	-49.06	47,479.10	-100	0
F - Hydrofluorocarbons (HFCs)	-61,659	16,655,157	-100	4,255,873	20,631,249	-79.37	61,7482
United States of America - (Population**: 344,480)							
AI - Chlorofluorocarbons (CFCs)	-646.0	311,021.2	-100	-646.0	305,963.6	-100	0
AI - Halons	-5.0	58,756.0	-100	-5.0	57,803.0	-100	0
BI - Other Fully Halogenated CFCs	-55.4	577.0	-100	-55.4	571.0	-100	0
BI - Carbon Tetrachloride (CTC)	-1,365.5	56,036.2	-100	-1,366.0	11,924.0	-100	0
BI - Methyl Chloroform (TCA)	-36.6	31,517.0	-100	-36.6	25,597.3	-100	0
CI - Hydrochlorofluorocarbons (HCFCs)	-12.38	15,389.60	-100	-12.13	15,248.30	-100	0
EL - Methyl Bromide (MB)	-4.1	16,908.0	-100	-4.1	15,317.4	-100	0
Subtotal - Summation excludes Annex F	-2,124.98	490,205.00	-100	-2,130.23	432,424.60	-100	0
F - Hydrofluorocarbons (HFCs)	126,568,185	382,005,967	-66.87	171,774,769	302,538,289	-43.22	498,6495
Uzbekistan - (Population**: 36,010)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	37.40	-100	0.30	74.70	-99.60	0.0000
Subtotal - Summation excludes Annex F	0.00	37.40	-100	0.30	74.70	-99.60	0.0000

**Annex Vc- Production and consumption of controlled substances - comparison of 2024 with baseline:
Article 5 Parties (ODP/CO2-eq tonnes).**

Key

- AI - Annex A, Group I (CFCs). Base for Article 5 parties is the average of 1995, 1996 and 1997. Base for non-Article 5 Parties is 1986.
 AII - Annex A, Group II (Halons). Base for Article 5 parties is the average of 1995, 1996 and 1997. Base for non-Article 5 Parties is 1986.
 BI - Annex B, Group I (Other Halogenated CFCs). Base for Article 5 parties = average of 1998, 1999 and 2000. Base for non-Article 5 Parties is 1989.
 BII - Annex B, Group II (Carbon Tetrachloride). Base for Article 5 parties is the average of 1998, 1999 and 2000. Base for non-Article 5 Parties is 1989.
 BIII - Annex B, Group III (Methyl Chloroform). Base for Article 5 parties is the average of 1998, 1999 and 2000. Base for non-Article 5 Parties is 1989.
 CI - Annex C, Group I (HCFCs). Base for Article 5 parties is the average of 2009 and 2010. Base consumption for non-Article 5 Parties is 1989 consumption of HCFCs plus 2.8% of 1989 consumption of CFCs. Base production for non-Article 5 Parties is Average of 1989 HCFC production + 2.8% of 1989 CFC production and 1989 HCFC consumption + 2.8% of 1989 CFC consumption.
 CII - Annex C, Group II (HBFCs). Phase-out requirement was from 1996.
 CIII - Annex C, Group III (Bromochloromethane). Phase-out requirement was from 2002.
 EI - Annex E, Group I (Methyl Bromide). Base for Article 5 parties is the average of 1995, 1996, 1997 and 1998. Base for non-Article 5 Parties is 1991.
 F - Annex F Hydrofluorocarbons (HFCs). Base for Article 5 Group 1 parties is the average HFC for 2020–2022 + 65% of HCFC baseline. Base for Article 5 parties- Group 2 is the average HFC for 2024-2026 + 65% of HCFC baseline. Base for non-Article 5 parties is the average HFC for 2011-2013 + 15% (25% for Belarus, Kazakhstan, the Russian Federation, Tajikistan and Uzbekistan) of HCFC baseline.

	PRODUCTION*			CONSUMPTION*			
	2024	Base	% Chng	2024	Base	% Chng	Per Cap. Cons.
Afghanistan - (Population**: 42,045)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	10.61	23.60	-55.04	0.0003
Subtotal - Summation excludes Annex F	0.00	0.00	-100	10.61	23.60	-55.04	0.0003
Albania - (Population**: 2,802)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	2.47	6.00	-58.83	0.0009
Subtotal - Summation excludes Annex F	0.00	0.00	-100	2.47	6.00	-58.83	0.0009
F - Hydrofluorocarbons (HFCs)	0	0	-100	883,701	883,849	-0.02	315.3822
Algeria - (Population**: 46,497)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	39.71	62.12	-36.08	0.0009
Subtotal - Summation excludes Annex F	0.00	0.00	-100	39.71	62.12	-36.08	0.0009
Angola - (Population**: 37,313)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	2.75	16.00	-82.81	0.0001
Subtotal - Summation excludes Annex F	0.00	0.00	-100	2.75	16.00	-82.81	0.0001
F - Hydrofluorocarbons (HFCs)	0	0	-100	3,877,981	3,878,000	0.00	103.9311
Antigua and Barbuda - (Population**: 94)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.00	0.30	-100	0
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.00	0.30	-100	0
F - Hydrofluorocarbons (HFCs)	0	0	-100	85.977			914.6489
Argentina - (Population**: 45,618)							
CI - Hydrochlorofluorocarbons (HCFCs)	100.03	224.60	-55.46	158.45	400.70	-60.46	0.0035
Subtotal - Summation excludes Annex F	100.03	224.60	-55.46	158.45	400.70	-60.46	0.0035
F - Hydrofluorocarbons (HFCs)	0	4,803,138	-100	13,194,064	19,219,484	-31.35	289.2293
Bahamas - (Population**: 400)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	1.95	4.80	-59.38	0.0049
Subtotal - Summation excludes Annex F	0.00	0.00	-100	1.95	4.80	-59.38	0.0049
F - Hydrofluorocarbons (HFCs)	0	0	-100	130,508	227,203	-42.56	326.2700
Bahrain - (Population**: 1,588)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	28.57	51.90	-44.95	0.0180
Subtotal - Summation excludes Annex F	0.00	0.00	-100	28.57	51.90	-44.95	0.0180
F - Hydrofluorocarbons (HFCs)	0	0	-100	1,844,909			1161.7815
Bangladesh - (Population**: 172,507)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	26.05	72.60	-64.12	0.0002
Subtotal - Summation excludes Annex F	0.00	0.00	-100	26.05	72.60	-64.12	0.0002
F - Hydrofluorocarbons (HFCs)	0	0	-100	4,133,238	5,473,532	-24.49	23.9598
Barbados - (Population**: 282)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.69	3.70	-81.35	0.0024
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.69	3.70	-81.35	0.0024
F - Hydrofluorocarbons (HFCs)	0	0	-100	199,042	295,419	-32.62	705.8227
Belize - (Population**: 414)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.56	2.80	-80.00	0.0014
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.56	2.80	-80.00	0.0014
F - Hydrofluorocarbons (HFCs)	0	0	-100	124,155	502,263	-75.28	299.8913
Benin - (Population**: 14,288)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	8.80	23.80	-63.03	0.0006
Subtotal - Summation excludes Annex F	0.00	0.00	-100	8.80	23.80	-63.03	0.0006
F - Hydrofluorocarbons (HFCs)	0	0	-100	1,493,635	1,875,057	-20.34	104.5377
Bhutan - (Population**: 789)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.01	0.30	-96.67	0.0000
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.01	0.30	-96.67	0.0000
F - Hydrofluorocarbons (HFCs)	0	0	-100	6,391	13,105	-51.23	8.1001
Bolivia (Plurinational State of) - (Population**: 12,329)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	1.53	6.10	-74.92	0.0001
Subtotal - Summation excludes Annex F	0.00	0.00	-100	1.53	6.10	-74.92	0.0001
F - Hydrofluorocarbons (HFCs)	0	0	-100	647,503	677,884	-4.48	52.5187
Bosnia and Herzegovina - (Population**: 3,176)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.00	4.80	-100	0
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.00	4.80	-100	0
F - Hydrofluorocarbons (HFCs)	0	0	-100	1,081,601	1,089,240	-0.70	340.5545
Botswana - (Population**: 2,501)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	4.32	11.00	-60.73	0.0017
Subtotal - Summation excludes Annex F	0.00	0.00	-100	4.32	11.00	-60.73	0.0017
F - Hydrofluorocarbons (HFCs)	0	0	-100	389,849	389,992	-0.04	155.8772
Brazil - (Population**: 211,574)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	443.85	1,327.30	-66.56	0.0021
Subtotal - Summation excludes Annex F	0.00	0.00	-100	443.85	1,327.30	-66.56	0.0021

F - Hydrofluorocarbons (HFCs)	0	0	-100	43,693,160	72,897,680	-40.06	206,5148
Brunei Darussalam - (Population**: 461)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	2.54	6.10	-58.36	0.0055
Subtotal - Summation excludes Annex F	0.00	0.00	-100	2.54	6.10	-58.36	0.0055
F - Hydrofluorocarbons (HFCs)	0	0	-100	332,755	454,855	-26.84	721.8113
Burkina Faso - (Population**: 23,286)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	2.82	28.90	-90.24	0.0001
Subtotal - Summation excludes Annex F	0.00	0.00	-100	2.82	28.90	-90.24	0.0001
F - Hydrofluorocarbons (HFCs)	0	0	-100	553,265	1,049,523	-47.28	23.7596
Burundi - (Population**: 13,875)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.55	7.20	-92.36	0.0000
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.55	7.20	-92.36	0.0000
F - Hydrofluorocarbons (HFCs)	0	0	-100	56,206	207,530	-72.92	4.0509
Cabo Verde - (Population**: 524)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.00	1.10	-100	0
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.00	1.10	-100	0
F - Hydrofluorocarbons (HFCs)	0	0	-100	108,546	38,791	179.82	207.1489
Cambodia - (Population**: 17,533)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	7.54	15.00	-49.73	0.0004
Subtotal - Summation excludes Annex F	0.00	0.00	-100	7.54	15.00	-49.73	0.0004
F - Hydrofluorocarbons (HFCs)	0	0	-100	892,097	1,263,376	-29.39	50.8810
Cameroon - (Population**: 28,748)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	22.20	88.80	-75.00	0.0008
Subtotal - Summation excludes Annex F	0.00	0.00	-100	22.20	88.80	-75.00	0.0008
F - Hydrofluorocarbons (HFCs)	0	0	-100	3,599,545	4,760,203	-24.38	125.2103
Central African Republic - (Population**: 5,240)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	5.98	12.00	-50.17	0.0011
Subtotal - Summation excludes Annex F	0.00	0.00	-100	5.98	12.00	-50.17	0.0011
Chad - (Population**: 19,870)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	10.04	16.10	-37.64	0.0005
Subtotal - Summation excludes Annex F	0.00	0.00	-100	10.04	16.10	-37.64	0.0005
F - Hydrofluorocarbons (HFCs)	0	0	-100	3,228,718	3,573,612	-9.65	162.4921
Chile - (Population**: 19,714)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	16.23	87.50	-81.45	0.0008
Subtotal - Summation excludes Annex F	0.00	0.00	-100	16.23	87.50	-81.45	0.0008
F - Hydrofluorocarbons (HFCs)	0	0	-100	3,581,813	6,698,107	-46.52	181.6888
China - (Population**: 1,420,909)							
AI - Chlorofluorocarbons (CFCs)	-20.9	47,003.9	-100	-20.9	57,818.7	-100	0
BII - Carbon Tetrachloride (CTC)	96.1	32,479.7	-99.70	96.1	49,142.1	-99.80	0.0001
CI - Hydrochlorofluorocarbons (HCFCs)	11,454.58	29,122.00	-60.67	7,470.07	19,269.00	-61.23	0.0053
Subtotal - Summation excludes Annex F	11,529.78	108,605.60	-89.38	7,545.27	126,229.80	-94.02	0.0053
F - Hydrofluorocarbons (HFCs)	1,261,238.541	1,852,528.591	-31.92	572,326.102	905,144.032	-36.77	402.7887
Colombia - (Population**: 52,610)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	10.08	225.60	-95.53	0.0002
Subtotal - Summation excludes Annex F	0.00	0.00	-100	10.08	225.60	-95.53	0.0002
F - Hydrofluorocarbons (HFCs)	0	0	-100	4,647,331	8,652,982	-46.29	88.3355
Comoros - (Population**: 859)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.03	0.10	-70.00	0.0000
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.03	0.10	-70.00	0.0000
F - Hydrofluorocarbons (HFCs)	0	0	-100	20,217	34,958	-42.17	23.5355
Congo - (Population**: 6,258)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	4.92	10.14	-51.48	0.0008
Subtotal - Summation excludes Annex F	0.00	0.00	-100	4.92	10.14	-51.48	0.0008
F - Hydrofluorocarbons (HFCs)	0	0	-100	281,443	504,649	-44.23	44.9733
Cook Islands - (Population**: 14)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.00	0.10	-100	0
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.00	0.10	-100	0
F - Hydrofluorocarbons (HFCs)	0	0	-100	3,296	6,461	-48.99	235.4286
Costa Rica - (Population**: 5,118)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	3.87	14.10	-72.55	0.0008
Subtotal - Summation excludes Annex F	-0.06	0.00	-100	3.87	14.10	-72.55	0.0008
F - Hydrofluorocarbons (HFCs)	-1,430	0	-100	1,324,607	1,450,799	-8.70	258.8134
Côte d'Ivoire - (Population**: 31,548)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	19.25	63.80	-69.83	0.0006
Subtotal - Summation excludes Annex F	0.00	0.00	-100	19.25	63.80	-69.83	0.0006
F - Hydrofluorocarbons (HFCs)	0	0	-100	2,731,618	21,289,132	-87.17	86.5861
Cuba - (Population**: 11,001)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	2.44	16.90	-85.56	0.0002
Subtotal - Summation excludes Annex F	0.00	0.00	-100	2.44	16.90	-85.56	0.0002
F - Hydrofluorocarbons (HFCs)	0	0	-100	671,021	1,030,662	-34.89	60.9964
Democratic People's Republic of Korea - (Population**: 26,460)							
CI - Hydrochlorofluorocarbons (HCFCs)	21.61	27.60	-21.70	51.43	78.00	-34.06	0.0019
Subtotal - Summation excludes Annex F	21.61	27.60	-21.70	51.43	78.00	-34.06	0.0019
F - Hydrofluorocarbons (HFCs)	656,370	1,102,320	-40.46	656,370	1,906,435	-65.57	24.8061
Democratic Republic of the Congo - (Population**: 107,516)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.78	66.21	-98.82	0.0000
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.78	66.21	-98.82	0.0000
Djibouti - (Population**: 1,161)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.23	0.70	-67.14	0.0002
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.23	0.70	-67.14	0.0002
F - Hydrofluorocarbons (HFCs)	0	0	-100	219,822	220,941	-0.51	189.3385
Dominica - (Population**: 66)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.20	0.40	-50.00	0.0030
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.20	0.40	-50.00	0.0030
F - Hydrofluorocarbons (HFCs)	0	0	-100	51,654			782.6364
Dominican Republic - (Population**: 11,380)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	28.28	51.20	-44.77	0.0025

Subtotal - Summation excludes Annex F	0.00	0.00	-100	28.28	51.20	-44.77	0.0025
F - Hydrofluorocarbons (HFCs)	0	0	-100	3,034,223	3,834,089	-20.86	266.6277
Ecuador - (Population**: 18,058)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	7.60	23.49	-67.65	0.0004
Subtotal - Summation excludes Annex F	0.00	0.00	-100	7.60	23.49	-67.65	0.0004
F - Hydrofluorocarbons (HFCs)	0	0	-100	2,010,343	3,179,294	-36.77	111.3270
Egypt - (Population**: 115,578)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	215.09	386.30	-44.32	0.0019
Subtotal - Summation excludes Annex F	0.00	0.00	-100	215.09	386.30	-44.32	0.0019
F - Hydrofluorocarbons (HFCs)	0	0	-100	17,259,729	19,290,350	-10.53	149.3340
El Salvador - (Population**: 6,324)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	2.08	11.70	-82.22	0.0003
Subtotal - Summation excludes Annex F	0.00	0.00	-100	2.08	11.70	-82.22	0.0003
F - Hydrofluorocarbons (HFCs)	0	0	-100	862,827	922,362	-6.45	136.4369
Equatorial Guinea - (Population**: 1,870)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.50	6.31	-92.08	0.0003
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.50	6.31	-92.08	0.0003
F - Hydrofluorocarbons (HFCs)	0	0	-100	52,398			28.0203
Eritrea - (Population**: 3,502)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.39	1.09	-64.22	0.0001
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.39	1.09	-64.22	0.0001
F - Hydrofluorocarbons (HFCs)	0	0	-100	169,245	169,249	0.00	48.3281
Eswatini - (Population**: 1,236)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.45	1.73	-73.99	0.0004
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.45	1.73	-73.99	0.0004
F - Hydrofluorocarbons (HFCs)	0	0	-100	78,365	105,500	-25.72	63.4021
Ethiopia - (Population**: 130,355)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	3.30	5.50	-40.00	0.0000
Subtotal - Summation excludes Annex F	0.00	0.00	-100	3.30	5.50	-40.00	0.0000
F - Hydrofluorocarbons (HFCs)	0	0	-100	199,749	347,035	-42.44	1.5323
Fiji - (Population**: 927)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	2.63	5.73	-54.10	0.0028
Subtotal - Summation excludes Annex F	0.00	0.00	-100	2.63	5.73	-54.10	0.0028
F - Hydrofluorocarbons (HFCs)	0	0	-100	289,332	443,528	-34.77	312.1165
Gabon - (Population**: 2,512)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	6.66	30.20	-77.95	0.0027
Subtotal - Summation excludes Annex F	0.00	0.00	-100	6.66	30.20	-77.95	0.0027
F - Hydrofluorocarbons (HFCs)	0	0	-100	963,332	2,182,210	-55.86	383.4920
Gambia - (Population**: 2,729)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.17	1.50	-88.67	0.0001
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.17	1.50	-88.67	0.0001
F - Hydrofluorocarbons (HFCs)	0	0	-100	177,868	271,515	-34.49	65.1770
Georgia - (Population**: 3,808)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	1.46	5.30	-72.45	0.0004
Subtotal - Summation excludes Annex F	0.00	0.00	-100	1.46	5.30	-72.45	0.0004
F - Hydrofluorocarbons (HFCs)	0	0	-100	448,285	813,152	-44.87	117.7219
Ghana - (Population**: 34,108)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	13.77	57.30	-75.97	0.0004
Subtotal - Summation excludes Annex F	0.00	0.00	-100	13.77	57.30	-75.97	0.0004
F - Hydrofluorocarbons (HFCs)	0	0	-100	716,142	1,805,702	-60.34	20.9963
Grenada - (Population**: 117)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.02	0.80	-97.50	0.0002
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.02	0.80	-97.50	0.0002
F - Hydrofluorocarbons (HFCs)	0	0	-100	48,400	52,815	-8.36	413.6752
Guatemala - (Population**: 18,265)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	1.84	8.30	-77.83	0.0001
Subtotal - Summation excludes Annex F	0.00	0.00	-100	1.84	8.30	-77.83	0.0001
F - Hydrofluorocarbons (HFCs)	0	0	-100	945,404	1,217,998	-22.38	51.7604
Guinea - (Population**: 14,582)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.55	0.90	-38.89	0.0000
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.55	0.90	-38.89	0.0000
F - Hydrofluorocarbons (HFCs)	0	0	-100	1,836,016	1,798,954	2.06	125.9098
Guinea-Bissau - (Population**: 2,177)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.61	2.83	-78.45	0.0003
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.61	2.83	-78.45	0.0003
F - Hydrofluorocarbons (HFCs)	0	0	-100	568,512	722,391	-21.30	261.1447
Guyana - (Population**: 829)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.25	1.80	-86.11	0.0003
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.25	1.80	-86.11	0.0003
F - Hydrofluorocarbons (HFCs)	0	0	-100	218,744			263.8649
Haiti - (Population**: 11,705)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	2.05	3.63	-43.53	0.0002
Subtotal - Summation excludes Annex F	0.00	0.00	-100	2.05	3.63	-43.53	0.0002
F - Hydrofluorocarbons (HFCs)	0	0	-100	56,307			4.8105
Honduras - (Population**: 10,735)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	3.17	19.90	-84.07	0.0003
Subtotal - Summation excludes Annex F	0.00	0.00	-100	3.17	19.90	-84.07	0.0003
F - Hydrofluorocarbons (HFCs)	0	0	-100	1,415,981	1,449,723	-2.33	131.9032
India - (Population**: 1,444,436)							
CI - Hydrochlorofluorocarbons (HCFCs)	1,361.95	2,399.50	-43.24	469.95	1,608.20	-70.78	0.0003
Subtotal - Summation excludes Annex F	1,361.95	2,399.50	-43.24	469.95	1,608.20	-70.78	0.0003
F - Hydrofluorocarbons (HFCs)	68,449.052			66,796.901			46.2443
Indonesia - (Population**: 282,354)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	130.95	403.90	-67.58	0.0005
Subtotal - Summation excludes Annex F	0.00	0.00	-100	130.95	403.90	-67.58	0.0005
F - Hydrofluorocarbons (HFCs)	0	0	-100	13,855,733	23,370,721	-40.71	49.0722

Iran (Islamic Republic of) - (Population**: 91,115)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	54.18	380.50	-85.76	0.0006
Subtotal - Summation excludes Annex F	0.00	0.00	-100	54.18	380.50	-85.76	0.0006
Iraq - (Population**: 45,558)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	62.32	108.40	-42.51	0.0014
Subtotal - Summation excludes Annex F	0.00	0.00	-100	62.32	108.40	-42.51	0.0014
Jamaica - (Population**: 2,840)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	1.04	16.30	-93.62	0.0004
Subtotal - Summation excludes Annex F	0.00	0.00	-100	1.04	16.30	-93.62	0.0004
Jordan - (Population**: 11,531)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	9.80	83.00	-88.19	0.0008
Subtotal - Summation excludes Annex F	0.00	0.00	-100	9.80	83.00	-88.19	0.0008
F - Hydrofluorocarbons (HFCs)	0	0	-100	1,327,114	2,808,101	-52.74	115.0910
Kenya - (Population**: 55,884)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	4.68	52.20	-91.03	0.0001
Subtotal - Summation excludes Annex F	0.00	0.00	-100	4.68	52.20	-91.03	0.0001
F - Hydrofluorocarbons (HFCs)	0	0	-100	890,579	1,543,824	-42.31	15.9362
Kiribati - (Population**: 134)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.00	0.10	-100	0
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.00	0.10	-100	0
F - Hydrofluorocarbons (HFCs)	0	0	-100	7,074	8,509	-16.86	52.7910
Kuwait - (Population**: 4,884)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	166.69	418.60	-60.18	0.0341
Subtotal - Summation excludes Annex F	0.00	0.00	-100	166.69	418.60	-60.18	0.0341
F - Hydrofluorocarbons (HFCs)	0	0	-100	4,051,794			829.6057
Kyrgyzstan - (Population**: 7,131)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.00	4.10	-100	0
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.00	4.10	-100	0
F - Hydrofluorocarbons (HFCs)	0	0	-100	230,930	450,382	-48.73	32.3840
Lao People's Democratic Republic - (Population**: 7,718)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	1.48	2.30	-35.65	0.0002
Subtotal - Summation excludes Annex F	0.00	0.00	-100	1.48	2.30	-35.65	0.0002
F - Hydrofluorocarbons (HFCs)	0	0	-100	167,934	324,226	-48.20	21.7587
Lebanon - (Population**: 5,786)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	18.32	73.50	-75.07	0.0032
Subtotal - Summation excludes Annex F	0.00	0.00	-100	18.32	73.50	-75.07	0.0032
F - Hydrofluorocarbons (HFCs)	0	0	-100	1,573,653	2,556,533	-38.45	271.9760
Lesotho - (Population**: 2,324)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.42	3.50	-88.00	0.0002
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.42	3.50	-88.00	0.0002
F - Hydrofluorocarbons (HFCs)	0	0	-100	48,905	103,221	-52.62	21.0435
Liberia - (Population**: 5,553)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.82	5.30	-84.53	0.0001
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.82	5.30	-84.53	0.0001
F - Hydrofluorocarbons (HFCs)	0	0	-100	33,330	180,909	-81.58	6.0022
Libya - (Population**: 7,343)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	45.28	118.38	-61.75	0.0062
Subtotal - Summation excludes Annex F	0.00	0.00	-100	45.28	118.38	-61.75	0.0062
Madagascar - (Population**: 31,578)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	6.33	16.60	-61.87	0.0002
Subtotal - Summation excludes Annex F	0.00	0.00	-100	6.33	16.60	-61.87	0.0002
F - Hydrofluorocarbons (HFCs)	0	0	-100	1,589,933			50.3494
Malawi - (Population**: 21,376)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	1.56	10.80	-85.56	0.0001
Subtotal - Summation excludes Annex F	0.00	0.00	-100	1.56	10.80	-85.56	0.0001
F - Hydrofluorocarbons (HFCs)	0	0	-100	161,445	428,435	-62.32	7.5526
Malaysia - (Population**: 35,344)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	184.35	515.80	-64.26	0.0052
Subtotal - Summation excludes Annex F	0.00	0.00	-100	184.35	515.80	-64.26	0.0052
F - Hydrofluorocarbons (HFCs)	-9.427	0	-100	15,406,368	26,703,717	-42.31	435.8977
Maldives - (Population**: 527)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.00	4.60	-100	0
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.00	4.60	-100	0
F - Hydrofluorocarbons (HFCs)	0	0	-100	390,586	434,219	-10.05	741.1499
Mali - (Population**: 24,122)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	4.40	15.00	-70.67	0.0002
Subtotal - Summation excludes Annex F	0.00	0.00	-100	4.40	15.00	-70.67	0.0002
F - Hydrofluorocarbons (HFCs)	0	0	-100	1,773,126	399,935	343.35	73.5066
Marshall Islands - (Population**: 38)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.00	0.20	-100	0
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.00	0.20	-100	0
F - Hydrofluorocarbons (HFCs)	0	0	-100	7,015	15,926	-55.95	184.6053
Mauritania - (Population**: 5,097)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	6.81	20.50	-66.78	0.0013
Subtotal - Summation excludes Annex F	0.00	0.00	-100	6.81	20.50	-66.78	0.0013
Mauritius - (Population**: 1,273)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	1.09	8.00	-86.38	0.0009
Subtotal - Summation excludes Annex F	0.00	0.00	-100	1.09	8.00	-86.38	0.0009
F - Hydrofluorocarbons (HFCs)	0	0	-100	613,288	665,957	-7.91	481.7659
Mexico - (Population**: 130,308)							
CI - Hydrochlorofluorocarbons (HCFCs)	176.31	697.00	-74.70	165.78	1,148.80	-85.57	0.0013
Subtotal - Summation excludes Annex F	176.31	697.00	-74.70	165.78	1,148.80	-85.57	0.0013
F - Hydrofluorocarbons (HFCs)	0	14,908,490	-100	43,614,902	76,982,664	-43.34	334.7062
Micronesia (Federated States of) - (Population**: 113)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.00	0.20	-100	0
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.00	0.20	-100	0
F - Hydrofluorocarbons (HFCs)	0	0	-100	7,226	13,600	-46.87	63.9469

Mongolia - (Population**: 3,454)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.39	1.40	-72.14	0.0001
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.39	1.40	-72.14	0.0001
F - Hydrofluorocarbons (HFCs)	0	0	-100	55,608	57,309	-2.97	16.0996
Montenegro - (Population**: 639)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.05	0.80	-93.75	0.0001
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.05	0.80	-93.75	0.0001
F - Hydrofluorocarbons (HFCs)	0	0	-100	145,764	155,854	-6.47	228.1127
Morocco - (Population**: 37,901)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	17.20	51.35	-66.50	0.0005
Subtotal - Summation excludes Annex F	0.00	0.00	-100	17.20	51.35	-66.50	0.0005
F - Hydrofluorocarbons (HFCs)	0	0	-100	2,645,559	3,023,765	-12.51	69.8018
Mozambique - (Population**: 34,130)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	2.04	8.69	-76.52	0.0001
Subtotal - Summation excludes Annex F	0.00	0.00	-100	2.04	8.69	-76.52	0.0001
F - Hydrofluorocarbons (HFCs)	0	0	-100	652,110	655,255	-0.48	19.1067
Myanmar - (Population**: 54,320)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	2.65	4.30	-38.37	0.0000
Subtotal - Summation excludes Annex F	0.00	0.00	-100	2.65	4.30	-38.37	0.0000
F - Hydrofluorocarbons (HFCs)	0	0	-100	669,660			12.3281
Namibia - (Population**: 2,998)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.38	8.40	-95.48	0.0001
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.38	8.40	-95.48	0.0001
F - Hydrofluorocarbons (HFCs)	0	0	-100	600,368	774,924	-22.53	200.2562
Naoero - (Population**: 12)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.00	0.00	-100	0
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.00	0.00	-100	0
F - Hydrofluorocarbons (HFCs)	0	0	-100	1,402	2,378	-41.04	116.8333
Nepal - (Population**: 29,674)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.16	1.10	-85.45	0.0000
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.16	1.10	-85.45	0.0000
Nicaragua - (Population**: 6,870)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	1.68	6.80	-75.29	0.0002
Subtotal - Summation excludes Annex F	0.00	0.00	-100	1.68	6.80	-75.29	0.0002
F - Hydrofluorocarbons (HFCs)	0	0	-100	479,823	582,295	-17.60	69.8432
Niger - (Population**: 26,592)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	5.01	15.98	-68.65	0.0002
Subtotal - Summation excludes Annex F	0.00	0.00	-100	5.01	15.98	-68.65	0.0002
F - Hydrofluorocarbons (HFCs)	0	0	-100	586,753	1,222,358	-52.00	22.0650
Nigeria - (Population**: 230,271)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	94.23	344.88	-72.68	0.0004
Subtotal - Summation excludes Annex F	0.00	0.00	-100	94.23	344.88	-72.68	0.0004
F - Hydrofluorocarbons (HFCs)	0	0	-100	24,024,976	24,986,406	-3.85	104.3335
Niue - (Population**: 2)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.00	0.00	-100	0
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.00	0.00	-100	0
F - Hydrofluorocarbons (HFCs)	0	0	-100	0	236	-100	0
North Macedonia - (Population**: 1,828)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.00	1.80	-100	0
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.00	1.80	-100	0
F - Hydrofluorocarbons (HFCs)	0	0	-100	253,091	397,843	-36.38	138.4524
Oman - (Population**: 5,165)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	9.62	31.50	-69.46	0.0019
Subtotal - Summation excludes Annex F	0.00	0.00	-100	9.62	31.50	-69.46	0.0019
F - Hydrofluorocarbons (HFCs)	0	0	-100	2,275,115			440.4869
Pakistan - (Population**: 249,336)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	112.00	248.11	-54.86	0.0004
Subtotal - Summation excludes Annex F	0.00	0.00	-100	112.00	248.11	-54.86	0.0004
F - Hydrofluorocarbons (HFCs)	0	0	-100	9,815,266			39.3656
Palau - (Population**: 18)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.00	0.20	-100	0
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.00	0.20	-100	0
F - Hydrofluorocarbons (HFCs)	0	0	-100	9,779	10,368	-5.68	543.2778
Panama - (Population**: 4,487)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	7.53	24.80	-69.64	0.0017
Subtotal - Summation excludes Annex F	0.00	0.00	-100	7.53	24.80	-69.64	0.0017
F - Hydrofluorocarbons (HFCs)	0	0	-100	1,892,969	2,543,386	-25.57	421.8785
Papua New Guinea - (Population**: 10,483)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.80	3.30	-75.76	0.0001
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.80	3.30	-75.76	0.0001
Paraguay - (Population**: 6,887)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	10.77	18.00	-40.17	0.0016
Subtotal - Summation excludes Annex F	0.00	0.00	-100	10.77	18.00	-40.17	0.0016
F - Hydrofluorocarbons (HFCs)	0	0	-100	1,517,927	1,684,582	-9.89	220.4047
Peru - (Population**: 34,035)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	13.25	26.88	-50.71	0.0004
Subtotal - Summation excludes Annex F	0.00	0.00	-100	13.25	26.88	-50.71	0.0004
F - Hydrofluorocarbons (HFCs)	0	0	-100	1,926,192	2,735,721	-29.59	56.5944
Philippines - (Population**: 115,371)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	62.75	161.98	-61.26	0.0005
Subtotal - Summation excludes Annex F	0.00	0.00	-100	62.75	161.98	-61.26	0.0005
F - Hydrofluorocarbons (HFCs)	0	0	-100	7,198,340	11,903,687	-39.53	62.3930
Qatar - (Population**: 3,012)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	39.97	86.90	-54.00	0.0133
Subtotal - Summation excludes Annex F	0.00	0.00	-100	39.97	86.90	-54.00	0.0133
Republic of Korea - (Population**: 51,738)							
AI - Chlorofluorocarbons (CFCs)	0.0	9,202.0	-100	3.2	9,159.8	-99.97	0.0001

BI - Carbon Tetrachloride (CTC)	0.0	584.8	-100	0.1	638.0	-99.98	0.0000
CI - Hydrochlorofluorocarbons (HCFCs)	230.79	395.10	-41.59	781.12	1,908.00	-59.06	0.0151
Subtotal - Summation excludes Annex F	230.79	10,181.90	-97.73	784.42	11,705.80	-93.30	0.0152
F - Hydrofluorocarbons (HFCs)	2,415.776	11,991.777	-79.85	53,710.939	89,248.915	-39.82	1038.1333
Republic of Moldova - (Population**: 3,053)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.36	1.00	-64.00	0.0001
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.36	1.00	-64.00	0.0001
F - Hydrofluorocarbons (HFCs)	0	0	-100	395.434	521.391	-24.16	129.5231
Rwanda - (Population**: 14,106)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.97	4.10	-76.34	0.0001
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.97	4.10	-76.34	0.0001
F - Hydrofluorocarbons (HFCs)	0	0	-100	181.430	338.197	-46.35	12.8619
Saint Kitts and Nevis - (Population**: 47)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.00	0.50	-100	0
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.00	0.50	-100	0
F - Hydrofluorocarbons (HFCs)	0	0	-100	33.392			710.4681
Saint Lucia - (Population**: 180)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.28	1.09	-74.31	0.0016
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.28	1.09	-74.31	0.0016
F - Hydrofluorocarbons (HFCs)	0	0	-100	104.747	83.735	25.09	581.9278
Saint Vincent and the Grenadines - (Population**: 101)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.00	0.30	-100	0
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.00	0.30	-100	0
F - Hydrofluorocarbons (HFCs)	0	0	-100	45.975	25.280	81.86	455.1980
Samoa - (Population**: 217)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.00	0.30	-100	0
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.00	0.30	-100	0
F - Hydrofluorocarbons (HFCs)	0	0	-100	7.264	20.557	-64.66	33.4747
Sao Tome and Principe - (Population**: 233)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.04	2.20	-98.18	0.0002
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.04	2.20	-98.18	0.0002
F - Hydrofluorocarbons (HFCs)	0	0	-100	31.985	71.039	-54.98	137.2747
Saudi Arabia - (Population**: 33,661)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	558.54	1,468.70	-61.97	0.0166
Subtotal - Summation excludes Annex F	0.00	0.00	-100	558.54	1,468.70	-61.97	0.0166
F - Hydrofluorocarbons (HFCs)	0	0	-100	36,264.409			1077.3420
Senegal - (Population**: 18,288)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	8.64	36.20	-76.13	0.0005
Subtotal - Summation excludes Annex F	0.00	0.00	-100	8.64	36.20	-76.13	0.0005
F - Hydrofluorocarbons (HFCs)	0	0	-100	2,122.051	2,786.915	-23.86	116.0352
Serbia - (Population**: 6,758)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	3.31	8.40	-60.60	0.0005
Subtotal - Summation excludes Annex F	0.00	0.00	-100	3.31	8.40	-60.60	0.0005
F - Hydrofluorocarbons (HFCs)	0	0	-100	2,899.695	3,261.874	-11.10	429.0759
Seychelles - (Population**: 129)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.00	1.40	-100	0
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.00	1.40	-100	0
F - Hydrofluorocarbons (HFCs)	0	0	-100	157.112	249.400	-37.00	1217.9225
Sierra Leone - (Population**: 8,553)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.50	1.70	-70.59	0.0001
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.50	1.70	-70.59	0.0001
F - Hydrofluorocarbons (HFCs)	0	0	-100	281.307	350.905	-19.83	32.8899
Singapore - (Population**: 5,812)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	35.30	216.10	-83.66	0.0061
Subtotal - Summation excludes Annex F	0.00	0.00	-100	35.30	216.10	-83.66	0.0061
F - Hydrofluorocarbons (HFCs)	0	0	-100	4,579.102	10,583.428	-56.73	787.8703
Solomon Islands - (Population**: 810)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.08	2.00	-96.00	0.0001
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.08	2.00	-96.00	0.0001
F - Hydrofluorocarbons (HFCs)	0	0	-100	27.134	69.516	-60.97	33.4988
Somalia - (Population**: 18,686)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.00	45.10	-100	0
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.00	45.10	-100	0
F - Hydrofluorocarbons (HFCs)	0	0	-100	1,015.385	1,276.672	-20.47	54.3393
South Africa - (Population**: 63,628)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	88.70	369.70	-76.01	0.0014
Subtotal - Summation excludes Annex F	0.00	0.00	-100	88.70	369.70	-76.01	0.0014
F - Hydrofluorocarbons (HFCs)	0	0	-100	9,779.559	13,843.139	-29.35	153.6990
South Sudan - (Population**: 11,820)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.66	4.10	-83.90	0.0001
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.66	4.10	-83.90	0.0001
F - Hydrofluorocarbons (HFCs)	0	0	-100	40.169			3.3984
Sri Lanka - (Population**: 23,038)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	8.75	13.90	-37.05	0.0004
Subtotal - Summation excludes Annex F	0.00	0.00	-100	8.75	13.90	-37.05	0.0004
F - Hydrofluorocarbons (HFCs)	0	0	-100	1,102.060	1,170.234	-5.83	47.8366
Sudan - (Population**: 50,049)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	2.65	52.70	-94.97	0.0001
Subtotal - Summation excludes Annex F	0.00	0.00	-100	2.65	52.70	-94.97	0.0001
F - Hydrofluorocarbons (HFCs)	0	0	-100	137.259			2.7425
Suriname - (Population**: 632)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.00	2.00	-100	0
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.00	2.00	-100	0
F - Hydrofluorocarbons (HFCs)	0	0	-100	260.022			411.4272
Syrian Arab Republic - (Population**: 24,175)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	37.57	135.00	-72.17	0.0016
Subtotal - Summation excludes Annex F	0.00	0.00	-100	37.57	135.00	-72.17	0.0016

F - Hydrofluorocarbons (HFCs)	0	0	-100	4,819,006	18,150,706	-73.45	199,3384
Thailand - (Population**: 71,689)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	305.04	927.60	-67.12	0.0043
Subtotal - Summation excludes Annex F	0.00	0.00	-100	305.04	927.60	-67.12	0.0043
F - Hydrofluorocarbons (HFCs)	0	0	-100	32,708,003	59,270,951	-44.82	456,2486
Timor-Leste - (Population**: 1,392)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.15	0.50	-70.00	0.0001
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.15	0.50	-70.00	0.0001
Togo - (Population**: 9,412)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	5.58	20.00	-72.10	0.0006
Subtotal - Summation excludes Annex F	0.00	0.00	-100	5.58	20.00	-72.10	0.0006
F - Hydrofluorocarbons (HFCs)	0	0	-100	1,116,869	1,124,896	-0.71	118,6644
Tonga - (Population**: 104)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.00	0.10	-100	0
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.00	0.10	-100	0
F - Hydrofluorocarbons (HFCs)	0	0	-100	5,112	7,676	-33.40	49,1538
Trinidad and Tobago - (Population**: 1,506)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	7.83	46.00	-82.98	0.0052
Subtotal - Summation excludes Annex F	0.00	0.00	-100	7.83	46.00	-82.98	0.0052
F - Hydrofluorocarbons (HFCs)	0	0	-100	2,967,132	5,681,787	-47.78	1970,2072
Tunisia - (Population**: 12,240)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	14.98	40.70	-63.19	0.0012
Subtotal - Summation excludes Annex F	0.00	0.00	-100	14.98	40.70	-63.19	0.0012
F - Hydrofluorocarbons (HFCs)	0	0	-100	1,166,379	2,367,840	-50.74	95,2924
Türkiye - (Population**: 87,372)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	2.75	551.47	-99.50	0.0000
Subtotal - Summation excludes Annex F	0.00	0.00	-100	2.75	551.47	-99.50	0.0000
F - Hydrofluorocarbons (HFCs)	-4,503	0	-100	18,995,525	37,117,410	-48.82	217,4098
Turkmenistan - (Population**: 7,431)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	3.54	6.80	-47.94	0.0005
Subtotal - Summation excludes Annex F	0.00	0.00	-100	3.54	6.80	-47.94	0.0005
F - Hydrofluorocarbons (HFCs)	0	0	-100	352,131	597,121	-41.03	47,3868
Tuvalu - (Population**: 10)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.00	0.10	-100	0
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.00	0.10	-100	0
F - Hydrofluorocarbons (HFCs)	0	0	-100	613	2,648	-76.85	61,3000
Uganda - (Population**: 49,332)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.07	0.20	-65.00	0.0000
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.07	0.20	-65.00	0.0000
F - Hydrofluorocarbons (HFCs)	0	0	-100	35,728	39,432	-9.39	0,7242
United Arab Emirates - (Population**: 10,839)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	359.69	557.10	-35.44	0.0332
Subtotal - Summation excludes Annex F	0.00	0.00	-100	359.69	557.10	-35.44	0.0332
F - Hydrofluorocarbons (HFCs)	13,962,760		-100	149,066,355			13752,7775
United Republic of Tanzania - (Population**: 67,578)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.65	1.70	-61.76	0.0000
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.65	1.70	-61.76	0.0000
F - Hydrofluorocarbons (HFCs)	0	0	-100	143,372	218,611	-34.42	2,1216
Uruguay - (Population**: 3,387)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	10.76	23.40	-54.02	0.0032
Subtotal - Summation excludes Annex F	0.00	0.00	-100	10.76	23.40	-54.02	0.0032
F - Hydrofluorocarbons (HFCs)	0	0	-100	528,576	1,012,431	-47.79	156,0602
Vanuatu - (Population**: 324)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	0.01	0.30	-96.67	0.0000
Subtotal - Summation excludes Annex F	0.00	0.00	-100	0.01	0.30	-96.67	0.0000
F - Hydrofluorocarbons (HFCs)	0	0	-100	17,133	23,529	-27.18	52,8796
Venezuela (Bolivarian Republic of) - (Population**: 28,351)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	123.10	-100	84.73	207.00	-59.07	0.0030
Subtotal - Summation excludes Annex F	0.00	123.10	-100	84.73	207.00	-59.07	0.0030
F - Hydrofluorocarbons (HFCs)	0	2,631,742	-100	3,452,171	5,157,619	-33.07	121,7654
Viet Nam - (Population**: 100,675)							
CI - Hydrochlorofluorocarbons (HCFCs)	-0.01	0.00	-100	142.61	221.20	-35.53	0.0014
Subtotal - Summation excludes Annex F	-0.01	0.00	-100	142.61	221.20	-35.53	0.0014
F - Hydrofluorocarbons (HFCs)	-5,250	0	-100	11,337,312	13,991,360	-18.97	112,6130
Yemen - (Population**: 39,987)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	65.18	158.20	-58.80	0.0016
Subtotal - Summation excludes Annex F	0.00	0.00	-100	65.18	158.20	-58.80	0.0016
Zambia - (Population**: 21,018)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	1.99	5.00	-60.20	0.0001
Subtotal - Summation excludes Annex F	0.00	0.00	-100	1.99	5.00	-60.20	0.0001
F - Hydrofluorocarbons (HFCs)	0	0	-100	616,171	699,513	-11.91	29,3163
Zimbabwe - (Population**: 16,478)							
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	3.44	17.80	-80.67	0.0002
Subtotal - Summation excludes Annex F	0.00	0.00	-100	3.44	17.80	-80.67	0.0002
F - Hydrofluorocarbons (HFCs)	0	0	-100	820,451	1,210,624	-32.23	49,7907

**Annex VIa- Production and consumption of controlled substances - comparison of 2025 with baseline:
Summary by geographical region of Parties (ODP/CO2-eq tonnes).**

Key

- AI - Annex A, Group I (CFCs). Base for Article 5 parties is the average of 1995, 1996 and 1997. Base for non-Article 5 Parties is 1986.
 AII - Annex A, Group II (Halon). Base for Article 5 parties is the average of 1995, 1996 and 1997. Base for non-Article 5 Parties is 1986.
 BI - Annex B, Group I (Other Halogenated CFCs). Base for Article 5 parties = average of 1998, 1999 and 2000. Base for non-Article 5 Parties is 1989.
 BII - Annex B, Group II (Carbon Tetrachloride). Base for Article 5 parties is the average of 1998, 1999 and 2000. Base for non-Article 5 Parties is 1989.
 BIII - Annex B, Group III (Methyl Chloroform). Base for Article 5 parties is the average of 1998, 1999 and 2000. Base for non-Article 5 Parties is 1989.
 CI - Annex C, Group I (HCFCs). Base for Article 5 parties is the average of 2009 and 2010. Base consumption for non-Article 5 Parties is 1989 consumption of HCFCs plus 2.8% of 1989 consumption of CFCs. Base production for non-Article 5 Parties is Average of 1989 HCFC production + 2.8% of 1989 CFC production and 1989 HCFC consumption + 2.8% of 1989 CFC consumption.
 CII - Annex C, Group II (HBFCs). Phase-out requirement was from 1996.
 CIII - Annex C, Group III (Bromochloromethane). Phase-out requirement was from 2002.
 EI - Annex E, Group I (Methyl Bromide). Base for Article 5 parties is the average of 1995, 1996, 1997 and 1998. Base for non-Article 5 Parties is 1991.
 F - Annex F Hydrofluorocarbons (HFCs). Base for Article 5 Group 1 parties is the average HFC for 2020–2022 + 65% of HCFC baseline. Base for Article 5 parties- Group 2 is the average HFC for 2024–2026 + 65% of HCFC baseline. Base for non-Article 5 parties is the average HFC for 2011–2013 + 15% (25% for Belarus, Kazakhstan, the Russian Federation, Tajikistan and Uzbekistan) of HCFC baseline.

	PRODUCTION*			CONSUMPTION*			
	2025	Base	% Chng	2025	Base	% Chng	Per Cap. Cons.
Africa - 41 (Population**: 1,154,148)							
AI - Chlorofluorocarbons (CFCs)	0.0	542.3	-100	0.0	10,892.1	-100	0
AII - Halons	0.0	0.0	-100	0.0	1,954.9	-100	0
BI - Other Fully Halogenated CFCs	0.0	0.0	-100	0.0	0.1	-100	0
BII - Carbon Tetrachloride (CTC)	0.0	0.0	-100	0.0	293.5	-100	0
BIII - Methyl Chloroform (TCA)	0.0	0.0	-100	0.0	73.3	-100	0
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	415.26	1,838.30	-77.41	0.0004
CII - Hydrobromofluorocarbons (HBFCs)	0.0	0.0	-100	0.0	0.0	-100	0
CIII - Bromochloromethane (BCM)	0.0	0.0	-100	0.0	0.0	-100	0
EI - Methyl Bromide (MB)	0.0	0.0	-100	0.0	2,639.5	-100	0
Subtotal - Summation excludes Annex F	0.00	542.30	-100	415.26	17,691.70	-97.65	0.0004
F - Hydrofluorocarbons (HFCs)	0	0	-100	72,424,403	94,001,768	-22.95	62,7514
Asia-Pacific - 36 (Population**: 1,127,657)							
AI - Chlorofluorocarbons (CFCs)	0.0	119,997.8	-100	0.0	145,525.7	-100	0
AII - Halons	0.0	28,419.0	-100	0.0	20,608.4	-100	0
BI - Other Fully Halogenated CFCs	0.0	2,342.0	-100	0.0	2,331.2	-100	0
BII - Carbon Tetrachloride (CTC)	7.9	19,602.0	-99.96	7.9	75,651.5	-99.99	0.0000
BIII - Methyl Chloroform (TCA)	0.0	15,636.4	-100	0.0	17,556.9	-100	0
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	5,649.70	-100	1,020.74	9,352.82	-89.09	0.0009
CII - Hydrobromofluorocarbons (HBFCs)	0.0	0.0	-100	0.0	0.0	-100	0
CIII - Bromochloromethane (BCM)	0.0	0.0	-100	0.0	0.0	-100	0
EI - Methyl Bromide (MB)	0.0	3,376.1	-100	0.0	4,450.2	-100	0
Subtotal - Summation excludes Annex F	7.90	195,023.00	-100.00	1,028.64	275,276.72	-99.63	0.0009
F - Hydrofluorocarbons (HFCs)	19,595,452	50,038,599	-60.84	101,414,169	131,362,134	-22.80	89,9335
Eastern Europe - 13 (Population**: 232,011)							
AI - Chlorofluorocarbons (CFCs)	-12.6	107,273.6	-100	0.0	101,369.4	-100	0
AII - Halons	0.0	27,800.0	-100	0.0	28,848.6	-100	0
BI - Other Fully Halogenated CFCs	0.0	300.0	-100	0.0	300.0	-100	0
BII - Carbon Tetrachloride (CTC)	-16.4	112,535.5	-100	-0.1	103,313.0	-100	0
BIII - Methyl Chloroform (TCA)	0.0	330.0	-100	0.0	330.0	-100	0
CI - Hydrochlorofluorocarbons (HCFCs)	12.28	4,563.40	-99.73	21.82	4,017.40	-99.46	0.0001
CII - Hydrobromofluorocarbons (HBFCs)	0.0	0.0	-100	0.0	0.0	-100	0
CIII - Bromochloromethane (BCM)	0.0	0.0	-100	0.0	0.0	-100	0
EI - Methyl Bromide (MB)	0.0	0.0	-100	0.0	22.0	-100	0
Subtotal - Summation excludes Annex F	-16.72	252,802.50	-100	21.72	238,200.40	-99.99	0.0001
F - Hydrofluorocarbons (HFCs)	386,046	16,119,686	-97.61	35,406,244	53,843,986	-34.24	152,6059
Latin America and the Caribbean - 25 (Population**: 602,119)							
AI - Chlorofluorocarbons (CFCs)	0.0	23,969.8	-100	0.0	25,824.4	-100	0
AII - Halons	0.0	0.0	-100	0.0	558.8	-100	0
BI - Other Fully Halogenated CFCs	0.0	0.0	-100	0.0	8.9	-100	0
BII - Carbon Tetrachloride (CTC)	0.0	11,629.6	-100	0.0	685.9	-100	0
BIII - Methyl Chloroform (TCA)	0.0	32.4	-100	0.0	159.6	-100	0
CI - Hydrochlorofluorocarbons (HCFCs)	131.25	921.60	-85.76	649.58	3,357.83	-80.65	0.0011
CII - Hydrobromofluorocarbons (HBFCs)	0.0	0.0	-100	0.0	0.0	-100	0
CIII - Bromochloromethane (BCM)	0.0	0.0	-100	0.0	0.0	-100	0
EI - Methyl Bromide (MB)	0.0	0.0	-100	19.2	3,495.6	-99.45	0.0000
Subtotal - Summation excludes Annex F	131.25	36,553.40	-99.64	668.78	34,091.03	-98.04	0.0011
F - Hydrofluorocarbons (HFCs)	-420,658	19,711,628	-100	125,963,486	201,377,173	-37.45	209,2003
Western Europe and Others - 22 (Population**: 990,124)							
AI - Chlorofluorocarbons (CFCs)	-214.4	477,935.4	-100	-276.2	393,249.3	-100	0
AII - Halons	-22.0	71,193.0	-100	-22.1	60,988.6	-100	0
BI - Other Fully Halogenated CFCs	0.0	99.0	-100	0.0	94.3	-100	0
BII - Carbon Tetrachloride (CTC)	-4,862.0	132,586.3	-100	-8,486.4	64,973.4	-100	0
BIII - Methyl Chloroform (TCA)	0.0	22,007.1	-100	0.0	16,743.7	-100	0
CI - Hydrochlorofluorocarbons (HCFCs)	-15.39	15,034.00	-100	-10.13	11,280.00	-100	0
CII - Hydrobromofluorocarbons (HBFCs)	0.0	0.0	-100	0.0	0.0	-100	0
CIII - Bromochloromethane (BCM)	0.0	0.0	-100	-27.4	0.0	-100	0
EI - Methyl Bromide (MB)	0.0	2,517.0	-100	-11.6	12,489.4	-100	0
Subtotal - Summation excludes Annex F	-5,113.79	721,371.80	-100	-8,833.83	559,818.70	-100	0
F - Hydrofluorocarbons (HFCs)	368,974	103,536,063	-99.64	50,860,730	215,913,482	-76.44	51,3680

**Annex Vlb- Production and consumption of controlled substances - comparison of 2024 with baseline:
Summary by geographical region of Parties (ODP/CO2-eq tonnes).**

Key

- AI - Annex A, Group I (CFCs). Base for Article 5 parties is the average of 1995, 1996 and 1997. Base for non-Article 5 Parties is 1986.
 AII - Annex A, Group II (Halons). Base for Article 5 parties is the average of 1995, 1996 and 1997. Base for non-Article 5 Parties is 1986.
 BI - Annex B, Group I (Other Halogenated CFCs). Base for Article 5 parties = average of 1998, 1999 and 2000. Base for non-Article 5 Parties is 1989.
 BII - Annex B, Group II (Carbon Tetrachloride). Base for Article 5 parties is the average of 1998, 1999 and 2000. Base for non-Article 5 Parties is 1989.
 BIII - Annex B, Group III (Methyl Chloroform). Base for Article 5 parties is the average of 1998, 1999 and 2000. Base for non-Article 5 Parties is 1989.
 CI - Annex C, Group I (HCFCs). Base for Article 5 parties is the average of 2009 and 2010. Base consumption for non-Article 5 Parties is 1989 consumption of HCFCs plus 2.8% of 1989 consumption of CFCs. Base production for non-Article 5 Parties is Average of 1989 HCFC production + 2.8% of 1989 CFC production and 1989 HCFC consumption + 2.8% of 1989 CFC consumption.
 CII - Annex C, Group II (HBFCs). Phase-out requirement was from 1996.
 CIII - Annex C, Group III (Bromochloromethane). Phase-out requirement was from 2002.
 EI - Annex E, Group I (Methyl Bromide). Base for Article 5 parties is the average of 1995, 1996, 1997 and 1998. Base for non-Article 5 Parties is 1991.
 F - Annex F Hydrofluorocarbons (HFCs). Base for Article 5 Group 1 parties is the average HFC for 2020–2022 + 65% of HCFC baseline. Base for Article 5 parties- Group 2 is the average HFC for 2024-2026 + 65% of HCFC baseline. Base for non-Article 5 parties is the average HFC for 2011-2013 + 15% (25% for Belarus, Kazakhstan, the Russian Federation, Tajikistan and Uzbekistan) of HCFC baseline.

	PRODUCTION*			CONSUMPTION*			
	2024	Base	% Chng	2024	Base	% Chng	Per Cap. Cons.
Africa - 54 (Population**: 1,496,125)							
AI - Chlorofluorocarbons (CFCs)	0.0	542.3	-100	0.0	14,653.2	-100	0
AII - Halons	0.0	0.0	-100	0.0	2,324.5	-100	0
BI - Other Fully Halogenated CFCs	0.0	0.0	-100	0.0	2.0	-100	0
BII - Carbon Tetrachloride (CTC)	0.0	0.0	-100	0.0	317.7	-100	0
BIII - Methyl Chloroform (TCA)	0.0	0.0	-100	0.0	79.7	-100	0
CI - Hydrochlorofluorocarbons (HCFCs)	0.00	0.00	-100	682.99	2,183.81	-68.72	0.0005
CII - Hydrobromofluorocarbons (HBFCs)	0.0	0.0	-100	0.0	0.0	-100	0
CIII - Bromochloromethane (BCM)	0.0	0.0	-100	0.0	0.0	-100	0
EI - Methyl Bromide (MB)	0.0	0.0	-100	0.0	2,683.5	-100	0
Subtotal - Summation excludes Annex F	0.00	542.30	-100	682.99	22,244.41	-96.93	0.0005
F - Hydrofluorocarbons (HFCs)	0	0	-100	89,847,800	123,077,466	-27.00	60.0537
Asia-Pacific - 57 (Population**: 4,660,490)							
AI - Chlorofluorocarbons (CFCs)	-20.9	199,239.4	-100	-17.7	236,509.3	-100	0
AII - Halons	0.0	73,378.8	-100	0.0	61,571.4	-100	0
BI - Other Fully Halogenated CFCs	0.0	2,368.7	-100	0.0	2,372.7	-100	0
BII - Carbon Tetrachloride (CTC)	103.0	65,504.6	-99.84	103.1	138,497.6	-99.93	0.0000
BIII - Methyl Chloroform (TCA)	0.0	15,756.9	-100	0.0	18,849.0	-100	0
CI - Hydrochlorofluorocarbons (HCFCs)	13,068.92	37,660.50	-65.30	11,224.01	34,976.82	-67.91	0.0024
CII - Hydrobromofluorocarbons (HBFCs)	0.0	0.0	-100	0.0	0.0	-100	0
CIII - Bromochloromethane (BCM)	0.0	0.0	-100	0.0	0.0	-100	0
EI - Methyl Bromide (MB)	0.0	4,182.4	-100	0.0	6,147.5	-100	0
Subtotal - Summation excludes Annex F	13,151.02	398,091.30	-96.70	11,309.41	498,924.32	-97.73	0.0024
F - Hydrofluorocarbons (HFCs)	1,364,793,246	1,915,688,503	-28.76	1,024,874,404	1,248,469,735	-17.91	219.9070
Eastern Europe - 22 (Population**: 326,784)							
AI - Chlorofluorocarbons (CFCs)	-42.6	107,273.6	-100	0.0	146,080.3	-100	0
AII - Halons	0.0	27,800.0	-100	0.0	39,185.2	-100	0
BI - Other Fully Halogenated CFCs	0.0	300.0	-100	0.0	343.5	-100	0
BII - Carbon Tetrachloride (CTC)	-1.6	124,414.0	-100	0.0	111,256.9	-100	0
BIII - Methyl Chloroform (TCA)	0.0	357.2	-100	0.0	731.9	-100	0
CI - Hydrochlorofluorocarbons (HCFCs)	2.98	4,714.30	-99.94	13.37	5,261.70	-99.75	0.0000
CII - Hydrobromofluorocarbons (HBFCs)	0.0	0.0	-100	0.0	0.0	-100	0
CIII - Bromochloromethane (BCM)	-0.1	0.0	-100	0.0	0.0	-100	0
EI - Methyl Bromide (MB)	0.0	0.0	-100	0.0	330.4	-100	0
Subtotal - Summation excludes Annex F	-41.32	264,859.10	-100	13.37	303,189.90	-100.00	0.0000
F - Hydrofluorocarbons (HFCs)	559,904	16,302,785	-96.57	51,959,914	60,930,015	-14.72	159.0038
Latin America and the Caribbean - 33 (Population**: 656,264)							
AI - Chlorofluorocarbons (CFCs)	0.0	28,756.7	-100	0.0	30,647.7	-100	0
AII - Halons	0.0	0.0	-100	0.0	570.0	-100	0
BI - Other Fully Halogenated CFCs	0.0	0.0	-100	0.0	36.1	-100	0
BII - Carbon Tetrachloride (CTC)	0.0	11,629.6	-100	0.0	1,823.1	-100	0
BIII - Methyl Chloroform (TCA)	0.0	32.4	-100	0.0	174.1	-100	0
CI - Hydrochlorofluorocarbons (HCFCs)	276.28	1,044.70	-73.55	988.79	3,732.89	-73.51	0.0015
CII - Hydrobromofluorocarbons (HBFCs)	0.0	0.0	-100	0.0	0.0	-100	0
CIII - Bromochloromethane (BCM)	0.0	0.0	-100	0.0	0.0	-100	0
EI - Methyl Bromide (MB)	0.0	0.0	-100	0.0	3,834.5	-100	0
Subtotal - Summation excludes Annex F	276.28	41,463.40	-99.33	988.79	40,818.39	-97.58	0.0015
F - Hydrofluorocarbons (HFCs)	-1,430	22,343,370	-100	133,766,892	218,798,264	-38.86	203.8309
Western Europe and Others - 31 (Population**: 1,449,340)							
AI - Chlorofluorocarbons (CFCs)	-945.2	788,956.6	-100	-987.8	1,044,423.1	-100	0
AII - Halons	-404.7	129,949.0	-100	-404.7	182,720.3	-100	0
BI - Other Fully Halogenated CFCs	-55.4	676.0	-100	-55.4	735.5	-100	0
BII - Carbon Tetrachloride (CTC)	-1,385.2	188,622.5	-100	-922.9	151,034.1	-100	0
BIII - Methyl Chloroform (TCA)	-36.6	53,524.1	-100	-36.6	57,141.3	-100	0
CI - Hydrochlorofluorocarbons (HCFCs)	-67.56	30,755.20	-100	-65.52	38,445.37	-100	0
CII - Hydrobromofluorocarbons (HBFCs)	0.0	0.0	-100	-0.5	0.0	-100	0
CIII - Bromochloromethane (BCM)	0.5	0.0	-100	0.4	0.0	-100	0.0000
EI - Methyl Bromide (MB)	75.7	36,225.0	-99.79	70.2	33,696.7	-99.79	0.0000
Subtotal - Summation excludes Annex F	-2,818.46	1,228,708.40	-100	-2,402.82	1,508,196.37	-100	0
F - Hydrofluorocarbons (HFCs)	126,932,283	485,811,380	-73.87	248,650,273	558,072,791	-55.44	171.5610

**Annex VIIa- Production, import and export of controlled substances - comparison of 2025 with baseline:
Summary for All Parties (ODP/CO2-eq tonnes).**

Key

- AI - Annex A, Group I (CFCs). Base for Article 5 parties is the average of 1995, 1996 and 1997. Base for non-Article 5 Parties is 1986.
 AII - Annex A, Group II (Halon). Base for Article 5 parties is the average of 1995, 1996 and 1997. Base for non-Article 5 Parties is 1986.
 BI - Annex B, Group I (Other Halogenated CFCs). Base for Article 5 parties = average of 1998, 1999 and 2000. Base for non-Article 5 Parties is 1989.
 BII - Annex B, Group II (Carbon Tetrachloride). Base for Article 5 parties is the average of 1998, 1999 and 2000. Base for non-Article 5 Parties is 1989.
 BIII - Annex B, Group III (Methyl Chloroform). Base for Article 5 parties is the average of 1998, 1999 and 2000. Base for non-Article 5 Parties is 1989.
 CI - Annex C, Group I (HCFCs). Base for Article 5 parties is the average of 2009 and 2010. Base consumption for non-Article 5 Parties is 1989 consumption of HCFCs plus 2.8% of 1989 consumption of CFCs. Base production for non-Article 5 Parties is Average of 1989 HCFC production + 2.8% of 1989 CFC production and 1989 HCFC consumption + 2.8% of 1989 CFC consumption.
 CII - Annex C, Group II (HBFCs). Phase-out requirement was from 1996.
 CIII - Annex C, Group III (Bromochloromethane). Phase-out requirement was from 2002.
 EI - Annex E, Group I (Methyl Bromide). Base for Article 5 parties is the average of 1995, 1996, 1997 and 1998. Base for non-Article 5 Parties is 1991.
 F - Annex F Hydrofluorocarbons (HFCs). Base for Article 5 Group 1 parties is the average HFC for 2020–2022 + 65% of HCFC baseline. Base for Article 5 parties- Group 2 is the average HFC for 2024–2026 + 65% of HCFC baseline. Base for non-Article 5 parties is the average HFC for 2011–2013 + 15% (25% for Belarus, Kazakhstan, the Russian Federation, Tajikistan and Uzbekistan) of HCFC baseline.

	PRODUCTION*			IMPORTS*	EXPORTS*
	2025	Base	% Chng	2025	2025
All Parties - 137 (Population**: 4,106,059)					
AI - Chlorofluorocarbons (CFCs)	-227.0	729,718.9	-100	40.1	0.0
AII - Halons	-22.0	127,412.0	-100	2,399.3	0.0
BI - Other Fully Halogenated CFCs	0.0	2,741.0	-100	0.0	0.0
BII - Carbon Tetrachloride (CTC)	-4,870.5	276,353.4	-100	1,106.5	58,297.1
BIII - Methyl Chloroform (TCA)	0.0	38,005.9	-100	0.0	0.0
CI - Hydrochlorofluorocarbons (HCFCs)	128.14	26,168.70	-99.51	3,570.49	1,103.97
CII - Hydrobromofluorocarbons (HBFCs)	0.0		-100	0.7	0.0
CIII - Bromochloromethane (BCM)	0.0		-100	154.2	27.4
EI - Methyl Bromide (MB)	0.0	5,893.1	-100	1,489.3	29.7
<i>Subtotal - Summation excludes Annex F</i>	<i>-4,991.36</i>	<i>1,206,293.00</i>	<i>-100</i>	<i>8,760.54</i>	<i>59,458.12</i>
F - Hydrofluorocarbons (HFCs)	19,929,814	189,405,976	-89.48	426,262,214	60,707,910
Article 5 Parties - 104 (Population**: 2,773,066)					
AI - Chlorofluorocarbons (CFCs)	0.0	24,512.1	-100	0.0	0.0
AII - Halons	0.0	0.0	-100	0.0	0.0
BI - Other Fully Halogenated CFCs	0.0	0.0	-100	0.0	0.0
BII - Carbon Tetrachloride (CTC)	0.0	11,629.6	-100	0.0	0.0
BIII - Methyl Chloroform (TCA)	0.0	32.4	-100	0.0	0.0
CI - Hydrochlorofluorocarbons (HCFCs)	131.25	921.60	-85.76	2,021.88	83.99
CII - Hydrobromofluorocarbons (HBFCs)	0.0		-100	0.0	0.0
CIII - Bromochloromethane (BCM)	0.0		-100	71.1	0.0
EI - Methyl Bromide (MB)	0.0	0.0	-100	1,037.1	2.3
<i>Subtotal - Summation excludes Annex F</i>	<i>131.25</i>	<i>37,095.70</i>	<i>-99.65</i>	<i>3,130.09</i>	<i>86.24</i>
F - Hydrofluorocarbons (HFCs)	420,658	19,711,628	-100	295,907,393	13,953,820
Non-Article 5 Parties - 33 (Population**: 1,332,993)					
AI - Chlorofluorocarbons (CFCs)	-227.0	705,206.8	-100	40.1	0.0
AII - Halons	-22.0	127,412.0	-100	2,399.3	0.0
BI - Other Fully Halogenated CFCs	0.0	2,741.0	-100	0.0	0.0
BII - Carbon Tetrachloride (CTC)	-4,870.5	264,723.8	-100	1,106.5	58,297.1
BIII - Methyl Chloroform (TCA)	0.0	37,973.5	-100	0.0	0.0
CI - Hydrochlorofluorocarbons (HCFCs)	-3.11	25,247.10	-100	1,548.61	1,019.98
CII - Hydrobromofluorocarbons (HBFCs)	0.0		-100	0.7	0.0
CIII - Bromochloromethane (BCM)	0.0		-100	83.1	27.4
EI - Methyl Bromide (MB)	0.0	5,893.1	-100	452.1	27.4
<i>Subtotal - Summation excludes Annex F</i>	<i>-5,122.61</i>	<i>1,169,197.30</i>	<i>-100</i>	<i>5,630.45</i>	<i>59,371.89</i>
F - Hydrofluorocarbons (HFCs)	20,350,472	169,694,348	-88.01	130,354,821	46,754,090

**Annex VIIb- Production, import and export of controlled substances - comparison of 2024 with baseline:
Summary for All Parties (ODP/CO2-eq tonnes).**

Key

- AI - Annex A, Group I (CFCs). Base for Article 5 parties is the average of 1995, 1996 and 1997. Base for non-Article 5 Parties is 1986.
 AII - Annex A, Group II (Halon). Base for Article 5 parties is the average of 1995, 1996 and 1997. Base for non-Article 5 Parties is 1986.
 BI - Annex B, Group I (Other Halogenated CFCs). Base for Article 5 parties = average of 1998, 1999 and 2000. Base for non-Article 5 Parties is 1989.
 BII - Annex B, Group II (Carbon Tetrachloride). Base for Article 5 parties is the average of 1998, 1999 and 2000. Base for non-Article 5 Parties is 1989.
 BIII - Annex B, Group III (Methyl Chloroform). Base for Article 5 parties is the average of 1998, 1999 and 2000. Base for non-Article 5 Parties is 1989.
 CI - Annex C, Group I (HCFCs). Base for Article 5 parties is the average of 2009 and 2010. Base production for non-Article 5 Parties is Average of 1989 HCFC production + 2.8% of 1989 CFC production and 1989 HCFC consumption + 2.8% of 1989 CFC consumption.
 CII - Annex C, Group II (HBFCs). Phase-out requirement was from 1996.
 CIII - Annex C, Group III (Bromochloromethane). Phase-out requirement was from 2002.
 EI - Annex E, Group I (Methyl Bromide). Base for Article 5 parties is the average of 1995, 1996, 1997 and 1998. Base for non-Article 5 Parties is 1991.
 F - Annex F Hydrofluorocarbons (HFCs). Base for Article 5 Group 1 parties is the average HFC for 2020–2022 + 65% of HCFC baseline. Base for Article 5 parties- Group 2 is the average HFC for 2024-2026 + 65% of HCFC baseline. Base for non-Article 5 parties is the average HFC for 2011-2013 + 15% (25% for Belarus, Kazakhstan, the Russian Federation, Tajikistan and Uzbekistan) of HCFC baseline.

	PRODUCTION*			IMPORTS*	EXPORTS*
	2024	Base	% Chng	2024	2024
All Parties - 197 (Population**: 8,589,003)					
AI - Chlorofluorocarbons (CFCs)	-1,008.7	1,124,768.6	-100	23.2	22.4
AII - Halons	-404.7	231,127.8	-100	1,801.3	3,000.6
BI - Other Fully Halogenated CFCs	-55.4	3,344.7	-100	0.0	0.0
BII - Carbon Tetrachloride (CTC)	-1,283.8	390,170.7	-100	26,336.6	50,332.3
BIII - Methyl Chloroform (TCA)	-36.6	69,670.6	-100	0.0	0.0
CI - Hydrochlorofluorocarbons (HCFCs)	13,280.62	74,174.70	-82.10	6,719.40	7,996.69
CII - Hydrobromofluorocarbons (HBFCs)	0.0		-100	1.3	1.6
CIII - Bromochloromethane (BCM)	0.4			139.8	130.3
EI - Methyl Bromide (MB)	75.7	40,407.4	-99.81	2,426.2	2,982.9
Subtotal - Summation excludes Annex F	10,567.52	1,933,664.50	-99.45	37,447.79	64,466.79
F - Hydrofluorocarbons (HFCs)	1,492,284.003	2,440,146.038	-38.84	918,304.689	858,510.008
Article 5 Parties - 146 (Population**: 6,724,476)					
AI - Chlorofluorocarbons (CFCs)	-20.9	108,540.6	-100	3.2	22.4
AII - Halons	0.0	44,959.8	-100	0.0	3,000.6
BI - Other Fully Halogenated CFCs	0.0	26.7	-100	0.0	0.0
BII - Carbon Tetrachloride (CTC)	96.1	57,532.2	-99.83	0.1	1,650.8
BIII - Methyl Chloroform (TCA)	0.0	152.9	-100	0.0	0.0
CI - Hydrochlorofluorocarbons (HCFCs)	13,345.20	32,988.90	-59.55	5,112.62	7,192.33
CII - Hydrobromofluorocarbons (HBFCs)	0.0		-100	0.9	0.2
CIII - Bromochloromethane (BCM)	0.0		-100	58.8	0.0
EI - Methyl Bromide (MB)	0.0	806.3	-100	1,878.4	1,452.4
Subtotal - Summation excludes Annex F	13,420.40	245,007.40	-94.52	7,054.00	13,318.76
F - Hydrofluorocarbons (HFCs)	1,346,701.889	1,887,966.058	-28.67	677,571.295	774,368.355
Non-Article 5 Parties - 51 (Population**: 1,864,527)					
AI - Chlorofluorocarbons (CFCs)	-987.8	1,016,228.0	-100	20.0	0.0
AII - Halons	-404.7	186,168.0	-100	1,801.3	0.0
BI - Other Fully Halogenated CFCs	-55.4	3,318.0	-100	0.0	0.0
BII - Carbon Tetrachloride (CTC)	-1,379.9	332,638.5	-100	26,336.5	48,681.5
BIII - Methyl Chloroform (TCA)	-36.6	69,517.7	-100	0.0	0.0
CI - Hydrochlorofluorocarbons (HCFCs)	-64.58	41,185.80	-100	1,606.78	804.36
CII - Hydrobromofluorocarbons (HBFCs)	0.0		-100	0.4	1.3
CIII - Bromochloromethane (BCM)	0.4			81.0	130.3
EI - Methyl Bromide (MB)	75.7	39,601.1	-99.81	547.8	1,530.5
Subtotal - Summation excludes Annex F	-2,852.88	1,688,657.10	-100	30,393.79	51,148.03
F - Hydrofluorocarbons (HFCs)	145,582.114	552,179.980	-73.64	240,733.395	84,141.653

**Annex VIIIa- Import and Export of New and Recovered controlled substances in 2025:
Summary for All Parties (ODP/CO2-eq tonnes).**

	IMPORTS*		EXPORTS*	
	New	Recovered	New	Recovered
All Parties - 137 (Population**: 4,106,059)				
AI - Chlorofluorocarbons (CFCs)	40.1	44.8	0.0	19.7
AII - Halons	2,399.3	391.7	0.0	442.6
BI - Other Fully Halogenated CFCs	0.0	0.0	0.0	0.0
BII - Carbon Tetrachloride (CTC)	1,106.5	0.0	58,297.1	0.0
BIII - Methyl Chloroform (TCA)	0.0	0.0	0.0	0.0
CI - Hydrochlorofluorocarbons (HCFCs)	3,570.49	1.02	1,103.97	18.24
CII - Hydrobromofluorocarbons (HBFCs)	0.7	0.0	0.0	0.0
CIII - Bromochloromethane (BCM)	154.2	0.0	27.4	0.0
EI - Methyl Bromide (MB)	1,489.3	0.0	29.7	0.0
<i>Subtotal - Summation excludes Annex F</i>	<i>8,760.54</i>	<i>437.49</i>	<i>59,458.12</i>	<i>480.50</i>
F - Hydrofluorocarbons (HFCs)	426,262.214	1,969,856	60,707.910	2,006,546
Article 5 Parties - 104 (Population**: 2,773,066)				
AI - Chlorofluorocarbons (CFCs)	0.0	0.0	0.0	0.0
AII - Halons	0.0	106.9	0.0	70.0
BI - Other Fully Halogenated CFCs	0.0	0.0	0.0	0.0
BII - Carbon Tetrachloride (CTC)	0.0	0.0	0.0	0.0
BIII - Methyl Chloroform (TCA)	0.0	0.0	0.0	0.0
CI - Hydrochlorofluorocarbons (HCFCs)	2,021.88	0.44	83.99	0.00
CII - Hydrobromofluorocarbons (HBFCs)	0.0	0.0	0.0	0.0
CIII - Bromochloromethane (BCM)	71.1	0.0	0.0	0.0
EI - Methyl Bromide (MB)	1,037.1	0.0	2.3	0.0
<i>Subtotal - Summation excludes Annex F</i>	<i>3,130.09</i>	<i>107.31</i>	<i>86.24</i>	<i>70.00</i>
F - Hydrofluorocarbons (HFCs)	295,907.393	683,756	13,953.820	12,824
Non-Article 5 Parties - 33 (Population**: 1,332,993)				
AI - Chlorofluorocarbons (CFCs)	40.1	44.8	0.0	19.7
AII - Halons	2,399.3	284.8	0.0	372.6
BI - Other Fully Halogenated CFCs	0.0	0.0	0.0	0.0
BII - Carbon Tetrachloride (CTC)	1,106.5	0.0	58,297.1	0.0
BIII - Methyl Chloroform (TCA)	0.0	0.0	0.0	0.0
CI - Hydrochlorofluorocarbons (HCFCs)	1,548.61	0.58	1,019.98	18.24
CII - Hydrobromofluorocarbons (HBFCs)	0.7	0.0	0.0	0.0
CIII - Bromochloromethane (BCM)	83.1	0.0	27.4	0.0
EI - Methyl Bromide (MB)	452.1	0.0	27.4	0.0
<i>Subtotal - Summation excludes Annex F</i>	<i>5,630.45</i>	<i>330.18</i>	<i>59,371.89</i>	<i>410.49</i>
F - Hydrofluorocarbons (HFCs)	130,354.821	1,286,100	46,754.090	1,993,723

**Annex VIIIb- Import and Export of New and Recovered controlled substances in 2024:
Summary for All Parties (ODP/CO2-eq tonnes).**

Key

- AI - Annex A, Group I (CFCs). Base for Article 5 parties is the average of 1995, 1996 and 1997. Base for non-Article 5 Parties is 1986.
- AII - Annex A, Group II (Halon). Base for Article 5 parties is the average of 1995, 1996 and 1997. Base for non-Article 5 Parties is 1986.
- BI - Annex B, Group I (Other Halogenated CFCs). Base for Article 5 parties = average of 1998, 1999 and 2000. Base for non-Article 5 Parties is 1989.
- BII - Annex B, Group II (Carbon Tetrachloride). Base for Article 5 parties is the average of 1998, 1999 and 2000. Base for non-Article 5 Parties is 1989.
- BIII - Annex B, Group III (Methyl Chloroform). Base for Article 5 parties is the average of 1998, 1999 and 2000. Base for non-Article 5 Parties is 1989.
- CI - Annex C, Group I (HCFCs). Base for Article 5 parties is the average of 2009 and 2010. Base consumption for non-Article 5 Parties is 1989 consumption of HCFCs plus 2.8% of 1989 consumption of CFCs. Base production for non-Article 5 Parties is Average of 1989 HCFC production + 2.8% of 1989 CFC production and 1989 HCFC consumption + 2.8% of 1989 CFC consumption.
- CII - Annex C, Group II (HBFCs). Phase-out requirement was from 1996.
- CIII - Annex C, Group III (Bromochloromethane). Phase-out requirement was from 2002.
- EI - Annex E, Group I (Methyl Bromide). Base for Article 5 parties is the average of 1995, 1996, 1997 and 1998. Base for non-Article 5 Parties is 1991.
- F - Annex F Hydrofluorocarbons (HFCs). Base for Article 5 Group 1 parties is the average HFC for 2020–2022 + 65% of HCFC baseline. Base for Article 5 parties- Group 2 is the average HFC for 2024-2026 + 65% of HCFC baseline. Base for non-Article 5 parties is the average HFC for 2011-2013 + 15% (25% for Belarus, Kazakhstan, the Russian Federation, Tajikistan and Uzbekistan) of HCFC baseline.

	IMPORTS*		EXPORTS*	
	New	Recovered	New	Recovered
All Parties - 197 (Population**: 8,589,003)				
AI - Chlorofluorocarbons (CFCs)	23.2	87.5	22.4	18.3
AII - Halons	1,801.3	1,849.3	3,000.6	1,479.2
BI - Other Fully Halogenated CFCs	0.0	0.0	0.0	0.0
BII - Carbon Tetrachloride (CTC)	26,336.6	0.0	50,332.3	0.0
BIII - Methyl Chloroform (TCA)	0.0	0.0	0.0	0.0
CI - Hydrochlorofluorocarbons (HCFCs)	6,719.40	14.19	7,996.69	34.43
CII - Hydrobromofluorocarbons (HBFCs)	1.3	0.0	1.6	0.0
CIII - Bromochloromethane (BCM)	139.8	0.0	130.3	0.0
EI - Methyl Bromide (MB)	2,426.2	0.0	2,982.9	0.0
Subtotal - Summation excludes Annex F	37,447.79	1,951.02	64,466.79	1,531.88
F - Hydrofluorocarbons (HFCs)	918,304.689	1,356,472	858,510.008	2,158,267
Article 5 Parties - 146 (Population**: 6,724,476)				
AI - Chlorofluorocarbons (CFCs)	3.2	0.0	22.4	0.0
AII - Halons	0.0	362.0	3,000.6	167.1
BI - Other Fully Halogenated CFCs	0.0	0.0	0.0	0.0
BII - Carbon Tetrachloride (CTC)	0.1	0.0	1,650.8	0.0
BIII - Methyl Chloroform (TCA)	0.0	0.0	0.0	0.0
CI - Hydrochlorofluorocarbons (HCFCs)	5,112.62	4.23	7,192.33	4.73
CII - Hydrobromofluorocarbons (HBFCs)	0.9	0.0	0.2	0.0
CIII - Bromochloromethane (BCM)	58.8	0.0	0.0	0.0
EI - Methyl Bromide (MB)	1,878.4	0.0	1,452.4	0.0
Subtotal - Summation excludes Annex F	7,054.00	366.18	13,318.76	171.83
F - Hydrofluorocarbons (HFCs)	677,571.295	148,373	774,368.355	0
Non-Article 5 Parties - 51 (Population**: 1,864,527)				
AI - Chlorofluorocarbons (CFCs)	20.0	87.5	0.0	18.3
AII - Halons	1,801.3	1,487.4	0.0	1,312.1
BI - Other Fully Halogenated CFCs	0.0	0.0	0.0	0.0
BII - Carbon Tetrachloride (CTC)	26,336.5	0.0	48,681.5	0.0
BIII - Methyl Chloroform (TCA)	0.0	0.0	0.0	0.0
CI - Hydrochlorofluorocarbons (HCFCs)	1,606.78	9.96	804.36	29.70
CII - Hydrobromofluorocarbons (HBFCs)	0.4	0.0	1.3	0.0
CIII - Bromochloromethane (BCM)	81.0	0.0	130.3	0.0
EI - Methyl Bromide (MB)	547.8	0.0	1,530.5	0.0
Subtotal - Summation excludes Annex F	30,393.79	1,584.84	51,148.03	1,360.05
F - Hydrofluorocarbons (HFCs)	240,733.395	1,208,099	84,141.653	2,158,267

Annex IXa - Recovered ODSs Imported and Exported by the Parties in 2025 (tonnes)

Substance Name	Annex Group	Recovered Import	Recovered Export
Article 5 Parties			
<u>Albania</u>			
HCFC-22	CI	8.01640	
HFC-125	F	69.02719	1.43880
HFC-134a	F	179.34652	0.13080
HFC-143a	F	35.05952	1.70040
HFC-32	F	42.89777	
Sub-total 2025 Albania		334.34740	3.27000
<u>Brazil</u>			
HALON-1211	AII	3.18000	0.00100
HALON-1301	AII	8.59800	
Sub-total 2025 Brazil		11.77800	0.00100
<u>Colombia</u>			
HALON-1301	AII		7.00000
<u>Niue</u>			
HFC-134a	F	0.01400	
HFC-32	F	0.00500	
Sub-total 2025 Niue		0.01900	
<u>Philippines</u>			
HALON-1211	AII	0.05600	
HALON-1301	AII	0.96800	
Sub-total 2025 Philippines		1.02400	
<u>Trinidad and Tobago</u>			
HALON-1301	AII	0.15000	
Sub-total 2025 Article 5 Parties		347.31840	10.27100
Non-Article 5 Parties			
<u>Australia</u>			
CFC-115	AI	0.02000	
HALON-1301	AII	0.00550	
HCFC-123**	CI	0.34400	
HCFC-124**	CI	0.63800	
HCFC-141B	CI	0.63800	
HCFC-142B	CI	0.02300	
HCFC-22	CI	5.03300	
HFC-125	F	9.38000	
HFC-134a	F	7.71100	
HFC-143a	F	4.35700	
HFC-32	F	6.48500	
Sub-total 2025 Australia		34.63450	
<u>Canada</u>			
CFC-11	AI	0.00090	13.82763
CFC-113	AI	0.00000	0.18396
CFC-115	AI	0.00003	1.15886
CFC-12	AI	0.00021	3.67507
HCFC-123**	CI		17.79724
HCFC-124**	CI		0.83229
HCFC-141B	CI	0.00178	27.35000
HCFC-142B	CI		0.43592
HCFC-21	CI		0.40440
HCFC-22	CI	0.00053	44.46858
HFC-125	F	6.73204	57.76115
HFC-134a	F	0.61215	35.33539
HFC-143a	F	7.95601	11.62234
HFC-152a	F		0.11636
HFC-23	F		1.22875
HFC-245fa	F	0.00034	5.16400
HFC-32	F	0.00004	38.21680
Sub-total 2025 Canada		15.30400	259.57873
<u>European Union</u>			
CFC-11	AI	7.15100	
CFC-12	AI	37.61800	
HALON-1211	AII	6.02100	15.78600
HALON-1301	AII	15.07700	27.77800
HALON-2402	AII	2.14600	0.16800
HCFC-141B	CI	0.28100	
HCFC-22	CI	3.20700	107.76000
HFC-125	F	4.13300	
HFC-134a	F	7.88500	
HFC-143a	F	0.20200	

HFC-32	F	13.14200	
Sub-total 2025 European Union		96.86300	151.49200
<u>Japan</u>			
HCFC-123**	CI		10.18200
HCFC-22	CI		31.53259
HFC-125	F	257.96250	315.26493
HFC-134a	F		33.04370
HFC-143a	F		7.24168
HFC-32	F	257.96250	307.67372
Sub-total 2025 Japan		515.92500	704.93860
<u>New Zealand</u>			
CFC-115	AI		0.02000
CFC-12	AI		0.05000
HALON-1301	AII		0.00113
HCFC-123**	CI		0.34425
HCFC-124**	CI		0.64260
HCFC-141B	CI		20.63788
HCFC-142B	CI		0.00593
HCFC-22	CI		5.15000
HFC-125	F	1.77560	11.04030
HFC-134a	F	25.22960	9.78824
HFC-143a	F	0.38480	5.97417
HFC-152a	F		0.01215
HFC-227ea	F		0.02782
HFC-32	F	1.45000	5.55254
Sub-total 2025 New Zealand		28.84000	59.24701
<u>Norway</u>			
CFC-115	AI		0.16060
CFC-12	AI		1.18216
CFC-13	BI		0.01230
HALON-1211	AII	0.11801	0.00424
HALON-1301	AII	0.03939	0.02685
HFC-125	F	0.07744	23.61800
HFC-134a	F	0.00704	17.26800
HFC-143a	F	0.09152	7.17000
HFC-152a	F	1.60000	0.02100
HFC-227ea	F		3.34800
HFC-23	F		0.00400
HFC-32	F		18.35300
Sub-total 2025 Norway		1.93340	71.16815
<u>United Kingdom of Great Britain and Northern Ireland</u>			
HALON-1211	AII	8.06200	4.31700
HALON-1301	AII	7.81200	3.31700
HCFC-22	CI		34.99000
HFC-227ea	F		0.99800
Sub-total 2025 United Kingdom of Great Britain and Northern Ireland		15.87400	43.62200
Sub-total 2025 Non-Article 5 Parties		709.37390	1,290.04649
Total 2025 All Parties		1,056.69230	1,300.31749

Annex IXb - Recovered ODSs Imported and Exported by the Parties in 2024 (tonnes)

Substance Name	Annex Group	Recovered Import	Recovered Export
Article 5 Parties			
<u>Albania</u>			
HFC-125	F	21.45375	
HFC-134a	F	6.75740	
HFC-143a	F	12.99500	
HFC-32	F	8.19885	
Sub-total 2024 Albania		49.40500	
<u>Brazil</u>			
HALON-1211	AII	3.20200	0.00000
HALON-1301	AII	10.58300	0.54000
Sub-total 2024 Brazil		13.78500	0.54000
<u>China</u>			
HALON-1301	AII		0.01000
HCFC-22	CI		10.74000
Sub-total 2024 China			10.75000
<u>India</u>			
HALON-1211	AII	19.51200	2.20000
HALON-1301	AII	14.41600	
Sub-total 2024 India		33.92800	2.20000
<u>Philippines</u>			
HALON-1211	AII	0.20641	
HALON-1301	AII	2.90000	
Sub-total 2024 Philippines		3.10641	
<u>Republic of Korea</u>			
HALON-1301	AII		15.50000
<u>Singapore</u>			
HALON-1301	AII	1.36000	
HCFC-123**	CI		8.00000
HCFC-22	CI	76.89000	72.32000
Sub-total 2024 Singapore		78.25000	80.32000
<u>Trinidad and Tobago</u>			
HALON-1301	AII	0.06000	
Sub-total 2024 Article 5 Parties		178.53441	109.31000
Non-Article 5 Parties			
<u>Australia</u>			
CFC-115	AI	0.12700	
CFC-12	AI	2.30000	
HCFC-22	CI	4.55700	
HFC-125	F	17.41800	
HFC-134a	F	9.11400	
HFC-152a	F	2.81100	
HFC-32	F	5.40900	
Sub-total 2024 Australia		41.73600	
<u>Canada</u>			
CFC-11	AI	0.00080	8.33293
CFC-113	AI	0.00000	0.41564
CFC-114	AI		0.18848
CFC-115	AI	0.00002	1.94127
CFC-12	AI	0.00037	5.14157
HCFC-123**	CI	0.00001	2.11896
HCFC-124**	CI		1.32915
HCFC-141B	CI	0.00166	16.45000
HCFC-142B	CI		0.40757
HCFC-22	CI	0.00097	65.39588
HFC-125	F	0.00004	39.57081
HFC-134a	F	0.00015	30.37673
HFC-143a	F	0.00001	8.29690
HFC-152a	F		0.26865
HFC-245fa	F	0.00063	6.24000
HFC-32	F	0.00004	27.41168
Sub-total 2024 Canada		0.00468	213.88622
<u>European Union</u>			
CFC-11	AI	0.13700	
CFC-115	AI	0.08000	
CFC-12	AI	42.78200	
HALON-1211	AII	4.31200	33.84400
HALON-1301	AII	28.82900	24.61600

HALON-2402	All	0.25100	
HCFC-123**	Cl	0.02500	
HCFC-124**	Cl	0.07400	
HCFC-141B	Cl	0.00900	
HCFC-142B	Cl	0.01500	
HCFC-22	Cl	6.55100	86.04000
HFC-125	F	5.84020	
HFC-134a	F	1.89300	
HFC-143a	F	0.28200	
HFC-32	F	28.60500	
Sub-total 2024 European Union		119.68520	144.50000
Holy See			
HFC-125	F	0.00500	
HFC-143a	F	0.00500	
Sub-total 2024 Holy See		0.01000	
Israel			
HALON-1301	All	2.83400	
HCFC-22	Cl	67.75200	
Sub-total 2024 Israel		70.58600	
Japan			
HCFC-123**	Cl		24.11143
HCFC-133	Cl		0.00000
HCFC-22	Cl		335.49189
HFC-125	F	40.40500	369.63810
HFC-134a	F		0.56760
HFC-143a	F		7.37880
HFC-32	F	40.40500	363.39450
Sub-total 2024 Japan		80.81000	1,100.58232
Liechtenstein			
HFC-125	F	0.02399	0.00899
HFC-134a	F	0.00090	0.06473
HFC-143a	F	0.01118	0.00094
HFC-23	F	0.00160	
HFC-32	F	0.01320	0.00754
Sub-total 2024 Liechtenstein		0.05086	0.08220
New Zealand			
CFC-115	Al		0.06000
CFC-12	Al		1.16000
HCFC-124**	Cl		0.02000
HCFC-22	Cl		3.41000
HFC-125	F	3.88500	17.17648
HFC-134a	F	10.04000	8.19314
HFC-143a	F		8.02970
HFC-152a	F		0.02000
HFC-32	F	3.88500	6.19513
Sub-total 2024 New Zealand		17.81000	44.26445
Norway			
CFC-113	Al		0.00800
CFC-115	Al		0.08400
CFC-12	Al		1.84900
HALON-1211	All	0.05200	2.10100
HALON-1301	All	0.02600	2.79600
HALON-2402	All		0.15300
HCFC-124**	Cl		0.05200
HCFC-142B	Cl		0.00400
HCFC-22	Cl		6.13500
HFC-125	F		21.52100
HFC-134a	F		7.83000
HFC-143a	F		17.90600
HFC-152a	F		0.02400
HFC-227ea	F		4.83300
HFC-23	F		0.01600
HFC-32	F		17.15300
Sub-total 2024 Norway		0.07800	82.46500
Switzerland			
HALON-1301	All		5.36110
HFC-125	F	4.77538	1.79054
HFC-134a	F	0.17896	12.86905
HFC-143a	F	2.22609	0.18937
HFC-23	F	0.31144	
HFC-32	F	2.62680	1.49988
Sub-total 2024 Switzerland		10.11867	21.70995
United Kingdom of Great Britain and Northern Ireland			
CFC-11	Al	0.00472	

HALON-1211	All	6.78600	6.50800
HALON-1301	All	30.86100	18.59400
HCFC-22	CI	0.90000	
HFC-227ea	F	1.55000	
HFC-245fa	F	0.02100	
Sub-total 2024 United Kingdom of Great Britain and Northern Ireland		40.12272	25.10200
United States of America			
CFC-11	AI	28.24000	
CFC-113	AI	0.37000	
CFC-114	AI	0.18000	
CFC-115	AI	1.81000	
CFC-12	AI	12.36000	
HALON-1211	All	0.07000	2.28000
HALON-1301	All	82.67000	66.33000
HCFC-123**	CI	34.12000	
HCFC-124**	CI	1.32000	
HCFC-141B	CI	11.50000	
HCFC-142B	CI	0.41000	
HCFC-22	CI	64.83000	
HFC-125	F	184.75000	1.29000
HFC-134a	F	29.96000	
HFC-143a	F	8.07000	
HFC-152a	F	0.25000	
HFC-23	F	0.02000	0.21000
HFC-236fa	F		0.06000
HFC-245fa	F	5.87000	
HFC-32	F	172.86000	1.09000
Sub-total 2024 United States of America		639.66000	71.26000
Sub-total 2024 Non-Article 5 Parties		1,020.67213	1,703.85214
Total 2024 All Parties		1,199.20654	1,813.16214

Annex Xa: Reported consumption of controlled substances for laboratory uses (tonnes)

Annex Year	2010 tonnes	2011 tonnes	2012 tonnes	2013 tonnes	2014 tonnes	2015 tonnes	2016 tonnes	2017 tonnes	2018 tonnes	2019 tonnes	2020 tonnes	2021 tonnes	2022 tonnes	2023 tonnes	2024 tonnes
AI	35.15292	15.953325	13.549821	8.94287	11.524559	7.469573	3.924015	3.106801	0.127489	0.022396	0.149502	0.018795	0.001977	0.027382	4.014546
AII	0.20003	0.006	0.02	0.014	0.006	0.02	0.031	0.0502	8.50E-05	0.012028	0.000106		0.0001		4.00E-09
BI	0.002		0.002	0.01	6.00E-10	0.01			4.00E-07	0.002	0.002		3.00E-09	0.00021	6.00E-09
BII	313.97645	260.83713	204.48278	222.06573	214.4778	138.49987	151.75994	159.30528	165.56942	157.46634	124.22182	139.10196	107.27187	107.15251	95.99289
BIII	0.024044	0.021004	0.003008	0.378	0.001011	0.002013	0.003022	0.00302	0.054026	0.118037	0.190038	0.000275	4.36E-05	4.24E-05	2.95E-05
CI	0.00752	0.00805	0.00425	0.74841	0.059251	0.056209	0.019013	0.00228	0.012	0.015037	0.069031	0.027153	9.281858	0.176155	0.00099
CII	0.001		0.001	0.024	0.005	0.022	0.011	0.2018	0.003	0.002	0.011	0.001115	0.000101	3.08E-05	9.40E-07
CIII		0.001	0.00299	0.006974	0.00198	0.002994	0.006956	0.003001	0.013111	0.01393	0.043008	0.003983	0.001093	0.000005	0.00101
EI	0.000201	0.017	0.00335	0.00796	0.01831	0.0239	0.00835	0.00428	0.104	0.34666	0.07927	0.00521	0.065282	0.025642	0.020306
F												0.0085	0.01	0.02	0.058003
Total	349.36416	276.84351	218.06920	232.19794	226.09391	146.10656	155.76330	162.67667	165.88313	157.99842	124.76577	139.16699	116.63232	107.40198	100.08778

NB: Consumption for laboratory uses is the sum of production for laboratory uses within the producing party and imports for laboratory uses within the importing party

Annex Xb: Reported production of controlled substances for laboratory uses (tonnes)

Annex Year	2010 tonnes	2011 tonnes	2012 tonnes	2013 tonnes	2014 tonnes	2015 tonnes	2016 tonnes	2017 tonnes	2018 tonnes	2019 tonnes	2020 tonnes	2021 tonnes	2022 tonnes	2023 tonnes	2024 tonnes
AI	11.2			4.415	1.755	3.438		2.975							
AII				0.002	0.005	0.02	0.03			0.012					
BI				0.01		0.01								0.00021	
BII	311.6903	257.74	202.7	219.645	213.15	137.3	150.9	158.9	165	156.87	123.59	138.59	106.63	106.55	95.67
BIII				0.001											
CI				0.727	0.056	0.02							0.00021		0.000426
CII				0.022	0.005	0.02									
EI	0.0002			0.00351	0.01506	0.021	0.005			0.33066	0.02327	0.0052	0.06527	0.02564	0.020301
F													0.01	0.02	0.058
Total	322.8905	257.74	202.7	224.8255	214.9861	140.829	150.935	161.875	165	157.2127	123.6133	138.5952	106.7055	106.5959	95.74873

NB: Production for laboratory uses is for use within the producing party and therefore contributes to the total consumption by that party.

Annex XI: Consolidated record of cases of excess production or consumption attributable to stockpiling in accordance with decisions XVIII/17 and XXII/20 – Last updated August 2026

<i>Year</i>	<i>Party</i>	<i>Annex group</i>	<i>Deviation due to stockpiling ODP-tonnes</i>	<i>Expected use for the stockpile resulting in deviation</i>
2025	Netherlands	B/II	1.6	Destruction: Unintentional by-production
2024	European Union	B/II	4.6	Destruction: Unintentional by-production
	France	B/II	3.8	Destruction: Unintentional by-production
	Israel	C/III	4.1	Stockpiled to be destroyed in a future year (scenario (b) of decisions XVIII/17 and XXII/20)
		EI	79.8	Stockpiled to be exported or used for feedstock in a future year (scenario (a) of decisions XVIII/17 and XXII/20)
	Spain	B/III	0.8	Stockpiled to be destroyed in a future year (scenario (a) of decisions XVIII/17 and XXII/20)
2023	European Union	B/II	2 058.6	Destruction: Unintentional by-production
		B/III	0.6	Destruction: Unintentional by-production
	Israel	C/III	3.5	Domestic feedstock use or export for feedstock in future years
	France	B/II	46.4	Destruction: Unintentional by-production
	Germany	C/III	0.2	Destruction: Unintentional by-production
	Spain	B/III	0.8	Destruction: Unintentional by-production
2022	European Union	B/III	0.2	Destruction: Unintentional by-production
	Israel	C/III	3.9	Export for feedstock in future years
		EI	76.7	Export for feedstock or QPS uses in future years
	Spain	B/III	0.6	Destruction: Unintentional by-production
	United Kingdom	A/I	2.7	Destruction: Unintentional by-production
2021	Belgium	B/II	1.9	Destruction: Unintentional by-production
	European Union	B/II	2,446.3	Destruction: Unintentional by-production
	France	B/II	170.9	Export for feedstock in future years and some unintentional by-production to be destroyed.
	Israel	C/III	5.3	Export for feedstock in future years
		E/I	247.4	Export for feedstock or QPS uses in future years
2020	Belgium	B/II	157.2	Destruction: Unintentional by-production
	Germany	B/II	902.5	Destruction: Unintentional by-production
	Israel	C/III	1.7	Export for feedstock in future years
	Netherlands	B/II	913.4	Destruction: Unintentional by-production
	Spain	B/II	255.6	Destruction: Unintentional by-production
		B/III	0.6	
2019	Belgium	B/II	180.9	Destruction: Unintentional by-production
	European Union	B/II	1,008.7	Export for feedstock uses and destruction (unintentional by-production)
	Germany	B/II	2,702.9	Destruction: Unintentional by-production
	Netherlands	F	3,871,011	Destruction: Unintentional by-production
	Spain	B/II	327.6	Destruction: Unintentional by-production
		B/III	0.6	
2018	Germany	B/II	3,172.1	Destruction: Unintentional by-production
	Israel	C/III	16	Export for feedstock in future years
2017	Czech Republic	B/II	53.7	Destruction: Unintentional by-production
	Israel	E/I	70.3	Feedstock uses or for export for feedstock
	Russian Federation	A/I	4	Feedstock use in future years (used in 2018)
2016	Israel	E/I	245.2	Feedstock uses or for export for feedstock
	USA	C/II	0.7	Destruction
		E/I	18.2	Exports for Critical Uses
2015	Czech Republic	B/II	78.0	Destruction: Unintentional by-production
	European Union	B/II	91.0	Destruction: Unintentional by-production
2014	France	B/II	29.6	Destruction: Unintentional by-production
	Israel	C/III	17.3	Export for feedstock in future years
2013	European Union	C/II	0.2	Feedstock use in future years
	France	B/II	131.7	Destruction: Unintentional by-production.
	Israel	C/III	3.5	Export for feedstock in future years

<i>Year</i>	<i>Party</i>	<i>Annex group</i>	<i>Deviation due to stockpiling ODP-tonnes</i>	<i>Expected use for the stockpile resulting in deviation</i>
2025	Netherlands	B/II	1.6	Destruction: Unintentional by-production
2024	European Union	B/II	4.6	Destruction: Unintentional by-production
	France	B/II	3.8	Destruction: Unintentional by-production
	Israel	C/III	4.1	Stockpiled to be destroyed in a future year (scenario (b) of decisions XVIII/17 and XXII/20)
		EI	79.8	Stockpiled to be exported or used for feedstock in a future year (scenario (a) of decisions XVIII/17 and XXII/20)
	Spain	B/III	0.8	Stockpiled to be destroyed in a future year (scenario (a) of decisions XVIII/17 and XXII/20)
2023	European Union	B/II	2 058.6	Destruction: Unintentional by-production
		B/III	0.6	Destruction: Unintentional by-production
	Israel	C/III	3.5	Domestic feedstock use or export for feedstock in future years
	France	B/II	46.4	Destruction: Unintentional by-production
	Germany	C/III	0.2	Destruction: Unintentional by-production
	Spain	B/III	0.8	Destruction: Unintentional by-production
		E/I	659.5	Export for basic domestic needs of Article 5 parties - to be exported in 2014
	USA	E/I	15.4	Exports for Critical Uses
2012	European Union	B/II	1,075.3	Unintentional production - to be Destroyed in future years
			786.5	Production for feedstock - for export in future years.
	France	B/II	1,940.1	Destruction: Unintentional by-production.
	Israel	E/I	649.4	Export for basic domestic needs of Article 5 parties - to be exported in 2013
	United States of America	E/I	5.8	Exports for Critical Uses
2011	Germany	B/II	1,677.5	Destruction: Unintentional by-production.
	Israel	C/III	14	Export for feedstock – was exported in 2012
	United States of America	E/I	166.2	BDN 153.8 ODP-t and Export for critical uses 12.4 ODP t
2010	India	A/I	24.4	Destruction
	Israel	E/I	13.8	Feedstock
	United States of America	E/I	16.5	Export for critical uses - was exported in 2011
			445.9	Export for basic domestic needs of Article 5 parties
2009	Israel	E/I	284.2	Operational reserve. Was included in 2010 exports
	United Kingdom	C/II	1.2	Export for feedstock in future years
2008	European Union	C/II	0.4	Feedstock uses or for export for feedstock
		E/I	90.7	Exported in subsequent years.
2007	China	B/I	0.1	Export for basic domestic needs of Article 5 parties
	Romania	B/II	34.6	Destruction
	United Kingdom	B/II	1,901.9	Destruction/feedstock uses or for export for feedstock
	United States	C/II	2.7	Destruction
		E/I	17.5	Export for basic domestic needs of Article 5 parties
2006	Czech Republic	B/II	67.4	Destruction
	India	A/I	219.8	Export for basic domestic needs of Article 5 parties
	Spain	B/II	136.4	Destruction
	United Kingdom	B/II	2,214.3	Destruction or feedstock uses or for export for feedstock
	Venezuela (Bolivarian Republic of)	A/I	985.1	Export for basic domestic needs of Article 5 parties
2005	Venezuela (Bolivarian Republic of)	A/I	190.0	Feedstock uses or for export for feedstock
2004	Netherlands	B/I	2.0	Destruction
	United States	B/III	0.5	Export for basic domestic needs of Article 5 parties
		E/I	1,986.2	
2003	Czech Republic	B/II	94.6	Destruction
	Germany	A/I	118.8	Feedstock uses or for export for feedstock
	Russian Federation	B/II	40.4	Feedstock uses or for export for feedstock
	United States	B/III	1.6	Export for basic domestic needs of Article 5 parties
2002	Czech Republic	B/II	132.0	Destruction

<i>Year</i>	<i>Party</i>	<i>Annex group</i>	<i>Deviation due to stockpiling ODP-tonnes</i>	<i>Expected use for the stockpile resulting in deviation</i>
2025	Netherlands	B/II	1.6	Destruction: Unintentional by-production
2024	European Union	B/II	4.6	Destruction: Unintentional by-production
	France	B/II	3.8	Destruction: Unintentional by-production
	Israel	C/III	4.1	Stockpiled to be destroyed in a future year (scenario (b) of decisions XVIII/17 and XXII/20)
		EI	79.8	Stockpiled to be exported or used for feedstock in a future year (scenario (a) of decisions XVIII/17 and XXII/20)
	Spain	B/III	0.8	Stockpiled to be destroyed in a future year (scenario (a) of decisions XVIII/17 and XXII/20)
2023	European Union	B/II	2 058.6	Destruction: Unintentional by-production
		B/III	0.6	Destruction: Unintentional by-production
	Israel	C/III	3.5	Domestic feedstock use or export for feedstock in future years
	France	B/II	46.4	Destruction: Unintentional by-production
	Germany	C/III	0.2	Destruction: Unintentional by-production
	Spain	B/III	0.8	Destruction: Unintentional by-production
	Netherlands	B/I	3.0	Destruction or feedstock uses or for export for feedstock
2001	United States	B/II	812.9	Export for basic domestic needs of Article 5 parties
		B/III	3.5	
2000	France	B/II	426.8	Export for basic domestic needs of Article 5 parties
	United States	A/I	0.8	Export for basic domestic needs of Article 5 parties
		B/III	287.8	
1999	Germany	A/I	99.8	Feedstock uses or for export for feedstock
	United States	A/I	0.8	Export for basic domestic needs of Article 5 parties
		B/III	241.2	

Note:

- Some of these explanations were derived from the data reports submitted by the parties concerned in accordance with Article 7 of the Protocol and recorded in the annual data report of the Ozone Secretariat to the Meeting of the Parties.
- The quantities are rounded to one decimal place.

Annex XII: Reported production of phased-out substances (tonnes)

Year	Substances	Annex group	Number of parties reporting	Total production for all uses and for exports (tonnes)	Production for own feedstock uses (tonnes)	Production for own essential or critical uses (tonnes)	Exported for feedstock uses (tonnes)	Exported for essential or critical uses of other parties (tonnes)	Amounts destroyed by the producers (tonnes)	Production for quarantine and pre-shipment uses (tonnes)
2024	Chlorofluorocarbons (CFCs)	AI	6	179,037	178,988	-	3	-	395	
	Halons	AII	4	1,843	1,543	-	300	-	14	
	Carbon Tetrachloride (CTC)	BII	14	352,946	319,093	96	23,843	-	10,841	
	Methyl Chloroform (TCA)	BIII	3	46,781	46,667	-			480	
	Hydrobromofluorocarbons	CII	3	3	1	-	1	-		
	Bromochloromethane (BCM)	CIII	3	3,254	2,131	-	1,086	-	15	
	Methyl Bromide (MB)	EI	6	12,106	2,978	0	61	-	7	8,935
	TOTALS		15	595,970	551,401	96	25,294	-	11,751	8,935
2023	Chlorofluorocarbons (CFCs)	AI	5	222190	221632	0	402	0	241	
	Halons	AII	3	1866	1566	0	300	0	5	
	Other Fully Halogenated CFCs	BI	1	0		0				
	Carbon Tetrachloride (CTC)	BII	12	361968	326314	107	28075	0	9204	
	Methyl Chloroform (TCA)	BIII	3	52551	52482	0			381	
	Hydrobromofluorocarbons	CII	3	3	1	0	2	0		
	Bromochloromethane (BCM)	CIII	3	4430	3566	0	832	0	3	
	Methyl Bromide (MB)	EI	5	10581	2487	0	149	5	8	8026
	TOTALS		14	653,589	608,046	107	29,760	5	9,842	8,026
2022	Chlorofluorocarbons (CFCs)	AI	5	218076	216088	0	1844	0	222	
	Halons	AII	3	2387	2107	0	280	0	13	
	Carbon Tetrachloride (CTC)	BII	12	361856	328608	107	23167	0	11252	
	Methyl Chloroform (TCA)	BIII	3	81581	81400	0			371	
	Hydrobromofluorocarbons	CII	2	2	1	0	2	0		
	Bromochloromethane (BCM)	CIII	4	7909	6202	0	1671	0	3	
	Methyl Bromide (MB)	EI	5	11493	2390	0	96	15	9	8865
	TOTALS		14	683,305	636,796	107	27,059	15	11,870	8,865
2021	Chlorofluorocarbons (CFCs)	AI	4	219860	218005	0	1665	0	240	
	Halons	AII	3	1816	1636	0	180	0	0	
	Carbon Tetrachloride (CTC)	BII	12	335438	293334	139	33914	0	8473	
	Methyl Chloroform (TCA)	BIII	3	87136	86889	0			697	
	Hydrobromofluorocarbons	CII	3	3	1	0	2	0		
	Bromochloromethane (BCM)	CIII	3	5614	4609	0	960	0	1	
	Methyl Bromide (MB)	EI	5	13765	2267	0	337	16	50	10737
	TOTALS		13	663,632	606,742	139	37,058	16	9,461	10,737
2020	Chlorofluorocarbons (CFCs)	AI	4	188008	186349	0	1515	0	230	
	Halons	AII	3	1486	1266	0	220	0	2	
	Carbon Tetrachloride (CTC)	BII	12	299179	273346	124	16553	0	9320	
	Methyl Chloroform (TCA)	BIII	3	69558	69199	0			682	
	Hydrobromofluorocarbons	CII	3	3	2	0	2	0		
	Bromochloromethane (BCM)	CIII	3	4472	3657	0	801	0	2	
	Methyl Bromide (MB)	EI	5	13396	3061	0	236	26	19	10143
	TOTALS		13	576,102	536,880	124	19,327	26	10,254	10,143

Annex XIII: Reported Feedstock uses of controlled substances in tonnes

Annex Year	2010 tonnes	2011 tonnes	2012 tonnes	2013 tonnes	2014 tonnes	2015 tonnes	2016 tonnes	2017 tonnes	2018 tonnes	2019 tonnes	2020 tonnes	2021 tonnes	2022 tonnes	2023 tonnes	2024 tonnes
AI	214,079	187,219	222,143	182,925	170,770	87,337	155,897	200,947	175,144	154,198	187,639	219,240	218,374	222,074	179,008
AII	900	1,270	1,471	2,163	1,342	871	753	1,360	1,805	1,306	1,486	1,796	2,307	1,846	1,723
BI	24	0					0								
BII	178,968	194,620	192,642	188,872	214,483	213,893	221,554	255,371	281,112	316,397	288,935	319,792	357,987	348,609	343,035
BIII	116,723	110,926	101,521	107,259	105,323	85,122	93,036	86,244	103,832	83,817	69,199	86,889	81,400	52,482	46,667
CI	536,674	656,586	647,750	686,309	712,232	693,498	734,758	826,363	905,428	936,002	934,752	1,133,786	1,273,486	1,333,028	1,371,165
CII	29	72	78	66	112	129	126	63	2	4	4	2	3	18	3
CIII	1,638	1,354	1,174	1,272	1,292	1,415	1,965	1,985	1,690	1,581	4,250	5,094	7,079	4,413	3,296
EI	7,411	4,948	4,204	5,797	4,462	4,072	4,248	3,250	3,067	3,497	3,337	2,617	2,537	3,297	3,052
F		3,914	5,822	4,438					0	5,575	82,416	106,878	112,833	183,539	211,147
TOTAL	1,056,446	1,160,909	1,176,805	1,179,101	1,210,018	1,086,336	1,212,336	1,375,582	1,472,081	1,502,376	1,572,017	1,876,095	2,056,006	2,149,306	2,159,096

NB: Feedstock uses is the sum of production for feedstock uses within a party and imports for feedstock uses within the same party

Annex XIV: Number of Parties Reporting Feedstock uses of controlled substances

Annex\Year	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
AI	5	4	5	4	4	5	4	4	5	4	6	6	6	6	5
AII	3	4	4	3	3	2	2	4	4	4	4	4	4	3	3
BI	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0
BII	11	10	10	11	11	12	12	12	10	8	9	9	10	8	9
BIII	2	3	3	3	2	2	3	2	2	2	2	2	2	2	2
CI	13	13	12	14	15	14	14	12	11	11	12	13	12	13	15
CII	4	4	6	6	7	6	5	4	5	6	5	4	5	6	6
CIII	5	4	3	5	5	4	6	6	6	6	5	6	6	6	7
EI	8	8	8	10	6	8	6	5	6	6	6	5	5	6	7
F	0	3	3	3	0	0	0	0	1	2	4	5	4	6	8
TOTAL*	18	18	18	19	20	20	18	18	17	16	14	16	15	17	20

* TOTAL represents the number of **unique (different)** Parties reporting uses of all controlled substances for feedstock purposes.

Annex XV: Consumption of methyl bromide for quarantine and pre-shipment uses reported by Parties (in tonnes)

Party	2010 t	2011 t	2012 t	2013 t	2014 t	2015 t	2016 t	2017 t	2018 t	2019 t	2020 t	2021 t	2022 t	2023 t	2024 t
Argentina	31.0	39.0	59.4	124.9	69.1	40.4	43.1	40.2	40.4	39.3	43.0	44.0	44.8	25.1	57.1
Australia	471.9	689.5	675.5	617.9	488.5	864.3	708.5	897.8	682.0	793.8	695.1	641.2	723.9	433.6	706.1
Bahrain	4.9	4.9		1.0	4.0	0.5	8.3			7.5	13.7	11.4	13.1	1.8	12.5
Barbados			0.2							0.1				0.1	
Belize	0.1		0.1												
Brazil	132.1	84.4	74.2	89.2	73.0	56.5	70.6	28.4	83.7	74.2	100.6	87.5	55.5	97.8	108.2
Cameroon	21.0	23.0	23.0	35.0	20.0										
Canada	3.4	1.4	1.8	0.4	1.0	0.5		1.0	4.1	4.0	5.5	4.1	3.3	3.5	2.2
Chile	143.9	22.2	108.2	63.9	88.7	58.0	43.1	100.1	100.6	116.4	73.0	75.3	51.4	84.9	14.0
China	1,258.9	1,173.6	1,094.3	1,102.4	1,125.0	932.1	1,141.6	1,360.7	1,227.8	871.2	797.6	735.2	496.7	351.5	427.0
Costa Rica	4.0	5.0	4.9	7.5		1.7	9.9	40.0	40.0	34.7	11.0	17.5	7.8	7.0	18.2
Côte d'Ivoire	7.0			5.0		5.0									
Cuba	0.5	1.5													
Dominican Republic	25.2	25.7	29.4	30.0	20.7	30.0	18.0	19.7	22.0	18.0		15.0	15.0		
Egypt	309.0	205.0	439.0	238.0	226.0	278.0	315.0	470.0	360.0	230.0	152.0	268.0	286.0	224.0	256.0
El Salvador	106.8	164.6	109.5	189.3	157.2	200.2	139.6	227.7	65.8	192.9	171.4	193.0	198.7	255.1	74.8
Eswatini	0.3	0.4	0.2	0.2	0.2										
Ethiopia										11.9	20.9	12.9		12.9	
Fiji	12.8	15.0	16.3	11.9	13.8	24.7	12.8	10.8	16.5	17.9	15.9	12.8	19.6	8.2	20.0
Georgia	1.5	0.8													
Guatemala	16.0	46.9	37.0	24.0	47.7	46.5	20.0	24.3		10.0	10.0	23.0			21.0
Guyana									1.0						
Honduras	11.8	9.3	21.4	18.2	22.8	23.1	29.7	32.0	33.5	31.2	26.5	12.0	12.0	17.2	13.2
India	379.2	581.1	759.5	624.5	280.9	329.5	1,180.9	1,384.4	1,551.7	1,778.4	2,104.1	1,553.4	1,541.0	1,490.8	1,706.5
Indonesia	313.3	243.3	202.0	254.0	256.0	224.0	128.0	96.0	89.5	135.8	72.0	80.0	180.6	126.5	114.0
Iran (Islamic Republic of)	28.0	26.0	25.0	11.0	20.0	20.0	22.0	10.0	22.0	22.0	22.0	22.0	22.0		
Israel	8.5	12.0	10.4	13.2	14.0	12.0	10.4	10.6			8.4	9.1	10.0	11.9	12.1
Jamaica	2.0	1.5	2.0	2.0	2.0		1.3	3.0	6.0	3.3	4.2	4.8	4.8	4.8	
Japan	603.5	723.8	594.8	499.4	450.2	449.0	434.1	445.0	483.1	467.9	450.7	467.1	475.1	431.1	369.5
Jordan	12.0	12.0	12.0	10.0	12.0	12.0	12.0	10.0	8.0	8.0	8.0	8.0	7.0	7.0	
Kazakhstan				63.4	10.2										
Kenya	85.5	93.1		20.0	2.0	2.0	0.5	8.8			2.8	1.5			
Kiribati				0.1			0.0	0.1							
Kyrgyzstan		1.0	1.1	1.0		0.8									
Lebanon		50.4	50.0	33.4											
Malaysia		148.2	124.8	157.2	152.5	108.0	106.2	176.0	169.0	170.5	136.0	117.0	116.6	114.5	132.1
Mexico	453.1	519.7	502.0	502.8	505.7	497.2	494.3	501.5	339.9	270.4	239.4	424.1	259.8	342.7	421.3
Morocco	10.0	10.0	10.0	10.0	7.0	9.0	9.0		9.2	10.0	10.2	10.0	10.0	10.0	10.0
Mozambique	48.0	40.8	0.6												
Myanmar		149.0	121.2	80.0	80.0		14.0		36.0	25.0	55.0	26.0	45.0	50.0	68.0
New Zealand	406.4	469.1	564.7	565.2	519.9	522.0	591.7	585.9	664.4	672.8	617.6	857.2	6.2	36.3	26.7
Nicaragua	18.8	13.5	19.0	18.0	23.0	27.5	16.0	19.2	39.5	29.7	28.1	14.1	35.9	42.3	
Nigeria										4.5		10.0	12.5	15.0	45.0
Norway	0.0														
Oman		2.0													
Pakistan	24.0		24.0		40.0	67.7	102.2	178.0	458.5	224.0	224.0	368.0	560.5	468.5	600.0

Party	2010 t	2011 t	2012 t	2013 t	2014 t	2015 t	2016 t	2017 t	2018 t	2019 t	2020 t	2021 t	2022 t	2023 t	2024 t
Papua New Guinea	10.0	0.9		20.0	0.9	6.5		8.5		1.9			0.5	0.3	
Peru		0.4		4.0	3.3	2.5	4.0	2.0		2.0	5.6		3.0		1.0
Philippines	72.2	54.5	48.0	31.0	37.6	57.8	23.8	23.8	26.1	34.3	16.3	40.9	29.4	24.5	16.3
Qatar		3.0													
Republic of Korea	574.1	639.0	445.3	542.1	432.3	265.8	630.4	449.2	480.9	448.4	321.7	379.7	338.0	308.0	113.0
Samoa	0.3				1.0										
Saudi Arabia	15.0	18.0	15.0	12.0	15.0	15.0	15.0	12.0	10.0	10.0	15.0	15.0	15.0		
Singapore	52.3	130.1	100.2	86.1	85.4	74.3	38.7	66.4	43.4	42.2	92.8	109.6	56.0	42.9	44.0
Solomon Islands	1.4	1.4	1.2	1.0	1.5	1.0	1.0	0.5	1.0						
South Africa							59.6	16.4	48.1	79.2	32.0	48.0	44.1	3.1	44.6
Sri Lanka	24.0	25.3	33.0	37.4	34.0	31.6	21.8	28.3	39.5	27.2	33.2	35.4	38.2	36.6	56.7
Suriname								1.0	1.0	5.4	12.5				
Syrian Arab Republic	10.0	21.6										5.0	5.0	5.0	5.0
Tajikistan	1.4														
Thailand	466.8	342.5	320.2	156.1	122.7	194.7	157.4	188.1	188.1	156.1	156.1	164.1	157.7	189.4	234.8
Trinidad and Tobago	1.6	1.5	1.0	2.0	1.1	1.0	0.7								1.0
Türkiye	27.0	40.0	40.0	50.0	39.7	27.7	40.0	69.3	75.0	35.0	45.5	56.0	67.6	33.0	15.0
Turkmenistan	15.2		40.0		20.0		20.0					20.0			
Ukraine				16.0											
United Arab Emirates	54.7	59.2	57.5	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	40.0
United States of America	3,843.8	1,915.9	1,170.9	2,527.5	4,676.9	1,639.9	739.6	1,326.6	2,254.0	885.4	1,744.8	2,592.1	1,277.8	1,649.3	1,625.1
Uruguay	52.0	40.6	24.4	20.3	32.7	32.2	21.5	29.1	11.7	21.5	118.2	78.1	142.4	78.2	76.1
Uzbekistan	16.0							16.0		10.0	10.0	15.6	3.0	15.6	10.0
Vanuatu	0.8	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.6			0.6		
Viet Nam	761.0	796.0	838.0	849.7	839.7	937.4	851.2	937.3	907.6	915.5	775.1	845.2	431.5	870.0	484.9
Zimbabwe	2.0	1.0	1.0	1.0	2.0	1.0									
TOTAL (tonnes)	10,956.2	9,699.9	8,853.6	9,823.5	11,122.3	8,174.1	8,350.7	9,899.0	10,684.1	8,992.8	9,540.3	10,572.9	7,867.3	7,972.7	8,002.9
Total number of Parties	56	55	50	53	50	46	46	45	41	47	44	46	45	42	39

Annex XVI: Destruction of Controlled Substances Reported by Parties (in tonnes)

Party	2010 t	2011 t	2012 t	2013 t	2014 t	2015 t	2016 t	2017 t	2018 t	2019 t	2020 t	2021 t	2022 t	2023 t	2024 t
Australia	299.0	296.1	172.1	44.7	74.4	42.9	38.1	47.5	29.4	417.1	398.2	633.3	530.1	527.1	541.9
Belgium		67.1	31.5	39.1	28.9	62.8	4.6	3.7		1.2	1.4	218.6	212.1	113.5	163.2
Brazil	16.5														
Cameroon	6.0	8.0	11.0												
Canada															
China			11.2	10.8	18.5	17.8	12.5	168.1	16.0	101.2	68.1	10.2	10.8	7.4	18.1
Colombia					3.2	0.2	0.8								
Costa Rica					0.2			0.8	0.8	1.0	4.4	2.0	3.1	2.3	2.0
Cuba						0.5	0.5			0.1	1.3	0.2	0.1	0.5	0.0
Czechia	36.9	33.6	66.3	53.5	85.4	109.5	112.7	24.7	147.0	73.2	47.5	28.4	25.7	13.1	21.2
Denmark		100.3	101.2		149.0	145.0	95.2	113.0	88.6	99.4	20.5	29.8	56.9	37.5	27.3
Dominican Republic											14.1				
Ecuador			0.0						1.0	1.8	0.1		0.0	0.5	
Estonia			2.7		0.0	1.1	7.2	0.4	2.8	3.4	0.8	2.4	3.8	0.7	
Finland	92.0	100.5	47.6	58.5	47.6	56.2	44.7	31.5	32.0	103.5	56.0	18.6	21.4	6.3	25.1
France	3,681.3	3,483.0	1,539.8	2,583.9	4,948.6	6,197.4	4,518.4	3,517.2	7,258.1	6,483.4	4,057.6	2,029.2	1,939.5	2,056.4	2,329.8
Georgia					1.5										
Germany	3,372.1	478.8	508.1	726.1	842.8	607.5	998.7	900.5	933.3	1,519.3	1,925.5	1,642.4	1,940.6	1,522.4	3,582.4
Hungary	13.8	4.3	1.3	3.1	7.2	29.8	7.6	30.2	20.8	35.5	37.7	30.7	28.3	8.8	3.5
India			16.3	19.8		34.1					0.2	528.6	1,046.3	512.1	505.9
Israel															17.9
Italy		5.3	398.3	5.1			63.1	55.0	47.4	30.1	34.3	67.3	85.8	7.1	
Japan	2,555.6	2,587.7	2,610.9	2,530.3	2,460.4	2,644.3	2,502.4	2,159.0	1,900.2	4,822.7	449.9	495.2	698.5	687.6	645.6
Malaysia							4.9		1.5	0.7	2.2	0.1	1.4	6.6	5.7
Mexico					3.0	62.9	39.1						80.6	65.3	
Netherlands (Kingdom of the)	2.4	80.7	184.3	166.3	187.2	315.5	356.4	403.2	1,134.8	1,042.7	287.2	1,597.2	1,615.4	1,337.1	1,047.3
Nigeria									1.5						
Norway	0.4	1.2													
Poland	18.3	35.6	8.7	42.8	32.7	35.7	48.6	61.0	27.7	57.7	46.8	37.7	38.6	32.6	43.5
Republic of Korea	2,950.2	4,075.4	4,674.2	4,622.7	4,499.4	3,779.2	3,839.7	3,698.5	4,228.8	3,563.8	3,319.6	3,466.8	6,000.0	4,105.0	4,018.7
Romania	43.4	85.1	23.0	23.5	8.3	5.0	12.6	6.9	17.0	20.2	7.1	15.5	25.1		34.4
Russian Federation							230.0		0.3			200.0	467.0	509.6	463.1
Slovakia	1.4	2.6	2.6	2.4	2.4	4.8	1.6	2.3	2.3	3.3	5.9	5.4		1.6	0.2
Spain		1.0			1.4							290.7	202.9	330.6	292.1
Sweden	194.4	260.6	95.6	100.3	232.5	129.9	93.4	104.1	85.5	55.0	77.3	51.1	17.9	2.5	15.4
Switzerland												0.6			
Türkiye													1.8	3.3	2.5
United Kingdom of Great Britain and Northern Ireland		1,579.7	11.5	1,501.8	2,585.0	2,343.6	468.5	19.0	59.2	725.3	237.3	361.2	294.8	108.6	165.7
United States of America	4,442.6	4,206.9	4,002.4	2,455.7	2,213.6	2,104.4	2,433.1	2,581.2	2,477.5	3,713.8	2,743.8	2,717.2	2,439.0	3,816.4	4,107.8
Viet Nam							0.1								3.5
TOTAL (t)	17,726.2	17,493.4	14,520.6	14,990.5	18,433.3	18,729.9	15,934.7	13,928.0	18,513.6	22,875.3	13,844.9	14,480.3	17,787.2	15,822.3	18,083.7
Total Number of Parties	17	21	23	19	24	23	26	21	24	24	26	27	28	28	27.0
European Union	9,863.4	6,261.1	3,290.7	5,982.4	9,165.2	10,107.4	7,753.3	5,748.9	9,056.3	9,992.4	6,843.0	6,057.4	6,223.5	5,492.2	7,591.6

* Data reported by the European Union is included in order to fill possible gaps in reporting by the member States.

NB: Amounts of destroyed substances that do not have precise specification of the controlled substances contained therein have been excluded from the summations in the table.