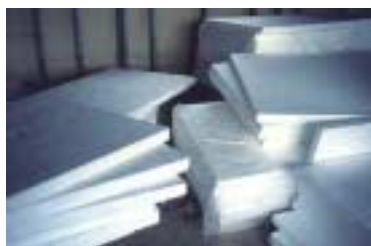


INFORMATION PAPER



The Montreal Protocol Control Schedule and its Evolution

UNEP DTIE OZONACTION PROGRAMME
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Technology, Industry and Economics

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UPDATES

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INTRODUCTION

Science and Technology-based Evolution

The Montreal Protocol on Substances that Deplete the Ozone Layer is based on the “precautionary” approach that enables the world community to take actions to address a major global environmental problem even before all scientific, economic and technical questions have been fully resolved. To reflect this preventative approach, the Parties to the Protocol have agreed a procedure for the treaty itself to evolve over time to reflect the latest findings on the state of the ozone layer, science of ozone layer depletion and the progress of development and implementation of alternative technologies. This evolutionary feature is the regular and comprehensive assessment of the control measures adopted under the Montreal Protocol.

The legal basis for this assessment process is Article 6 of the Montreal Protocol, which states that “Beginning in 1990, and at least every four years thereafter, the Parties shall assess the control measures provided for in Article 2 and Article 2A to 2I on the basis of available scientific, environmental, technical and economic information”.

To undertake these regular assessments, the Parties established three international panels of experts and/or scientists from industries, research academies, governments and non-governmental organisations: The Scientific Assessment Panel, the Environmental Effects Assessment Panel, and the Technology and Economic Assessment Panel.

In the dynamic history of the Montreal Protocol, four Amendments and five Adjustments have been agreed to ensure that the Protocol continues to reflect the improved scientific and technical understanding.

Why this Information Paper?

Any one interested in knowing the evolving schedules of the Montreal Protocol National (e.g. Ozone Units, government policy makers, industry decision-makers, technical managers) will find this paper a useful reference.

This information paper will show the date and meeting when each Amendment and/or Adjustment was agreed, and the date when each Amendment and/or Adjustment came into force.

Furthermore, it will provide users with an evolution table for each group of the controlled substances that are indicated in the Annexes of the Montreal Protocol.

- Adjustments are changes to the Protocol with regard to the phase-out timetable for existing controlled substances. Such changes enter into force automatically and all Parties are bound by them.
- Amendments are other more significant changes to the Protocol, such as adding new substances to the list of controlled substances, or new obligations. Parties are not bound by these changes to the Protocol unless and until they ratify the Amendment. Amendments have to be ratified in the chronological they were agreed.

THE OZONE TREATIES AND THEIR EFFECTIVE DATES

| Treaty | Meeting when treaty was agreed ¹ | | Effective dates (Entry into force) |
|-----------------------|--|---|------------------------------------|
| | Title | Venue, date | |
| Vienna Convention | High-level diplomatic meeting ² | Vienna 22 March 1985 | 22 September 1988 |
| Montreal Protocol | High-level diplomatic meeting ³ | Montreal, 14-16 September 1987 | 1 January 1989 |
| London Adjustment | Second Meeting of the Parties to the Montreal Protocol | London, 27-29 June 1990 | 7 March 1991 |
| London Amendment | | | 10 August 1992 |
| Copenhagen Adjustment | Fourth Meeting of the Parties to the Montreal Protocol | Copenhagen, 23-25 November 1992 | 23 September 1993 |
| Copenhagen Amendment | | | 14 June 1994 |
| Vienna Adjustment | Seventh Meeting of the Parties to the Montreal Protocol | Vienna, 5-7 December 1995 | 5 August 1996 |
| Montreal Adjustment | Ninth Meeting of the Parties to the Montreal Protocol | Montreal, 15-17 September 1997 | 4 June 1998 |
| Montreal Amendment | | | 10 November 1999 |
| Beijing Adjustment | Eleventh Meeting of the Parties to the Montreal Protocol | Beijing, 29 November- 3 December 1999 | 28 July 2000 |
| Beijing Amendment | | | 25 February 2002 |

¹ Not every meeting resulted in an Amendment or Adjustment, which explains why this list is not sequential. For a complete list of the Meeting of Parties, see Page 17.

² Conference of Plenipotentiaries on the Protection of the Ozone Layer (1985)

³ Conference of Plenipotentiaries on the Protocol on Chlorofluorocarbons to the Vienna Convention for the Protection of the Ozone Layer (14-16 September 1987, Montreal).

CONTROL MEASURES FOR COUNTRIES THAT OPERATE UNDER ARTICLE 5 OF THE MONTREAL PROTOCOL

Reflecting decisions of the Parties up to and including their 13th Meeting (Colombo, Sri Lanka, 16-19 October 2001)

| Year beginning and thereafter ¹ | Control Measures | Applicable to | |
|--|---|--------------------------|-------------------------|
| | | Consumption ² | Production ³ |
| 1996 | HBFCs ⁴ phased out ⁵ | • | • |
| 1999 | Freeze of Annex A CFCs ⁶ at 1995-97 average level ⁷ | • | • |
| 2002 | Freeze of halons ⁸ at 1995-97 average level ⁷ Freeze of methyl bromide ⁹ at 1995-1998 average level Bromochloromethane phased out ⁵ | • | • |
| 2003 | Annex B CFCs ¹⁰ reduced by 20% from 1998-2000 average consumption ⁷ Freeze of methyl chloroform at 1998-2000 average level | • | • |
| 2005 | Annex A CFCs reduced by 50% from 1995-97 average level ⁷ Halons reduced by 50% from 1995-97 average level ⁷ Carbon tetrachloride reduced by 85% from 1998-2000 average level ⁷ Methyl chloroform reduced by 30% from 1998-2000 average level ⁷ Methyl Bromide reduced by 20% from 1995-1998 average level | • | • |
| 2007 | Annex A CFCs reduced by 85% from 1995-1997 average level ⁷ Annex B CFCs reduced by 85% from 1998-2000 average level ⁷ | • | • |
| 2010 | Annex A and Annex B CFCs, halons and carbon tetrachloride phased out ^{5,7} Methyl chloroform reduced by 70% from 1998-2000 average level ⁷ | • | • |
| 2015 | Methyl chloroform ⁷ and methyl bromide phased out ⁵ | • | • |
| 2016 | Freeze HCFCs ¹¹ at the base line figure of year 2015 average level | • | |
| | Freeze HCFC production at the average of 2015 HCFC consumption and 2015 HCFC production ⁷ | | • |
| 2040 | HCFCs phased out | • | |

1. The effective date for every year is 1 January, except 1999, which is 1 July. 2. The Protocol defines "consumption" as production + imports - exports of controlled substances. 3. The Protocol defines "production" as the amount of controlled substance produced - [amount destroyed + used a feedstock in the manufacture of other chemicals]. 4. 34 hydrobromofluorocarbons; 5. With possible essential use exemptions. 6. Annex A CFCs 11, 12, 113, 114, 115; 7. With an allowance for production to meet the basic domestic needs of Article 5 Parties. Please see the Montreal Protocol for detail. 8. Halons 1211, 1301, 2402 9. Amounts used for quarantine and preshipment applications exempted. 10. Annex B: CFCs 13,111, 112, 211, 212, 213, 214, 215, 216, 217. 11. 40 hydrochlorofluorocarbons

CONTROL MEASURES FOR COUNTRIES THAT DO NOT OPERATE UNDER ARTICLE 5 OF THE MONTREAL PROTOCOL

*Reflecting decisions of the Parties up to and including their 11th Meeting
(Colombo, Sri Lanka, 16-19 October 2001)*

| Year beginning and thereafter ¹ | Control Measures | Applicable to | |
|--|--|--------------------------|-------------------------|
| | | Consumption ² | Production ³ |
| 1989 | Freeze of Annex A CFCs ⁴ at 1986 level ⁵ | • | • |
| 1992 | Freeze of halons ⁶ at 1986 level ⁵ | • | • |
| 1993 | Annex B CFCs ⁷ reduced by 20% from 1989 level ⁵ Freeze of methyl chloroform at 1989 level ⁵ | • | • |
| 1994 | Annex A CFCs reduced by 75% from 1986 level ⁵ Halons phased out ^{5, 8} Annex B CFCs reduced by 75% from 1989 level ⁵ Methyl chloroform reduced by 50% from 1989 level ⁵ | • | • |
| 1995 | Freeze of methyl bromide ⁹ at 1991 level ⁵ Carbon tetrachloride reduced by 85% from 1989 level ⁵ | • | • |
| 1996 | Annex A and B CFCs phased out ^{5, 8} HBFCs ¹⁰ phased out ⁸ Carbon tetrachloride phased out ^{5, 8} Methyl chloroform phased out ^{5, 8} | • | • |
| | Freeze of HCFC ¹¹ consumption at 1989 levels of HCFC consumption + 2.8% of 1989 CFC consumption (base level) | • | |
| 1999 | Methyl bromide reduced by 25% from 1991 level ⁵ | • | • |
| 2001 | Methyl bromide reduced by 50% from 1991 level ⁵ | • | • |
| 2002 | Bromochloromethane phased out ⁸ | • | • |
| 2003 | Methyl bromide reduced by 70% from 1991 level ⁵ | • | • |
| 2004 | HCFC consumption reduced by 35% from base level | • | |
| | Freeze of HCFC production at the average of (a) 1989 HCFC consumption level + 2.8% of 1989 of the CFC consumption level (b) 1989 HCFC production level + 2.8% of 1989 of the CFC production level ⁵ | | • |
| 2005 | Methyl bromide phased out ^{5, 8} | • | • |
| 2010 | HCFCs reduced by 65% from base level | • | |
| 2015 | HCFCs reduced by 90% from base level | • | |
| 2020 | HCFCs reduced by 99.5% from base level | • | |
| 2030 | HCFCs phased out | • | |

1. The effective date for every year is 1 January, except 1989, which is 1 July. **2.** The Protocol defines "consumption" as production + imports - exports of controlled substances. **3.** The Protocol defines "production" as the amount of controlled substance produced - [amount destroyed + used a feedstock in the manufacture of other chemicals]. **4.** Annex A CFCs 11, 12, 113, 114, 115. **5.** With an allowance for production to meet the basic domestic needs of Article 5. Parties. Please see the Montreal Protocol for detail. **6.** Halons 1211, 1301, 2402. **7.** Annex B: CFCs 13,111, 112, 211, 212, 213, 214, 215, 216, 217. **8.** With possible essential use exemptions. **9.** Amounts used for quarantine and pre-shipment applications exempted. **10.** 34 hydrobromofluorocarbons; **11.** 40 hydrochlorofluorocarbons

HISTORY OF MODIFICATIONS TO THE CONTROL MEASURES

The following tables indicate the changes in the control measures (e.g. advances in phase out dates, addition of new ODS) for each of the categories of substances controlled under the Montreal Protocol.

Annex A Group I: Chlorofluorocarbons (CFC-11, CFC-12, CFC-113, CFC-114, CFC-115)

Article 5 Countries

| Meeting | Control Measure | | | | |
|---------------|-----------------|---------------|----------------|----------------|----------------|
| | Freeze | 20% Reduction | 50% Reduction | 85% Reduction | 100% Phase out |
| Signing of MP | 1 July 1999 | 1 July 2003 | 1 July 2008 | - | - |
| 2nd MOP | Unchanged | - | 1 January 2005 | 1 January 2007 | 1 January 2010 |
| 4th MOP | Unchanged | - | Unchanged | Unchanged | Unchanged |
| 7th MOP | Unchanged | - | Unchanged | Unchanged | Unchanged |
| 9th MOP | Unchanged | - | Unchanged | Unchanged | Unchanged |
| 11th MOP | Unchanged | - | Unchanged | Unchanged | Unchanged |

Non-Article 5 Countries

| Meeting | Control Measure | | | | | |
|---------------|-----------------|---------------|----------------|----------------|----------------|----------------|
| | Freeze | 20% Reduction | 50% Reduction | 75% Reduction | 85% Reduction | 100% Phase out |
| Signing of MP | 1 July 1989 | 1 July 1993 | 1 July 1998 | - | - | - |
| 2nd MOP | Unchanged | - | 1 January 1995 | - | 1 January 1997 | 1 January 2000 |
| 4th MOP | Unchanged | - | - | 1 January 1994 | - | 1 January 1996 |
| 7th MOP | Unchanged | - | - | Unchanged | - | Unchanged |
| 9th MOP | Unchanged | - | - | Unchanged | - | Unchanged |
| 11th MOP | Unchanged | - | - | Unchanged | - | Unchanged |

Annex A Group II: Halons (halon 1211, halon 1301, halon 2402)

Article 5 Countries

| Meeting | Control Measures | | |
|---------------|------------------|----------------|----------------|
| | Freeze | 50% Reduction | 100% Phase out |
| Signing of MP | 1 July 2002 | - | |
| 2nd MOP | Unchanged | 1 January 2005 | 1 January 2010 |
| 4th MOP | Unchanged | Unchanged | Unchanged |
| 7th MOP | Unchanged | Unchanged | Unchanged |
| 9th MOP | Unchanged | Unchanged | Unchanged |
| 11th MOP | Unchanged | Unchanged | Unchanged |

Non-Article 5 Countries

| Meeting | Control Measure | | |
|---------------|-----------------|----------------|----------------|
| | Freeze | 50% Reduction | 100% Phase out |
| Signing of MP | 1 July 1992 | - | |
| 2nd MOP | 1 January 1992 | 1 January 1995 | 1 January 2000 |
| 4th MOP | Unchanged | - | 1 January 1994 |
| 7th MOP | Unchanged | - | Unchanged |
| 9th MOP | Unchanged | - | Unchanged |
| 11th MOP | Unchanged | - | Unchanged |

THE MONTREAL PROTOCOL CONTROL SCHEDULE AND ITS EVOLUTION

Annex B Group I: Other fully halogenated CFCs (CFC-13, CFC-111, CFC-112, CFC-211, CFC-212, CFC-213, CFC-214, CFC-215, CFC-216, CFC-217)

Article-5 Countries

| Meeting | Control Measure | | |
|---------------|--|----------------|----------------|
| | 20% Reduction | 85% Reduction | 100% Phase out |
| Signing of MP | Substance not controlled under the Montreal Protocol | | |
| 2nd MOP | 1 July 2003 | 1 January 2007 | 1 January 2010 |
| 4th MOP | Unchanged | Unchanged | Unchanged |
| 7th MOP | Unchanged | Unchanged | Unchanged |
| 9th MOP | Unchanged | Unchanged | Unchanged |
| 11th MOP | Unchanged | Unchanged | Unchanged |

Non-Article-5 Countries

| Meeting | 20% Reduction | 75% Reduction | 85% Reduction | 100% Phase out |
|---------------|--|----------------|----------------|----------------|
| Signing of MP | Substance not controlled under the Montreal Protocol | | | |
| 2nd MOP | 1 July 1993 | - | 1 January 1997 | 1 January 2000 |
| 4th MOP | Unchanged | 1 January 1994 | - | 1 January 1996 |
| 7th MOP | Unchanged | Unchanged | - | Unchanged |
| 9th MOP | Unchanged | Unchanged | - | Unchanged |
| 11th MOP | Unchanged | Unchanged | - | Unchanged |

Annex B Group II: Carbon tetrachloride

Article 5 Countries

| Meeting | Control Measure | |
|---------------|---|----------------|
| | 85% Reduction | 100% Phase out |
| Signing of MP | Substance not controlled under the Montreal Protocol. | |
| 2nd MOP | 1 January 2005 | 1 January 2010 |
| 4th MOP | Unchanged | Unchanged |
| 7th MOP | Unchanged | Unchanged |
| 9th MOP | Unchanged | Unchanged |
| 11th MOP | Unchanged | Unchanged |

Non-Article 5 Countries

| Meeting | Control Measure | |
|---------------|---|----------------|
| | 85% Reduction | 100% Phase out |
| Signing of MP | Substance not controlled under the Montreal Protocol. | |
| 2nd MOP | 1 January 1995 | 1 January 2000 |
| 4th MOP | Unchanged | 1 January 1996 |
| 7th MOP | Unchanged | Unchanged |
| 9th MOP | Unchanged | Unchanged |
| 11th MOP | Unchanged | Unchanged |

Annex B Group III: 1,1,1-trichloroethane (methyl chloroform)

Article 5 Countries

| Meeting | Control Measure | | | |
|---------------|---|----------------|----------------|----------------|
| | Freeze | 30% Reduction | 70% Reduction | 100% Phase out |
| Signing of MP | Substance not controlled under the Montreal Protocol. | | | |
| 2nd MOP | 1 January 2003 | 1 January 2005 | 1 January 2010 | 1 January 2015 |
| 4th MOP | Unchanged | Unchanged | Unchanged | Unchanged |
| 7th MOP | Unchanged | Unchanged | Unchanged | Unchanged |
| 9th MOP | Unchanged | Unchanged | Unchanged | Unchanged |
| 11th MOP | Unchanged | Unchanged | Unchanged | Unchanged |

Non-Article 5 Countries

| Meeting | Control Measure | | | | |
|---------------|---|----------------|----------------|----------------|----------------|
| | Freeze | 30% Reduction | 50% Reduction | 70% Reduction | 100% Phase out |
| Signing of MP | Substance not controlled under the Montreal Protocol. | | | | |
| 2nd MOP | 1 January 1993 | 1 January 1995 | - | 1 January 2000 | 1 January 2005 |
| 4th MOP | Unchanged | - | 1 January 1994 | - | 1 January 1996 |
| 7th MOP | Unchanged | - | Unchanged | - | Unchanged |
| 9th MOP | Unchanged | - | Unchanged | - | Unchanged |
| 11th MOP | Unchanged | - | Unchanged | - | Unchanged |

Annex C Group I: HCFCs

Article 5 Countries

| Meeting | Control measures on Consumption | | Control measures on Production |
|---------------|--|----------------|---|
| | Freeze | 100% Phase out | Freeze |
| Signing of MP | Substance not controlled under the Montreal Protocol | | |
| 2nd MOP | Substance not controlled under the Montreal Protocol | | |
| 4th MOP | Introduced, but control schedule was not decided. | | Substance not controlled under the Montreal Protocol. |
| 7th MOP | 1 January 2016 | 1 January 2040 | Substance not controlled under the Montreal Protocol. |
| 9th MOP | Unchanged | Unchanged | Substance not controlled under the Montreal Protocol. |
| 11th MOP | Unchanged | Unchanged | 1 January 2016 |

Non-Article 5 Countries

| Meeting | Control measures on Consumption | | | | | | Control measures on Production |
|---------------|---|----------------|----------------|----------------|-----------------------------|----------------|---------------------------------------|
| | Freeze | 35% Reduction | 65% Reduction | 90% Reduction | 99.5% Reduction | 100% Phase out | Freeze |
| Signing of MP | Substance not controlled under the Montreal Protocol | | | | | | |
| 2nd MOP | Substance not controlled under the Montreal Protocol. | | | | | | Unchanged |
| 4th MOP | 1 January 1996 | 1 January 2004 | 1 January 2010 | 1 January 2015 | 1 January 2020 | 1 January 2030 | Unchanged |
| 7th MOP | Unchanged | Unchanged | Unchanged | Unchanged | 1 January 2020 ⁴ | Unchanged | Unchanged |
| 9th MOP | Unchanged | Unchanged | Unchanged | Unchanged | Unchanged | Unchanged | Unchanged |
| 11th MOP | Unchanged | Unchanged | Unchanged | Unchanged | Unchanged | Unchanged | 1 January 2004 |

⁴ Restricted to the servicing tail.

Annex C Group II: HBFCs

Article 5 Countries

| Meeting | Control Measure |
|---------------|---|
| | 100% Phase out |
| Signing of MP | Substance not controlled under the Montreal Protocol. |
| 2nd MOP | Substance not controlled under the Montreal Protocol. |
| 4th MOP | Introduced, but phase out schedule was not decided |
| 7th MOP | 1 January 1996 |
| 9th MOP | Unchanged |
| 11th MOP | Unchanged |

Non-Article 5 Countries

| Meeting | Control Measure |
|---------------|---|
| | 100% Phase out |
| Signing of MP | Substance not controlled under the Montreal Protocol. |
| 2nd MOP | Substance not controlled under the Montreal Protocol. |
| 4th MOP | 1 January 1996 |
| 7th MOP | Unchanged |
| 9th MOP | Unchanged |
| 11th MOP | Unchanged |

Annex C Group III: Bromochloromethane

Article 5 Countries

| Meeting | Control Measure |
|---------------|---|
| | 100% Phase out |
| Signing of MP | Substance not controlled under the Montreal Protocol. |
| 2nd MOP | Substance not controlled under the Montreal Protocol. |
| 4th MOP | Substance not controlled under the Montreal Protocol. |
| 7th MOP | Substance not controlled under the Montreal Protocol. |
| 9th MOP | Substance not controlled under the Montreal Protocol. |
| 11th MOP | 1 January 2002 |

Non-Article 5 Countries

| Meeting | Control Measure |
|---------------|---|
| | 100% Phase out |
| Signing of MP | Substance not controlled under the Montreal Protocol. |
| 2nd MOP | Substance not controlled under the Montreal Protocol. |
| 4th MOP | Substance not controlled under the Montreal Protocol. |
| 7th MOP | Substance not controlled under the Montreal Protocol. |
| 9th MOP | Substance not controlled under the Montreal Protocol. |
| 11th MOP | 1 January 2002 |

Annex E: Methyl bromide

Article 5 Countries

| Meeting | Control Measure | | |
|---------------|--|----------------|----------------|
| | Freeze | 20% Reduction | 100% Phase out |
| Signing of MP | Substance not controlled under the Montreal Protocol | | |
| 2nd MOP | Substance not controlled under the Montreal Protocol | | |
| 4th MOP | Introduced, but phase out schedule was not decided | | |
| 7th MOP | 1 January 2002 | - | - |
| 9th MOP | Unchanged | 1 January 2005 | 1 January 2015 |
| 11th MOP | Unchanged | Unchanged | Unchanged |

Non-Article 5 countries

| Meeting | Control Measure | | | | |
|---------------|---|----------------|----------------|----------------|----------------|
| | Freeze | 25% Reduction | 50% Reduction | 70% Reduction | 100% Phase out |
| Signing of MP | Substance not controlled under the Montreal Protocol. | | | | |
| 2nd MOP | Substance not controlled under the Montreal Protocol. | | | | |
| 4th MOP | 1 January 1995 | - | - | - | - |
| 7th MOP | Unchanged | 1 January 2001 | 1 January 2005 | - | 1 January 2010 |
| 9th MOP | Unchanged | 1 January 1999 | 1 January 2001 | 1 January 2003 | 1 January 2005 |
| 11th MOP | Unchanged | Unchanged | Unchanged | Unchanged | Unchanged |

DATES AND VENUES OF MEETINGS OF PARTIES TO THE MONTREAL PROTOCOL

| Meeting | Date | Venue |
|----------------|-----------------------------|---------------------------|
| First | 2-5 May 1989 | Helsinki, Finland |
| Second | 27-29 June 1990 | London, United Kingdom |
| Third | 19-21 June 1991 | Nairobi, Kenya |
| Fourth | 23-25 November 1992 | Copenhagen, Denmark |
| Fifth | 17-19 November 1993 | Bangkok, Thailand |
| Sixth | 6-7 October 1994 | Nairobi, Kenya |
| Seventh | 5-7 December 1995 | Vienna, Austria |
| Eighth | 25-27 November 1996 | San Jose, Costa Rica |
| Ninth | 15-17 September 1997 | Montreal, Canada |
| Tenth | 23 - 24 November 1998 | Cairo, Egypt |
| Eleventh | 29 November-3 December 1999 | Beijing, China |
| Twelfth | 11-14 December 2000 | Ouagadougou, Burkina Faso |
| Thirteen | 16-19 October 2001 | Colombo, Sri Lanka |

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Nairobi)

The above documents are available on-line at www.unep.org/ozone