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**Open-ended Working Group of the Parties to
the Montreal Protocol on Substances that
Deplete the Ozone Layer
Thirtieth meeting**
Geneva, 15–18 June 2010
Item 6 of the provisional agenda*
Proposed amendments to the Montreal Protocol

Proposed amendment to the Montreal Protocol

Note by the Secretariat

Pursuant to paragraph 2 of Article 9 of the Vienna Convention for the Protection of the Ozone Layer, the Secretariat is circulating in the annex to the present note a proposal submitted by the Federated States of Micronesia to amend the Montreal Protocol to control hydrofluorocarbons. The proposal is being circulated as received and has not been formally edited by the Secretariat.

* UNEP/OzL.Pro.WG.1/30/1/Rev.1.

Annex

Proposed amendment to the Montreal Protocol

The following is proposed text for an amendment to the Montreal Protocol to control HFCs:

Section I: Amendment

Preamble

The following paragraph shall be inserted after the second paragraph, beginning with the word “*Being*”, of the Preamble:

“*Recalling* the UNFCCC, its Kyoto Protocol, and all other related legal instruments that the Conference of the Parties to the UNFCCC have adopted in accordance with the relevant provisions of the UNFCCC to achieve the ultimate objective of the UNFCCC,”

In the third paragraph, beginning with the word “*Mindful*”, of the Preamble, for the words:

“under that Convention”

There shall be substituted:

“under the Convention, UNFCCC, and its Kyoto Protocol”

The following paragraph shall be inserted after the third paragraph, beginning with the word “*Mindful*”, of the Preamble:

“*Aware also* of the adverse effects to the climate system and the contribution to climate change of many ozone-depleting substances,”

The following paragraphs shall be inserted after the fourth paragraph, beginning with the word “*Recognizing*”, of the Preamble:

“*Recognizing also* that, historically, ozone-depleting substances have made a significant contribution to climate change,

Recognizing further that actions taken by the Parties to this Protocol to protect the ozone layer by reducing the production and consumption of ozone-depleting substances has increased the use of hydrofluorocarbons as substitutes for ozone-depleting substances,”

In the fifth paragraph, beginning with the word “*Conscious*”, of the Preamble, for the words:

“potential climatic effects of emissions of these substances,”

There shall be substituted:

“potential climatic effects of emissions of ozone-depleting substances and substances used as alternatives and substitutes to ozone-depleting substances,”

The following paragraphs shall be inserted after the fifth paragraph, beginning with the word “*Conscious*”, of the Preamble:

“*Conscious also* of the contribution of hydrofluorocarbons to climate change and the potentially significant increase in emissions of hydrofluorocarbons in the future,

Noting the pertinent provisions of the United Nations Conference on Environment and Development, Agenda 21, adopted June 1992, which calls on the Parties to ‘replace CFCs and other ozone-depleting substances consistent with the Montreal Protocol, recognizing that a replacement’s suitability should be evaluated holistically and not simply on its contribution to solving one atmospheric problem or environmental problem.’”

In the sixth paragraph, beginning with the word “*Aware*”, of the Preamble, following the words:

“taken to protect the ozone layer from depletion”

There shall be added:

“and stabilize greenhouse gas concentrations in the atmosphere to prevent climate change”

In the seventh paragraph, beginning with the word “*Determined*”, of the Preamble, following the words:

“to protect the ozone layer”

There shall be added:

“and the climate system”

In the seventh paragraph, beginning with the word “*Determined*”, of the Preamble, for the words:

“emissions of substances that deplete it, with the ultimate objective of their elimination”

There shall be substituted:

“emissions of ozone-depleting substances and hydrofluorocarbons, with the ultimate objective of eliminating ozone-depleting substances and reducing hydrofluorocarbons”

The following paragraph shall be added following the seventh paragraph, beginning with the word “*Determined*”, of the Preamble:

“*Determined also to continue to establish control measures for ozone-depleting substances and their alternatives and substitutes, including hydrofluorocarbons, in a manner that is complementary to the central effort to combat climate change through the UNFCCC, Kyoto Protocol, and any other legal instruments that the Conference of the Parties to the UNFCCC may adopt in accordance with the relevant provisions of the UNFCCC, in furtherance of achieving the ultimate objective of the Convention and the UNFCCC,*”

In the eighth paragraph, beginning with the word “*Acknowledging*”, of the Preamble, for the words:

“ozone depletion and its harmful effects,”

There shall be substituted:

“ozone depletion and climate change and their associated harmful effects,”

In the ninth paragraph, beginning with the word “*Noting*”, of the Preamble, for the words:

“certain chlorofluorocarbons that”

There shall be substituted:

“certain chlorofluorocarbons, other ozone-depleting substances, and hydrofluorocarbons that”

In the tenth paragraph, beginning with the word “*Considering*”, of the Preamble, for the words:

“emissions of substances that deplete the ozone layer,”

There shall be substituted:

“emissions of controlled substances,”

Article 1, paragraph 4

In paragraph 4 of Article 1 of the Protocol, for the words:

“Annex C or Annex E”

There shall be substituted:

“Annex C, Annex E or Annex F”

Article 1, paragraphs 9 – 10

The following paragraphs shall be inserted after paragraph 8 of Article 1 of the Protocol:

9. “UNFCCC” means the United Nations Framework Convention on Climate Change, adopted on 9 May 1992.

10. “Kyoto Protocol” means the Kyoto Protocol to the UNFCCC, adopted 11 December 1997.

Article 2, paragraph 5

In paragraph 5 of Article 2 of the Protocol, for the words:

“Article 2H”

There shall be substituted:

“Articles 2H and 2J”

Article 2, paragraph 5 ter.

The following paragraph shall be added after paragraph 5 *bis.* of Article 2 of the Protocol:

“5 *ter.* Any Party not operating under paragraph 1 of Article 5 may, for one or more control periods, transfer to another such Party any portion of its calculated level of consumption set out in Article 2 J, provided that the calculated level of consumption of controlled substances in Annex F of the Party transferring the portion of its calculated level of consumption did not exceed [0.25] kilograms per capita in [2008] and that the total combined calculated levels of consumption of the Parties concerned do not exceed the consumption limits set out in Article 2J. Such transfer of consumption shall be notified to the Secretariat by each of the Parties concerned, stating the terms of such transfer and the period for which it is to apply.”

Article 2, paragraphs 8(a) and 11

In paragraphs 8(a) and 11 of Article 2 of the Protocol, for the words:

“Articles 2A to 2I”

There shall be substituted:

“Articles 2A to 2J”

Article 2, paragraph 9

The “and” at the end of subparagraph 9(a)(i) of Article 2 of the Protocol shall be moved to the end of subparagraph 9(a)(ii).

The following subparagraph shall be inserted after subparagraph 9(a)(ii) of Article 2 of the Protocol:

“(iii) Adjustments to the global warming potentials specified in Annexes C and F should be made and, if so, what the adjustments should be;”

In paragraph 9(c) of Article 2 of the Protocol, the following language shall be inserted immediately after the words “In taking such decisions”:

“under subparagraphs 9(a)(i) and (ii)”:

For the final semi-colon of paragraph 9(c) of Article 2 of the Protocol there shall be substituted:

“. In taking such decisions under subparagraph 9(a)(iii), the Parties shall reach agreement by consensus only;”

Article 2J

The following Article shall be inserted after Article 2I of the Protocol:

Article 2J: Hydrofluorocarbons

1. Each Party shall ensure that for the twelve-month period commencing on 1 January [2013], and in each 12-month period thereafter, its calculated level of consumption of the controlled substances in Annex F does not exceed, annually, [eighty-five] per cent of the average of its calculated levels of consumption in [2004, 2005, and 2006] of Annex F, Group I plus Annex C, Group I controlled substances. Each Party producing one or more of these substances shall, for the same period, ensure that its calculated level of production of the substances does not exceed, annually, its the average of calculated levels of production in [2004, 2005, and 2006] of Annex F, Group I plus Annex C, Group I controlled substances. However, in order to satisfy the basic domestic needs of the Parties operating under paragraph 1 of Article 5, its calculated level of production may exceed that limit by up to ten per cent of the average of its calculated level of production in [2004, 2005, and 2006] of Annex F, Group I plus Annex C, Group I substances.

2. Each Party shall ensure that for the twelve-month period commencing on 1 January [2016], and in each 12-month period thereafter, its calculated level of consumption of the controlled substances in Annex F does not exceed, annually, [seventy] per cent of the average of its calculated levels of consumption in [2004, 2005, and 2006] of Annex F, Group I plus Annex C, Group I controlled substances. Each Party producing one or more of these substances shall, for the same period, ensure that its calculated level of production of the substances does not exceed, annually, [seventy] per cent of the average of its calculated levels of consumption in [2004, 2005, and 2006] of Annex F, Group I plus Annex C, Group I substances. However, in order to satisfy the basic domestic needs of the Parties operating under paragraph 1 of Article 5, its calculated level of production may exceed that limit by up to ten per cent of the average of its calculated levels of production in [2004, 2005, and 2006] of Annex F, Group I plus Annex C, Group I substances.

3. Each Party shall ensure that for the twelve-month period commencing on 1 January [2019], and in each 12-month period thereafter, its calculated level of consumption of the controlled substances in Annex F does not exceed, annually, [fifty-five] per cent of the average of its calculated levels of consumption in [2004, 2005, and 2006] of Annex F, Group I plus Annex C, Group I substances. Each Party producing one or more of these substances shall, for the same period, ensure that its calculated level of production of the substances does not exceed, annually, [fifty-five] per cent of the average of its calculated levels of consumption in [2004, 2005, and 2006] of Annex F, Group I plus Annex C, Group I substances. However, in order to satisfy the basic domestic needs of the Parties operating under paragraph 1 of Article 5, its calculated level of production may exceed that limit by up to ten per cent of the average of its calculated levels of production in [2004, 2005, and 2006] of Annex F, Group I plus Annex C, Group I substances.

4. Each Party shall ensure that for the twelve-month period commencing on 1 January [2022], and in each 12-month period thereafter, its calculated level of consumption of the controlled substances in Annex F does not exceed, annually, [forty-five] per cent of the average of its calculated levels of consumption in [2004, 2005, and 2006] of Annex F, Group I plus Annex C, Group I substances. Each Party producing one or more of these substances shall, for the same period, ensure that its calculated level of production of the substances does not exceed, annually, [forty-five] per cent of the average of its calculated levels of consumption in [2004, 2005, and 2006] of Annex F, Group I plus Annex C, Group I substances. However, in order to satisfy the basic domestic needs of the Parties operating under paragraph 1 of Article 5, its calculated level of production may exceed that limit by up to ten per cent of the average of its calculated levels of production in [2004, 2005, and 2006] of Annex F, Group I plus Annex C, Group I substances.

5. Each Party shall ensure that for the twelve-month period commencing on 1 January [2025], and in each 12-month period thereafter, its calculated level of consumption of the controlled substances in Annex F does not exceed, annually, [thirty] per cent of the average of its calculated levels of consumption in [2004, 2005, and 2006] of Annex F, Group I plus Annex C, Group I substances. Each Party producing one or more of these substances shall, for the same period, ensure that its calculated level of production of the substances does not exceed, annually, [thirty] per cent of the average of its calculated levels of consumption in [2004, 2005, and 2006] of Annex F, Group I plus Annex C, Group I substances. However, in order to satisfy the basic domestic needs of the Parties operating under paragraph 1 of Article 5, its calculated level of production may exceed that limit by up to ten per cent of the average of its calculated levels of production in [2004, 2005, and 2006] of Annex F, Group I plus Annex C, Group I substances.

6. Each Party shall ensure that for the twelve-month period commencing on 1 January [2028], and in each 12-month period thereafter, its calculated level of consumption of the controlled substances in Annex F does not exceed, annually, [fifteen] per cent of the average of its calculated levels of consumption in [2004, 2005, and 2006] of Annex F, Group I plus Annex C, Group I substances. Each Party producing one or more of these substances shall, for the same period, ensure that its calculated level of production of the substances does not exceed, annually, [fifteen] per cent of the average of its calculated levels of consumption in [2004, 2005, and 2006] of Annex F, Group I plus Annex C, Group I substances. However, in order to satisfy the basic domestic needs of the Parties operating under paragraph 1 of Article 5, its calculated level of production may exceed that limit by up to ten per cent of the average of its calculated levels of production in [2004, 2005, and 2006] of Annex F, Group I plus Annex C, Group I substances.

7. Each Party shall ensure that for the twelve-month period commencing on 1 January [2030], and in each 12-month period thereafter, its calculated level of consumption of the controlled substances in Annex F does not exceed, annually, [ten] per cent of the average of its calculated levels of consumption in [2004, 2005, and 2006] of Annex F, Group I plus Annex C, Group I substances. Each Party producing one or more of these substances shall, for the same period, ensure that its calculated level of production of the substances does not exceed, annually, [ten] per cent of the average of its calculated levels of consumption in [2004, 2005, and 2006] of Annex F, Group I plus Annex C, Group I substances. However, in order to satisfy the basic domestic needs of the Parties operating under paragraph 1 of Article 5, its calculated level of production may exceed that limit by up to ten per cent of the average of its calculated levels of production in [2004, 2005, and 2006] of Annex F, Group I plus Annex C, Group I substances.

8. Each party shall ensure that for the 12-month period commencing on January 1, 2013, and in each 12-month period thereafter, its calculated level of production of Annex F, Group II substances generated as a byproduct of the manufacture of Annex C, Group I substances shall not exceed zero except to the extent that emissions of Annex F, Group II substances from facilities that manufacture Annex C, Group I substances, together with emissions of Annex F, Group II substances from facilities that destroy [more than 2.14 metric tons per year of] Annex F, Group II substances, do not exceed [0.1 percent] of the mass of Annex C, Group I substances manufactured in processes producing Annex F, Group II substances as a byproduct. For purposes of this paragraph, notwithstanding the definition of production in paragraph 5 of Article 1, the calculated level of production of Annex F, Group II substances generated as a byproduct shall include amounts destroyed onsite or at another facility.

9. Each Party shall ensure that any destruction of Annex F, Group II substances generated by facilities that produce Annex C, Group I substances shall occur only by technologies to be approved by the Parties.

10. The provisions of paragraph 8 of this Article shall not apply to the quantity of Annex F, Group II substances generated as a byproduct of the manufacture of Annex C, Group I substances where the destruction of such substances has been approved as a Clean Development Mechanism project under the Kyoto Protocol as of January 1, 2010 and that quantity is, in fact, destroyed pursuant to that agreement.

Article 3

In the preamble to Article 3 of the Protocol, for the words:

“2A to 2I”

There shall be substituted:

“2A to 2J”

In the preamble to Article 3 of the Protocol, for the words:

“Annex C or Annex E”

There shall be substituted:

“Annex C, Annex E or Annex F”

For the final semi-colon of subparagraph (a)(i) of Article 3 of the Protocol there shall be substituted:

“, or by the global warming potential specified in respect of it in Annex C or Annex F;”

For the period at the end of subparagraph (c) of Article 3 of the Protocol there shall be substituted a semi-colon, and the “and” at the end of subparagraph (b) of Article 3 of the Protocol shall be moved to the end of subparagraph (c).

The following clause should be added to the end of Article 3 of the Protocol:

“(d) Emissions of Annex F, Group II substances by adding together all emissions of such substances from facilities that produce Annex C, Group I substances, or from facilities that destroy [more than [2.14][1.69] metric tons of] Annex F, Group II substances per year. For facilities that produce Annex C, Group I substances, emissions shall equal the amount of Annex F, Group II substances generated at the facility, including amounts emitted from equipment leaks, process vents, and thermal oxidizers, but excluding amounts destroyed on site, stored on site, shipped off site for sale, or shipped off site for destruction.”

Article 4, paragraph 1 sept.

The following paragraph shall be inserted after paragraph 1 *sex.* of Article 4 of the Protocol:

“1 *sept.* Within one year of the date of entry into force of this paragraph, each Party shall ban the import of the controlled substances in Annex F from any State not party to this Protocol.”

Article 4, paragraph 2 sept.

The following paragraph shall be inserted after paragraph 2 *sex.* of Article 4 of the Protocol:

“2 *sept.* Within one year of the date of entry into force of this paragraph, each Party shall ban the export of the controlled substances in Annex F to any State not party to this Protocol.”

Article 4, paragraph 3 qua.

The following paragraph shall be inserted after paragraph 3 *ter.* of Article 4 of the Protocol:

“3 *qua.* Within [three] years of the date of the entry into force of this paragraph, the Parties shall, following the procedures in Article 10 of the Convention, elaborate in an annex a list of products containing controlled substances in Annex F. Parties that have not objected to the annex in accordance with those procedures shall ban, within one year of the annex having become effective, the import of those products from any State not party to this Protocol.”

Article 4, paragraph 4 qua.

The following paragraph shall be inserted after paragraph 4 *ter.* of Article 4 of the Protocol:

“4 *qua.* Within [three] years of the date of the entry into force of this paragraph, the Parties shall determine the feasibility of banning or restricting, from States not party to this Protocol, the import of products produced with, but not containing, controlled substances in Annex F. If determined feasible, the Parties shall, following the procedures in Article 10 of the Convention, elaborate in an annex a list of such products. Parties that have not objected to the annex in accordance with those procedures shall ban or restrict, within one year of the annex having become effective, the import of those products from any State not party to this Protocol.”

Article 4, paragraphs 5, 6 and 7

In paragraphs 5, 6 and 7 of Article 4 of the Protocol, for the words:

“Annexes A, B, C and E”

There shall be substituted:

“Annexes A, B, C, E and F”

Article 4, paragraph 8

In paragraph 8 of Article 4 of the Protocol, for the words:

“paragraphs 1 to 4 *ter.*”

There shall be substituted:

“paragraphs 1 to 4 *qua.*”

In paragraph 8 of Article 4 of the Protocol, for the words:

“Articles 2A to 2I”

There shall be substituted:

“Articles 2A to 2J”

Article 4B

The following paragraph shall be inserted after paragraph 2 of Article 4B of the Protocol:

“2 *bis.* Each Party shall, by 1 January 2013 or within three months of the date of entry into force of this paragraph for it, whichever is later, establish and implement a system for licensing the import and export of new, used, recycled and reclaimed controlled substances in Annex F. Any Party operating under paragraph 1 of Article 5 that decides it is not in a position to establish and implement such a system by 1 January 2013 may delay taking those actions until 1 January 2015.”

Article 5, paragraph 4

In paragraph 4 of Article 5 of the Protocol, for the words:

“Articles 2A to 2I”

There shall be substituted:

“Articles 2A to 2J”

Article 5, paragraphs 5 and 6

In paragraphs 5 and 6 of Article 5 of the Protocol, for the words:

“Article 2I”

There shall be substituted:

“Articles 2I and 2J”

Article 5 paragraph 8 qua.

The following paragraph shall be inserted after paragraph 8 *ter.* of Article 5 of the Protocol:

“With regard to the controlled substances contained in Annex F, Group I, each Party operating under paragraph 1 of this Article shall, in order to meet its basic domestic needs, be entitled to delay for six years its compliance with the control measures set out in paragraphs 1 to 7 of Article 2J and, as the basis for its compliance with these control

measures, it shall use the average of its annual calculated level of consumption and production, respectively, [of Annex C, Group I substances for the period 2007 to 2009 inclusive].”

Article 6

In Article 6 of the Protocol, for the words:

“Articles 2A to 2I”

There shall be substituted:

“Articles 2A to 2J”

Article 7, paragraphs 2, 3 and 3 ter.

In paragraph 2 of Article 7, the comma following the words “Annex E, for the year 1991” shall be removed and a semicolon shall be inserted.

The following line shall be inserted after the line that reads “— in Annex E, for the year 1991,” in paragraph 2 of Article 7 of the Protocol:

“— in Annex F, for the years 2004 to 2009,”

In paragraphs 2 and 3 of Article 7 of the Protocol, for the words:

“C and E”

There shall be substituted:

“C, E and F”

The following paragraph shall be added to Article 7 of the Protocol after paragraph 3 *bis*.:

“3 *ter*. Each Party shall provide to the Secretariat statistical data of its annual emissions of Annex F, Group II controlled substances in accordance with Article 3(d) of the Protocol, the amount of Annex F, Group II substances captured and destroyed by technologies to be approved by the Parties, and the amount of Annex F, Group II substances subject to paragraph 10 of Article 2J.”

Article 10, paragraph 1

In Article 10, paragraph 1 of the Protocol, for the words:

“Articles 2A to 2E and Article 2I”

There shall be substituted:

“Articles 2A to 2E, Article 2I, and Article 2J”

At the end of Article 10, paragraph 1 of the Protocol, following the sentence ending:

“incremental costs shall be decided by the meeting of the Parties.”

There shall be added the sentence:

“Where a Party operating under paragraph 1 of Article 5 chooses to avail itself of funding from any other financial mechanism to meet any part of its agreed incremental costs, that part shall not be met by the financial mechanism under Article 10 of this Protocol.”

Article 17

In Article 17 of the Protocol, for the words:

“Articles 2A to 2I”

There shall be substituted:

“Articles 2A to 2J”

Annex C and Annex F

Annex C, Group I is amended to add the 100-year Global Warming Potential for the following substances:

Substance	100-year Global Warming Potential
HCFC-21	151
HCFC-22	1,810
HCFC-123	77
HCFC-124	609
HCFC-141b	725
HCFC-142b	2,310
HCFC-225ca	122
HCFC-225cb	595

A new Annex F shall be added to the Protocol, following Annex E. It shall read:

Annex F: Controlled Substances

Group Substance	100-year Global Warming Potential
<i>Group I</i>	
<i>HFC-32</i>	<i>675</i>
<i>HFC-41</i>	<i>92</i>
<i>HFC-125</i>	<i>3,500</i>
<i>HFC-134</i>	<i>1,100</i>
<i>HFC-134a</i>	<i>1,430</i>
<i>HFC-143</i>	<i>353</i>
<i>HFC-143a</i>	<i>4,470</i>
<i>HFC-152</i>	<i>53</i>
<i>HFC-152a</i>	<i>124</i>
<i>HFC-161</i>	<i>12</i>
<i>HFC-227ea</i>	<i>3,220</i>
<i>HFC-236cb</i>	<i>1,340</i>
<i>HFC-236ea</i>	<i>1,370</i>
<i>HFC-236fa</i>	<i>9,810</i>
<i>HFC-245ca</i>	<i>693</i>
<i>HFC-245fa</i>	<i>1,030</i>
<i>HFC-365mfc</i>	<i>794</i>
<i>HFC-43-10mee</i>	<i>1,640</i>
<i>HFC-1234yf (HFO-1234yf)</i>	<i>4</i>
<i>HFC-1234ze (HFO-1234ze)</i>	<i>6</i>
<i>Group II</i>	
<i>HFC-23</i>	<i>14,800</i>

Section II: Relationship to the 1999 Amendment

No State or regional economic integration organization may deposit an instrument of ratification, acceptance or approval of or accession to this Amendment unless it has previously, or simultaneously, deposited such an instrument to the Amendment adopted at the Eleventh Meeting of the Parties in Beijing, 3 December 1999.

Section III: Relationship to the UNFCCC and Its Kyoto Protocol

This Amendment is not intended to have the effect of exempting hydrofluorocarbons from the scope of the commitments contained in Articles 4 and 12 of the UNFCCC and in Articles 2, 5, 7 and 10 of its Kyoto Protocol that apply to “greenhouse gases not controlled by the Montreal Protocol.” Each Party to this Amendment shall continue to apply the provisions of the UNFCCC and its Kyoto Protocol identified above to hydrofluorocarbons as long as those provisions, respectively, remain in force with respect to such Party.

Section IV: Entry into force

1. Except as noted in paragraph 2, below, this Amendment shall enter into force on 1 January 2012, provided that at least twenty instruments of ratification, acceptance or approval of the Amendment have been deposited by States or regional economic integration organizations that are Parties to the Montreal Protocol on Substances that Deplete the Ozone Layer. In the event that this condition has not been fulfilled by that date, the Amendment shall enter into force on the ninetieth day following the date on which it has been fulfilled.
2. The changes to Article 4 of the Protocol in Section I of this Amendment shall enter into force on 1 January 2012, provided that at least seventy instruments of ratification, acceptance or approval of the Amendment have been deposited by States or regional economic integration organizations that are Parties to the Montreal Protocol on Substances that Deplete the Ozone Layer. In the event that this condition has not been fulfilled by that date, the Amendment shall enter into force on the ninetieth day following the date on which it has been fulfilled.
3. For purposes of paragraphs 1 and 2, any such instrument deposited by a regional economic integration organization shall not be counted as additional to those deposited by member States of such organization.
4. After the entry into force of this Amendment, as provided under paragraphs 1 and 2, it shall enter into force for any other Party to the Protocol on the ninetieth day following the date of deposit of its instrument of ratification, acceptance or approval.

Summary of FSM 2010 Proposal To Strengthen Climate Protection Under the Montreal Protocol

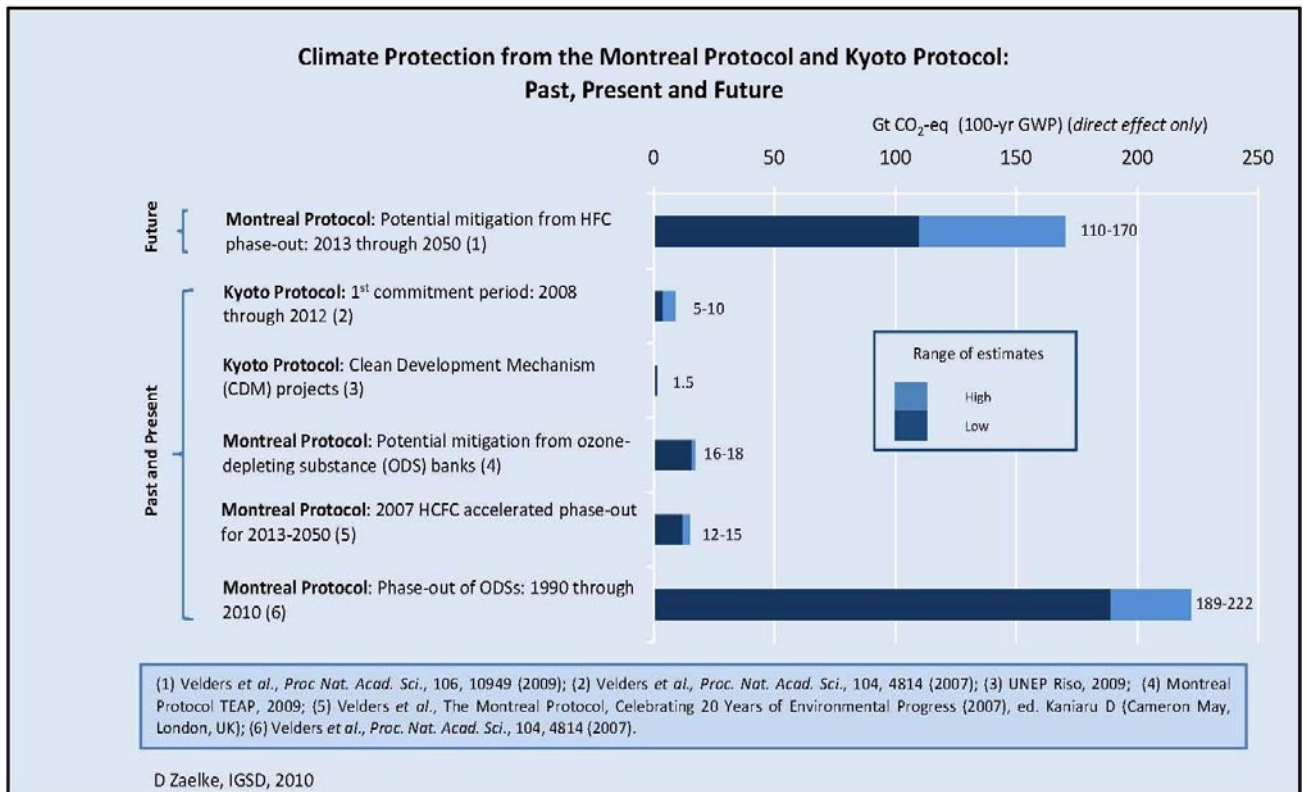
The FSM 2010 proposal would strengthen climate protection under the Montreal Protocol by phasing down the production and consumption of HFCs, a group of super greenhouse gases. The result would be up to 100 billion tonnes or more of CO₂-eq. mitigation by 2050 under a treaty that has successfully phased out nearly 100 other chemicals. Phasing down HFCs is essential for keeping warming to 1.5°C and returning to a concentration of greenhouse gases that is no more than 350 ppm.

The FSM 2010 proposal is similar to the proposal submitted by FSM and Mauritius in 2009, with changes to make the 2010 proposal more effective.

- **The Baseline for Article 2 Parties in Article 2J**: The baseline for Article 2 Parties in the 2010 HFC Proposal is established using HCFC plus HFC production and consumption from 2004-2006. The 2009 Proposal used only HFC consumption to calculate the baseline in Article 2 Parties.
- **The Phase-Down Schedule for Article 2 Parties in Paragraphs 1 – 7 of Article 2J**: The 2010 HFC Proposal would establish a phase-down schedule in Article 2 Parties that reduces HFC consumption from the baseline by 15% every 3 years beginning in 2013—one year later than the 2009 Proposal—until it reaches 15% of the baseline in 2028 and 10% of the baseline in 2030.
- **HFC-23 Control Measures in Paragraphs 8 – 10 of Article 2J**: Similar to the 2009 Proposal, the 2010 HFC Proposal establishes control measures in paragraphs 8 and 9 of Article 2J that require all Parties meet efficiency standards in their production of HCFC-22 and destroy all remaining HFC-23 by-product. Paragraph 10, however, exempts existing HFC-23 Clean Development Mechanism (CDM) projects from the provisions of paragraphs 8 and 9.
- **Control Measures in Article 5 Parties in Paragraph 8 *qua* of Article 5**: Article 5 paragraph 8 *qua* provides Article 5 Parties with a 6-year grace period to comply with the control measures established for Article 2 Parties in paragraphs 1 to 7 of Article 2J. In addition, paragraph 8 *qua* uses different criteria for establishing the baseline in Article 5 Parties.

Under paragraph 8 *qua* of the 2010 HFC Proposal, the baseline in Article 5 Parties is established using only HCFC production and consumption data from 2007-2009. This means the baseline is established using existing data and accounts for the recent growth in sectors that will rely on HFCs in the near future.

- **MLF Funding**: Similar to the 2009 Proposal, the 2010 HFC Proposal requires the Multilateral Fund (MLF) make available the agreed incremental costs of compliance with the control measures established under the amendment, including the destruction of HFC-23. By operation of paragraph 10 of Article 2J, the 2010 HFC Proposal excludes funding for the destruction of HFC-23 where funding is already provided by the CDM.
- **Additional Chemicals in Annex F**: The 2010 HFC Proposal includes two substances, often referred to as HFOs, to the list of controlled substances in Annex F as these substances are related to HFCs and are often used as replacements for HCFCs and HFCs.
- **Explicit Recognition of the UNFCCC**: The 2010 HFC Proposal makes clear emissions of HFCs remain within the scope of the commitments contained in Articles 4 and 12 of the UNFCCC and in Articles 2, 5, 7 and 10 of its Kyoto Protocol that apply to “greenhouse gases not controlled by the Montreal Protocol”.



See also, *Reducing abrupt climate change risk using the Montreal Protocol and other regulatory actions to complement cuts in CO₂ emissions* by Mario Molina, Durwood Zaelke, K. Madhava Sarma, Stephen O. Andersen, Veerabhadran Ramanathan and Donald Kaniaru (*Proceedings of the National Academy of Sciences*, 2009): <http://www.pnas.org/content/early/2009/10/09/0902568106.full.pdf+html>.