



Climate Change (Other Removal Activities) Amendment Regulations 2010

Anand Satyanand, Governor-General

Order in Council

At Wellington this 23rd day of September 2010

Present:

His Excellency the Governor-General in Council

Pursuant to sections 163 and 168 of the Climate Change Response Act 2002, His Excellency the Governor-General, acting on the advice and with the consent of the Executive Council and on the recommendation of the Minister for Climate Change Issues (having had regard to the matter specified in section 163(5) of that Act), makes the following regulations.

Contents

		Page
1	Title	2
2	Commencement	2
3	Principal regulations amended	3
4	Interpretation	3
5	New regulation 3A inserted	5
	3A Chief executive may issue guidelines or standards	5
6	Heading above regulation 4 amended	5
7	New headings and regulations 8 to 21 added	5
	<i>Threshold for exporting synthetic greenhouse gases activity</i>	
8	Threshold for exporting synthetic greenhouse gases activity	5

	<i>Exporting synthetic greenhouse gases activity</i>	
9	Application of regulations 10 to 16	6
10	Collection of information for calculating removals from exporting synthetic greenhouse gases	7
11	Collection of information for calculating removals from exporting bulk synthetic greenhouse gases	7
12	Method of calculating removals from exporting bulk synthetic greenhouse gases	8
13	Collection of information for purpose of calculating removals from exporting synthetic greenhouse gases in pre-charged equipment	8
14	Method of calculating removals from exporting synthetic greenhouse gases in pre-charged equipment	9
15	Collection of information for purpose of calculating removals from exporting synthetic greenhouse gases in motor vehicles	9
16	Method of calculating removals from exporting synthetic greenhouse gases in motor vehicles	10
	<i>Threshold for destroying synthetic greenhouse gases</i>	
17	Threshold for destroying synthetic greenhouse gases	12
	<i>Destroying synthetic greenhouse gases</i>	
18	Application of regulations 19 and 20	12
19	Collection of information for purpose of calculating removals from destroying synthetic greenhouse gases	12
20	Method of calculating removals from destroying synthetic greenhouse gases	13
	<i>Determination of GWP</i>	
21	Determination of GWP figure for class of synthetic greenhouse gas	14
8	New schedule added	14
	Schedule	15
	New Schedule added	

Regulations

1 Title

These regulations are the Climate Change (Other Removal Activities) Amendment Regulations 2010.

2 Commencement

These regulations come into force on 1 January 2011.

3 Principal regulations amended

These regulations amend the Climate Change (Other Removal Activities) Regulations 2009.

4 Interpretation

- (1) Regulation 3 is amended by inserting the following definitions in their appropriate alphabetical order:

ASHRAE designation means the designation of a refrigerant mix from Standard 34-2007 *Designation and Safety Classification of Refrigerants*, published in 2007 by the American National Standards Institute/American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc

category, in relation to a motor vehicle, means a category of motor vehicle listed in table 3 of the Schedule

chief executive means the chief executive of the department responsible for the administration of Part 4 of the Act

class, in relation to synthetic greenhouse gases, means—

- (a) a refrigerant gas or mix described by reference to its ASHRAE designation and listed in the first column of table 2 of the Schedule; or
- (b) any other mix of constituents that—
 - (i) is not listed in the first column of table 2 of the Schedule; but
 - (ii) contains a synthetic greenhouse gas listed in the first column of table 1 of the Schedule; or
- (c) if it is not mixed with other constituents, any single synthetic greenhouse gas listed in the first column of table 1 of the Schedule

customs point means the point where goods are entered for export under section 49 of the Customs and Excise Act 1996

destroying synthetic greenhouse gases activity means the activity in subpart 3 of Part 2 of Schedule 4 of the Act of destroying hydrofluorocarbons, perfluorocarbons, or sulphur hexafluoride where any prescribed threshold is met

destruction efficiency factor means the percentage of a class of synthetic greenhouse gas that is destroyed and not emitted when submitted to destruction equipment

excluded goods means goods referred to in regulation 8(2)

excluded motor vehicle removals means 100 tonnes of removals from exporting motor vehicles with hydrofluorocarbons or perfluorocarbons contained in any refrigeration, air conditioning, or other system integrated into or powered by the motor vehicles in the year, as calculated in accordance with regulation 16(1) to (3)

exporting synthetic greenhouse gases activity means the activity in subpart 3 of Part 2 of Schedule 4 of the Act of exporting hydrofluorocarbons, perfluoro-

carbons, or sulphur hexafluoride, including hydrofluorocarbons, perfluorocarbons, or sulphur hexafluoride contained in goods, where any prescribed threshold is met

GWP means global warming potential

in New Zealand temporarily, in relation to goods, means goods whose presence in New Zealand does not exceed a continuous period of 180 days

motor vehicle has the same meaning as in section 2(1) of the Land Transport Act 1998

passing through New Zealand, in relation to an aircraft or a ship, means an aircraft or a ship—

- (a) on a journey from a foreign port to a foreign port; and
- (b) whose presence in New Zealand does not exceed a continuous period of 180 days, whether or not the aircraft or ship is engaged in moving passengers or cargo between ports in New Zealand during that period

pre-charged equipment—

- (a) means any refrigeration or air conditioning equipment or other goods—
 - (i) that contain a synthetic greenhouse gas; and
 - (ii) in which a synthetic greenhouse gas assists the functionality; and
- (b) includes any aircraft or ship in which a synthetic greenhouse gas is contained in any refrigeration, air conditioning, or other system integrated into or powered by the aircraft or ship; but
- (c) does not include a motor vehicle in which a synthetic greenhouse gas is contained in any refrigeration, air conditioning, or other system integrated into or powered by the motor vehicle

synthetic greenhouse gas means—

- (a) any hydrofluorocarbon (HFC); or
- (b) any perfluorocarbon (PFC); or
- (c) sulphur hexafluoride (SF₆)

synthetic greenhouse gas charge, in relation to pre-charged equipment or motor vehicles, means the amount of synthetic greenhouse gas contained in the equipment or motor vehicles

type, in relation to pre-charged equipment or a motor vehicle, means a model or type of pre-charged equipment or motor vehicle that has the same characteristics, including but not limited to the amount and composition of synthetic greenhouse gases it contains

- (2) Regulation 3 is amended by adding the following subclause as subclause (2):
- (2) In a formula used in these regulations, the symbol Σ means the summation of the calculated amounts that follow the symbol.

5 New regulation 3A inserted

The following regulation is inserted after regulation 3:

3A Chief executive may issue guidelines or standards

- (1) The chief executive may, by notice in the *Gazette*, issue guidelines or standards in relation to the information required to be collected by these regulations.
- (2) The chief executive may, by notice in the *Gazette*, amend or revoke a guideline or standard.
- (3) A participant who complies with a guideline or standard that is issued under this regulation, and is in force, is to be treated as complying with the requirements of these regulations to which the guideline or standard relates.

6 Heading above regulation 4 amended

The heading above regulation 4 is amended by adding “*for embedding activity*”.

7 New headings and regulations 8 to 21 added

The following headings and regulations are added:

Threshold for exporting synthetic greenhouse gases activity

8 Threshold for exporting synthetic greenhouse gases activity

- (1) The threshold for the exporting synthetic greenhouse gases activity is that the exportation results in at least 1 tonne of removals in a year from the exportation of synthetic greenhouse gases other than—
 - (a) synthetic greenhouse gases contained in excluded goods; or
 - (b) sulphur hexafluoride (including sulphur hexafluoride contained in goods) imported before 1 January 2013; or
 - (c) hydrofluorocarbon 245fa/365mfc; or
 - (d) excluded motor vehicle removals.
- (2) In subclause (1), **excluded goods** means—
 - (a) an aircraft or a ship—
 - (i) with synthetic greenhouse gases contained in any refrigeration system, air conditioning system, or other system—
 - (A) that is integrated with or into the aircraft or ship; or
 - (B) that relies on the aircraft or ship for its power; and
 - (ii) that—
 - (A) is passing through New Zealand; or
 - (B) is in New Zealand for the purpose of repairing the aircraft or ship; or

- (C) is part of the armed forces of a State other than New Zealand; or
 - (D) is registered in New Zealand or is owned by a New Zealand person, unless the aircraft or ship was built in New Zealand and is leaving New Zealand on its maiden voyage:
- (b) any household goods or other effects of a passenger or member of the crew of an aircraft or a ship (whether the household goods or other effects are accompanied or unaccompanied):
 - (c) any imported goods that have medical uses necessary for human health, including metered dose inhalers:
 - (d) any imported goods that—
 - (i) are not unloaded in New Zealand and are destined for a port outside New Zealand; or
 - (ii) are in New Zealand temporarily; or
 - (iii) contain synthetic greenhouse gases owing solely to the use of synthetic greenhouse gases to manufacture the goods (for example, insulation foam):
 - (e) any goods exported for personal, domestic, or household use or consumption by the person exporting the goods, if the person is an individual:
 - (f) any aircraft, unless the total amount of removals from synthetic greenhouse gases contained in any refrigeration system, air conditioning system, or other system that is integrated into or powered by aircraft exported by the person (other than aircraft referred to in paragraph (a)), is 100 tonnes or more in the year of export:
 - (g) any ship, unless the total amount of removals from synthetic greenhouse gases contained in any refrigeration system, air conditioning system, or other system integrated into or powered by ships exported by the person (other than ships referred to in paragraph (a)), is 100 tonnes or more in the year of export:
 - (h) any goods containing sulphur hexafluoride, if the sulphur hexafluoride was imported in bulk, or contained in goods, or manufactured before 1 January 2013.

Exporting synthetic greenhouse gases activity

9 Application of regulations 10 to 16

A person must comply with regulations 10 to 16 if the person, in any year, is a participant under section 54(1)(b) of the Act in relation to the exporting synthetic greenhouse gases activity.

10 Collection of information for calculating removals from exporting synthetic greenhouse gases

- (1) Information must be collected and recorded and removals must be calculated in relation to—
 - (a) each class of synthetic greenhouse gas—
 - (i) exported in bulk by the person in the year in accordance with regulations 11 and 12; and
 - (ii) exported in pre-charged equipment by the person in the year in accordance with regulations 13 and 14; and
 - (b) synthetic greenhouse gases contained in any refrigeration, air conditioning, or other system integrated into or powered by motor vehicles exported by the person in the year in accordance with regulations 15 and 16.
- (2) An emissions return for the activity must record the person's total removals in the period covered by the return, calculated by adding together the removals for—
 - (a) each class of synthetic greenhouse gas—
 - (i) exported in bulk by the person in the period, as calculated under regulation 12; and
 - (ii) exported in pre-charged equipment by the person in the period, as calculated under regulation 14; and
 - (b) motor vehicles exported by the person in the period, as determined under regulation 16.

11 Collection of information for calculating removals from exporting bulk synthetic greenhouse gases

- (1) The person must collect and record the following information:
 - (a) the constituents of each class of synthetic greenhouse gas exported in bulk by the person in the year; and
 - (b) the total number of kilograms of each class of synthetic greenhouse gas referred to in paragraph (a), as recorded at the customs point.
- (2) The person must not collect and record information under subclause (1) about—
 - (a) sulphur hexafluoride imported into or manufactured in New Zealand before 1 January 2013; or
 - (b) hydrofluorocarbon 245fa/365mfc.
- (3) Information collected and recorded under subclause (1) that relates to sulphur hexafluoride must contain evidence that the sulphur hexafluoride was imported into or manufactured in New Zealand on or after 1 January 2013.

12 Method of calculating removals from exporting bulk synthetic greenhouse gases

Removals in relation to each class of synthetic greenhouse gases exported in bulk by the person in the year or other period covered by an emissions return must be calculated in accordance with the following formula:

$$R = A \times \frac{\text{GWP}}{1000}$$

where—

A is the total number of kilograms of the class of synthetic greenhouse gas exported by the person in the year or other period covered by the emissions return, as recorded under regulation 11(1)(b)

GWP is, for a class of synthetic greenhouse gas—

- (a) listed in the first column of table 2 of the Schedule, the GWP figure for the class specified in the right-hand column of the table;
- (b) that consists of a single synthetic greenhouse gas, the GWP figure for the synthetic greenhouse gas specified in the second column in table 1 of the Schedule;
- (c) that contains more than 1 synthetic greenhouse gas and is not listed in table 2 of the Schedule, the GWP figure determined under regulation 21

R is the removals for the class of synthetic greenhouse gas exported in bulk in the year or other period covered by the emissions return in tonnes.

13 Collection of information for purpose of calculating removals from exporting synthetic greenhouse gases in pre-charged equipment

(1) The person must collect and record the following information in relation to each class of synthetic greenhouse gas exported in the year in pre-charged equipment:

- (a) the constituents of the class of synthetic greenhouse gas; and
- (b) the number of units of each type of pre-charged equipment containing the class of synthetic greenhouse gas exported by the person in the year that were not excluded goods, as recorded at the customs point; and
- (c) the synthetic greenhouse gas charge for the type of pre-charged equipment in grams.

(2) The person must not collect and record information under subclause (1) about—

- (a) sulphur hexafluoride imported into or manufactured in New Zealand before 1 January 2013; or
- (b) hydrofluorocarbon 245fa/365mfc.

- (3) The person must also collect and record in relation to any exports of pre-charged equipment containing sulphur hexafluoride evidence that the sulphur hexafluoride contained in the pre-charged equipment was imported into or manufactured in New Zealand on or after 1 January 2013.

14 Method of calculating removals from exporting synthetic greenhouse gases in pre-charged equipment

Removals in relation to each class of synthetic greenhouse gases exported in pre-charged equipment by the person in the year or other period covered by an emissions return must be calculated in accordance with the following formula:

$$R = \Sigma (A \times B \times \frac{\text{GWP}}{1\,000\,000})$$

where—

A is, for each type of pre-charged equipment containing the class of synthetic greenhouse gas exported by the person in the year or other period covered by the emissions return, the total number of units of the type of pre-charged equipment that were not excluded goods, as recorded under regulation 13(1)(b)

B is the synthetic greenhouse gas charge for the type of pre-charged equipment in grams, as recorded under regulation 13(1)(c)

GWP is, for a class of synthetic greenhouse gas—

- (a) listed in the first column of table 2 of the Schedule, the GWP figure for the class specified in the right-hand column of the table:
- (b) that consists of a single synthetic greenhouse gas, the GWP figure for the synthetic greenhouse gas specified in the second column in table 1 of the Schedule:
- (c) that contains more than 1 synthetic greenhouse gas and is not listed in table 2 of the Schedule, the GWP figure determined under regulation 21

R is the removals for the class of synthetic greenhouse gas exported in pre-charged equipment in the year or other period covered by the emissions return in tonnes.

15 Collection of information for purpose of calculating removals from exporting synthetic greenhouse gases in motor vehicles

- (1) If the person exports synthetic greenhouse gases contained in any refrigeration, air conditioning, or other system integrated into or powered by motor vehicles (other than excluded goods) in the year, the person may elect whether to collect information and calculate removals in respect of the motor vehicles under—

- (a) subclause (2) and regulation 16(1) (the **actual charge method**); or

- (b) subclause (3) and regulation 16(2) (the **default charge method**); or
 - (c) a combination of those provisions (that is, some vehicles in accordance with the actual charge method and others in accordance with the default charge method).
- (2) The person must collect and record the following information in relation to each class of synthetic greenhouse gas contained in any refrigeration, air conditioning, or other system integrated into or powered by the motor vehicles in respect of which the person wishes to calculate removals in accordance with the actual charge method:
- (a) the constituents of the class of synthetic greenhouse gas; and
 - (b) the total number of each type of motor vehicle containing the class of synthetic greenhouse gas exported by the person in the year that were not excluded goods, as recorded at the customs point; and
 - (c) the synthetic greenhouse gas charge for each type of motor vehicle in grams.
- (3) The person must collect and record, for each category of motor vehicle in respect of which the person wishes to use the default charge method to calculate removals from synthetic greenhouse gases contained in any refrigeration, air conditioning, or other system integrated into or powered by the motor vehicles, the total number of motor vehicles in that category exported by the person in the year that were not excluded goods, as recorded at the customs point.
- (4) The person must not collect and record information under subclause (2) or (3) about hydrofluorocarbon 245fa/365mfc.

16 Method of calculating removals from exporting synthetic greenhouse gases in motor vehicles

- (1) A person who wishes to use the actual charge method to calculate removals from any motor vehicles exported in the year or other period covered by an emissions return must calculate removals in relation to each class of synthetic greenhouse gas exported in those vehicles using the following formula:

$$R_1 = \Sigma (A \times B \times \frac{\text{GWP}}{1\,000})$$

where—

- A is, for each type of motor vehicle containing the class of synthetic greenhouse gas exported by the person in the year or other period covered by the emissions return, the total number of units of the type of motor vehicle exported that were not excluded goods, as recorded under regulation 15(2)(b)
- B is the synthetic greenhouse gas charge for the type of motor vehicle in grams, as recorded under regulation 15(2)(c)

GWP is, for a class of synthetic greenhouse gas—

- (a) listed in the first column of table 2 of the Schedule, the GWP figure for the class specified in the right hand column of the table:
- (b) not listed in table 2 of the Schedule and that contains more than 1 synthetic greenhouse gas, the GWP figure determined under regulation 21:
- (c) that contains a single synthetic greenhouse gas, the GWP figure for the synthetic greenhouse gas specified in the second column in table 1 of the Schedule

R_1 is the removals for the class of synthetic greenhouse gas in the year or other period covered by the emissions return in tonnes.

- (2) A person who wishes to use the default charge method to calculate removals from any motor vehicles exported in the year or other period covered by an emissions return must calculate removals in relation to each category of those motor vehicles exported, using the following formula:

$$R_2 = A \times B \times \frac{\text{GWP}}{1\,000\,000}$$

where—

A is the total number of motor vehicles in that category that the person exported in the year or other period covered by the emissions return that were not excluded goods, as recorded under regulation 15(3)

B is the default charge for the category specified in table 3 of the Schedule

GWP is the GWP figure for HFC-134a in table 1 of the Schedule

R_2 is the removals for the category of motor vehicles in the year or other period covered by the emissions return in tonnes.

- (3) The person must calculate total removals in relation to synthetic greenhouse gases in motor vehicles exported by the person in the year using the following formula:

$$\text{TR} = \Sigma(R_1) + \Sigma(R_2)$$

where—

R_1 is the removals in tonnes for each class of synthetic greenhouse gas in respect of which the person has calculated removals using the actual charge method, as calculated under subclause (1)

R_2 is the removals in tonnes for each category of motor vehicles in respect of which the person has calculated removals using the default charge method, as calculated under subclause (2)

TR is the total removals for synthetic greenhouse gases in motor vehicles exported by the person in the year or other period covered by the emissions return in tonnes.

(4) Taking into account the person's excluded motor vehicle removals, the removals that must be included in the person's emissions return for the year is the greater of—

(a) the figure calculated in accordance with the following formula:

$$TR - 100$$

where—

TR is the person's total removals for motor vehicles exported by the person in the year as calculated under subclause (3)

100 is the person's excluded motor vehicles removals; and

(b) zero.

Threshold for destroying synthetic greenhouse gases

17 Threshold for destroying synthetic greenhouse gases

The threshold for the destroying synthetic greenhouse gases activity is that the destruction of the synthetic greenhouse gases results in at least 1 tonne of removals in a year from synthetic greenhouse gases other than sulphur hexafluoride imported before 1 January 2013.

Destroying synthetic greenhouse gases

18 Application of regulations 19 and 20

A person must comply with regulations 19 and 20 if the person, in any year, is a participant under section 54(1)(b) of the Act in relation to the destroying synthetic greenhouse gases activity.

19 Collection of information for purpose of calculating removals from destroying synthetic greenhouse gases

(1) The following information must be collected in relation to each class of synthetic greenhouse gas destroyed at each destruction facility used by the person in the year:

(a) the constituents of the class of synthetic greenhouse gas; and

(b) the number of kilograms of chemicals in each batch of chemicals containing the class of synthetic greenhouse gas submitted by the person to the destruction facility in the year; and

(c) the percentage by mass of the class of synthetic greenhouse gas in each batch of chemicals referred to in paragraph (b); and

(d) the destruction efficiency factor for the class of synthetic greenhouse gas at the destruction facility; and

(e) an estimate of the number of kilograms of the class of synthetic greenhouse gas that are lost through handling losses between submission of

the batches of chemicals containing the class of synthetic greenhouse gas to the destruction facility and the destruction of the gas.

- (2) The person must not collect and record information under subclause (1) about sulphur hexafluoride imported into or manufactured in New Zealand before 1 January 2013.
- (3) Information collected and recorded under subclause (1) that relates to sulphur hexafluoride must contain evidence that the sulphur hexafluoride was imported into or manufactured in New Zealand on or after 1 January 2013.

20 Method of calculating removals from destroying synthetic greenhouse gases

- (1) Removals in relation to each class of synthetic greenhouse gas destroyed by the person in the year or other period covered by an emissions return at each destruction facility used by the person must be calculated in accordance with the following formula:

$$R = (((\Sigma (A \times B)) \times C) - D) \times \frac{\text{GWP}}{1\,000}$$

where—

- A is, for each batch of chemicals containing the class of synthetic greenhouse gas submitted by the person to the destruction facility in the year or other period covered by the emissions return, the number of kilograms of chemicals in the batch, as recorded under regulation 19(1)(b)
- B is the percentage by mass of the class of synthetic greenhouse gas in the relevant batch of chemicals, as recorded under regulation 19(1)(c)
- C is the destruction efficiency factor for the class of synthetic greenhouse gas at the destruction facility, as recorded under regulation 19(1)(d)
- D is the estimate of any handling losses for the class of synthetic greenhouse gas, as recorded under regulation 19(1)(e)
- GWP is, for a class of synthetic greenhouse gas—
- (a) listed in the first column of table 2 of the Schedule, the figure for GWP for the class specified in the right-hand column of the table:
 - (b) that consists of a single synthetic greenhouse gas, the figure for GWP for the synthetic greenhouse gas specified in the second column in table 1 of the Schedule:
 - (c) that contains more than 1 synthetic greenhouse gas and is not listed in table 2 of the Schedule, the figure for GWP determined under regulation 21
- R is the removals for the class of synthetic greenhouse gas destroyed at the destruction facility for the year or other period covered by the emissions return in tonnes.

- (2) An emissions return submitted by a person required to comply with this regulation must record the person's total removals from the destroying synthetic greenhouse gases activity in the period covered by the return, calculated by adding together the removals for each class of synthetic greenhouse gas destroyed at each destruction facility in the period covered by the return, as calculated under subclause (1).

Determination of GWP

21 Determination of GWP figure for class of synthetic greenhouse gas

If a person is required to use a GWP figure for a class of synthetic greenhouse gas that contains more than 1 synthetic greenhouse gas and the GWP figure for the class of synthetic greenhouse gas is not listed in table 2 of the Schedule, then the GWP figure for the class of synthetic greenhouse gas must be calculated in accordance with the following formula:

$$\text{GWP} = \Sigma (A \times B)$$

where—

- A is, for each synthetic greenhouse gas specified in table 1 of the Schedule that is contained in the class of synthetic greenhouse gas, the GWP figure specified in that table
- B is, for the relevant synthetic greenhouse gas, the percentage by mass of the synthetic greenhouse gas in the class of synthetic greenhouse gas
- GWP is the GWP figure for the class, being—
- (a) the product of the equation rounded down to the nearest 10 if the last number of the product is 1, 2, 3, or 4:
 - (b) the product of the equation rounded up to the nearest 10 if the last number of the product is 5, 6, 7, 8, or 9.

8 New schedule added

The schedule set out in the Schedule of these regulations is added.

Schedule
New Schedule added

r 8

Schedule
Figures for synthetic greenhouse gases

rr 3, 12, 14, 16, 20

Table 1
GWP figures of individual synthetic greenhouse gases

Gas	GWP figure
<i>Hydrofluorocarbons</i>	
HFC-23	11 700
HFC-32	650
HFC-41	150
HFC-43–10mee	1 300
HFC-125	2 800
HFC-134	1 000
HFC-134a	1 300
HFC-143	300
HFC-143a	3 800
HFC-152a	140
HFC-227ea	2 900
HFC-236fa	6 300
HFC-245ca	560
<i>Perfluorocarbons</i>	
PFC-218	7 000
Per fluoromethane – CF ₄	6 500
Per fluoroethane – C ₂ F ₆	9 200
Per fluoropropane – C ₃ F ₈	7 000
Per fluorobutane – C ₄ F ₁₀	7 000
Per fluorocyclobutane – c-C ₄ F ₈	8 700
Per fluoropentane – C ₅ F ₁₂	7 500
Per fluorohexane – C ₆ F ₁₄	7 400
<i>Sulphur hexafluoride</i>	
SF ₆	23 900

Table 2
GWP figures for classes hydrofluorocarbons or perfluorocarbons

Class	Type of hydrofluorocarbon				Type of perfluorocarbon			GWP figure for class
	HFC-23	HFC-32	HFC-125	HFC-134a	HFC-143a	HFC-152a	Other gas	
GWP	11 700	650	2 800	1 300	3 800	140	0	11 700
R23	100%							1 300
R134a				100%				2 730
R403B: 5% R290, 56% R22, 39% R218								3 260
R404A: 44% R125, 52% R143a, 4% R134a			44%	4%	52%			1 530
R407C: 23% R32, 25% R125, 52% R134a		23%	25%	52%				1 940
R408A: 7% R125, 46% R143a, 47% R22			7%		46%			1 730
R410A: 50% R32, 50% R125		50%	50%					1 770
R413A: 9% R218, 88% R134a, 3% R600a				88%			9%	770
R416A: 59% R134a, 39.5% R124, 1.5% R600				59%				1 960
R417A: 46.6% R125, 50% R134a, 3.4% R600			46.6%	50%				2 530
R422A: 85.1% R125, 11.5% R134a, 3.4% R600a			85.1%	11.5%				3 300
R507A: 50% R125, 50% R143a			50%		50%			

Table 3
Default charges for categories of motor vehicles

Category of motor vehicle	Default charge (g)
Cars, vans, and utes	700
Trucks	1 200
Buses and off-engine refrigerated trucks and trailers	2 500

Rebecca Kitteridge,
Clerk of the Executive Council.

Explanatory note

This note is not part of the regulations, but is intended to indicate their general effect.

These regulations, which come into force on 1 January 2011, amend the Climate Change (Other Removal Activities) Regulations 2009. The amendments extend the scope of those regulations to the activities of exporting synthetic greenhouse gases and destroying synthetic greenhouse gases.

Issued under the authority of the Acts and Regulations Publication Act 1989.

Date of notification in *Gazette*: 24 September 2010.

These regulations are administered by the Ministry for the Environment.