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Cape Town
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23 May 2019

No. 42483

THE PRESIDENCY

No. 800

23 May 2019

It is hereby notified that the President has assented to the following Act, which is hereby published for general information:—

Act No. 15 of 2019: Carbon Tax Act, 2019

DIE PRESIDENSIE

No. 800

23 Mei 2019

Hierby word bekend gemaak dat die President sy goedkeuring geheg het aan die onderstaande Wet wat hierby ter algemene inligting gepubliseer word:—

Wet No. 15 van 2019: Wet op Koolstofbelasting, 2019

(English text signed by the President)
(Assented to 22 May 2019)

ACT

To provide for the imposition of a tax on the carbon dioxide (CO₂) equivalent of greenhouse gas emissions; and to provide for matters connected therewith.

PREAMBLE

SINCE the causality of the increasing of anthropogenic greenhouse gas emissions in the atmosphere and the global climate change has been scientifically confirmed;

AND SINCE it has consequently become necessary to manage the inevitable climate change impact through interventions that build and sustain South Africa's social, economic and environmental resilience and emergency response capacity;

AND SINCE it has also become necessary to make a contribution to the global effort to stabilise greenhouse gas concentrations in the atmosphere at a level that avoids dangerous anthropogenic interference with the climate system within a timeframe that enables economic, social and environmental development to proceed in a sustainable manner;

AND SINCE the costs of remedying pollution, environmental degradation and consequent adverse health effects and of preventing, controlling or minimising further pollution, environmental damage or adverse health effects must be paid for by those responsible for harming the environment (the polluter pays principle);

AND SINCE government is desirous to utilise a package of measures in an effort to address the challenges posed by climate change;

AND SINCE this package of measures will be achieved by the deployment of a range of measures to support the system of desired emissions reduction outcomes, including the appropriate pricing of carbon and economic incentives, as well as the use of emissions offsets;

AND SINCE government is of the view that imposing a tax on greenhouse gas emissions and concomitant measures such as providing tax incentives for rewarding the efficient use of energy will provide appropriate price signals to help nudge the economy towards a more sustainable growth path,

BE IT THEREFORE ENACTED by the Parliament of the Republic of South Africa,
as follows:—

Wet op Koolstofbelasting, 2019

Wet No. 15 van 2019

(Engelse teks deur die President geteken)
(Goedgekeur op 22 Mei 2019)

WET

Om voorsiening te maak vir die oplegging van 'n belasting op die koolstofdioksied (CO_2) ekwivalent van kweekhuisgasvrystellings; en om voorsiening te maak vir aangeleenthede wat daar mee in verband staan.

AANHEF

AANGESIEN die oorsaaklikheid van die toename van antropogeniese kweekhuisgasvrystellings in die atmosfeer en die wêreldwyse klimaatsverandering wetenskaplik bevestig is;

EN AANGESIEN dit gevvolglik nodig geword het om die onvermydelike klimaatsveranderingsimpak te bestuur deur ingrypings wat Suid-Afrika se sosiale, ekonomiese en omgewingsveerkragtigheid en -noodreaksiekapasiteit bou en volhou;

EN AANGESIEN dit ook nodig geword het om 'n bydrae te maak tot die wêreldwyse poging om kweekhuisgaskonsentrasies in die atmosfeer te stabiliseer op 'nvlak wat gevaaarlike antropogeniese inmenging met die klimaatsisteem vermy binne 'n tydbestek wat ekonomiese, sosiale en omgewingsontwikkeling in staat stel om op 'n volhoubare wyse voort te gaan;

EN AANGESIEN die koste van die regstelling van besoedeling, omgewingsagteruitgang en gevvolglike nadelige gesondheidseffekte en van voorcoming, vermyding of beperking van verdere besoedeling, omgewingskade of nadelige gesondheidseffekte betaal moet word deur diegene verantwoordelik vir beskadiging van die omgewing (die besoedelaar-betaal-beginsel);

EN AANGESIEN die regering graag 'n bondel maatreëls wil gebruik in 'n poging om die uitdagings deur klimaatsverandering geskep, die hoof te bied;

EN AANGESIEN hierdie bondel maatreëls bereik sal word deur die ontplooiing van 'n verskeidenheid van maatreëls ter ondersteuning van die sisteem van gewenste vrystellingsverminderingssuitkomste, met inbegrip van die gepaste prysvasstelling van koolstof en ekonomiese aansporings, asook die gebruik van vrylatingsverrekenings;

EN AANGESIEN die regering van mening is dat die oplegging van 'n belasting op kweekhuisgasvrystellings en gepaardgaande maatreëls soos die voorsiening van belastingaansporings om die doeltreffende aanwending van energie te beloon gepaste prysseine sal voorsien om te help om die ekonomie in die rigting van 'n meer volhoubare pad van groei te stoot,

WORD DAAR DERHALWE bepaal deur die Parlement van die Republiek van Suid-Afrika, soos volg:—

ARRANGEMENT OF SECTIONS*Sections****Part I******Definitions and general provisions relating to imposition of carbon tax***

1.	Definitions	5
2.	Imposition of carbon tax	
3.	Persons subject to tax	
4.	Tax base	
5.	Rate of tax	
6.	Calculation of amount of tax payable	10

Part II*Allowances*

7.	Allowance for fossil fuel combustion	
8.	Allowance for industrial process emissions	
9.	Allowance in respect of fugitive emissions	15
10.	Trade exposure allowance	
11.	Performance allowance	
12.	Carbon budget allowance	
13.	Offset allowance	

Part III

20

Limitation of allowances

14.	Limitation of sum of allowances	
-----	---------------------------------	--

Part IV***Administration, tax period and payment of tax***

15.	Administration	25
16.	Tax period	
17.	Payment of tax	

Part V*Miscellaneous*

18.	Reporting	30
19.	Regulations	
20.	Amendment of laws	
21.	Short title and commencement	

SCHEDELE 1**SCHEDELE 2**

35

SCHEDELE 3

INDELING VAN ARTIKELS*Artikels****Deel I******Woordomskrywings en algemene bepalings met betrekking tot oplegging van koolstofbelasting***

5

- | | | |
|----|--|----|
| 1. | Woordomskrywing | |
| 2. | Oplegging van koolstofbelasting | |
| 3. | Persone onderworpe aan belasting | |
| 4. | Belastingbasis | |
| 5. | Belastingkoers | 10 |
| 6. | Berekening van bedrag van belasting betaalbaar | |

Deel II***Toelaes***

- | | | |
|-----|--|----|
| 7. | Toelae vir fossielbrandstofverbranding | |
| 8. | Toelae vir industriële proses-vrystellings | 15 |
| 9. | Toelae ten opsigte van vlugtige vrystellings | |
| 10. | Toelae vir handelsblootstelling | |
| 11. | Verrigtingstoelae | |
| 12. | Koolstofbegrotingstoelae | |
| 13. | Verrekeningstoelae | 20 |

Deel III***Beperking van toelaes***

14. Beperking van som van toelaes

Deel IV***Administrasie, belastingtydperk en betaling van belasting***

25

- | | | |
|-----|------------------------|--|
| 15. | Administrasie | |
| 16. | Belastingtydperk | |
| 17. | Betaling van belasting | |

Deel V***Diverse***

30

- | | | |
|-----|--------------------------------|--|
| 18. | Verslagdoening | |
| 19. | Regulasies | |
| 20. | Wysiging van wette | |
| 21. | Kort titel en inwerkingtreding | |

BYLAE 1

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BYLAE 2**BYLAE 3**

Part I***Definitions and general provisions relating to imposition of carbon tax*****Definitions**

1. In this Act, unless the context otherwise indicates—
- “**allowance**” means any amount allowed to be taken into account in terms of Part II, subject to section 14, for the purposes of determining the amount of carbon tax payable; 5
- “**carbon budget**” means an amount of greenhouse gas emissions permitted, against which direct emissions arising from the operations of a person during a defined time period will be accounted for; 10
- “**carbon dioxide (CO₂) equivalent**” means the concentration of carbon dioxide that would cause the same amount of radiative forcing (the difference of sunlight absorbed by the Earth and energy radiated back to space) as a given mixture of carbon dioxide and other greenhouse gases;
- “**carbon tax**” means a tax on the carbon dioxide (CO₂) equivalent of greenhouse gas emissions imposed in terms of section 2; 15
- “**combustion**” means the exothermic reaction of a fuel with oxygen;
- “**Commissioner**” means the Commissioner for the South African Revenue Service;
- “**emission factor**” means the average emission rate of a given greenhouse gas for a given source, relative to the activity data of a source stream assuming complete oxidation for combustion and complete conversion for all other chemical reactions; 20
- “**emissions**” means—
- (a) the release of greenhouse gases or their precursors; or
 - (b) the release of greenhouse gases and their precursors, into the atmosphere, over a specified area and period of time; 25
- “**emissions intensity**” means an indicator of the result of the measurement of the quantity of greenhouse gas emissions in relation to an activity;
- “**emissions intensity benchmark**” means the result of the measurement in respect of an activity that creates greenhouse gas emissions— 30
- (a) expressed as a predetermined value of the quantity of specified greenhouse gas emissions;
 - (b) in relation to an activity that is differentiated from other activities by means of a product, a type of fuel or a technology; and
 - (c) compared against the quantity of greenhouse gas emissions, in relation to an identical activity undertaken by another person; 35
- “**fugitive emissions**” means emissions that are released into the atmosphere by any other means than through an intentional release through stack or vent including extraction, processing, delivery and burning for energy production of fossil fuels, including leaks from industrial plant and pipelines; 40
- “**greenhouse gas**” means gaseous constituents of the atmosphere, both natural and anthropogenic, that absorb and re-emit infrared radiation, and includes carbon dioxide (CO₂), methane (CH₄), nitrous oxide (N₂O), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs) and sulphur hexafluoride (SF₆);
- “**industrial process**” means a manufacturing process that chemically or physically transforms materials; 45
- “**IPCC**” means the Intergovernmental Panel on Climate Change established for the purposes of providing internationally co-ordinated scientific assessments of the magnitude, timing and potential environmental and socio-economic impact of climate change by the United Nations Environment Programme (UNEP) and the World Meteorological Organization (WMO) and endorsed by the United Nations by General Assembly Resolution 43/53 made at the 70th plenary meeting on 6 December 1988; 50
- “**IPCC code**” means the source code in respect of an activity resulting in the emission of a greenhouse gas as stipulated in the “Guidelines for National Greenhouse Gas Inventories” (2006) issued by the IPCC; 55
- “**Minister**” means the Minister of Finance;
- “**person**” includes—
- (a) a partnership;

*Deel I**Woordomskrywing en algemene bepalings met betrekking tot oplegging van koolstofbelasting***Woordomskrywings**

1. In hierdie Wet, tensy uit die samehang anders blyk, beteken—	5
“ belastingpligtige ” ’n persoon aanspreeklik vir die koolstofbelasting ingevolge artikel 3;	
“ belastingtydperk ” ’n tydperk ten opsigte waarvan belasting betaalbaar is soos voorgeskryf kragtens artikel 16;	
“ industriële proses ” ’n vervaardigingsproses wat materiaal chemies of fisies transformeer;	10
“ IPCC ” die “Intergovernmental Panel on Climate Change” gestig met die doel om internasionaal gekoördineerde wetenskaplike assessorings van die grootte, tydsberekening en moontlike omgewings- en sosio-ekonomiese impak van klimaatsverandering te voorsien deur die “United Nations Environment Programme (UNEP)” en die “World Meteorological Organization (WMO)” en geëndosseer deur die Verenigde Nasies deur “General Assembly Resolution 43/53” gemaak by die 70ste volle vergadering op 6 Desember 1988;	15
“ IPCC-kode ” die bronkode ten opsigte van ’n aktiwiteit wat lei tot die vrystelling van ’n kweekhuisgas soos voorgeskryf in die “Guidelines for National Greenhouse Gas Inventories” (2006) uitgereik deur die IPCC;	20
“ Kommisaris ” die Kommisaris vir die Suid-Afrikaanse Inkomstediens;	
“ koolstofbegroting ” ’n toegelate hoeveelheid kweekhuisgasse wat vrygestel mag word, waarteen regstreekse vrystellings wat voortspruit vanuit die bedrywigheede van ’n persoon, tydens ’n omskrewe tydperk in ag geneem sal word;	25
“ koolstofbelasting ” ’n belasting op die koolstofdioksied (CO_2) -ekwivalent van kweekhuisgasvrystellings opgelê kragtens artikel 2;	
“ koolstofdioksied (CO_2) -ekwivalent ” die konsentrasie van koolstofdioksied wat dieselfde hoeveelheid stralingsdwang sou veroorsaak (die verskil van sonlig geabsorbeer deur die aarde en energie teruggestraal na die ruimte) as ’n gegewe mengsel van koolstofdioksied en ander kweekhuisgasse;	30
“ kweekhuisgas ” gasvormige bestanddele van die atmosfeer, beide natuurlik en antropogenies, wat infrarooi straling absorbeer en hervestig, en sluit koolstofdioksied (CO_2), metaan (CH_4), stikstofoksied (N_2O), hidrofluorokoolstowwe (HFC’s), perfluorokoolstowwe (PFCs) en swael heksafluoried (SF_6) in;	35
“ Minister ” die Minister van Finansies;	
“ persoon ” ook—	
(a) ’n venootskap;	
(b) ’n trust;	
(c) ’n munisipale entiteit soos omskryf in artikel 1 van die Wet op Plaaslike Regering: Munisipale Stelsels, 2000 (Wet No. 32 van 2000); en	40
(d) ’n openbare entiteit gelys in Bylaes 2, 3A, 3B, 3C en 3D by die Wet op Openbare Finansiële Bestuur, 1999 (Wet No. 1 van 1999);	
“ toelae ” enige bedrag toegelaat om in ag geneem te word ingevolge Deel II, behoudens artikel 14, vir die doeleindes om die bedrag koolstofbelasting betaalbaar te bereken;	45
“ verbranding ” die eksotermiese reaksie van ’n brandstof met suurstof;	
“ vlugtige vrystellings ” vrystellings wat in die atmosfeer vrygestel word op enige ander manier as deur ’n opsetlike vrystelling deur skoorsteen of luggat insluitend ontrekking, verwerking, aflewering en verbranding vir energieproduksie van fossielbrandstof, insluitend lekkasies uit industriële aanleg en pyleidings;	50
“ vrystellings ”—	
(a) die vrystelling van kweekhuisgasse of hulle voorlopers; of	
(b) die vrystelling van kweekhuisgasse en hulle voorlopers, in die atmosfeer, oor ’n gespesifieerde area en tydperk;	
“ vrystellingsfaktor ” die gemiddelde vrystellingskoers van ’n gegewe kweekhuisgas vir ’n gegewe bron, relatief tot die aktiwiteitsdata van ’n bronstroom met ’n veronderstelling van algehele oksidasie vir verbranding en algehele omskakeling vir alle ander chemiese reaksies;	55

- (b) a trust;
 - (c) a municipal entity as defined in section 1 of the Local Government: Municipal Systems Act, 2000 (Act No. 32 of 2000); and
 - (d) a public entity listed in Schedules 2, 3A, 3B, 3C and 3D to the Public Finance Management Act, 1999 (Act No. 1 of 1999);
- “**taxpayer**” means a person liable for the carbon tax in terms of section 3; and
 “**tax period**” means a period in respect of which tax is payable as prescribed under section 16.

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Imposition of carbon tax

2. There must be levied and collected for the benefit of the National Revenue Fund, 10 a tax to be known as the carbon tax.

Persons subject to tax

3. A person is—

- (a) a taxpayer for the purposes of this Act; and
 - (b) liable to pay an amount of carbon tax calculated as contemplated in section 6 15 in respect of a tax period as specified in section 16,
- if that person conducts an activity in the Republic resulting in greenhouse gas emissions above the threshold determined by matching the activity listed in the column “Activity/Sector” in Schedule 2 with the number in the corresponding line of the column “Threshold” of that table.

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Tax base

4. (1) The carbon tax must be levied in respect of the sum of the greenhouse gas emissions of a taxpayer in respect of a tax period expressed as the carbon dioxide equivalent of those greenhouse gas emissions resulting from fuel combustion and industrial processes, and fugitive emissions in accordance with the emissions factors determined in accordance with a reporting methodology approved by the Department of Environmental Affairs.

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(2) If a reporting methodology approved by the Department of Environmental Affairs for the purposes of determining emission factors does not exist in respect of the calculation of greenhouse gas emissions resulting from fuel combustion, and industrial processes, and fugitive emissions the carbon tax must be levied in respect of the sum of the greenhouse gas emissions of a taxpayer in respect of a tax period expressed as the carbon dioxide equivalent of those greenhouse gas emissions resulting from—

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- (a) fuel combustion in respect of that tax period that is a number constituted by the sum of the respective numbers determined for each type of fuel in respect of which a greenhouse gas is emitted in respect of that tax period which respective numbers must be determined in accordance with the formula:

$$E = (A \times B)$$

in which formula—

- (i) “E” represents the number to be determined;
- (ii) “A” represents the mass of any one type of fuel expressed in tonne that is the source of the greenhouse gas emission, other than any fuel utilised for the purposes of international aviation and maritime transport;
- (iii) “B” represents the greenhouse gas emission factor in carbon dioxide equivalent per tonne that must be determined in accordance with the formula:

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$$X = \{(C \times 1) + (M \times 23) + (N \times 296)\} \times D$$

in which formula—

- (aa) “X” represents the number to be determined;
- (bb) “C” represents the carbon dioxide emissions of a fuel type determined by matching the fuel type listed in the column “fuel type” in Table 1 of Schedule 1 with the number in the corresponding line of the column “CO₂ (KGCO₂/TJ)” of that table;

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“vrystellingsintensiteit” in aanwyser van die uitslag van die meting van die hoeveelheid kweekhuisgasvrystellings met betrekking tot ’n aktiwiteit;

“vrystellingsintensiteit-standaard” die uitslag van die meting van ’n aktiwiteit wat kweekhuisgasse vrystel—

- (a) uitgedruk as ’n voorafbepaalde waarde van die hoeveelheid van gespesifiseerde kweekhuisgasvrystellings; 5
- (b) in verband met ’n aktiwiteit wat onderskei is van ander aktiwiteite deur middel van ’n produk, ’n tipe brandstof of ’n tegnologie; en
- (c) vergelyk teen die hoeveelheid kweekhuisgasvrystellings,

in verband met ’n identiese aktiwiteit onderneem deur ’n ander persoon. 10

Oplegging van koolstofbelasting

2. Daar word gehef en ingevorder ten behoeve van die Nasionale Inkomstefonds, ’n belasting wat bekend staan as die koolstofbelasting.

Persone onderworpe aan belasting

3. ’n Persoon is— 15

- (a) ’n belastingpligtige by die toepassing van hierdie Wet; en
- (b) aanspreeklik om ’n bedrag van koolstofbelasting te betaal, bereken soos beoog in artikel 6 ten opsigte van ’n belastingtydperk soos vermeld in artikel 16,

indien daardie persoon ’n aktiwiteit in die Republiek uitvoer wat lei tot 20 kweekhuisgasvrystellings bo die drempel bepaal deur die aktiwiteit gelys in die kolom “Aktiwiteit/Sektor” in Bylae 2 by die getal in die ooreenstemmende reël in die kolom “Drempel” van daardie tabel te pas.

Belastingbasis

4. (1) Die koolstofbelasting word gehef ten opsigte van die som van die kweekhuisgasvrystellings van ’n belastingpligtige ten opsigte van ’n belastingtydperk uitgedruk as die koolstofdioksied-ekwivalent van daardie kweekhuisgasvrystellings as gevolg van brandstofverbranding en industriële prosesse, en vlugtige vrystellings in ooreenstemming met die vrystellingsfaktore bepaal in ooreenstemming met verslagdoeningsmetodologie goedgekeur deur die Departement van Omgewingsake. 25

(2) Indien ’n verslagdoeningsmetodologie goedgekeur deur die Departement van Omgewingsake vir die doeleindes van die berekening van vrystellingsfaktore nie bestaan nie ten opsigte van die berekening van kweekhuisgasvrystellings as gevolg van brandstofverbranding, en industriële prosesse, en vlugtige vrystellings, word die koolstofbelasting gehef ten opsigte van die som van die kweekhuisgasvrystellings van ’n belastingpligtige ten opsigte van ’n belastingtydperk uitgedruk as die koolstofdioksiedekwivalent van daardie kweekhuisgasvrystellings as gevolg van— 30

- (a) brandstofverbranding ten opsigte van daardie belastingtydperk wat ’n getal is saamgestel deur die som van die onderskeie getalle bepaal vir elke tipe van brandstof ten opsigte waarvan ’n kweekhuisgas vrygestel word ten opsigte van daardie belastingtydperk welke onderskeie getalle bepaal word ooreenkomstig die formule:

$$E = (A \times B)$$

in welke formule—

- (i) “E” die bedrag verteenwoordig wat bepaal staan te word; 45
- (ii) “A” die massa verteenwoordig van enige van die brandstof uitgedruk in ton wat die bron is van die kweekhuisgasvrystelling, buiten enige brandstof gebruik vir die doeleindes van internasionale lugvaart en seevaart;
- (iii) “B” die kweekhuisgasvrystellingsfaktor in koolstofdioksied-ekwivalent per ton verteenwoordig wat bepaal word ooreenkomstig die formule:

$$X = \{(C \times 1) + (M \times 23) + (N \times 296)\} \times D$$

in welke formule—

- (aa) “X” die getal verteenwoordig wat bepaal staan te word;
- (bb) “C” die koolstofdioksiedvrystellings verteenwoordig van ’n brandstofsoort bepaal deur die brandstofsoort gelys in die kolom “brandstofsoort” in Tabel 1 van Bylae 1 te pas met die getal in die ooreenstemmende reël van die kolom “CO₂ (KGCO₂/TJ)” van daardie tabel; 55

- (cc) “M” represents the methane emissions of a fuel type determined by matching the fuel type listed in the column “fuel type” in Table 1 of Schedule 1 with the number in the corresponding line of the column “CH₄ (KGCH₄/TJ)” of that table;
- (dd) “N” represents the Nitrous Oxide emissions of a fuel type determined by matching the fuel type listed in the column “fuel type” in Table 1 of Schedule 1 with the number in the corresponding line of the column “N₂O (KGN₂O/TJ)” of that table; and
- (ee) “D” represents the default calorific value (terajoule per tonne) of a fuel type determined by matching the fuel type listed in the column “fuel type” in Table 1 of Schedule 1 with the number in the corresponding line of the column “DEFAULT CALORIFIC VALUE (TJ/TONNE)” of that table;
- (b) fugitive emissions that is a number constituted by the sum of the respective numbers determined for each type of commodity, fuel or technology in respect of which the greenhouse gas is emitted in respect of a tax period which respective numbers must be determined in accordance with the formula:
- $$F = (N \times Q)$$
- in which formula—
- (i) “F” represents the number to be determined;
 - (ii) “N” represents the mass expressed in tonne in the case of solid fuels or the volume of each type of fuel expressed in cubic metres in the case of fuels other than solid fuels, in respect of the greenhouse gas emission; and
 - (iii) “Q” represents the greenhouse gas emission factor in carbon dioxide equivalent per tonne or cubic metres that must be determined in accordance with the formula:
- $$X = (C \times 1) + (M \times 23) + (N \times 296)$$
- in which formula—
- (aa) “X” represents the number to be determined;
 - (bb) “C” represents the carbon dioxide emissions of a fuel type determined by matching the fuel type listed in the column “fuel type” in Table 2 of Schedule 1 with the number in the corresponding line of the column “CO₂” of that table;
 - (cc) “M” represents the methane emissions of a fuel type determined by matching the fuel type listed in the column “fuel type” in Table 2 of Schedule 1 with the number in the corresponding line of the column “CH₄” of that table;
 - (dd) “N” represents the Nitrous Oxide emissions of a fuel type determined by matching the fuel type listed in the column “fuel type” in Table 2 of Schedule 1 with the number in the corresponding line of the column “N₂O” of that table; and
- (c) industrial process in respect of a tax period that is a number constituted by the sum of the respective numbers determined for each type of commodity, fuel or technology in respect of which the greenhouse gas is emitted in respect of that tax period which respective numbers must be determined in accordance with the formula:
- $$P = (G \times H)$$
- in which formula—
- (i) “P” represents the amount to be determined that must not be less than zero;
 - (ii) “G” represents the mass of each raw material used or product produced expressed in tonne in respect of which the greenhouse gas is emitted in respect of that tax period; and
 - (iii) “H” represents the greenhouse gas emission factor in carbon dioxide emissions equivalent per tonne for each raw material used or product produced that must be determined in accordance with the formula:
- $$X = (C \times 1) + (M \times 23) + (N \times 296) + (H \times 11\,900) + (T \times 5\,700) + (S \times 22\,200)$$
- in which formula—
- (aa) “X” represents the number to be determined;

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<p>(cc) “M” die metaanvrystellings verteenwoordig van ’n brandstofsoort bepaal deur die brandstofsoort gelys in die kolom “brandstofsoort” in Tabel 1 van Bylae 1 te pas by die getal in die ooreenstemmende reël van die kolom “CH₄ (KGCH₄/TJ)” van daardie tabel;</p> <p>(dd) “N” die stikstofoksiedvrystellings verteenwoordig van ’n brandstofsoort bepaal deur die brandstofsoort gelys in die kolom “brandstofsoort” in Tabel 1 van Bylae 1 te pas by die getal in die ooreenstemmende reël van die kolom “N₂O (KGN₂O/TJ)” van daardie tabel; en</p> <p>(ee) “D” die standaard verbrandingswaarde (terajoule per ton) verteenwoordig van ’n brandstofsoort bepaal deur die brandstofsoort gelys in die kolom “brandstofsoort” in Tabel 1 van Bylae 1 te pas by die getal in die ooreenstemmende reël van die kolom “STANDAARD VERBRANDINGSWAARDE (TJ/TONNE)” van daardie tabel; en</p> <p>(b) vlugtige vrystellings wat ’n getal is saamgestel deur die som van die onderskeie getalle bepaal vir elke soort kommoditeit, brandstof of tegnologie ten opsigte waarvan die kweekhuisgas vrygestel is ten opsigte van ’n belastingtydperk welke onderskeie getalle bepaal word ooreenkomstig die formule:</p>	<p>5</p> <p>10</p> <p>15</p>
<p style="text-align: center;">F = (N x Q)</p> <p>in welke formule—</p> <p>(i) “F” die getal verteenwoordig wat bepaal staan te word;</p> <p>(ii) “N” die massa verteenwoordig uitgedruk in ton in die geval van vaste brandstof of die volume van elke soort brandstof uitgedruk in kubieke meter in die geval van brandstof buiten vaste brandstof, ten opsigte van die kweekhuisgasvrystelling; en</p> <p>(iii) “Q” die kweekhuisgasvrystellingsfaktor verteenwoordig in koolstofdioksied ekwivalent per ton of kubieke meter wat bepaal word ooreenkomstig die formule—</p>	<p>20</p> <p>25</p> <p>25</p>
<p style="text-align: center;">X = (C x 1) + (M x 23) + (N x 296)</p> <p>in welke formule—</p> <p>(aa) “X” die getal wat bepaal staan te word verteenwoordig;</p> <p>(bb) “C” die koolstofdioksied van ’n brandstofsoort verteenwoordig bepaal deur die brandstofsoort gelys in die kolom “brandstofsoort” in Tabel 2 van Bylae 1 te pas by die getal in die ooreenstemmende reël van die kolom “CO₂” van daardie tabel;</p> <p>(cc) “M” die metaan van ’n brandstofsoort verteenwoordig bepaal deur die brandstofsoort gelys in die kolom “brandstofsoort” in Tabel 2 van Bylae 1 te pas by die getal in die ooreenstemmende reël van die kolom “CH₄” van daardie tabel;</p> <p>(dd) “N” die stikstofoksied van ’n brandstofsoort verteenwoordig bepaal deur die brandstofsoort gelys in die kolom “brandstofsoort” in Tabel 2 van Bylae 1 te pas by die getal in die ooreenstemmende reël van die kolom “N₂O” van daardie tabel; en</p> <p>(c) industriële proses ten opsigte van ’n belastingtydperk wat ’n getal is saamgestel deur die som van die onderskeie getalle bepaal vir elke soort kommoditeit, brandstof of tegnologie ten opsigte waarvan die kweekhuisgas vrygestel is ten opsigte van daardie belastingtydperk welke onderskeie getalle bepaal word ooreenkomstig die formule:</p>	<p>30</p> <p>35</p> <p>35</p> <p>40</p> <p>45</p>
<p style="text-align: center;">P = (G x H)</p> <p>in welke formule—</p> <p>(i) “P” die bedrag verteenwoordig wat bepaal staan te word wat nie minder as nul is nie;</p> <p>(ii) “G” die massa van elke grondstof gebruik of produk vervaardig uitgedruk in ton verteenwoordig ten opsigte waarvan die kweekhuisgas vrygestel is ten opsigte van daardie belastingtydperk; en</p> <p>(iii) “H” die kweekhuisgasvrystellingsfaktor in koolstofdioksied vrystellingsekwivalent per ton verteenwoordig vir elke grondstof gebruik of produk vervaardig bepaal ooreenkomstig die formule:</p>	<p>50</p> <p>55</p>
<p style="text-align: center;">X = (C x 1) + (M x 23) + (N x 296) + (H x 11 900) + (T x 5 700) + (S x 22 200)</p> <p>in welke formule—</p> <p>(aa) “X” die getal wat bepaal staan te word verteenwoordig;</p>	<p>60</p>

- (bb) “C” represents the carbon dioxide emissions of a raw material or product determined by matching the fuel type listed in the column “SOURCE CATEGORY ACTIVITY / RAW MATERIAL / PRODUCT” in Table 3 of Schedule 1 with the number in the corresponding line of the column “CO₂/tonne product” of that table; 5
- (cc) “M” represents the methane emissions of a raw material or product determined by matching the fuel type listed in the column “SOURCE CATEGORY ACTIVITY / RAW MATERIAL / PRODUCT” in Table 3 of Schedule 1 with the number in the corresponding line of the column “CH₄/tonne product” of that table; 10
- (dd) “N” represents the Nitrous Oxide emissions of a raw material or product determined by matching the fuel type listed in the column “SOURCE CATEGORY ACTIVITY / RAW MATERIAL / PRODUCT” in Table 3 of Schedule 1 with the number in the corresponding line of the column “N₂O/ tonne product” of that table; 15
- (ee) “H” represents the Hexafluoroethane (C₂F₆) emissions of a raw material or product determined by matching the fuel type listed in the column “SOURCE CATEGORY ACTIVITY / RAW MATERIAL / PRODUCT” in Table 3 of Schedule 1 with the number in the corresponding line of the column “C₂F₆/tonne product” of that table; 20
- (ff) “T” represents the carbon tetrafluoride (CF₄) emissions of a raw material or product determined by matching the fuel type listed in the column “SOURCE CATEGORY ACTIVITY / RAW MATERIAL / PRODUCT” in Table 3 of Schedule 1 with the number in the corresponding line of the column “CF₄/tonne product” of that table; and 25
- (gg) “S” represents the Sulphur hexafluoride (SF₆) emissions of a raw material or product determined by matching the fuel type listed in the column “SOURCE CATEGORY ACTIVITY / RAW MATERIAL / PRODUCT” in Table 3 of Schedule 1 with the number in the corresponding line of the column “SF₆/tonne product” of that table. 30

Rate of tax

5. (1) The rate of the carbon tax on greenhouse gas emissions must, subject to subsections (2) and (3), be imposed at an amount of R120 per ton carbon dioxide equivalent of the greenhouse gas emissions of a taxpayer. 35
- (2) The rate of tax specified in subsection (1) must be increased by the amount of the consumer price inflation plus two per cent for the preceding tax period as determined by Statistics South Africa per year until 31 December 2022.
- (3) The rate of tax must be increased after 31 December 2022 by the amount of the consumer price inflation for the preceding tax year as determined by Statistics South Africa. 40

Calculation of amount of tax payable

6. (1) Subject to subsection (2), the amount of tax payable by a taxpayer in respect of a tax period must be calculated in accordance with the formula:
- $$X = \{[(E - S) \times (1 - C)] - [D \times (1 - M)]\} + \{P \times (1 - J)\} + \{F \times (1 - K)\} \times R \quad 45$$
- in which formula—
- (a) “X” represents the amount to be determined that must not be less than zero;
- (b) “E” represents the number in respect of the total fuel combustion related greenhouse gas emissions of the taxpayer in respect of that tax period expressed as a carbon dioxide equivalent determined in terms of section 4(1) or (2)(a); 50
- (c) “S” represents the number in respect of greenhouse gas emissions, expressed in terms of carbon dioxide equivalent that were sequestered in respect of that tax period as verified and certified by the Department of Environmental Affairs; 55

- (bb) “C” die koolstofdioksiedvrystellings van ’n grondstof of produk verteenwoordig bepaal deur die brandstofsoort gelys in die kolom “BRON KATEGORIE AKTIWITEIT/ GRONDSTOF/ PRODUK” in Tabel 3 of Bylae 1 te pas by die getal in die ooreenstemmende reël van die kolom “CO₂/ton produk” van daardie tabel; 5
- (cc) “M” die metaanvrystellings van ’n grondstof of produk verteenwoordig bepaal deur die brandstofsoort gelys in die kolom “BRON KATEGORIE AKTIWITEIT/ GRONDSTOF/ PRODUK” in Tabel 3 van Bylae 1 te pas by die getal in die ooreenstemmende reël van die kolom “CH₄/ton produk” van daardie tabel; 10
- (dd) “N” die stikstofoksiedvrystellings van ’n grondstof of produk verteenwoordig bepaal deur die brandstofsoort gelys in die kolom “BRON KATEGORIE AKTIWITEIT/ GRONDSTOF/ PRODUK” in Tabel 3 van Bylae 1 te pas by die getal in die ooreenstemmende reël van die kolom “N₂O/ ton produk” van daardie tabel; 15
- (ee) “H” die hexafluoroetaan (C₂F₆) vrystellings van ’n grondstof of produk verteenwoordig bepaal deur die brandstofsoort gelys in die kolom “BRON KATEGORIE AKTIWITEIT/ GRONDSTOF/ PRODUK” in Tabel 3 van Bylae 1 te pas by die getal in die ooreenstemmende reël van die kolom “C₂F₆/ton produk” van daardie tabel; 20
- (ff) “T” die koolstoftetrafluoried (CF₄) van ’n grondstof of produk verteenwoordig bepaal deur die brandstofsoort gelys in die kolom “BRON KATEGORIE AKTIWITEIT/ GRONDSTOF/ PRODUK” in Tabel 3 van Bylae 1 te pas by die getal in die ooreenstemmende reël van die kolom “CF₄/ton produk” van daardie tabel; en 25
- (gg) “S” die swaelheksafluoride (SF₆) -vrystellings van ’n grondstof of produk verteenwoordig bepaal deur die brandstofsoort gelys in die kolom “BRON KATEGORIE AKTIWITEIT/ GRONDSTOF/ PRODUK” in Tabel 3 van Bylae 1 te pas by die getal in die ooreenstemmende reël van die kolom “SF₆/ton produk” van daardie tabel. 30

Belastingkoers

5. (1) Die koers van die koolstofbelasting op kweekhuisgasvrystellings word, behoudens subartikels (2) en (3), gehef teen ’n bedrag van R120 per ton koolstofdioksied-ekwivalent van kweekhuisgasvrystellings van ’n belastingpligtige. 35
 (2) Die belastingkoers aangewys in subartikel (1) word verhoog deur die bedrag van die verbruikersprysinflasie plus twee persent vir die voorafgaande belastingtydperk soos bepaal deur Statistiek Suid-Afrika per jaar tot 31 Desember 2022.
 (3) Die belastingkoers word verhoog na 31 Desember 2022 deur die bedrag van die verbruikersprysinflasie vir die voorafgaande belastingtydperk soos bepaal deur Statistiek Suid-Afrika. 40

Berekening van bedrag van belasting betaalbaar

6. (1) Behoudens subartikel (2), word die bedrag van belasting betaalbaar deur ’n belastingpligtige ten opsigte van ’n belastingtydperk bereken ooreenkomstig die formule:

$$X = <\{(E - S) \times (1 - C)\} - [D \times (1-M)]\} + \{P \times (1 - J)\} + \{F \times (1 - K)\}> \times R$$
 in welke formule—
 (a) “X” die bedrag verteenwoordig wat bepaal staan te word wat nie minder as nul moet wees nie;
 (b) “E” die getal verteenwoordig ten opsigte van die totale brandstofverbrandingsverwante kweekhuisgasvrystellings van die belastingpligtige ten opsigte van daardie belastingtydperk uitgedruk as ’n koolstofdioksied-ekwivalent bereken ingevolge artikel 4(1) of (2)(a); 50
 (c) “S” die getal verteenwoordig ten opsigte van kweekhuisgasvrystellings, uitgedruk in terme van die koolstofdioksied-ekwivalent wat gesekwestreer is ten opsigte van daardie belastingtydperk soos geverifieer en gesertifiseer deur die Departement van Omgewingsake; 55

- (d) “C” represents a number equal to the sum of the percentages of allowances determined under sections 7, 10, 11, 12, and 13 in respect of that tax period, subject to section 14;
- (e) “D” represents the number in respect of the petrol and diesel related greenhouse gas emissions of that taxpayer in respect of that tax period expressed as a carbon dioxide equivalent, determined in terms of section 4(1) or (2)(a); 5
- (f) “M” represents a number equal to the sum of the percentages of the allowances determined under sections 7, 12 and 13 in respect of that tax period, subject to section 14; 10
- (g) “P” represents the number in respect of the total industrial process related greenhouse gas emissions of the taxpayer in respect of that tax period expressed as a carbon dioxide equivalent determined in terms of section 4(1) or (2)(c); 15
- (h) “J” represents a number equal to the sum of the percentages of the allowances determined under sections 8, 10, 11, 12 and 13 in respect of that tax period, subject to section 14;
- (i) “F” represents the number in respect of the total fugitive greenhouse gas emissions of the taxpayer in respect of that tax period expressed as a carbon dioxide equivalent determined in terms of section 4(1) or (2)(b); 20
- (j) “K” represents the sum of the percentages of the allowances determined in terms of sections 7, 9, 10, 11, 12 and 13 in respect of that tax period, subject to section 14; and
- (k) “R” represents the rate of tax prescribed under section 5:

Provided that where the number in respect of the determination of the expression “(E-S)” in the formula is less than zero, that number must be deemed to be zero.

(2) The amount of tax payable by a taxpayer in respect of the generation of electricity from fossil fuels in respect of a tax period must be calculated in accordance with the formula:

$$X = A - B - C \quad 30$$

in which formula—

- (a) “X” represents the amount to be determined that must not be less than zero;
- (b) “A” represents the amount of tax payable in respect of a tax period determined in terms of subsection (1);
- (c) “B” represents the renewable energy premium in respect of a tax period, from the commencement of the tax period until 31 December 2022, constituted by an amount expressed in Rand determined by the Minister by notice in the *Gazette*; and 35
- (d) “C” represents an amount equal to the environmental levy contemplated in respect of electricity generated in the Republic in Section B of Part 3 of Schedule 1 to the Customs and Excise Act, 1964 (Act No. 91 of 1964), paid in respect of a tax year, until 31 December 2022. 40

(3) For the purposes of this section “**sequestrate**” means the process of storing a greenhouse gas or increasing the carbon content of a carbon reservoir other than the atmosphere.

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Part II

Allowances

Allowance for fossil fuel combustion

7. (1) A taxpayer that conducts an activity in respect of fuel combustion emissions that is listed in Schedule 2 in the column “Activity/Sector” must receive an allowance in respect of those emissions, determined in terms of subsection (2). 50

(2) The percentage of the allowance referred to in subsection (1) must be calculated by matching the line in which the activity is contained in the column “Activity/Sector” with the corresponding line in the column “Basic tax-free allowance for fossil fuel combustion emissions %” in Schedule 2 of the total percentage of greenhouse gas emissions in respect of a tax period in respect of that activity. 55

- (d) “C” ’n getal verteenwoordig gelyk aan die som van die persentasies van toelaes bereken kragtens artikels 7, 10, 11, 12 en 13 ten opsigte van daardie belastingtydperk, behoudens artikel 14; 5
- (e) “D” die getal verteenwoordig ten opsigte van die petrol- en dieselverwante kweekhuisgasvrystelling van daardie belastingpligtige ten opsigte van daardie belastingtydperk uitgedruk as ’n koolstofdioksied-ekwivalent, bereken ingevolge artikel 4(1) of 4(2)(a); 10
- (f) “M” ’n getal verteenwoordig gelyk aan die som van die persentasies van die toelaes bepaal kragtens artikels 7, 12 en 13 ten opsigte van daardie belastingtydperk, behoudens artikel 14; 10
- (g) “P” ’n getal verteenwoordig ten opsigte van die totale industriële prosesverwante kweekhuisgasvrystelling van die belastingpligtige ten opsigte van daardie belastingtydperk uitgedruk as ’n koolstofdioksied-ekwivalent bereken ingevolge artikel 4(1) of 4(2)(c); 15
- (h) “J” ’n getal verteenwoordig gelyk aan die som van persentasies van die toelaes bepaal kragtens artikels 8, 10, 11, 12 en 13 ten opsigte van daardie belastingtydperk, behoudens artikel 14; 15
- (i) “F” die getal verteenwoordig ten opsigte van die totale vlugtige kweekhuisgasvrystelling van die belastingpligtige ten opsigte van daardie belastingtydperk uitgedruk as ’n koolstofdioksied-ekwivalent bepaal ingevolge artikel 4(1) of 4(2)(b); 20
- (j) “K” die som van die persentasies verteenwoordig van die toelaes bepaal ingevolge artikels 7, 9, 10, 11, 12 en 13 ten opsigte van daardie belastingtydperk, behoudens artikel 14; en 25
- (k) “R” die belastingkoers verteenwoordig voorgeskryf kragtens artikel 5:

Met dien verstande dat waar die getal ten opsigte van die bepaling van die uitdrukking “(E-S)” in die formule minder as nul is, daardie getal geag word nul te wees.

(2) Die bedrag van belasting betaalbaar deur ’n belastingpligtige ten opsigte van die opwekking van elektrisiteit van fossielbrandstof ten opsigte van ’n belastingtydperk word bereken ingevolge die formule:

$$X = A - B - C$$

in welke formule—

- (a) “X” die bedrag verteenwoordig wat bepaal staan te word wat nie minder as nul moet wees nie; 35
- (b) “A” die bedrag van belasting betaalbaar verteenwoordig ten opsigte van ’n belastingtydperk bereken ingevolge subartikel (1);
- (c) “B” die hernubare energiepremie verteenwoordig ten opsigte van ’n belastingtydperk, vanaf die aanvang van die belastingtydperk tot 31 Desember 2022, saamgestel deur ’n bedrag in Rand uitgedruk bepaal deur die Minister by kennisgwing in die *Staatskoerant*; en 40
- (d) “C” ’n bedrag verteenwoordig gelyk aan die omgewingsheffing beoog ten opsigte van elektrisiteit opgewek in die Republiek in Artikel B van Deel 3 van Bylae 1 by die Doeane- en Aksynswet, 1964 (Wet. No. 91 van 1964), betaal ten opsigte van ’n belastingjaar, tot 31 Desember 2022.

(3) By die toepassing van hierdie artikel beteken “**sekwestreer**” die proses van die opberg van ’n kweekhuisgas of vermeerdering van die koolstofinhoud van ’n koolstofreservoir buiten die atmosfeer.

Deel II

Toelaes

Toelae vir fossielbrandstofverbranding

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7. (1) ’n Belastingpligtige wat ’n aktiwiteit uitvoer ten opsigte van brandstofverbrandingvrystellings wat in Bylae 2 in die kolom “Aktiwiteit/Sektor” gelys is, ontvang ’n toelae ten opsigte van daardie vrystellings, ingevolge subartikel (2) bepaal.

(2) Die persentasie van die toelae vermeld in subartikel (1) word bereken deur die reël waarin die aktiwiteit vervat is in die kolom “Aktiwiteit/Sektor” by die ooreenstemmende reël in die kolom “Basiese belastingvrye toelae vir fossielbrandstofverbrandingvrystellings %” in Bylae 2 te pas by die totale persentasie van kweekhuisgasvrystellings ten opsigte van ’n belastingtydperk ten opsigte van daardie aktiwiteit.

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Allowance for industrial process emissions

8. (1) A taxpayer that conducts an activity in respect of industrial process emissions that is listed in Schedule 2 in the column “Activity/Sector” must receive an allowance in respect of those emissions, determined in terms of subsection (2).

(2) The percentage of the allowance referred to in subsection (1) must be calculated by matching the line in which the activity is contained in the column “Activity/Sector” with the corresponding line in the column “Basic tax-free allowance for process emissions %” in Schedule 2 of the total percentage of greenhouse gas emissions in respect of a tax period in respect of that activity. 5

Allowance in respect of fugitive emissions

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9. (1) A taxpayer that conducts an activity that is listed in Schedule 2 in the column “Activity/Sector” must receive an allowance in respect of fugitive emissions in a percentage determined in terms of subsection (2).

(2) The allowance referred to in subsection (1) must be determined by matching the line in which the activity is contained in the column “Activity/Sector” with the corresponding line in the column “Fugitive emissions allowance %” in Schedule 2 in respect of the total percentage of greenhouse gas emissions in respect of the tax period in respect of that activity. 15

Trade exposure allowance

10. A taxpayer that is liable for the carbon tax in respect of greenhouse gas emissions must receive an allowance up to a maximum of ten per cent in respect of trade exposure as measured by value of exports plus imports divided by the total production by sector or subsector that must be determined in a manner prescribed by the Minister by regulation. 20

Performance allowance

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11. (1) A taxpayer that has implemented measures to reduce the greenhouse gas emissions of that taxpayer in respect of a tax period must receive an allowance in respect of that tax period not exceeding five per cent of the total greenhouse gas emissions of that taxpayer during that tax period, determined in accordance with the formula:

$$Z = (A / B - C) \times D \quad 30$$

in which formula—

(a) “Z” represents the percentage to be determined that must not be less than zero;

(b) “A” represents—

(i) the sector or sub-sector greenhouse gas emissions intensity benchmark as prescribed by the Minister; or 35

(ii) where no value is prescribed as required by subparagraph (i), the number zero;

(c) “B” represents the measured and verified greenhouse gas emissions intensity of a taxpayer in respect of a tax period; 40

(d) “C” represents the number one; and

(e) “D” represents the number 100.

(2) For the purposes of this section “measures” include action taken to reduce greenhouse gas emissions in respect of a tax period.

Carbon budget allowance

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12. (1) Subject to subsection (2), a taxpayer that conducts an activity that is listed in Schedule 2 in the column “Activity/Sector”, and participates in the carbon budget system during or before the tax period, must receive an additional allowance of five per cent of the total greenhouse gas emissions in respect of a tax period.

(2) A taxpayer must only receive the allowance as contemplated in subsection (1) if the Department of Environmental Affairs confirms in writing that that taxpayer is participating in the carbon budget system as referred to in subsection (1). 50

Toelae vir industriële prosesvrystellings

8. (1) 'n Belastingpligtige wat 'n aktiwiteit uitvoer ten opsigte van industriële prosesvrystellings wat gelys is in Bylae 2 in die kolom "Aktiwiteit/Sektor" ontvang 'n toelae ten opsigte van daardie vrystellings, ingevolge subartikel (2) bepaal.

(2) Die persentasie van die toelae vermeld in subartikel (1) word bereken deur die reël waarin die aktiwiteit vervat is in die kolom "Aktiwiteit/Sektor" by die ooreenstemmende reël in die kolom "Basiese belastingvrye toelae vir prosesvrystellings %" in Bylae 2 te pas by die totale persentasie van kweekhuisgasvrystellings ten opsigte van 'n belastingtydperk ten opsigte van daardie aktiwiteit.

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Toelae ten opsigte van vlugtige vrystellings

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9. (1) 'n Belastingpligtige wat 'n aktiwiteit uitvoer wat gelys is in Bylae 2 in die kolom "Aktiwiteit/Sektor" ontvang 'n toelae ten opsigte van vlugtige vrystellings in 'n persentasie bepaal ingevolge subartikel (2).

(2) Die toelae vermeld in subartikel (1) word bepaal deur die reël waarin die aktiwiteit vervat is in die kolom "Aktiwiteit/Sektor" by die ooreenstemmende reël in die kolom "Vlugtige vrystellingstoelae %" in Bylae 2 te pas ten opsigte van die totale persentasie van kweekhuisgasvrystellings ten opsigte van 'n belastingtydperk ten opsigte van daardie aktiwiteit.

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Handelsblootstellingstoelae

10. 'n Belastingpligtige wat aanspreeklik is vir die koolstofbelasting ten opsigte van kweekhuisgasvrystellings ontvang 'n toelae tot op 'n maksimum van tien persent ten opsigte van handelsblootstelling soos gemeet deur die waarde van uitvoere plus invoere gedeel deur die totale produksie by sektor of subsektor wat bepaal moet word op 'n wyse deur die Minister by regulasie voorgeskryf.

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Verrigtingstoelae

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11. (1) 'n Belastingpligtige wat maatreëls ingestel het om die kweekhuisgasvrystellings van daardie belastingpligtige te verminder ten opsigte van 'n belastingtydperk ontvang 'n toelae ten opsigte van daardie belastingtydperk wat nie vyf present van die totale kweekhuisgasvrystellings tydens daardie belastingtydperk van daardie belastingpligtige oorskry nie, bepaal ooreenkomsdig die formule:

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$$Z = (A / B - C) \times D$$

in welke formule—

(a) "Z" die persentasie verteenwoordig wat bepaal staan te word wat nie minder as nul moet wees nie;

(b) "A"—

(i) die sektor of sub-sektor kweekhuisgasvrystellings intensiteitdempel verteenwoordig soos deur die Minister voorgeskryf; of

(ii) waar geen waarde voorgeskryf is nie soos vereis deur paragraaf (i), die getal nul verteenwoordig;

(c) "B" die gemete en geverifieerde kweekhuisgasvrystellingsintensiteit van 'n belastingpligtige verteenwoordig ten opsigte van 'n belastingtydperk;

(d) "C" die getal een verteenwoordig; en

(e) "D" die getal 100 verteenwoordig.

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(2) By die toepassing van hierdie artikel sluit "maatreëls" stappe in wat gedoen is om kweekhuisgasvrystellings ten opsigte van 'n belastingtydperk te verminder.

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Koolstofbegrotingstoelae

12. (1) Behoudens subartikel (2), moet 'n belastingpligtige wat 'n aktiwiteit uitvoer wat gelys is in bylae 2 in die kolom "Aktiwiteit/Sektor", en deelneem aan die koolstofbegrotingsysteem tydens of voor die belastingtydperk, 'n addisionele toelae van vyf persent van die totale kweekhuisgasvrystellings ten opsigte van 'n belastingtydperk ontvang.

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(2) 'n Belastingpligtige ontvang slegs die toelae soos beoog in subartikel (1) indien die Departement van Omgewingsake skriftelik bevestig dat daardie belastingpligtige deelneem aan 'n koolstofbegrotingsysteem soos in subartikel (1) vermeld.

Offset allowance

13. (1) Subject to subsection (2), a taxpayer must reduce the amount in respect of the carbon tax for which the taxpayer is liable in respect of a tax period by utilising carbon offsets as prescribed by the Minister.

(2) The reduction of the liability for the carbon tax allowed in terms of subsection (1) must not exceed so much of the percentage of the total greenhouse gas emissions of a taxpayer in respect of a tax period as is determined by matching the line in the column “Activity/Sector” with the percentage in the corresponding line of the column “Offsets allowance %” in Schedule 2. 5

Part III

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Limitation of allowances**Limitation of sum of allowances**

14. A taxpayer, other than a taxpayer in respect of which the maximum total allowance stipulated Schedule 2 constitutes 100 per cent, must only receive the sum of the allowances contemplated in Part II in respect of a tax period to the extent that the sum of those allowances does not exceed 95 per cent of the total greenhouse gas emissions of that taxpayer in respect of that tax period as determined in terms of the column “Maximum total allowances %” in Schedule 2. 15

Part IV

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Administration, tax period and payment of tax**Administration**

15. (1) The Commissioner must administer the provisions of this Act as if the carbon tax were an environmental levy as contemplated in section 54A of the Customs and Excise Act, 1964 (Act No. 91 of 1964), that must be collected and paid in terms of the provisions of that Act. 25

(2) For the purposes of subsection (1), administrative actions, requirements and procedures for purposes of submission and verification of accounts, collection and payment of the carbon tax as an environmental levy or the performance of any duty, power or obligation or the exercise of any right in terms of this Act are, to the extent not regulated in this Act, regulated by the Customs and Excise Act, 1964. 30

Tax period

16. (1) A taxpayer must pay the carbon tax for every tax period.

(2) A tax period in relation to a taxpayer is—

- (a) commencing on 1 June 2019 and ending on 31 December 2019; and
- (b) subsequent to the period contemplated in paragraph (a), the period commencing on 1 January of each year and ending on 31 December of that year. 35

Payment of tax

17. A taxpayer must submit yearly environmental levy accounts and payments as prescribed by rule in terms of the Customs and Excise Act, 1964 (Act No. 91 of 1964), for every tax period. 40

Verrekeningstoelae

13. (1) Behoudens subartikel (2), verminder 'n belastingpligtige die bedrag ten opsigte van die koolstofbelasting waarvoor die belastingpligtige aanspreeklik is ten opsigte van 'n belastingtydperk deur koolstofverrekenings te gebruik soos voorgeskryf deur die Minister.

(2) Die vermindering van die aanspreeklikheid vir die koolstofbelasting toegelaat ingevolge subartikel (1) mag nie soveel van die persentasie van die totale kweekhuisgasvrystellings van 'n belastingpligtige ten opsigte van 'n belastingtydperk oorskry nie as wat bepaal is deur die reël in die kolom "Aktiwiteit/Sektor" te pas by die persentasie in die ooreenstemmende reël van die kolom "Verrekeningstoelae %" in Bylae 2.

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Deel III***Beperking van toelaes*****Beperking van som van toelaes**

14. 'n Belastingpligtige, buiten 'n belastingpligtige ten opsigte waarvan die maksimum totale toelae vermeld in Bylae 2, 100 persent uitmaak, ontvang slegs die som van die toelaes beoog in Deel II ten opsigte van 'n belastingtydperk namate die som van daardie toelaes nie 95 persent of die totale kweekhuisgasvrystellings van daardie belastingpligtige oorskry nie ten opsigte van daardie belastingtydperk soos bepaal ingevolge die kolom "Maksimum totale toelaes %" in Bylae 2.

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Deel IV***Administrasie, belastingtydperk en betaling van belasting*****Administrasie**

15. (1) Die Kommissaris administreer die bepalings van hierdie Wet asof die koolstofbelasting 'n omgewingsheffing is soos beoog in artikel 54A van die Doeane- en Aksynswet, 1964 (Wet No. 91 van 1964), wat ingevorder en bepaal word ingevolge die bepalings van daardie Wet.

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(2) By die toepassing van subartikel (1) word administratiewe handelinge, vereistes en prosedures met die oog op indiening en stawing van rekeninge, invordering en betaling van koolstofbelasting as 'n omgewingsheffing of die uitvoering van enige plig, bevoegdheid of verpligting of die uitoefening van enige reg ingevolge hierdie Wet, in die mate nie in hierdie Wet gereël nie, deur die Doeane- en Aksynswet, 1964, gereël.

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Belastingtydperk

16. (1) 'n Belastingpligtige moet die koolstofbelasting vir elke belastingtydperk betaal.

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(2) 'n Belastingtydperk met betrekking tot 'n belastingpligtige is—

- (a) vanaf 1 Julie 2019 eindigende op 31 Desember 2019; en
- (b) ná die tydperk beoog in paragraaf (a), die tydperk wat begin op 1 Januarie van elke jaar en eindig op 31 Desember van daardie jaar.

Betaling van belasting

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17. 'n Belastingpligtige moet jaarliks omgewingsheffingsrekeninge en -betalings indien soos voorgeskryf by reël ingevolge die Doeane- en Aksynswet, 1964 (Wet No. 91 van 1964), vir elke belastingtydperk.

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*Part V**Miscellaneous***Reporting**

18. Despite Chapter 6 of the Tax Administration Act, the Commissioner must annually submit to the Minister a report, in the form and manner that the Minister may prescribe, within six months from the date of submission of environmental levy accounts and payments contemplated in section 17 advising the Minister in respect of that tax period of—

- (a) the total amount of greenhouse gas emissions reported in respect of which taxpayers are liable for the carbon tax; and
- (b) the amount of carbon tax collected.

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Regulations

19. The Minister must make regulations in respect of—

- (a) the sector or sub-sector greenhouse gas emissions intensity benchmark for the purposes of symbol “A” in section 11(1);
- (b) the manner of determining the amount of the trade exposure allowance contemplated in section 10; and
- (c) carbon offsets contemplated in section 13 regarding—
 - (i) the projects or activities in respect of which an offset is generated;
 - (ii) the limitation on the carbon offset allowance;
 - (iii) offset duration periods;
 - (iv) the institution, board or body that must administer the offset allowance;
 - (v) the powers and responsibilities of the institution, board or body contemplated in subparagraph (iv);
 - (vi) the procedure that must be followed in claiming the offset allowance;
 - (vii) the records that must be kept in respect of administering the offset allowance; and
 - (viii) any other matter necessary for the regulation of the utilisation of the carbon offsets.

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Amendment of laws

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20. The Customs and Excise Act, 1964 (Act No. 91 of 1964), is hereby amended to the extent set out in Schedule 3.

Short title and commencement

21. This Act is called the Carbon Tax Act, 2019, and comes into operation on 1 June 2019.

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Wet op Koolstofbelasting, 2019

Wet No. 15 van 2019

21

Deel V***Diverse*****Verslagdoening**

18. Ondanks Hoofstuk 6 van die Wet op Belastingadministrasie, dien die Kommissaris jaarliks 'n verslag in by die Minister, in die vorm en wyse wat die Minister mag voorskryf, binne ses maande vanaf die datum van indiening van omgewingsheffingsrekeninge en betalings beoog in artikel 17, wat die Minister van raad dien ten opsigte van daardie belastingtydperk van—

- (a) die totale bedrag van kweekhuisgasvrystellings aangemeld ten opsigte waarvan belastingpligtiges aanspreeklik is vir die koolstofbelasting; en 10
- (b) die bedrag van koolstofbelasting ingesamel.

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Regulasies

19. Die Minister vaardig regulasies uit ten opsigte van—

- (a) die sektor of sub-sektor kweekhuisgasvrystellings intensiteitsdrempel by die toepassing van simbool "A" in artikel 11(1); 15
- (b) die wyse van die bepaling van die bedrag van die handelsblootstellingstoelae beoog in artikel 10;
- (c) koolstofverrekenings beoog in artikel 13 met betrekking tot—
 - (i) die projekte of aktiwiteite ten opsigte waarvan 'n verrekening verwek is;
 - (ii) die beperking op die koolstofverrekeningstoelae;
 - (iii) die duur van verrekeningstydperke;
 - (iv) die instelling, raad of liggaam wat die verrekeningstoelae administreer;
 - (v) die magte en verantwoordelikhede van die instelling, raad of liggaam beoog in subparagraph (iv);
 - (vi) die prosedure wat gevolg word by die opeising van die verrekeningstoelae;
 - (vii) die rekords wat gehou word ten opsigte van administrasie van die verrekeningstoelae; en
- (viii) enige ander aangeleentheid nodig vir die regulasie of die gebruik van koolstofverrekenings. 30

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Wysiging van wette

20. Die Doeane- en Aksynswet, 1964 (Wet No. 91 van 1964), word hierby gewysig tot die mate in Bylae 3 uiteengesit.

Kort titel en inwerkingtreding

21. Hierdie Wet heet die Wet op Koolstofbelasting, 2019, en tree in werking op 1 Junie 2019. 35

Schedule 1**Table 1****Fuel Combustion Emission Factors****STATIONARY SOURCE CATEGORY**

FUEL TYPE	CO₂ (KGCO₂/ TJ)	CH₄ (KGCH₄/ TJ)	N₂O (KGN₂O/ TJ)	DEFAULT CALORIFIC VALUE (TJ/TONNE)
ANTHRACITE	98 300	1	1.5	0.0267
AVIATION GASOLINE	70 000	3	0.6	0.0443
BIODIESEL	0	3	0.6	0.027
BIOGASOLINE	0	3	0.6	0.027
BITUMEN	80 700	3	0.6	0.0402
BLAST FURNACE GAS	260 000	1	0.1	0.00247
DIESEL	74 100	3	0.6	0.043
BROWN COAL BRI- QUETTES	97 500	1	1.5	0.0207
CHARCOAL	0	200	4	0.0295
COAL TAR	80 700	1	1.5	0.028
COKE OVEN COKE AND LIGNITE COKE	107 000	1	1.5	0.0282
COKE OVEN GAS	44 400	1	0.1	0.0387
COKING COAL	94 600	1	1.5	0.0282
CRUDE OIL	73 300	3	0.6	0.0438
DIESEL	74 100	3	0.6	0.0381
ETHANE	61 600	1	0.1	0.0464
GAS COKE	107 000	1	0.1	0.0173
GAS WORKS GAS	44 400	1	0.1	0.0387
INDUSTRIAL WASTES	143 000	30	4	N/A
JET GASOLINE	70 000	3	0.6	0.0443
JET KEROSENE	71 500	3	0.6	0.0441
LANDFILL GAS	0	1	0.1	0.0504
LIGNITE	101 000	1	1.5	0.0119
LIQUEFIED PETROLEUM GASES	63 100	1	0.1	0.0473
LUBRICANTS	73 300	3	0.6	0.0402
MUNICIPAL WASTES (BIOMASS FRACTION)	0	30	4	0.0116
MUNICIPAL WASTES (NON BIOMASS FRACTION)	91 700	30	4	0.01
NAPHTHA	73 700	3	0.6	0.0445
NATURAL GAS	56 100	1	0.1	0.048
NATURAL GAS LIQUIDS	64 200	3	0.6	0.041
OIL SHALE AND TAR SANDS	107 000	1	1.5	0.0089
ORIMULSION	77 000	3	0.6	0.0275

Wet op Koolstofbelasting, 2019

Wet No. 15 van 2019

23

Bylae 1**Tabel 1****Brandstofverbranding vrystellingsfaktore****STILSTAANDE BRON KATEGORIE**

BRANDSTOFSOORT	CO₂ (KGCO₂/ TJ)	CH₄ (KGCH₄/ TJ)	N₂O (KGN₂O/ TJ)	STANDAARD VERBRANDINGS- WAARDE (TJ/TON)
ANTRASIET	98 300	1	1.5	0.0267
LUGVAARTPETROL	70 000	3	0.6	0.0443
BIODIESEL	0	3	0.6	0.027
BIOPETROL	0	3	0.6	0.027
BITUMEN	80 700	3	0.6	0.0402
HOOGOONDGAS	260 000	1	0.1	0.00247
DIESEL	74 100	3	0.6	0.043
BRUINKOOLBRIKETTE	97 500	1	1.5	0.0207
STEENKOOL	0	200	4	0.0295
KOOLTEER	80 700	1	1.5	0.028
KOOKOOND KOOKS EN LIGNIET KOOKS	107 000	1	1.5	0.0282
KOOKOOND GAS	44 400	1	0.1	0.0387
KOOKSSTEENKOOL	94 600	1	1.5	0.0282
RUOLIE	73 300	3	0.6	0.0438
DIESEL	74 100	3	0.6	0.0381
ETAAN	61 600	1	0.1	0.0464
GASKOOKS	107 000	1	0.1	0.0173
GASFABRIEK GAS	44 400	1	0.1	0.0387
FABRIEKSVAL	143 000	30	4	NVT
STRAALVLIEGTUIG PETROL	70 000	3	0.6	0.0443
STRAALVLIEGTUIG KEROSEEN	71 500	3	0.6	0.0441
GRONDOPVULLINGSGAS	0	1	0.1	0.0504
LIGNIET	101 000	1	1.5	0.0119
VLOEIBARE PETROLEUM GASSE	63 100	1	0.1	0.0473
SMEEROLIE	73 300	3	0.6	0.0402
MUNISIPALE AFVAL (BIOMASSA BREUKDEEL)	0	30	4	0.0116
MUNISIPALE AFVAL (NIE BIOMASSA BREUKDEEL)	91 700	30	4	0.01
NAFTA	73 700	3	0.6	0.0445
AARDGAS	56 100	1	0.1	0.048
AARDGAS VLOEISTOWWE	64 200	3	0.6	0.041
OLIESKALIE EN TEERSAND	107 000	1	1.5	0.0089
ORIMULSION	77 000	3	0.6	0.0275

FUEL TYPE	CO ₂ (KG CO ₂ / TJ)	CH ₄ (KG CH ₄ / TJ)	N ₂ O (KG N ₂ O/ TJ)	DEFAULT CALORIFIC VALUE (TJ/TONNE)
OTHER BIOGAS	0	1	0.1	0.0504
OTHER BITUMINOUS COAL	94 600	1	1.5	0.0243
OTHER KEROSENE	71 900	3	0.6	0.037
OTHER LIQUID BIOFUELS	0	3	0.6	0.0274
OTHER PETROLEUM PRODUCTS	73 300	3	0.6	0.0402
OTHER PRIMARY SOLID BIOMASS	0	30	4	0.0116
OXYGEN STEEL FURNACE GAS	182 000	1	0.1	0.00706
PARAFFIN	71 900	3	0.6	0.0438
PARAFFIN WAXES	73 300	3	0.6	0.0402
PATENT FUEL	97 500	1	1.5	0.0207
PEAT	0	1	1.5	0.00976
PETROL	69 300	3	0.6	0.0443
PETROLEUM COKE	97 500	3	0.6	0.0325
REFINERY FEEDSTOCK	73 300	3	0.6	0.043
REFINERY GAS	57 600	1	0.1	0.0495
RESIDUAL FUEL OIL (HEAVY FUEL OIL)	77 400	3	0.6	0.0404
SHALE OIL	73 300	3	0.6	0.0381
SLUDGE GAS	0	1	0.1	0.0504
SUB-BITUMINOUS COAL	96 100	1	1.5	0.0192
SULPHITE LYES (BLACK LIQUOR)	95 300	3	2	0.0118
WASTE OILS	73 300	30	4	0.0402
WHITE SPIRIT AND SBP	73 300	3	0.6	0.0402
WOOD/WOOD WASTE	0	30	4	0.0156

Wet op Koolstofbelasting, 2019

Wet No. 15 van 2019

BRANDSTOFSOORT	CO ₂ (KGCO ₂ / TJ)	CH ₄ (KGCH ₄ / TJ)	N ₂ O (KGN ₂ O/ TJ)	STANDAARD VERBRANDINGS- WAARDE (TJ/TON)
ANDER BIOGAS	0	1	0.1	0.0504
ANDER BITUMINEUSE STEENKOOL	94 600	1	1.5	0.0192
ANDER KEROSIEN	71 900	3	0.6	0.037
ANDER VLOEIBARE BIOBRANDSTOWWE	0	3	0.6	0.0274
ANDER PETROLEUM-PRODUKTE	73 300	3	0.6	0.0402
ANDER PRIMÈRE VASTE BIOMASSA	0	30	4	0.0116
SUURSTOF STAAL SMELTOONDGAS	182 000	1	0.1	0.00706
PARAFFIEN	71 900	3	0.6	0.0438
PARAFFIENWAS	73 300	3	0.6	0.0402
“PATENT BRANDSTOF”	97 500	1	1.5	0.0207
VEEN	0	1	1.5	0.00976
PETROL	69 300	3	0.6	0.0443
PETROLEUM KOOKS	97 500	3	0.6	0.0325
RAFFINADERY VOERSTOF	73 300	3	0.6	0.043
RAFFINADERY GAS	57 600	1	0.1	0.0495
RESIDU BRANDSTOF-OLIE (SWAAR BRANDSTOF-OLIE)	77 400	3	0.6	0.0404
SKALIE-OLIE	73 300	3	0.6	0.0381
SLYKGAS	0	1	0.1	0.0504
SUB-BITUMINEUSE STEENKOOL	96 100	1	1.5	0.0192
SULFIETLOOG (“SWART VLOEISTOF”)	95 300	3	2	0.0118
AFVAL-OLIE	73 300	30	4	0.0402
WIT SPIRITUS EN “SBP”	73 300	3	0.6	0.0402
HOUT/HOUTAFVAL	0	30	4	0.0156

NON-STATIONARY / MOBILE SOURCE CATEGORY ACTIVITY

FUEL TYPE	CO ₂ (KG CO ₂ /TJ)	CH ₄ (KG CH ₄ /TJ)	N ₂ O (KG N ₂ O/TJ)	DEFAULT CALORIFIC VALUE (TJ/TONNE)
AVIATION GASOLINE	70 000	0.5	2	0.0443
COMPRESSED NATURAL GAS	56 100	92	3	N/A
DIESEL	74 100	4.15	28.6	0.0381
DIESEL — (OCEAN-GOING SHIPS)	74 100	7	2	0.0381
DIESEL-RAIL	74 100	4.5	28.6	0.0381
JET KEROSENE	71 500	0.5	2	0.0441
KEROSENE	71 900	3	0.6	0.037
LIQUEFIED NATURAL GASES	56 100	92	3	N/A
LIQUEFIED PETROLEUM GASES	63 100	62	0.2	0.0473
LUBRICANTS	73 300	3	0.6	0.0402
NATURAL GAS	56 100	92	3	0.048
(PARAFFIN) OTHER KEROSENE	71 900	3	0.6	0.0438
OTHER PETROLEUM PRODUCTS	73 300	3	0.6	0.0402
PARAFFIN WAXES	73 300	3	0.6	0.0402
PETROL	69 300	3.5	5.7	0.0443
REFINERY GAS	57 600	1	0.1	0.0495
RESIDUAL FUEL OIL — (HEAVY FUEL OIL)	77 400	7	2	0.0404
SUB-BITUMINOUS COAL — RAIL	96 100	2	1.5	0.0192
WHITE SPIRIT & SBP	73 300	3	0.6	0.0402

Wet op Koolstofbelasting, 2019

Wet No. 15 van 2019

NIE-STILSTAANDE / BEWEEGLIKE BRON KATEGORIE AKTIWITEIT

BRANDSTOFSOORT	CO ₂ (KGCO ₂ / TJ)	CH ₄ (KGCH ₄ / TJ)	N ₂ O (KGN ₂ O/ TJ)	STANDAARD VERBRANDINGS- WAARDE (TJ/TONNE)
LUGVAARTPETROL	70 000	0.5	2	0.0443
SAAMGEPERSTE AARDGAS	56 100	92	3	NVT
DIESEL	74 100	4.15	28.6	0.0381
DIESEL — (SEEVARENDE SKEPE)	74 100	7	2	0.0381
DIESEL — SPOOR	74 100	4.5	28.6	0.0381
STRAALVLIEGTUIG KEROSEEN	71 500	0.5	2	0.0441
KEROSEEN	71 900	3	0.6	0.037
AARDGASVLOEISTOWWE	56 100	92	3	NVT
VLOEIBARE PETROLEUMGASSE	63 100	62	0.2	0.0473
SMEEROLIE	73 300	3	0.6	0.0402
AARDGAS	56 100	92	3	0.048
(PARAFFIEN) ANDER KEROSEEN	71 900	3	0.6	0.0438
ANDER PETROLEUMPRODUKTE	73 300	3	0.6	0.0402
PARAFFIENWAS	73 300	3	0.6	0.0402
PETROL	69 300	3.5	5.7	0.0443
RAFFINADERYGAS	57 600	1	0.1	0.0495
RESIDU BRANDSTOF- OLIE (SWAAR BRANDSTOF-OLIE)	77 400	7	2	0.0404
SUB-BITUMINEUSE STEENKOOLSPOOR	96 100	2	1.5	0.0192
WIT SPIRITUS EN "SBP"	73 300	3	0.6	0.0402

Schedule 1**Table 2****Fugitive Emission Factors**

IPCC Code	SOURCE CATEGORY ACTIVITY	CO ₂	CH ₄	N ₂ O
1B1	SOLID FUELS (M³ /TONNE)			
1B1a	COAL MINING AND HANDLING			
1B1ai	UNDERGROUND COAL MINING	0.077	0.77	
	UNDERGROUND POST-MINING (HANDLING & TRANSPORT)	0.018	0.18	
1B1aII	SURFACE COAL MINING	N/A	0	
	SURFACE POST-MINING (STORAGE AND TRANSPORT)	N/A	0	
1B1c2	Charcoal production (Fuel wood input) (kgCH ₄ /TJ)	N/A	300	
	Charcoal production (Charcoal produced) (kgCH ₄ /TJ)	N/A	1000	
1B2	OIL AND NATURAL GAS (Gg/ 10³M³ TOTAL OIL PRODUCTION)			
1B2b	NATURAL GAS			
1B2b	FLARING AND VENTING			
1.B.2.b.ii	WELL DRILLING	0.0001	0.000033	ND
1.B.2.b.ii	WELL TESTING	0.009	0.000051	0.000000068
1.B.2.b.ii	WELL SERVICING	0.0000019	0.00011	ND
1B2b	GAS PRODUCTION (Gg/ 10⁶M³ TOTAL OIL PRODUCTION)			
1.B.2.b.iii.2	FUGITIVES	1.40E-05 to 8.20E-05	3.80E-04 to 2.30E-03	N/A
1.B.2.b.ii	FLARING	0.0012	0.00000076	0.000000021
	GAS PROCESSING (Gg/ 10⁶M³ RAW GAS FEED)			
1.B.2.b.iii.3	SWEET GAS PLANTS—FUGITIVES	1.50E-04 to 3.20E-04	4.80E-04 to 1.03E-03	N/A
1.B.2.b.ii	SWEET GAS PLANTS—FLARING	0.0018	0.0000012	0.000000025
1.B.2.b.iii.3	SOUR GAS PLANTS—FUGITIVES	0.0000079	0.000097	N/A
1.B.2.b.ii	SOUR GAS PLANTS—FLARING	0.0036	0.0000024	0.000000054
1.B.2.b.i	SOUR GAS PLANTS —RAW CO ₂ VENTING	0.063	N/A	N/A
1.B.2.b.iii.3	DEEP CUT EXTRACTION—FUGITIVES	0.0000016	0.000011	N/A
1.B.2.b.ii	DEEP CUT EXTRACTION—FLARING	0.00011	0.000000072	0.000000012
1.B.2.b.iii.3	DEFAULT—FUGITIVES	1.20E-05 to 3.20E-04	1.50E-04 to 1.03E-03	N/A
1.B.2.b.ii	DEFAULT—FLARING	0.003	0.000002	0.000000033
1.B.2.b.i	DEFAULT—RAW CO ₂ VENTING	0.04	N/A	N/A
1B2b	GAS TRANSMISSION & STORAGE (Gg-CO₂/year/km)			
1.B.2.b.iii.4	TRANSMISSION—FUGITIVES	0.000016	0.0025	N/A
1.B.2.b.i	TRANSMISSION—VENTING	0.0000085	0.0010	N/A
1.B.2.b.iii.4	STORAGE (Gg-CO ₂ /year/M ³)		2.32E-09	ND
1B2b	GAS DISTRIBUTION (Gg/ 10⁶M³ OF UTILITY SALES)			

Bylae 1**Tabel 2****Vlugtige vrystellingsfaktore**

IPCC-kode	BRONKATEGORIE FAKTORE	CO ₂	CH ₄	N ₂ O
1B1	VASTE BRANDSTOF (M³/TON)			
1B1a	STEENKOOLMYNBOU EN HANTERING			
1B1ai	ONDERGRONDSE STEENKOOLMYNBOU	0.077	0.77	
	ONDERGRONDSE NA-MYNBOU (HANTERING & VERVOER)	0.018	0.18	
1B1aii	BOGRONDse STEENKOOLMYNBOU	NVT	0	
	BOGRONDse NA-MYNBOU (BERGING EN VERVOER)	NVT	0	
1B1c2	HOUTSKOOLPRODUKSIE (Brandstof hout toevoer) (kgCH ₄ /TJ)	NVT	300	
	Houtskoolproduksie (Houtskool geproduceer) (kgCH ₄ /TJ)	NVT	1000	
1B2	OLIE EN AARDGAS (Gg/ 10³M³ TOTALE OLIEPRODUKSIE)			
1B2b	AARDGAS			
1B2b	OPVLAMMING EN ONTLUGTING			
1.B.2.b.ii	PUTBOOR	0.0001	0.000033	ND
1.B.2.b.ii	PUTTOETS	0.009	0.000051	0.000000068
1.B.2.b.ii	PUTDIENS	0.0000019	0.00011	ND
1B2b	GASPRODUKSIE (Gg/ 10⁶M³ TOTAAL OLIEPRODUKSIE)			
1.B.2.b.iii.2	VLUGTIGES	1.40E-05 tot 8.20E-05	3.80E-04 tot 2.30E-03	NVT
1.B.2.b.ii	OPVLAMMING	0.0012	0.00000076	0.000000021
	GASVERWERKING (Gg/ 10⁶M³ ROUGASTOEVOER)			
1.B.2.b.iii.3	SOET GAS AANLEG—VLUGTIGES	1.50E-04 tot 3.20E-04	4.80E-04 tot 1.03E-03	NVT
1.B.2.b.ii	SOET GAS AANLEG—OPVLAMMING	0.0018	0.0000012	0.000000025
1.B.2.b.iii.3	SUUR GAS AANLEG—VLUGTIGES	0.0000079	0.000097	NVT
1.B.2.b.ii	SUUR GAS AANLEG—OPVLAMMING	0.0036	0.0000024	0.000000054
1.B.2.b.i	SUUR GAS AANLEG—RU CO ₂ ONTLUGTING	0.063	NVT	NVT
1.B.2.b.iii.3	DIEPGROEFONTGINNING—VLUGTIGES	0.0000016	0.000011	NVT
1.B.2.b.ii	DIEPGROEFONTGINNING—OPVLAMMING	0.00011	0.000000072	0.000000012
1.B.2.b.iii.3	STANDAARD—VLUGTIGES	1.20E-05 tot 3.20E-04	1.50E-04 tot 1.03E-03	NVT
1.B.2.b.ii	STANDAARD—OPVLAMMING	0.003	0.000002	0.000000033
1.B.2.b.i	STANDAARD—RU CO ₂ ONTVLUGTING	0.04	NVT	NVT
1B2b	GASLEIDING & -BERGING (Gg-CO₂/jaar/km)			

IPCC Code	SOURCE CATEGORY ACTIVITY	CO ₂	CH ₄	N ₂ O
1.B.2.b.iii.5	ALL	0.000051	0.0011	ND
1B2b	NATURAL GAS LIQUIDS TRANSPORT (Gg/ 10³M³ CONDENSATE AND PENTANES PLUS)			
1.B.2.a.iii.3	CONDENSATE	0.0000072	0.00011	
1.B.2.a.iii.3	LIQUEFIED PETROLEUM GAS (Gg/ 10 ³ M ³ LPG)	0.00043	N/A	2.2 0E-09
1.B.2.a.iii.3	LIQUEFIED NATURAL GAS (Gg/ 10 ⁶ M ³ MARKETABLE GAS)	ND	ND	ND
1B2a	OIL			
1B2a	OIL PRODUCTION (Gg/ 10³M³ CONVENTIONAL OIL PRODUCTION)			
1.B.2.a.iii.2	CONVENTIONAL OIL—FUGITIVES (ONSHORE)	1.10E-07 to 2.60E-04	1.50E-06 to 3.60E-03	N/A
1.B.2.a.iii.2	CONVENTIONAL OIL—FUGITIVES (OFFSHORE)	0.000000043	0.000000059	N/A
1.B.2.a.i	CONVENTIONAL OIL—VENTING	0.000095	0.00072	N/A
1.B.2.a.ii	CONVENTIONAL OIL—FLARING	0.041	0.000025	0.00000064
1B2a	OIL PRODUCTION (Gg/ 10³M³ HEAVY OIL PRODUCTION)			
1.B.2.a.iii.2	HEAVY OIL/COLD BITUMEN—FUGITIVES	0.00054	0.0079	N/A
1.B.2.a.i	HEAVY OIL/COLD BITUMEN—VENTING	0.0053	0.017	N/A
1.B.2.a.ii	HEAVY OIL/COLD BITUMEN—FLARING	0.022	0.00014	0.00000046
1B2a	OIL PRODUCTION (Gg/ 10³M³ THERMAL BITUMEN PRODUCTION)			
1.B.2.a.iii.2	THERMAL OIL PRODUCTION—FUGITIVES	0.000029	0.00018	N/A
1.B.2.a.i	THERMAL OIL PRODUCTION—VENTING	0.00022	0.0035	N/A
1.B.2.a.ii	THERMAL OIL PRODUCTION—FLARING	0.027	0.000016	0.00000024
1B2a	OIL PRODUCTION (Gg/ 10³M³ SYNTHETIC CRUDE PRODUCTION FROM OILSANDS)			
1.B.2.a.iii.2	SYNTHETIC CRUDE (FROM OILSANDS)	ND	0.0023	ND
1.B.2.a.iii.2	SYNTHETIC CRUDE (OIL SHALE)	ND	ND	ND
1B2a	OIL PRODUCTION (Gg/ 10³M³ TOTAL OIL PRODUCTION)			
1.B.2.a.iii.2	DEFAULT TOTAL—FUGITIVES	0.00028	0.0022	N/A
1.B.2.a.i	DEFAULT TOTAL—VENTING	0.0018	0.0087	N/A
1.B.2.a.ii	DEFAULT TOTAL—FLARING	0.034	0.000021	0.00000054
1B2a	OIL UPGRADING (Gg/ 10³M³ OIL UPGRADED)			
1.B.2.a.iii.2	ALL	ND	ND	ND
1B2a	OIL TRANSPORT (Gg/ 10³M³ OIL TRANSPORTED BY PIPELINE)			
1.B.2.a.iii.3	PIPELINES	0.00000049	0.0000054	N/A
1B2a	OIL TRANSPORT (Gg/ 10³M³ OIL TRANSPORTED BY TANKER TRUCK)			

Wet op Koolstofbelasting, 2019

Wet No. 15 van 2019

IPCC-kode	BRONKATEGORIE FAKTORE	CO ₂	CH ₄	N ₂ O
1.B.2.b.iii.4	LEIDING-VLUGTIGES	0.000016	0.0025	NVT
1.B.2.b.i	LEIDING-ONTVLUGTING	0.0000085	0.0010	NVT
1.B.2.b.iii.4	BERGING (Gg-CO ₂ /jaar/M ³)		2.32E-09	ND
1B2b	GASVERSPREIDING (Gg/ 10⁶M³ VAN NUTSVERKOPE)			
1.B.2.b.iii.5	ALLES	0.000051	0.0011	ND
1B2b	AARDGASVLOEISTOFVERVOER (Gg/ 10³M³ KONDENSAAT EN PENTAAN PLUS)			
1.B.2.a.iii.3	KONDENSAAT	0.0000072	0.00011	
1.B.2.a.iii.3	VLOEIBARE PETROLEUMGAS (Gg/ 10 ³ M ³ LPG)	0.0004 3	NVT	2.20E-09
1.B.2.a.iii.3	VLOEIBARE AARDGAS (Gg/ 10 ⁶ M ³ BEMARKBARE GAS)	ND	ND	ND
1B2a	OLIE			
1B2a	OLIEPRODUKSIE (Gg/ 10³M³ KONVENTIONELE OLIEPRODUKSIE)			
1.B.2.a.iii.2	KONVENTIONELE OLIE—VLUGTIGES (AANLANDIG)	1.10E-07 tot 2.60E-04	1.50E-06 tot 3.60E-03	NVT
1.B.2.a.iii.2	KONVENTIONELE OLIE—VLUGTIGES (AFLANDIG)	0.000000043	0.000000059	NVT
1.B.2.a.i	KONVENTIONELE OLIE—ONTVLUGTING	0.000095	0.00072	NVT
1.B.2.a.ii	KONVENTIONELE OLIE—OPVLAMMING	0.041	0.000025	0.00000064
1B2a	OLIEPRODUKSIE (Gg/ 10³M³ SWAAR OLIEPRODUKSIE)			
1.B.2.a.iii.2	SWAAR OLIE/KOUE BITUMEN—VLUGTIGES	0.00054	0.0079	NVT
1.B.2.a.i	SWAAR OLIE/KOUE BITUMEN—ONTVLUGTING	0.0053	0.017	NVT
1.B.2.a.ii	SWAAR OLIE/KOUE BITUMEN—OPVLAMMING	0.022	0.00014	0.00000046
1B2a	OLIEPRODUKSIE (Gg/ 10³M³ TERMISE BITUMENPRODUKSIE)			
1.B.2.a.iii.2	TERMISE OLIEPRODUKSIE—VLUGTIGES	0.000029	0.00018	NVT
1.B.2.a.i	TERMISE OLIEPRODUKSIE—ONTVLUGTING	0.0002 2	0.0035	NVT
1.B.2.a.ii	TERMISE OLIEPRODUKSIE—OPVLAMMING	0.027	0.000016	0.00000024
1B2a	OLIEPRODUKSIE (Gg/ 10³M³ SINTETIESE RUOLIEPRODUKSIE VAN OLIESANDSTEEN)			
1.B.2.a.iii.2	SINTETIESE RUOLIE (VAN OLIESANDSTEEN)	ND	0.0023	ND
1.B.2.a.iii.2	SINTETIESE RUOLIE (<i>olieskalie</i>)	ND	ND	ND
1B2a	OLIEPRODUKSIE (Gg/ 10³M³ TOTALE OLIEPRODUKSIE)			

IPCC Code	SOURCE CATEGORY ACTIVITY	CO ₂	CH ₄	N ₂ O
1.B.2.a.i	TANKER TRUCKS AND RAIL CARS—VENTING	0.0000023	0.000025	N/A
	<i>OIL TRANSPORT (Gg/ 10³M³ OIL TRANSPORTED BY TANKER SHIPS)</i>			
1.B.2.a.i	LOADING OFF-SHORE PRODUCTION ON TANKER SHIPS—VENTING	ND	ND	ND
1B2a	<i>OIL REFINING (Gg/ 10³M³ OIL REFINED)</i>			
1.B.2.a.iii.4	ALL		2.60E-06 to 4.10E-05	ND

Wet op Koolstofbelasting, 2019

Wet No. 15 van 2019

IPCC-kode	BRONKATEGORIE FAKTORE	CO ₂	CH ₄	N ₂ O
1.B.2.a.iii.2	STANDAARD TOTAAL— VLUGTIGES	0.00028	0.0022	NVT
1.B.2.a.i	STANDAARD TOTAAL— ONTVLUGTING	0.0018	0.0087	NVT
1.B.2.a.ii	STANDAARD TOTAAL— OPVLAGMING	0.034	0.000021	0.00000054
1B2a	OLIE OPGRAДЕRING (Gg/ 10³M³ OLIE OPGEGRADEER)			
1.B.2.a.iii.2	ALLES	ND	ND	ND
1B2a	OLIEVERVOER (Gg/ 10³M³ OLIE VERVOER DEUR PYPLEIDING)			
1.B.2.a.iii.3	PYPLEIDING	0.00000049	0.0000054	NVT
1B2a	OLIEVERVOER (Gg/ 10³M³ OLIE VERVOER DEUR TENKWA)			
1.B.2.a.i	TENKWA'S EN TENKWA'S—ONTVLUGTING	0.0000023	0.000025	NVT
	OLIEVERVOER (Gg/ 10³M³ OLIE VERVOER DEUR OLIEBOTE)			
1.B.2.a.i	LAAI AFLANDIGE PRODUKSIE OP OLIEBOTE— ONTVLUGTING	ND	ND	ND
1B2a	OLIE RAFFINERING (Gg/ 10³M³ OLIE GERAFFINEER)			
1.B.2.a.iii.4	ALLES		2.60E-06 tot 4.10E-05	ND

Table 3**INDUSTRIAL PROCESSES AND PRODUCT USE (IPPU) Emission Factors**

IPCC Code	SOURCE CATEGORY ACTIVITY / RAW MATERIAL / PRODUCT	TONNE CO ₂ /tonne product	TONNE CH ₄ /tonne product	TONNE N ₂ O/tonne product	TONNE C ₂ F ₆ /tonne product	TONNE CF ₄ /tonne product	TONNE SF ₆ /tonne product
2A1	<i>CEMENT PRODUCTION (PER TONNE OF CLINKER)</i>						
	CEMENT	0.52					
2A2	<i>LIME PRODUCTION (PER TONNE OF LIME)</i>						
	QUICKLIME/HIGH CALCIUM LIME	0.75					
	DOLOMITIC LIME	0.77					
	HYDRATED LIME	0.59					
2A3	<i>GLASS PRODUCTION (PER TONNE GLASS)</i>						
	GLASS PRODUCTION	0.2					
2A4	<i>Other Process Uses of Carbonates</i>						
2A4a	<i>CERAMICS (PER TONNE CARBONATE)</i>						
	CALCITE/ARAGONITE (CaCO ₃)	0.43971					
	MAGNESITE (MgCO ₃)	0.52197					
	DOLOMITE (CaMg(CO ₃) ₂)	0.47732					
	SIDERITE (FeCO ₃)	0.37987					
	ANKERITE (Ca(Fe,Mg,Mn)(CO ₃) ₂)	0.40822 to 0.47572					
	RHODOCHROSITE (MnCO ₃)	0.38286					
	SODIUM CARBONATE/SODA ASH (Na ₂ CO ₃)	0.41492					
2A4b	<i>OTHER USES OF SODA ASH (PER TONNE CARBONATE)</i>						
	CALCITE/ARAGONITE (CaCO ₃)	0.43971					
	MAGNESITE (MgCO ₃)	0.52197					
	DOLOMITE (CaMg(CO ₃) ₂)	0.47732					
	SIDERITE (FeCO ₃)	0.37987					
	ANKERITE (Ca(Fe,Mg,Mn)(CO ₃) ₂)	0.40822 to 0.47572					
	RHODOCHROSITE (MnCO ₃)	0.38286					
	SODIUM CARBONATE/SODA ASH (Na ₂ CO ₃)	0.41492					
2A4c	<i>NON METALLURGICAL MAGNESIA PRODUCTION (PER TONNE CARBONATE)</i>						
	CALCITE/ARAGONITE (CaCO ₃)	0.43971					
	MAGNESITE (MgCO ₃)	0.52197					
	DOLOMITE (CaMg(CO ₃) ₂)	0.47732					
	SIDERITE (FeCO ₃)	0.37987					
	ANKERITE (Ca(Fe,Mg,Mn)(CO ₃) ₂)	0.40822 to 0.47572					

Wet op Koolstofbelasting, 2019

Wet No. 15 van 2019

Tabel 3

INDUSTRIËLE PROSESSE EN PRODUKGEBRUIK (IPPU)
Vrystellingsfaktore

IPCC-kode	BRON KATEGORIE AKTIWITEIT/ GRONDSTOF/ PRODUK	TON CO ₂ /ton produk	TON CH ₄ /ton produk	TON N ₂ O/ ton produk	TON C ₂ F ₆ /ton produk	TON CF ₄ /ton produk	TON SF ₆ /ton produk
2A1	SEMENT-PRODUKSIE (PER TON KLINKER)						
	SEMENT	0.52					
2A2	KALKPRODUKSIE (PER TON KALK)						
	ONGEBLUSTE KALK/ HOË KALSIUM KALK	0.75					
	DOLOMIETKALK	0.77					
	GEBLUSTE KALK	0.59					
2A3	GLASPRODUKSIE (PER TON GLAS)						
	GLASPRODUKSIE	0.2					
2A4	<i>Ander prosesgebruiken van karbonate</i>						
2A4a	KERAMIEK (PER TON KARBONATE)						
	KALSIET/ARAGONIET (CaCO ₃)	0.43971					
	MAGNESIET (MgCO ₃)	0.52197					
	DOLOMIET (CaMg(CO ₃) ₂)	0.47732					
	SIDERIET (FeCO ₃)	0.37987					
	ANKERIET (Ca(Fe,Mg,Mn)(CO ₃) ₂)	0.40822 tot 0.47572					
	RHODOCHROSIET (MnCO ₃)	0.38286					
	SODIUM KARBONAAT/ SODA-AS (Na ₂ CO ₃)	0.41492					
2A4b	ANDER GEBRUIKE VIR SODA-AS (PER TON KARBONAAT)						
	KALSIET/ARAGONIETE (CaCO ₃)	0.43971					
	MAGNESIET (MgCO ₃)	0.52197					
	DOLOMIET (CaMg(CO ₃) ₂)	0.47732					
	SIDERIET (FeCO ₃)	0.37987					
	ANKERIET (Ca(Fe,Mg,Mn)(CO ₃) ₂)	0.40822 tot 0.47572					
	RHODOCHROSIET (MnCO ₃)	0.38286					
	SODIUM KARBONAAT/ SODA-AS (Na ₂ CO ₃)	0.41492					
2A4c	NIE-METALLURGIËSE MAGNESIAPRODUKSIE (PER TON KARBONAAT)						
	KALSIET/ARAGONIET (CaCO ₃)	0.43971					
	MAGNESIET (MgCO ₃)	0.52197					
	DOLOMIET (CaMg(CO ₃) ₂)	0.47732					
	SIDERIET (FeCO ₃)	0.37987					

IPCC Code	SOURCE CATEGORY ACTIVITY / RAW MATERIAL / PRODUCT	TONNE CO ₂ /tonne product	TONNE CH ₄ /tonne product	TONNE N ₂ O/tonne product	TONNE C ₂ F ₆ /tonne product	TONNE CF ₄ /tonne product	TONNE SF ₆ /tonne product
	RHODOCHROSITE (MnCO ₃)	0.38286					
	SODIUM CARBONATE/SODA ASH (Na ₂ CO ₃)	0.41492					
2A5	OTHER (PER TONNE CARBONATE)						
	CALCITE/ARAGONITE (CaCO ₃)	0.43971					
	MAGNESITE (MgCO ₃)	0.52197					
	DOLOMITE (CaMg(CO ₃) ₂)	0.47732					
	SIDERITE (FeCO ₃)	0.37987					
	ANKERITE (Ca(Fe,Mg,Mn)(CO ₃) ₂)	0.40822 to 0.47572					
	RHODOCHROSITE (MnCO ₃)	0.38286					
	SODIUM CARBONATE/SODA ASH (Na ₂ CO ₃)	0.41492					
2B1	AMMONIA PRODUCTION (PER TONNE NH₃)						
	MODERN PLANTS-CONVENTIONAL REFORMING (NATURAL GAS)	1.694					
	EXCESS AIR REFORMING (NATURAL GAS)	1.666					
	AUTOTHERMAL REFORMING (NATURAL GAS)	1.694					
	PARTIAL OXIDATION	2.772					
	AVERAGE VALUE NATURAL GAS (MIXTURE OF MODERN & OLD)	2.104					
	AVERAGE VALUE (PARTIAL OXIDATION)	3.273					
2B2	NITRIC ACID PRODUCTION (PER TONNE NITRIC ACID)						
	PLANTS WITH NSCR (ALL PROCESSES)			0.002			
	PLANTS WITH PROCESS (INTEGRATED OR TAIL GAS NO ₂ DESTRUCTION)			0.0025			
	ATMOSPHERIC PRESSURE PLANTS (LOW PRESSURE PLANTS)			0.005			
	MEDIUM PRESSURE COMBUSTION PLANTS (MEDIUM PRESSURE)			0.007			
	HIGH PRESSURE PLANTS (HIGH PRESSURE)			0.009			
2B3	ADIPIC ACID PRODUCTION (PER TONNE ADIPIC ACID UNCONTROLLED)						
	NITRIC ACID OXIDATION (ADIPIC ACID)			0.3			
2B4	CAPROLACTAM, GLYOXAL AND GLYOXYLIC ACID PRODUCTION (PER TONNE PRODUCED)						
	CAPROLACTAM PRODUCTION (RASCHIG)			0.009			

Wet op Koolstofbelasting, 2019

Wet No. 15 van 2019

IPCC-kode	BRON KATEGORIE AKTIWITEIT/ GRONDSTOF/ PRODUK	TON CO ₂ /ton produk	TON CH ₄ /ton produk	TON N ₂ O/ ton produk	TON C ₂ F ₆ /ton produk	TON CF ₄ /ton produk	TON SF ₆ /ton produk
	ANKERIET (Ca(Fe,Mg,Mn)(CO ₃) ₂)	0.40822 tot 0.47572					
	RODOCHROSIET (MnCO ₃)	0.38286					
	SODIUM KARBONAAT/ SODA-AS (Na ₂ CO ₃)	0.41492					
2A5	ANDER (PER TON KARBONAAT)						
	KALSIET/ARAGONIET (CaCO ₃)	0.43971					
	MAGNESIET (MgCO ₃)	0.52197					
	DOLOMIET (CaMg(CO ₃) ₂)	0.47732					
	SIDERIET (FeCO ₃)	0.37987					
	ANKERIET (Ca(Fe,Mg,Mn)(CO ₃) ₂)	0.40822 tot 0.47572					
	RODOCHROSIET (MnCO ₃)	0.38286					
	SODIUM KARBONAAT/SODA-AS (Na ₂ CO ₃)	0.41492					
2B1	AMMONIAKPRODUKSIE (PER TON NH₃)						
	MODERNE PLANTE- KONVENTIONELE HERVORMING (AARDGAS)	1.694					
	OORMAAT LUG HERVORMING (AARDGAS)	1.666					
	OUTOTERMIESE HERVORMING (AARDGAS)	1.694					
	GEDEELTELIKE OKSIDASIE	2.772					
	GEMIDDELDE WAARDE AARDGAS (MENGSEL VAN MODERNE & OUE)	2.104					
	GEMIDDELDE WAARDE (GEDEELTELIKE OKSIDASIE)	3.273					
2B2	SALPETERSUUR- PRODUKSIE (PER TON SALPETERSUUR)						
	AANLEGTE MET "NSCR". (ALLE PROSESSE)			0.002			
	AANLEGTE MET PROSES (GEINTEGREERDE OF AFVOERGAS NO ₂ VERNIEFIGING)			0.0025			
	ATMOSFERIESE DRUK AANLEGTE (LAEDRUK AANLEGTE)			0.005			
	MEDIUMDRUK ONTBRANDINGS- AANLEGTE (MEDIUM DRUK)			0.007			
	HOËDRUK AANLEGTE (HOË DRUK)			0.009			
2B3	'ADIPIC' SUURPRODUKSIE (PER TON 'ADIPIC' SUUR ONBEHEER)						
	SALPETERSUUR-OKSIDASIE ('ADIPIC' SUUR)			0.3			

IPCC Code	SOURCE CATEGORY ACTIVITY / RAW MATERIAL / PRODUCT	TONNE CO ₂ /tonne product	TONNE CH ₄ /tonne product	TONNE N ₂ O/tonne product	TONNE C ₂ F ₆ /tonne product	TONNE CF ₄ /tonne product	TONNE SF ₆ /tonne product
	GLYOXAL PRODUCTION			0.1			
	GLYOXYLIC ACID PRODUCTION			0.02			
2B5	<i>CARBIDE PRODUCTION (PER TONNE RAW MATERIAL USED)</i>						
	SILICON CARBIDE PRODUCTION	2.3	0.0102				
	PETROLEUM COKE USE	1.7					
2B5	<i>CARBIDE PRODUCTION (PER TONNE CARBIDE PRODUCED)</i>						
	SILICON CARBIDE PRODUCTION (CARBIDE PRODUCED)	2.62	0.0116				
	PETROLEUM COKE USE	1.09					
	USE OF PRODUCT	1.1					
2B6	<i>TITANIUM DIOXIDE PRODUCTION (PER TONNE PRODUCT)</i>						
	TITANIUM SLAG	NOT AVAIL-ABLE					
	SYNTHETIC RUTILE	1.43					
	RUTILE TITANIUM DIOXIDE (CHLORIDE ROUTE)	1.34					
2B7	<i>SODA ASH PRODUCTION (PER TONNE OF SODA ASH OR TRONA)</i>						
	NATURAL SODA ASH OUTPUT	0.138					
	NATURAL SODA ASH (TRONA USED)	0.097					
2B8	PETROCHEMICAL AND CARBON BLACK PRODUCTION						
2B8a	<i>METHANOL PRODUCTION (PER TONNE METHANOL PRODUCED)</i>						
	CONVENTIONAL STEAM REFORMING WITHOUT PRIMARY REFORMER (NATURAL GAS FEEDSTOCK)	0.67	0.0023				
	CONVENTIONAL STEAM REFORMING WITH PRIMARY REFORMER (NATURAL GAS FEEDSTOCK)	0.497	0.0023				
	CONVENTIONAL STEAM REFORMING LURGI CONVENTIONAL PROCESS (NATURAL GAS FEEDSTOCK)	0.385	0.0023				
	CONVENTIONAL STEAM REFORMING LURGI CONVENTIONAL PROCESS (NATURAL GAS+CO ₂ FEEDSTOCK)	0.267	0.0023				

Wet op Koolstofbelasting, 2019

Wet No. 15 van 2019

IPCC-kode	BRON KATEGORIE AKTIWITEIT/ GRONDSTOF/ PRODUK	TON CO ₂ /ton produk	TON CH ₄ /ton produk	TON N ₂ O/ ton produk	TON C ₂ F ₆ /ton produk	TON CF ₄ /ton produk	TON SF ₆ /ton produk
2B4	“CAPROLACTAM”, “GLYOXAL” EN “GLYOKSILIC” SUURPRODUKSIE (PER TON PRODUSEER)						
	“CAPROLACTAM” PRODUKSIE (RASCHIG)			0.009			
	GLYOXAL-PRODUKSIE			0.1			
	“GLYOKSILIC” SUURPRODUKSIE			0.02			
2B5	KARBIED PRODUKSIE (PER TON GRONDSTOF GEBRUIK)						
	SILIKON KARBIEDPRODUKSIE	2.3	0.0102				
	PETROLEUM KOOKSGEBRUIK	1.7					
2B5	KARBIEDPRODUKSIE (PER TON KARBIED PRODUSEER)						
	SILIKON KARBIEDPRODUKSIE (KARBIED PRODUSEER)	2.62	0.0116				
	PETROLEUM KOOKSGEBRUIK	1.09					
	GEBRUIK VAN PRODUK	1.1					
2B6	TITAANDIOKSIED-PRODUKSIE (PER TON PRODUK)						
	TITAANSLAK	NIE BESKIK-BAAR					
	SINTETIESE RUTIEL	1.43					
	RUTIELE TITAANDIOKSIED (CHLORIED ROETE)	1.34					
2B7	SODA-ASPRODUKSIE (PER TON VAN SODA-AS OF TRONA)						
	NATUURLIKE SODA-AS PRODUKSIE	0.138					
	NATUURLIKE SODA-AS (TRONA GEBRUIK)	0.097					
2B8	PETROCHEMIESE EN KOOLSWART-PRODUKSIE						
2B8a	METANOL-PRODUKSIE (PER TON METANOL PRODUSEER)						
	KONVENTIONELE STOOMHERVORMING SONDER PRIMÈRE HERVORMER (AARDGAS-VOERSTOF)	0.67	0.0023				
	KONVENTIONELE STOOM-HERVORMING MET PRIMÈRE HERVORMER (AARDGASVOERSTOF)	0.497	0.0023				
	KONVENTIONELE STOOMHERVORMING “LURGI” KONVENTIONELE PROSES (AARDGAS-VOERSTOF)	0.385	0.0023				

IPCC Code	SOURCE CATEGORY ACTIVITY / RAW MATERIAL / PRODUCT	TONNE CO ₂ /tonne product	TONNE CH ₄ /tonne product	TONNE N ₂ O/tonne product	TONNE C ₂ F ₆ /tonne product	TONNE CF ₄ /tonne product	TONNE SF ₆ /tonne product
	CONVENTIONAL STEAM REFORMING LURGI LOW PRESSURE PROCESS (NATURAL GAS FEEDSTOCK)	0.267	0.0023				
	CONVENTIONAL STEAM REFORMING LURGI COMBINED PROCESS (NATURAL GAS FEEDSTOCK)	0.396	0.0023				
	CONVENTIONAL STEAM REFORMING LURGI MEGA METHANOL PROCESS (NATURAL GAS FEEDSTOCK)	0.31	0.0023				
	PARTIAL OXIDATION PROCESS (OIL FEEDSTOCK)	1.376	0.0023				
	PARTIAL OXIDATION PROCESS (COAL FEEDSTOCK)	5.285	0.0023				
	PARTIAL OXIDATION PROCESS (LIGNITE FEEDSTOCK)	5.02	0.0023				
	CONVENTIONAL STEAM REFORMING WITH INTEGRATED AMMONIA PRODUCTION (NATURAL GAS FEEDSTOCK)	1.02	0.0023				
2B8b	STEAM CRACKING ETHYLENE PRODUCTION (PER TONNE ETHYLENE PRODUCED)						
	ETHYLENE (TOTAL PROCESS & ENERGY FEEDSTOCK USE)—NAPHTHA	1.73	0.003				
	ETHYLENE (TOTAL PROCESS & ENERGY FEEDSTOCK USE)—GAS OIL	2.29	0.003				
	ETHYLENE (TOTAL PROCESS & ENERGY FEEDSTOCK USE)—ETHANE	0.95	0.006				
	ETHYLENE (TOTAL PROCESS & ENERGY FEEDSTOCK USE)—PROPANE	1.04	0.003				
	ETHYLENE (TOTAL PROCESS & ENERGY FEEDSTOCK USE)—BUTANE	1.07	0.003				
	ETHYLENE (TOTAL PROCESS & ENERGY FEEDSTOCK USE)—OTHER	1.73	0.003				
	ETHYLENE (PROCESS FEEDSTOCK USE)—NAPHTHA	1.73	0.003				
	ETHYLENE (PROCESS FEEDSTOCK USE)—GAS OIL	2.17	0.003				
	ETHYLENE (PROCESS FEEDSTOCK USE)—ETHANE	0.76	0.006				
	ETHYLENE (PROCESS FEEDSTOCK USE)—PROPANE	1.04	0.003				
	ETHYLENE (PROCESS FEEDSTOCK USE)—BUTANE	1.07	0.003				
	ETHYLENE (PROCESS FEEDSTOCK USE)—OTHER	1.73	0.003				

Wet op Koolstofbelasting, 2019

Wet No. 15 van 2019

IPCC-kode	BRON KATEGORIE AKTIWITEIT/ GRONDSTOF/ PRODUK	TON CO ₂ /ton produk	TON CH ₄ /ton produk	TON N ₂ O/ ton produk	TON C ₂ F ₆ /ton produk	TON CF ₄ /ton produk	TON SF ₆ /ton produk
	KONVENTIONELE STOOMHERVORMING “LURGI” KONVENTIONELE PROSES (AARDGAS+CO ₂ VOERSTOF)	0.267	0.0023				
	KONVENTIONELE STOOMHERVORMING “LURGI” LAE DRUK PROSES (AARDGAS-VOERSTOF)	0.267	0.0023				
	KONVENTIONELE STOOMHERVORMING “LURGI” KOMBINEERDE PROSES (AARDGAS-VOERSTOF)	0.396	0.0023				
	KONVENTIONELE STOOM HERVORMING “LURGI” MEGA METANOLPROSES (AARDGASVOERSTOF)	0.31	0.0023				
	GEDEELTELIKE OKSIDASIEPROSES (OLIEVOERSTOF)	1.376	0.0023				
	GEDEELTELIKE OKSIDASIEPROSES STEENKOOLVOERSTOF)	5.285	0.0023				
	GEDEELTELIKE OKSIDASIEPROSES (LIGNIETVOERSTOF)	5.02	0.0023				
	KONVENTIONELE STOOMHERVORMING MET GEÏNTEGREERDE AMMONIAK-PRODUKSIE (AARDGASVOERSTOF)	1.02	0.0023				
2B8b	STOOM “CRACKING” ETILEENPRODUKSIE (PER TON ETILEEN PRODUSEER)						
	ETILEEN (TOTAAL PROSES & ENERGIEVOERSTOF GEBRUIK)—NAFTA	1.73	0.003				
	ETILEEN (TOTAAL PROSES & ENERGIEVOERSTOF GEBRUIK)—GAS-OLIE	2.29	0.003				
	ETILEEN (TOTAAL PROSES & ENERGIEVOERSTOF GEBRUIK)—ETAAN	0.95	0.006				
	ETILEEN (TOTAAL PROSES & ENERGIEVOERSTOF GEBRUIK)—PROPAAN	1.04	0.003				
	ETILEEN (TOTAAL PROSES & ENERGIEVOERSTOF GEBRUIK)—BUTAAN	1.07	0.003				
	ETILEEN (TOTAAL PROSES & ENERGIEVOERSTOF GEBRUIK)—ANDER	1.73	0.003				
	ETILEEN (PROSES-VOERSTOF GEBRUIK)—NAFTA	1.73	0.003				
	ETILEEN (PROSES-VOERSTOF GEBRUIK)—GAS-OLIE	2.17	0.003				
	ETILEEN (PROSES-VOERSTOF GEBRUIK)—ETAAN	0.76	0.006				

IPCC Code	SOURCE CATEGORY ACTIVITY / RAW MATERIAL / PRODUCT	TONNE CO ₂ /tonne product	TONNE CH ₄ /tonne product	TONNE N ₂ O/tonne product	TONNE C ₂ F ₆ /tonne product	TONNE CF ₄ /tonne product	TONNE SF ₆ /tonne product
	ETHYLENE (SUPPLEMENTAL FUEL-ENERGY FEEDSTOCK) USE—GAS OIL	0.12	0.003				
	ETHYLENE (SUPPLEMENTAL FUEL-ENERGY FEEDSTOCK) USE—ETHANE	0.19	0.006				
2B8c	<i>ETHYLENE DICHLORIDE AND VINYL CHLORIDE MONOMER (PER TONNE EDC PRODUCED OR TONNE VCM PRODUCT PRODUCED)</i>						
	DIRECT CHORINATION PROCESS (EDC)	0.191	0.0000226				
	OXYCHLORINATION PROCESS (EDC)	0.202	0.0000226				
	BALANCED PROCESS (DEFAULT)—EDC	0.196	0.0000226				
2B8c	<i>ETHYLENE DICHLORIDE AND VINYL CHLORIDE MONOMER (PER TONNE VCM PRODUCED OR TONNE VCM PRODUCT PRODUCED)</i>						
	DIRECT CHLORINATION—PROCESS (VCM)	0.286	0.0000226				
	OXYCHLORINATION PROCESS (VCM)	0.302	0.0000226				
	BALANCED PROCESS (DEFAULT) -VCM	0.294	0.0000226				
2B8d	<i>ETHYLENE OXIDE (PER TONNE ETHYLENE OXIDE PRODUCED)</i>						
	AIR PROCESS (DEFAULT)—CATALYST DEFAULT (70)	0.863	0.00179				
	AIR PROCESS (DEFAULT)—CATALYST (75)	0.663	0.00179				
	AIR PROCESS (DEFAULT)—CATALYST (80)	0.5	0.00179				
	OXYGEN PROCESS (DEFAULT)—CATALYST DEFAULT (75)	0.663	0.00179				
	OXYGEN PROCESS—CATALYST (80)	0.5	0.00179				
	OXYGEN PROCESS—CATALYST (85)	0.35	0.00179				
	ALL ETHYLENE OXIDE PROCESSES—THERMAL TREATMENT	N/A	0.00079				
2B8e	<i>ACRYLONITRILE (PER TONNE ACRYLONITRILE PRODUCED)</i>						
	DIRECT AMMOXIDATION WITH SECONDARY PRODUCTS BURNED FOR ENERGY RECOVERY OR FLARED (DEFAULT)	1	0.00018				
	DIRECT AMMOXIDATION WITH ACETONITRILE BURNED FOR ENERGY RECOVERY OR FLARED	0.83	0.00018				

Wet op Koolstofbelasting, 2019

Wet No. 15 van 2019

IPCC-kode	BRON KATEGORIE AKTIWITEIT/ GRONDSTOF/ PRODUK	TON CO ₂ /ton produk	TON CH ₄ /ton produk	TON N ₂ O/ ton produk	TON C ₂ F ₆ /ton produk	TON CF ₄ /ton produk	TON SF ₆ /ton produk
	ETILEEN (PROSES- VOERSTOF GEBRUIK)—PROPAAN	1.04	0.003				
	ETILEEN (PROSES- VOERSTOF GEBRUIK)—BUTAAN	1.07	0.003				
	ETILEEN (PROSES- VOERSTOF GEBRUIK) —ANDER	1.73	0.003				
	ETILEEN (AANVULLENDE BRANDSTOF-ENERGIE- VOERSTOF) GEBRUIK— GAS-OLIE	0.12	0.003				
	ETILEEN (AANVULLENDE BRANDSTOF-ENERGIE- VOERSTOF) GEBRUIK—ETAAN	0.19	0.006				
2B8c	<i>ETILEENDICHLORIED EN VINIELCHLORIED MONOMER (PER TON EDC PRODUSEER OF TON VCM PRODUK PRODUSEER)</i>						
	DIREKTE CHLORINERINGS- PROSES (“EDC”)	0.191	0.0000226				
	OKSICHLORINERINGS- PROSES (“EDC”)	0.202	0.0000226				
	GEBALANSEERDE PROSES (STANDAARD)— “EDC”	0.196	0.0000226				
2B8c	<i>ETILEENDICHLORIED EN VINIELCHLORIED MONOMER (PER TON VCM PRODUSEER OF TON VCM PRODUK PRODUSEER)</i>						
	DIREKTE CHLORINERINGS- PROSES (“VCM”)	0.286	0.0000226				
	OKSICHLORINE- RINGSPROSES (“VCM”)	0.302	0.0000226				
	GEBALANSEERDE PROSES (STANDAARD) —“VCM”	0.294	0.0000226				
2B8d	<i>ETILEENOKSIED (PER TON ETILEENOKSIED PRODUSEER)</i>						
	LUGPROSES (STANDAARD)— KATALISATOR STANDAARD (70)	0.863	0.00179				
	LUGPROSES (STANDAARD)— KATALISATOR (75)	0.663	0.00179				
	LUGPROSES (STANDAARD)— KATALISATOR (80)	0.5	0.00179				
	SUURSTOFPROSES (STANDAARD)— KATALISATOR STANDAARD (75)	0.663	0.00179				
	SUURSTOFPROSES —KATALISATOR (80)	0.5	0.00179				
	SUURSTOFPROSES —KATALISATOR (85)	0.35	0.00179				

IPCC Code	SOURCE CATEGORY ACTIVITY / RAW MATERIAL / PRODUCT	TONNE CO ₂ /tonne product	TONNE CH ₄ /tonne product	TONNE N ₂ O/tonne product	TONNE C ₂ F ₆ /tonne product	TONNE CF ₄ /tonne product	TONNE SF ₆ /tonne product
	DIRECT AMMOXIDATION WITH ACETONITRILE & HYDROGEN CYANIDE RE-COVERED AS PRODUCT	0.79	0.00018				
2B8f	CARBON BLACK PRODUCTION (PER TONNE CARBON BLACK PRODUCED)						
	FURNACE BLACK PROCESS (DEFAULT)—Primary Feedstock	1.96	0.00006				
	THERMAL BLACK PROCESS—PRIMARY FEEDSTOCK	4.59	0.00006				
	ACETYLENE BLACK PROCESS—PRIMARY FEEDSTOCK	0.12	0.00006				
	FURNACE BLACK PROCESS (DEFAULT)—SECONDARY FEEDSTOCK	0.66	0.00006				
	THERMAL BLACK PROCESS—SECONDARY FEEDSTOCK	0.66	0.00006				
	ACETYLENE BLACK PROCESS—SECONDARY FEEDSTOCK	0.66	0.00006				
	FURNACE BLACK PROCESS (DEFAULT)—TOTAL FEEDSTOCK	2.62	0.00006				
	THERMAL BLACK PROCESS—TOTAL FEEDSTOCK	5.25	0.00 006				
	ACETYLENE BLACK PROCESS—TOTAL FEEDSTOCK	0.78	0.00006				
	ALL CARBON BLACK PROCESSES (NO THERMAL TREATMENT)	N/A	0.0287				
2C1	IRON AND STEEL PRODUCTION (PER TONNE PRODUCT PRODUCED)						
	SINTER PRODUCTION	0.2	0.00007				
	COKE OVEN	0.56	0.0000001				
	PIG IRON PRODUCTION	1.35					
	DIRECT REDUCED IRON (DRI) PRODUCTION	0.7	0.001/TJ (NG)				
	PELLET PRODUCTION	0.03					
	BASIC OXYGEN FURNACE	1.46					
	ELECTRIC ARC FURNACE	0.08					
	OPEN HEARTH FURNACE	1.72					
	GLOBAL AVERAGE	1.06					
2C2	FERROALLOYS PRODUCTION (PER TONNE PRODUCTION)						
	FERROSILICON (45%) SI	2.5					
	FERROSILICON (65%) SI	3.6	0.001				
	FERROSILICON (75%) SI	4	0.001				
	FERROSILICON (90%) SI	4.8	0.0011				
	FERROMANGANESE (7% C)	1.3					

Wet op Koolstofbelasting, 2019

Wet No. 15 van 2019

IPCC-kode	BRON KATEGORIE AKTIWITEIT/ GRONDSTOF/ PRODUK	TON CO ₂ /ton produk	TON CH ₄ /ton produk	TON N ₂ O/ ton produk	TON C ₂ F ₆ /ton produk	TON CF ₄ /ton produk	TON SF ₆ /ton produk
	ALLE ETILEENOKSIED- PROSESSE—TERMIESE BEHANDELING	NVT	0.00079				
2B8e	AKRILONITRIEL (PER TON ACRYLONITRILE PRODUSEER)						
	DIREKTE AMMOKSIDASIE MET SEKONDÈRE PRODUKTE VERBRAND VIR ENERGIE HERWINNING OF OPVLAMMING (STANDAARD)	1	0.00018				
	DIREKTE AMMOKSIDASIE MET ASETONITRIEL VERBRAND VIR ENERGIE HERWIN OF OPGEVLAM	0.83	0.00018				
	DIREKTE AMMOKSIDASIE MET ASETONITRIEL & WATERSTOFSIANIED HERWIN AS PRODUK	0.79	0.00018				
2B8f	KOOLSWARTPRODUKSIE (PER TON KOOLSWART PRODUSEER)						
	HOOGOOND SWARTPROSES (STANDAARD)—PRIMÈRE VOERSTOF	1.96	0.00006				
	TERMIESE SWARTPROSES— PRIMÈRE VOERSTOF	4.59	0.00006				
	ASETILEEN SWARTPROSES —PRIMÈRE VOERSTOF	0.12	0.00006				
	HOOGOOND SWARTPROSES (STANDAARD)— SEKONDÈRE VOERSTOF	0.66	0.00006				
	TERMIESE SWARTPROSES— SEKONDÈRE VOERSTOF	0.66	0.00006				
	ASETILEEN SWARTPROSES —SEKONDÈRE VOERSTOF	0.66	0.00006				
	HOOGOOND SWARTPROSES (STANDAARD)—TOTAAL VOERSTOF	2.62	0.00006				
	TERMIESE SWARTPROSES— TOTAAL VOERSTOF	5.25	0.00006				
	ASETILEEN SWARTPROSES —TOTAAL VOERSTOF	0.78	0.00006				
	ALLE KOOLSWART- PROSESSE (GEEN TERMIESE BEHANDELING)	NVT	0.0287				
2C1	YSTER- EN STAALPRODUKSIE (PER TON PRODUK PRODUSEER)						
	SINTERPRODUKSIE	0.2	0.00007				
	KOOKSOOND	0.56	0.0000001				
	RUYSSTERPRODUKSIE	1.35					
	DIREKTE VERMINDERDE YSTER-(“DRI”) PRODUKSIE	0.7	0.001/TJ (NG)				

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	FERROMANGANESE (1% C)	1.5					
	SILICOMANGANESE	1.4					
	SILICON METAL	5	0.0012				
	FERROCHROMIUM (STAND ALONE)	1.3					
	FERROCHROMIUM (WITH SINTER PLANT)	1.6					
2C3	<i>ALUMINIUM PRODUCTION (PER TONNE ALUMINIUM PRODUCED)</i>						
	PREBAKE	1.6					
	SODERBERG	1.7					
	CWPB			0.00004	0.0004		
	SWPB			0.0004	0.0016		
	VSS			0.00004	0.0008		
	HSS			0.00003	0.0004		
2C4	<i>MAGNESIUM PRODUCTION (PER TONNE MAGNESIUM PRODUCED)</i>						
	DOLOMITE	5.13				0.001	
	MAGNESITE	2.83				0.001	
2C5	<i>LEAD PRODUCTION (PER TONNE PRODUCT)</i>						
	IMPERIAL SMELT FURNACE (ISF) PRODUCTION	0.59					
	DIRECT SMELTING PRODUCTION	0.25					
	TREATMENT OF SECONDARY RAW MATERIALS	0.2					
	DEFAULT EF	0.52					
2C6	<i>ZINC PRODUCTION (PER TONNE PRODUCT)</i>						
	WAELZ KILN	3.66					
	PYROMETALLURGICAL	0.43					
	DEFAULT EF	1.72					

Wet op Koolstofbelasting, 2019

Wet No. 15 van 2019

IPCC-kode	BRON KATEGORIE AKTIWITEIT/ GRONDSTOF/ PRODUK	TON CO ₂ /ton produk	TON CH ₄ /ton produk	TON N ₂ O/ ton produk	TON C ₂ F ₆ /ton produk	TON CF ₄ /ton produk	TON SF ₆ /ton produk
	KORRELPRODUKSIE	0.03					
	BASIESE SUURSTOF HOOGOOND	1.46					
	ELEKTRIESE VLAM HOOGOOND	0.08					
	OOP HERD HOOGOOND	1.72					
	GLOBALE GEMIDDELD	1.06					
2C2	YSTERLEGERINGS- PRODUKSIE (PER TON PRODUKSIE)						
	FERROSILIKON (45%) SI	2.5					
	FERROSILIKON (65%) SI	3.6	0.001				
	FERROSILIKON (75%) SI	4	0.001				
	FERROSILIKON (90%) SI	4.8	0.0011				
	FERROMANGAAN (7% C)	1.3					
	FERROMANGAAN (1% C)	1.5					
	SILIKOMANGAAN	1.4					
	SILIKONMETAAL	5	0.0012				
	FERROCHROMIUM (ALLEENSTAANDE)	1.3					
	FERROCHROMIUM (MET SINTER AANLEG)	1.6					
2C3	ALUMINIUMPRODUKSIE (PER TON ALUMINIUM PRODUSEER)						
	VOORAF GEBAK	1.6					
	SODERBERG	1.7					
	“CWPB”			0.00004	0.0004		
	“SWPB”			0.0004	0.0016		
	“VSS”			0.00004	0.0008		
	“HSS”			0.00003	0.0004		
2C4	MAGNESIUM-PRODUKSIE (PER TON MAGNESIUM PRODUSEER)						
	DOLOMIET	5.13				0.001	
	MAGNESIET	2.83				0.001	
2C5	LOODPRODUKSIE (PER TON PRODUK)						
	“IMPERIAL” SMELT HOOGOOND (ISF) PRODUKSIE	0.59					
	DIREKTE SMLETING PRODUKSIE	0.25					
	BEHANDELING VAN SEKONDÉRE GRONDSTOF	0.2					
	STANDAARD “EF”	0.52					
2C6	SINKPRODUKSIE (PER TON PRODUK)						
	WAELZ-OOND	3.66					
	PYROMETALURGIES	0.43					
	STANDAARD “EF”	1.72					

Act No. 15 of 2019

Carbon Tax Act, 2019

Schedule 2

Wet op Koolstofbelasting, 2019

Wet No. 15 van 2019

Bylae 2

Act No. 15 of 2019

Carbon Tax Act, 2019

50

IPCC Code	Activity/Sector	Threshold	Basic tax-free allowance for fossil fuel combustion emissious %	Basic tax-free allowance for process emissious %	Fugitive emissions allowance %	Trade exposure allowance %	Performance allowance %	Carbon budget allowance %	Offsets allowance %	Maximum total allowances %
1A4a	Commercial/Institutional	10 MW(th)	60	0	0	10	5	5	10	90
1A4b	Residential	10 MW(th)	100	0	0	0	0	0	0	100
1A4c	Agriculture/Forestry/Fishing/Fish Farms	10 MW(th)	60	0	0	10	5	5	10	90
1A5	Non-Specified (including heat and electricity recovery from Waste)									
1A5a	Stationary	10 MW(th)	60	0	0	10	5	5	10	90
1A5b	Mobile	N/A	60	0	0	10	5	5	10	90
1A5c	Multilateral Operations	N/A	60	0	0	10	5	5	10	90
1B	Fugitive Emissions from Fuels									
1B1	Solid Fuels									
1B1a	Coal Mining and Handling	None	60	0	10	10	5	5	5	95
1B1ai	Underground mines including flaring of drained methane (excluding abandoned mines)	none	60	0	10	10	5	5	5	95
1B1aII	Surface mines	none	60	0	10	10	5	5	5	95
1B1b	Uncontrolled Combustion, and Burning Coal Dumps	N/A	100	0	0	0	0	0	0	100
1B1c	Solid Fuel Transformation									
1B1c1	Coke production processes	none	60	0	10	10	5	5	5	95
1B1c2	Charcoal production processes	none	60	0	10	10	5	5	5	95
1B1c3	Any other solid fuel transformation involving fossil and organic carbon based fuels (e.g. biofuel productions)	none	60	0	10	10	5	5	5	95
1B2	Oil and Natural Gas									
1B2a	Oil	none	60	0	10	10	5	5	5	95
1B2ai	Venting	none	60	0	10	10	5	5	5	95
1B2aII	Flaring	none	60	0	10	10	5	5	5	95
1B2aIII	All other	none	60	0	10	10	5	5	5	95
1B2b	Natural Gas	none	60	0	10	10	5	5	5	95
1B2bi	Venting	none	60	0	10	10	5	5	5	95
1B2bII	Flaring	none	60	0	10	10	5	5	5	95
1B2bIII	All other	none	60	0	10	10	5	5	5	95
1B3	Other Emissions from Energy Production									
1B3a	Coal-to-liquids processes	none	60	0	10	10	5	5	5	95
1B3b	Gas-to-liquids processes	none	60	0	10	10	5	5	5	95

Wet op Koolstofbelasting, 2019

Wet No. 15 van 2019

IPCC-kode	Aktiwiteit/ Sektor	Drempel	Basiese belasting-vrye toelae vir fossiel-brandstof verbranding %	BASIESE belasting-vrye toelae vir PROSES vry-stellings %	Vlugtige vry-stellings-toelae %	Handels-bloot-stellings toelae %	Verrigting toelae %	Koolstof-begroting toelae %	Ver-rekenings toelae %	Maksimum totale toelae %
1A4a	Komersieel/ Institusioneel	10 MW(th)	60	0	0	10	5	5	10	90
1A4b	Residensieel	10 MW(th)	100	0	0	0	0	0	0	100
1A4c	Landbou/Bosbou/ Vissery/ Visplase	10 MW(th)	60	0	0	10	5	5	10	90
1A5	Nie-gespesifieer (Ingesluit hitte en elektrisiteit herwinning nit afval)									
1A5a	Stilstaande	10 MW(th)	60	0	0	10	5	5	10	90
1A5b	Mobiel	NVT	60	0	0	10	5	5	10	90
1A5c	Multilaterale bedrywighede	NVT	60	0	0	10	5	5	10	90
IB	Vlugtige vrystellings van brandstowwe									
IB1	Vaste brandstof									
1B1a	Steenkoolmynbou en hantering	Geen	60	0	10	10	5	5	5	95
1B1ai	Ondergrondse myne Ingesluit opvlamming van gedreinde metaan (Uitgesluit verlate myne)	geen	60	0	10	10	5	5	5	95
1B1aII	Oppervlakmyne	geen	60	0	10	10	5	5	5	95
1B1b	Onbeheerde ontbranding, en brandende steenkoolhope	NA	100	0	0	0	0	0	0	100
1B1c	Vaste brandstof transformasie									
1B1c1	Kooks produksie-prosesse	geen	60	0	10	10	5	5	5	95
1B1c2	Steenkook produksie-prosesse	geen	60	0	10	10	5	5	5	95
1B1c3	Enige ander vaste brandstoftransformasie betrekende fossiel en organiese koolstof-gebaseerde brandstowwe (bv. biobrandstofproduksie)	geen	60	0	10	10	5	5	5	95
1B2	Olie en Aardgas									
1B2a	Olie	geen	60	0	10	10	5	5	5	95
1B2ai	Ontvlugting	geen	60	0	10	10	5	5	5	95
1B2aII	Opvlamming	geen	60	0	10	10	5	5	5	95
1B2aIII	Alle ander	geen	60	0	10	10	5	5	5	95
1B2b	Aardgas	geen	60	0	10	10	5	5	5	95
1B2bi	Ontvlugting	geen	60	0	10	10	5	5	5	95
1B2bII	Opvlamming	geen	60	0	10	10	5	5	5	95
1B2bIII	Alle ander	geen	60	0	10	10	5	5	5	95
1B3	Ander vrystellings van energieproduksie									
1B3a	Steenkool-na-vloeistof prosesse	geen	60	0	10	10	5	5	5	95
1B3b	Gas-na-vloeistof prosesse	geen	60	0	10	10	5	5	5	95

Act No. 15 of 2019

Carbon Tax Act, 2019

52

IPCC Code	Activity/Sector	Threshold	Basic tax-free allowance for fossil fuel combustion emissious %	Basic tax-free allowance for process emissious %	Fugitive emissions allowance %	Trade exposure allowance %	Performance allowance %	Carbon budget allowance %	Offsets allowance %	Maximum total allowances %
1B3c	Gas-to-chemicals processes	none	60	0	10	10	5	5	5	95
1C	Carbon Dioxide Transport and Storage									
1C1	Transport of CO ₂	none	60	0	10	10	5	5	5	95
1C1a	Pipelines	10 000 tons CO ₂ /year	60	0	10	10	5	5	5	95
1C1b	Ships	10 000 tons CO ₂ /year	60	0	10	10	5	5	5	95
1C1c	Other (please specify)	10 000 tons CO ₂ /year	60	0	10	10	5	5	5	95
1C2	Injection and Storage									
1C2a	Injection	10 000 tons CO ₂ /year	60	0	10	10	5	5	5	95
1C2b	Storage	10 000 tons CO ₂ /year	60	0	10	10	5	5	5	95
1C3	Other	N/A	60	0	10	10	5	5	5	95
2	INDUSTRIAL PROCESSES AND PRODUCT USE									
2A	Mineral Industry									
2A1	Cement Production	none	0	70	0	10	5	5	5	95
2A2	Lime Production	none	0	70	0	10	5	5	5	95
2A3	Glass Production	none	0	70	0	10	5	5	5	95
2A4	Other Process Uses of Carbonates		0	70	0	10	5	5	5	95
2A4a	Ceramics	N/A	0	70	0	10	5	5	5	95
2A4b	Other Uses of Soda Ash	N/A	0	70	0	10	5	5	5	95
2A4c	Non Metallurgical Magnesia Production	none	0	70	0	10	5	5	5	95
2A4d	Other (please specify)	N/A	0	70	0	10	5	5	5	95
2A5	Other (please specify)	N/A	60	0	0	10	5	5	10	90
2B	Chemical Industry									
2B1	Ammonia Production	none	0	70	0	10	5	5	5	95
2B2	Nitric Acid Production	none	0	70	0	10	5	5	5	95
2B3	Adipic Acid Production	none	0	70	0	10	5	5	5	95
2B4	Caprolactam, Glyoxal and Glyoxylic Acid Production	none	0	70	0	10	5	5	5	95
2B5	Carbide Production	none	0	70	0	10	5	5	5	95
2B6	Titanium Dioxide Production	none	0	70	0	10	5	5	5	95
2B7	Soda Ash Production	none	0	70	0	10	5	5	5	95
2B8	Petrochemical and Carbon Black Production									
2B8a	Methanol	none	0	70	0	10	5	5	5	95
2B8b	Ethylene	none	0	70	0	10	5	5	5	95

Wet op Koolstofbelasting, 2019

Wet No. 15 van 2019

IPCC-kode	Aktiwiteit/ Sektor	Drempel	Basiese belasting-vrye toelae vir fossiel-brandstof verbranding %	BASIESE belasting-vrye toelae vir PROSES vry-stellings %	Vlugtige vry-stellings-toelae %	Handels-bloot-stellings toelae %	Verrigting toelae %	Koolstof-begroting toelae %	Ver-rekenings toelae %	Maksimum totale toelae %
1B3c	Gas-na-chemikalieë Prosesse	geen	60	0	10	10	5	5	5	95
1C	Koolstofdioksied vervoer en bering									
1C1	Vervoer van CO₂	geen	60	0	10	10	5	5	5	95
1C1a	Pypeleidings	10 000 ton CO ₂ /jaar	60	0	10	10	5	5	5	95
1C1b	Skepe	10 000 ton CO ₂ /jaar	60	0	10	10	5	5	5	95
1C1c	Ander (spesifiseer asseblief)	10 000 ton CO ₂ /jaar	60	0	10	10	5	5	5	95
1C2	Insputing en bering									
1C2a	Insputing	10 000 ton CO ₂ /jaar	60	0	10	10	5	5	5	95
1C2b	Bering	10 000 ton CO ₂ /jaar	60	0	10	10	5	5	5	95
1C3	ANDER	geen	60	0	10	10	5	5	5	95
2	Industriële prosesse en produk gebruik									
2A	Minerale Nywerheid									
2A1	Sementproduksie	geen	0	70	0	10	5	5	5	95
2A2	Kalkproduksie	geen	0	70	0	10	5	5	5	95
2A3	Glasproduksie	geen	0	70	0	10	5	5	5	95
2A4	Ander proses-gebruike van karbonate		60	0	0	10	5	5	10	90
2A4a	Keramiek	geen	60	0	0	10	5	5	10	90
2A4b	Ander gebruik van soda-as	geen	60	0	0	10	5	5	10	90
2A4c	Nie-metallurgiese magnesia-produksie	geen	60	0	0	10	5	5	10	90
2A4d	Ander (spesifiseer asseblief)	10 000 ton CO ₂ /jaar	60	0	0	10	5	5	10	90
2A5	Ander (spesifiseer asseblief)	NA	60	0	0	10	5	5	10	90
2B	Chemikalië nywerheid									
2B1	Ammoniakproduksie	geen	0	70	0	10	5	5	5	95
2B2	Salpetersuur-produksie	geen	0	70	0	10	5	5	5	95
2B3	Adipic suurproduksie	geen	0	70	0	10	5	5	5	95
2B4	“Caprolactam”, “Glyoxal” en “Glyoxsilic Acid”-produksie	geen	0	70	0	10	5	5	5	95
2B5	Karbiedproduksie	geen	0	70	0	10	5	5	5	95
2B6	Titaandioksied-produksie	geen	0	70	0	10	5	5	5	95
2B7	Soda-asproduksie	geen	0	70	0	10	5	5	5	95
2B8	Petrochemikalieë en koolswartproduksie									
2B8a	Metanol	geen	0	70	0	10	5	5	5	95
2B8b	Etilleen	geen	0	70	0	10	5	5	5	95

Act No. 15 of 2019

Carbon Tax Act, 2019

54

IPCC Code	Activity/Sector	Threshold	Basic tax-free allowance for fossil fuel combustion emissions %	Basic tax-free allowance for process emissions %	Fugitive emissions allowance %	Trade exposure allowance %	Performance allowance %	Carbon budget allowance %	Offsets allowance %	Maximum total allowances %
2B8c	Ethylene Dichloride and Vinyl Chloride Monomer	none	0	70	0	10	5	5	5	95
2B8d	Ethylene Oxide	none	0	70	0	10	5	5	5	95
2B8e	Acrylonitrile	none	0	70	0	10	5	5	5	95
2B8f	Carbon Black	none	0	70	0	10	5	5	5	95
2B8g	Hydrogen Production	none	0	70	0	10	5	5	5	95
2B9	Fluorochemical Production									
2B9a	By-product Emissions	none	0	70	0	10	5	5	5	95
2B9b	Fugitive Emissions	none	0	70	0	10	5	5	5	95
2B10	Other (Please specify)	N/A	0	70	0	10	5	5	5	95
2C	Metal Industry									
2C1	Iron and Steel Production	none	0	70	0	10	5	5	5	95
2C2	Ferroalloys Production	none	0	70	0	10	5	5	5	95
2C3	Aluminium Production	none	0	70	0	10	5	5	5	95
2C4	Magnesium Production	none	0	70	0	10	5	5	5	95
2C5	Lead Production	none	0	70	0	10	5	5	5	95
2C6	Zinc Production	none	0	70	0	10	5	5	5	95
2C7	Other (please specify)	N/A	0	60	0	10	5	5	10	90
2D	Non-Energy Products from Fuels and Solvent Use									
2D1	Lubricant Use	N/A	0	60	0	10	5	5	10	90
2D2	Paraffin Wax Use	N/A	0	60	0	10	5	5	10	90
2D3	Solvent Use	N/A	0	60	0	10	5	5	10	90
2D4	Other (please specify)	N/A	0	60	0	10	5	5	10	90
2E	Electronics Industry									
2E.1	Integrated Circuit or Semiconductor	N/A	0	60	0	10	5	5	10	90
2E.2	TFT Flat Panel Display	N/A	0	60	0	10	5	5	10	90
2E.3	Photovoltaics	N/A	0	60	0	10	5	5	10	90
2E.4	Heat Transfer Fluid	N/A	0	60	0	10	5	5	10	90
2E.5	Other (please specify)	N/A	0	60	0	10	5	5	10	90
2F	Product Uses as Substitutes for Ozone Depleting Substances									
2F1	Refrigeration and Air Conditioning									
2F1a	Refrigeration and Stationary Air Conditioning	N/A	0	60	0	10	5	5	10	90
2F1b	Mobile Air Conditioning	N/A	0	60	0	10	5	5	10	90
2F2	Foam Blowing Agents	N/A	0	60	0	10	5	5	10	90

Wet op Koolstofbelasting, 2019

Wet No. 15 van 2019

IPCC-kode	Aktiwiteit/ Sektor	Drempel	Basiese belasting-vrye toelae vir fossiel-brandstof verbranding %	BASIESE belasting-vrye toelae vir PROSES vry-stellings%	Vlugtige vry-stellings-toelae %	Handels-bloot-stellings-toelae %	Verrigting toelae %	Koolstofbegroting toelae %	Ver-rekenings toelae %	Maksimum totale toelae %
2B8c	Etileendichloried en viniechloried monomeer	geen	0	70	0	10	5	5	5	95
2B8d	Etileneoksied	geen	0	70	0	10	5	5	5	95
2B8e	Akrilonitriel	geen	0	70	0	10	5	5	5	95
2B8f	Koolswart	geen	0	70	0	10	5	5	5	95
2B8g	Waterstofproduksie	geen	0	70	0	10	5	5	5	95
2B9	Fluoro Chemikaliëe Produksie									
2B9a	By-produkvrystellings	geen	0	70	0	10	5	5	5	95
2B9b	Vlugtige vrystellings	geen	0	70	0	10	5	5	5	95
2B10	Ander (Spesifiseer asseblief)	NVT	0	70	0	10	5	5	5	95
2C	Metaalhywerheid									
2C1	Yster- en staalproduksie	geen	0	70	0	10	5	5	5	95
2C2	Ysterlegeringproduksie	geen	0	70	0	10	5	5	5	95
2C3	Aluminiumproduksie	geen	0	60	0	10	5	5	10	90
2C4	Magnesiumproduksie	geen	0	60	0	10	5	5	10	90
2C5	Loodproduksie	geen	0	60	0	10	5	5	10	90
2C6	Sinkproduksie	geen	0	60	0	10	5	5	10	90
2C7	Ander (Spesifiseer asseblief)	-NVT	0	60	0	10	5	5	10	90
2D	Nie-energie Produkte van gebruik van brandstowwe en oplosmiddels									
2D1	Smeermiddelgebruik	NVT	0	60	0	10	5	5	10	90
2D2	Paraffienwasgebruik	NVT	0	60	0	10	5	5	10	90
2D3	Oplosmiddelgebruik	NVT	0	60	0	10	5	5	10	90
2D4	Ander (spesifiseer asseblief)	NVT	0	60	0	10	5	5	10	90
2E	Elektroniese nywerheid									
2E.1	Geïntegreerde geleier-verbinding of halfgeleier	NVT	0	60	0	10	5	5	10	90
2E.2	“TFT” Plat paneelskerm	NVT	0	60	0	10	5	5	10	90
2E.3	Fotovoltaïes	NVT	0	60	0	10	5	5	10	90
2E.4	Hitte-oordrag vloeistof	NVT	0	60	0	10	5	5	10	90
2E.5	Ander (spesifiseer asseblief)	NVT	0	60	0	10	5	5	10	90
2F	Produk gebruike as vervangings vir osoon-afbrekende stowwe									
2F1	Verkoeling en lugversorging									
2F1a	Verkoeling en stilstaande lugversorging	NVT	0	60	0	10	5	5	10	90
2F1b	Beweeglike lugversorging	NVT	0	60	0	10	5	5	10	90
2F2	Skuimblasende middele	NVT	0	60	0	10	5	5	10	90

Act No. 15 of 2019

Carbon Tax Act, 2019

56

IPCC Code	Activity/Sector	Threshold	Basic tax-free allowance for fossil fuel combustion emissious %	Basic tax-free allowance for process emissious %	Fugitive emissions allowance %	Trade exposure allowance %	Performance allowance %	Carbon budget allowance %	Offsets allowance %	Maximum total allowances %
2F3	Fire Protection	N/A	0	60	0	10	5	5	10	90
2F4	Aerosols	N/A	0	60	0	10	5	5	10	90
2F5	Solvents	N/A	0	60	0	10	5	5	10	90
2F6	Other Applications (please specify)	N/A	0	60	0	10	5	5	10	90
2G	Other Product Manufacture and Use									
2G1	Electrical Equipment									
2G1a	Manufacture of Electrical Equipment	N/A	0	60	0	10	5	5	10	90
2G1b	Use of Electrical Equipment	N/A	0	60	0	10	5	5	10	90
2G1c	Disposal of Electrical Equipment		0	60	0	10	5	5	10	90
2G2	SF₆ and PFCs from Other Product Uses	N/A								
2G2a	Military Applications	N/A	0	60	0	10	5	5	10	90
2G2b	Accelerators	N/A	0	60	0	10	5	5	10	90
2G2c	Other (please specify)	N/A	0	60	0	10	5	5	10	90
2G3	N₂O from Product Uses	N/A								
2G3a	Medical Applications	N/A	0	60	0	10	5	5	10	90
2G3b	Propellant for Pressure and Aerosol Products	N/A	0	60	0	10	5	5	10	90
2G3c	Other (Please specify)	N/A	0	60	0	10	5	5	10	90
2G4	Other (Please specify)	N/A	0	60	0	10	5	5	10	90
2H	Other									
2H1	Pulp and Paper Industry	N/A	0	60	0	10	5	5	10	90
2H2	Food and Beverages Industry	N/A	0	60	0	10	5	5	10	90
2H3	Other (please specify)	N/A	0	60	0	10	5	5	10	90
3	AGRICULTURE, FORESTRY, AND OTHER LAND USE									
3A	Livestock									
3A1	Enteric Fermentation									
3A1a	Cattle	N/A	100	0	0	0	0	0	0	100
3A1b	Buffalo	N/A	100	0	0	0	0	0	0	100
3A1c	Sheep	N/A	100	0	0	0	0	0	0	100
3A1d	Goats	N/A	100	0	0	0	0	0	0	100
3A1e	Camels	N/A	100	0	0	0	0	0	0	100
3A1f	Horses	N/A	100	0	0	0	0	0	0	100
3A1g	Mules and Asses	N/A	100	0	0	0	0	0	0	100
3A1h	Swine	N/A	100	0	0	0	0	0	0	100
3A1j	Other (please specify)	N/A	100	0	0	0	0	0	0	100
3A2	Manure Management									
3A2a	Cattle	N/A	100	0	0	0	0	0	0	100

Wet op Koolstofbelasting, 2019

Wet No. 15 van 2019

IPCC-kode	Aktiwiteit/ Sektor	Drempel	Basiese belasting-vrye toelae vir fossiel-brandstof verbranding %	BASIESE belasting-vrye toelae vir PROSES vry-stellings%	Vlngtige vry-stellings-toelae %	Handels-blootstellings-toelae %	Verrigting toelae %	Koolstofbegroting toelae %	Ver-rekenings toelae %	Maksimum totale toelae %
2F3	Brandbeveiliging	NVT	0	60	0	10	5	5	10	90
2F4	Aerosols	NVT	0	60	0	10	5	5	10	90
2F5	Oplosmiddels	NVT	0	60	0	10	5	5	10	90
2F6	Ander toepassings (spesifiseer asseblief)	NVT	0	60	0	10	5	5	10	90
2G	Ander produk-vervaardiging en gebruik									
2G1	Elektriese toernsting									
2G1a	Vervaardiging van elektriese toerusting	NVT	0	60	0	10	5	5	10	90
2G1b	Gebruik van elektriese toerusting	NVT	0	60	0	10	5	5	10	90
2G1c	Beskikking oor elektriese toerusting		0	60	0	10	5	5	10	90
2G2	SF6 EN "PFCs" van ander produkgebruike	NVT								
2G2a	Militêre toepassings	NVT	0	60	0	10	5	5	10	90
2G2b	Versnellers	NVT	0	60	0	10	5	5	10	90
2G2c	Ander (spesifiseer asseblief)	NVT	0	60	0	10	5	5	10	90
2G3	N ₂ O van produkgebruike	NVT								
2G3a	Medisinale toepassings	NVT	0	60	0	10	5	5	10	90
2G3b	Stumiddel vir druk en aerosolprodukte	NVT	0	60	0	10	5	5	10	90
2G3c	Ander (spesifiseer asseblief)	NVT	0	60	0	10	5	5	10	90
2G4	Ander (spesifiseer asseblief)	NVT	0	60	0	10	5	5	10	90
2H	ANDER									
2H1	Pulp- en papiernywerheid	NVT	0	60	0	10	5	5	10	90
2H2	Voedsel- en dranknywerheid	NVT	0	60	0	10	5	5	10	90
2H3	ANDER (spesifiseer asseblief)	NVT	0	60	0	10	5	5	10	90
3	Landbon, bosbon, en ander grondgebruik									
3A	Lewende hawe									
3A1	Ingewandsgisting									
3A1a	Vee	NVT	100	0	0	0	0	0	0	100
3A1b	Buffels	NVT	100	0	0	0	0	0	0	100
3A1c	Skape	NVT	100	0	0	0	0	0	0	100
3A1d	Bokke	NVT	100	0	0	0	0	0	0	100
3A1e	Kamele	NVT	100	0	0	0	0	0	0	100
3A1f	Perde	NVT	100	0	0	0	0	0	0	100
3A1g	Muile en esels	NVT	100	0	0	0	0	0	0	100
3A1h	Swyne	NVT	100	0	0	0	0	0	0	100
3A1j	Ander (spesifiseer asseblief)	NVT	100	0	0	0	0	0	0	100
3A2	Messtofbestuur									
3A2a	Vee	NVT	100	0	0	0	0	0	0	100

Act No. 15 of 2019

Carbon Tax Act, 2019

58

IPCC Code	Activity/Sector	Threshold	Basic tax-free allowance for fossil fuel combustion emissious %	Basic tax-free allowance for process emissious %	Fugitive emissions allowance %	Trade exposure allowance %	Performance allowance %	Carbon budget allowance %	Offsets allowance %	Maximum total allowances %
3A2b	Buffalo	N/A	100	0	0	0	0	0	0	100
3A2c	Sheep	N/A	100	0	0	0	0	0	0	100
3A2d	Goats	N/A	100	0	0	0	0	0	0	100
3A2e	Camels	N/A	100	0	0	0	0	0	0	100
3A2f	Horses	N/A	100	0	0	0	0	0	0	100
3A2g	Mules and Asses	N/A	100	0	0	0	0	0	0	100
3A2h	Swine	N/A	100	0	0	0	0	0	0	100
3A2i	Poultry	N/A	100	0	0	0	0	0	0	100
3A2j	Other (please specify)	N/A	100	0	0	0	0	0	0	100
3B	Land									
3B1	Forest Land									
3B1a	Forest land Remaining Forest Land	100 Hectares of Plantations or Natural forests	100	0	0	0	0	0	0	100
3B1b	Land Converted to Forest Land	100 Hectares of Plantations or Natural forests	100	0	0	0	0	0	0	100
3B2	Cropland									
3B2a	Cropland Remaining Cropland	N/A	100	0	0	0	0	0	0	100
3B2b	Land Converted to Cropland	N/A	100	0	0	0	0	0	0	100
3B3	Grassland									
3B3a	Grassland Remaining Grassland	N/A	100	0	0	0	0	0	0	100
3B3b	Land Converted to Grassland	N/A	100	0	0	0	0	0	0	100
3B4	Wetlands									
3B4a	Wetlands Remaining Wetlands	N/A	100	0	0	0	0	0	0	100
3B4b	Land Converted to Wetlands	N/A	100	0	0	0	0	0	0	100
3B5	Settlements									
3B5a	Settlements Remaining Settlements	N/A	100	0	0	0	0	0	0	100
3B5b	Land Converted to Settlements	N/A	100	0	0	0	0	0	0	100
3B6	Other Land									
3B6a	Other Land Remaining Other Land	N/A	100	0	0	0	0	0	0	100
3B6b	Land Converted to Other Land	N/A	100	0	0	0	0	0	0	100
3C	Aggregate Sources and Non-CO₂ Emissions Sources on Land									
3C1	Emissions from Biomass Burning									
3C1a	Biomass Burning in Forest Lands	N/A	100	0	0	0	0	0	0	100
3C1b	Biomass Burning in Croplands	N/A	100	0	0	0	0	0	0	100

Wet op Koolstofbelasting, 2019

Wet No. 15 van 2019

IPCC-kode	Aktiwiteit/ Sektor	Drempel	Basiese belasting-vrye toelae vir fossiel-brandstof verbranding %	BASIESE belasting-vrye toelae vir PROSES vry-stellings %	Vlugtige vry-stellings-toelae %	Handels-blootstellings-toelae %	Verrigting toelae %	Koolstofbegroting toelae %	Ver-rekenings toelae %	Maksimum totale toelae %
3A2b	Buffels	NVT	100	0	0	0	0	0	0	100
3A2c	Skape	NVT	100	0	0	0	0	0	0	100
3A2d	Bokke	NVT	100	0	0	0	0	0	0	100
3A2e	Kamele	NVT	100	0	0	0	0	0	0	100
3A2f	Perde	NVT	100	0	0	0	0	0	0	100
3A2g	Muile en esels	NVT	100	0	0	0	0	0	0	100
3A2h	Swyne	NVT	100	0	0	0	0	0	0	100
3A2i	Pluimvee	NVT	100	0	0	0	0	0	0	100
3A2j	Ander (spesifiseer asseblief)	NVT	100	0	0	0	0	0	0	100
3B	Land									
3B1	Woudland									
3B1a	Woudland Blywende woudland	100 Hektaar van plantasies of natuurlike woude	100	0	0	0	0	0	0	100
3B1b	Land omgeskakel in woudland	100 Hektaar van plantasies of natuurlike woude	100	0	0	0	0	0	0	100
3B2	Gewasland									
3B2a	Gewasland blywende gewasland	NVT	100	0	0	0	0	0	0	100
3B2b	Land omgeskakel na gewasland	NVT	100	0	0	0	0	0	0	100
3B3	Grasland									
3B3a	Grasland blywende grasland	NVT	100	0	0	0	0	0	0	100
3B3b	Land omgeskakel na grasland	NVT	100	0	0	0	0	0	0	100
3B4	Moerasland									
3B4a	Moerasland blywende moerasland	NVT	100	0	0	0	0	0	0	100
3B4b	Land omgeskakel na moerasland	NVT	100	0	0	0	0	0	0	100
3B5	Nedersettings									
3B5a	Nedersettings blywende nedersettings	NVT	100	0	0	0	0	0	0	100
3B5b	Land omgeskakel na nedersettings	NVT	100	0	0	0	0	0	0	100
3B6	ANDER Land									
3B6a	Ander land blywende ander land	NVT	100	0	0	0	0	0	0	100
3B6b	Land omgeskakel na ander land	NVT	100	0	0	0	0	0	0	100
3C	Totale nie-CO₂-vrystellingsbronre op land									
3C1	Vrystellings van biomassaverbranding									
3C1a	Biomassaverbranding in woudland	NVT	100	0	0	0	0	0	0	100
3C1b	Biomassaverbranding in gewasland	NVT	100	0	0	0	0	0	0	100

Act No. 15 of 2019

Carbon Tax Act, 2019

60

IPCC Code	Activity/Sector	Threshold	Basic tax-free allowance for fossil fuel combustion emissious %	Basic tax-free allowance for process emissious %	Fugitive emissions allowance %	Trade exposure allowance %	Performance allowance %	Carbon budget allowance %	Offsets allowance %	Maximum total allowances %
3C1c	Biomass Burning in Grasslands	N/A	100	0	0	0	0	0	0	100
3C1d	Biomass Burning in All Other Land	N/A	100	0	0	0	0	0	0	100
3C2	Liming	N/A	100	0	0	0	0	0	0	100
3C3	Urea Application	N/A	100	0	0	0	0	0	0	100
3C4	Direct N ₂ O Emissions from Managed Soils	N/A	100	0	0	0	0	0	0	100
3C5	Indirect N ₂ O Emissions from Managed Soils	N/A	100	0	0	0	0	0	0	100
3C6	Indirect N ₂ O Emissions from Manure Management	N/A	100	0	0	0	0	0	0	100
3C7	Rice Cultivations	N/A	100	0	0	0	0	0	0	100
3C8	Other (please specify)	N/A	100	0	0	0	0	0	0	100
3D	Other									
3D1	Harvested Wood Products	N/A	100	0	0	0	0	0	0	100
3D2	Other (please specify)	N/A	100	0	0	0	0	0	0	100
4	WASTE									
4A	Solid Waste Disposal									
4A1	Managed Waste Disposal Sites	Receiving 5 tonnes per day or a total capacity of 25000 tonnes	100	0	0	0	0	0	0	100
4A2	Unmanaged Waste Disposal Sites	Receiving 5 tonnes per day or a total capacity of 25000 tonnes	100	0	0	0	0	0	0	100
4A3	Uncategorised Waste Disposal Sites	Receiving 5 tonnes per day or a total capacity of 25000 tonnes	100	0	0	0	0	0	0	100
4B	Biological Treatment of Solid Waste	N/A	100	0	0	0	0	0	0	100
4C	Incineration and Open Burning of Waste									
4C0	Waste — Pyrolysis	100 kg/hour	100	0	0	0	0	0	0	100
4C1	Waste Incineration	1 tonne per hour	60	0	0	10	5	5	10	90
4C2	Open Burning of Waste	N/A	100	0	0	0	0	0	0	100
4D	Wastewater Treatment and Discharge									
4D1	Domestic Wastewater Treatment and Discharge	2 Million litres/day	100	0	0	0	0	0	0	100

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3C1c	Biomassaverbranding in grasland	NVT	100	0	0	0	0	0	0	100
3C1d	Biomassaverbranding in alle ander lande	NVT	100	0	0	0	0	0	0	100
3C2	Kalking	NVT	100	0	0	0	0	0	0	100
3C3	Urea aanwending	NVT	100	0	0	0	0	0	0	100
3C4	Direkte N ₂ O-vrystellings van bestuurde grond	NVT	100	0	0	0	0	0	0	100
3C5	Indirekte N ₂ O-vrystellings van bestuurde grond	NVT	100	0	0	0	0	0	0	100
3C6	Indirekte N ₂ O-vrystellings van messtof bestuur	NVT	100	0	0	0	0	0	0	100
3C7	Rysaanplantings	NVT	100	0	0	0	0	0	0	100
3C8	Ander (spesifiseer asseblief)	NVT	100	0	0	0	0	0	0	100
3D	Ander									
3D1	Geoesde houtprodukte	NVT	100	0	0	0	0	0	0	100
3D2	Ander (spesifiseer asseblief)	NVT	100	0	0	0	0	0	0	100
4	Afval									
4A	Vastestof afval besikking									
4A1	Bestuurde afvalbesikkings-terreine	Ontvangende 5 ton per dag of 'n totale kapasiteit van 25000 ton	100	0	0	0	0	0	0	100
4A2	Onbestuurde afvalbesikkings-terreine	Ontvangende 5 ton per dag of 'n totale kapasiteit van 25000 ton	100	0	0	0	0	0	0	100
4A3	Ongekategoriseerde afvalbesikkings-terreine	Ontvangende 5 ton per dag of 'n totale kapasiteit van 25000 ton	100	0	0	0	0	0	0	100
4B	Biologiese behandeling van vastestof afval	NVT	100	0	0	0	0	0	0	100
4C	Verassing en ope verbranding van afval									
4C0	Afval — pirolise	100 kg/uur	100	0	0	0	0	0	0	100
4C1	Afval verassing	1 TON per uur	60	0	0	10	5	5	10	90
4C2	Ope verbranding van afval	NVT	100	0	0	0	0	0	0	100
4D	Afvalwater behandeling en uitstorting									
4D1	Huishoudelike afvalwaterbehandeling en uitstorting	2 Miljoen liters/dag	100	0	0	0	0	0	0	100

Act No. 15 of 2019

Carbon Tax Act, 2019

62

IPCC Code	Activity/Sector	Threshold	Basic tax-free allowance for fossil fuel combustion emissious %	Basic tax-free allowance for process emissious %	Fugitive emissions allowance %	Trade exposure allowance %	Performance allowance %	Carbon budget allowance %	Offsets allowance %	Maximum total allowances %
4D2	Industrial Wastewater Treatment and Discharge	1000 cubic metres per day	100	0	0	0	0	0	0	100
4E	Other (please specify)	N/A								
5	OTHER									
5A	Indirect N ₂ O Emissions from the Atmospheric Deposition of Nitrogen in NO _x and NH ₃	N/A	60	0	0	10	5	5	10	90
5B	Other (please specify)	N/A	60	0	0	10	5	5	10	90

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4D2	Nywerheid afvalwaterbehandeling en uitstorting	1000 kubieke meter per dag	100	0	0	0	0	0	0	100
4E	Ander (spesifiseer asseblief)	NVT								
5	Ander									
5A	Indirekte N ₂ O-vrystellings van die atmosferiese afsetting van stikstof in NOX en NH ₃	NVT	60	0	0	10	5	5	10	90
5B	Ander (spesifiseer asseblief)	NVT	60	0	0	10	5	5	10	90

Schedule 3*(Section 20)***GENERAL EXPLANATORY NOTE:**

- [] Words in bold type in square brackets indicate omissions from existing enactments.
- Words underlined with a solid line indicate insertions in existing enactments.
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Amendment of section 1 of Act 91 of 1964, as amended by section 1 of Act 95 of 1965, section 1 of Act 57 of 1966, section 1 of Act 105 of 1969, section 1 of Act 98 of 1970, section 1 of Act 71 of 1975, section 1 of Act 112 of 1977, section 1 of Act 110 of 1979, sections 1 and 15 of Act 98 of 1980, section 1 of Act 89 of 1984, section 1 of Act 84 of 1987, section 32 of Act 60 of 1989, section 51 of Act 68 of 1989, section 1 of Act 59 of 1990, section 1 of Act 19 of 1994, section 34 of Act 34 of 1997, section 57 of Act 30 of 1998, section 46 of Act 53 of 1999, section 58 of Act 30 of 2000, section 60 of Act 59 of 2000, section 113 of Act 60 of 2001, section 131 of Act 45 of 2003, section 66 of Act 32 of 2004, section 85 of Act 31 of 2005, section 7 of Act 21 of 2006, section 10 of Act 9 of 2007, section 4 of Act 36 of 2007, section 22 of Act 61 of 2008 and section 1 of Act 32 of 2014

1. Section 1 of the Customs and Excise Act, 1964, is hereby amended by the insertion in subsection (1) after the definition of “bulk goods terminal operator” of the following definition:

“**Carbon Tax Act**” means an Act of Parliament that makes provision for a carbon tax;”.

Amendment of section 54A of Act 91 of 1964, as inserted by section 139 of Act 45 of 2003 and renumbered by section 32 of Act 16 of 2004

2. The following section is hereby substituted for section 54A of the Customs and Excise Act, 1964:

“Imposition of environmental levy

54A. A levy known as the environmental levy shall be—

- (a) leviable on such imported goods and goods manufactured in the Republic as may be specified in any item of Part 3 of Schedule No.1; and
- (b) collected and paid in respect of carbon tax imposed in terms of the Carbon Tax Act, 2019.”.

Bylae 3*(Artikel 20)***ALGEMENE VERDUIDELIKENDE NOTA:**

— Woorde met 'n volstreep daaronder dui inwoegings in bestaande verordnings aan.

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Wysiging van artikel 1 van Wet 91 van 1964, soos gewysig deur artikel 1 van Wet 95 van 1965, artikel 1 van Wet 57 van 1966, artikel 1 van Wet 105 van 1969, artikel 1 van Wet 98 van 1970, artikel 1 van Wet 71 van 1975, artikel 1 van Wet 112 van 1977, artikel 1 van Wet 110 van 1979, artikels 1 en 15 van Wet 98 van 1980, artikel 1 van Wet 89 van 1984, artikel 1 van Wet 84 van 1987, artikel 32 van Wet 60 van 1989, artikel 51 van Wet 68 van 1989, artikel 1 van Wet 59 van 1990, artikel 1 van Wet 19 van 1994, artikel 34 van Wet 34 van 1997, artikel 57 van Wet 30 van 1998, artikel 46 van Wet 53 van 1999, artikel 58 van Wet 30 van 2000, artikel 60 van Wet 59 van 2000, artikel 113 van Wet 60 van 2001, artikel 131 van Wet 45 van 2003, artikel 66 van Wet 32 van 2004, artikel 85 van Wet 31 van 2005, artikel 7 van Wet 21 van 2006, artikel 10 van Wet 9 van 2007, artikel 4 van Wet 36 van 2007 en artikel 22 van Wet 61 van 2008 en artikel 1 van Wet 32 van 2014

1. Artikel 1 van die Doeane- en Aksynswet, 1964, word hierby gewysig deur in subartikel (1) na die omskrywing van "voorgeskryf" die volgende omskrywing in te voeg:

"Wet op Koolstofbelasting" 'n Parlements-wet wat voorsiening maak vir 'n koolstofbelasting".

Wysiging van artikel 54A van Wet 91 van 1964, soos ingevoeg deur artikel 139 van Wet 45 van 2003 en hernommer deur artikel 32 van Wet 16 van 2004

2. Artikel 54A van die Doeane- en Aksynswet, 1964, word hierby deur die volgende artikel vervang:

"Oplegging van omgewingsheffing

54A. 'n Heffing bekend as die omgewingsheffing, word—

- (a) invorderbaar teen sodanige ingevoerde goedere en goedere vervaardig in die Republiek soos gespesifieer mag word in enige item van Deel 3 van Bylae No.1; en
- (b) ingevorder en betaal ten opsigte van koolstofbelasting opgelê ingevolge die Wet op Koolstofbelasting, 2019.”.