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## 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**

ISSN 1682-5843



AIDS HELPLINE: 0800-0123-22 Prevention is the cure

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

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# ACT

**To provide for the imposition of a tax on the carbon dioxide (CO<sub>2</sub>) 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,

**B**E 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<sub>2</sub>) ekwivalent van kweekhuisgasvrystellings; en om voorsiening te maak vir aangeleenthede wat daarmee in verband staan.**

### AANHEF

**AANGESIEN** die oorsaaklikheid van die toename van antropogeniese kweekhuisgasvrystellings in die atmosfeer en die wêreldwye 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 wêreldwye 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 voorkoming, 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:—

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**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 (CO<sub>2</sub>) 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 (CO<sub>2</sub>) 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 (CO<sub>2</sub>), methane (CH<sub>4</sub>), nitrous oxide (N<sub>2</sub>O), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs) and sulphur hexafluoride (SF<sub>6</sub>);
  - “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;
  - “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  
**“Kommissaris”** die Kommissaris vir die Suid-Afrikaanse Inkomstediens;  
**“koolstofbegroting”** ’n toegeelde 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 ( $\text{CO}_2$ ) -ekwivalent van kweekhuisgasvrystellings opgelê kragtens artikel 2;  
**“koolstofdioksied ( $\text{CO}_2$ ) -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 ( $\text{CO}_2$ ), metaan ( $\text{CH}_4$ ), stikstofoksied ( $\text{N}_2\text{O}$ ), hidrofluorokoolstowwe (HFC’s), perfluorokoolstowwe (PFCs) en swael heksafluoried ( $\text{SF}_6$ ) in; 35  
**“Minister”** die Minister van Finansies;  
**“persoon”** ook—  
(a) ’n vennootskap;  
(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  
**“vrystelling”**—  
(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; 55  
**“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;

- (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:

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

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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 “CO<sub>2</sub> (KGCO<sub>2</sub>/TJ)” of that table;

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**“vrystellingsintensiteit”** ’n 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—

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- (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

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(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— 35

- (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: 50

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

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 “CO<sub>2</sub> (KGCO<sub>2</sub>/TJ)” van daardie tabel; 55

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- (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 “CH<sub>4</sub> (KGCH<sub>4</sub>/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 “N<sub>2</sub>O (KGN<sub>2</sub>O/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 “CO<sub>2</sub>” 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 “CH<sub>4</sub>” 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 “N<sub>2</sub>O” 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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- (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 "CH<sub>4</sub> (KGCH<sub>4</sub>/TJ)" van daardie tabel; 5
- (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 "N<sub>2</sub>O (KGN<sub>2</sub>O/TJ)" van daardie tabel; en 10
- (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 15
- (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:
- $$F = (N \times Q)$$
- in welke formule— 20
- (i) "F" die getal verteenwoordig wat bepaal staan te word;
  - (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 25
  - (iii) "Q" die kweekhuisgasvrystellingsfaktor verteenwoordig in koolstofdioksied ekwivalent per ton of kubieke meter wat bepaal word ooreenkomstig die formule—
- $$X = (C \times 1) + (M \times 23) + (N \times 296)$$
- in welke formule— 30
- (aa) "X" die getal wat bepaal staan te word verteenwoordig;
  - (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 "CO<sub>2</sub>" van daardie tabel; 35
  - (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 "CH<sub>4</sub>" van daardie tabel;
  - (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 "N<sub>2</sub>O" van daardie tabel; en 40
- (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:
- $$P = (G \times H)$$
- in welke formule— 45
- (i) "P" die bedrag verteenwoordig wat bepaal staan te word wat nie minder as nul is nie;
  - (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 55
  - (iii) "H" die kweekhuisgasvrystellingsfaktor in koolstofdioksied vrystellingsekwiwalent per ton verteenwoordig vir elke grondstof gebruik of produk vervaardig bepaal ooreenkomstig die formule:
- $$X = (C \times 1) + (M \times 23) + (N \times 296) + (H \times 11\ 900) + (T \times 5\ 700) + (S \times 22\ 200)$$
- in welke formule— 60
- (aa) "X" die getal wat bepaal staan te word verteenwoordig;

- (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 “CO<sub>2</sub>/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 “CH<sub>4</sub>/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 “N<sub>2</sub>O/ tonne product” of that table; 15
- (ee) “H” represents the Hexafluoroethane (C<sub>2</sub>F<sub>6</sub>) 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 “C<sub>2</sub>F<sub>6</sub>/tonne product” of that table; 20
- (ff) “T” represents the carbon tetrafluoride (CF<sub>4</sub>) 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 “CF<sub>4</sub>/tonne product” of that table; 25
- (gg) “S” represents the Sulphur hexafluoride (SF<sub>6</sub>) 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 “SF<sub>6</sub>/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:

$$X = \{[(E - S) \times (1 - C)] - [D \times (1 - M)]\} + \{P \times (1 - J)\} + \{F \times (1 - K)\} \times R$$

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 “CO<sub>2</sub>/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 “CH<sub>4</sub>/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 “N<sub>2</sub>O/ ton produk” van daardie tabel; 15
- (ee) “H” die hexafluoroetaan (C<sub>2</sub>F<sub>6</sub>) 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 “C<sub>2</sub>F<sub>6</sub>/ton produk” van daardie tabel; 20
- (ff) “T” die koolstoftetrafluoried (CF<sub>4</sub>) 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 “CF<sub>4</sub>/ton produk” van daardie tabel; en 25
- (gg) “S” die swaelheksafluoride (SF<sub>6</sub>) -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 “SF<sub>6</sub>/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: 45  

$$X = <\{(E - S) \times (1 - C)\} - [D \times (1-M)]\} + \{P \times (1 - J)\} + \{F \times (1 - K)\}> \times R$$
 in welke formule—  
 (a) “X” die bedrag verteenwoordig wat bepaal staan te word wat nie minder as nul moet wees nie; 50  
 (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);  
 (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; 5
  - (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); 10
  - (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; 15
  - (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 20
  - (k) “R” represents the rate of tax prescribed under section 5: 25
- 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** 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); 35
  - (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
  - (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. 45

## **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

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15

- (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 kennisgewing 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 brandstofverbrandingvrystelling wat in Bylae 2 in die kolom “Aktiwiteit/Sektor” gelys is, ontvang ’n toelae ten opsigte van daardie vrystelling, 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 fossielbrandstofverbrandingvrystelling %” in Bylae 2 te pas by die totale persentasie van kweekhuisgasvrystelling 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:

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

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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
  - (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.

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**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. 5

### 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. 15

### Handelsblootstellingstoelae

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**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.

### 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:

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

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. 45

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### Koolstofbegrotingstoelae

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**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. 50

(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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*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 omgewingsheffingsrekening 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 aangeleenthed nodig vir die regulasie of die gebruik van koolstofverrekenings.

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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**

<b>FUEL TYPE</b>	<b>CO<sub>2</sub> (KGCO<sub>2</sub>/TJ)</b>	<b>CH<sub>4</sub> (KGCH<sub>4</sub>/TJ)</b>	<b>N<sub>2</sub>O (KGN<sub>2</sub>O/TJ)</b>	<b>DEFAULT CALORIFIC VALUE (TJ/TONNE)</b>
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

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

<b>BRANDSTOFSOORT</b>	<b>CO<sub>2</sub> (KGCO<sub>2</sub>/ TJ)</b>	<b>CH<sub>4</sub> (KGCH<sub>4</sub>/ TJ)</b>	<b>N<sub>2</sub>O (KGN<sub>2</sub>O/ TJ)</b>	<b>STANDAARD VERBRANDINGS- WAARDE (TJ/TON)</b>
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
FABRIEKSFAVAL	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 <sub>2</sub> (KG CO <sub>2</sub> /TJ)	CH <sub>4</sub> (KG CH <sub>4</sub> /TJ)	N <sub>2</sub> O (KG N <sub>2</sub> 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 LYTES (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

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BRANDSTOFSOORT	CO <sub>2</sub> (KG CO <sub>2</sub> /TJ)	CH <sub>4</sub> (KG CH <sub>4</sub> /TJ)	N <sub>2</sub> O (KG N <sub>2</sub> 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 SMELENNDGAS	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 <sub>2</sub> (KGCO <sub>2</sub> / TJ)	CH <sub>4</sub> (KGCH <sub>4</sub> / TJ)	N <sub>2</sub> O (KGN <sub>2</sub> 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

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**NIE-STILSTAANDE / BEWEEGLIKE BRON KATEGORIE AKTIWITEIT**

<b>BRANDSTOFSOORT</b>	<b>CO<sub>2</sub> (KGCO<sub>2</sub>/ TJ)</b>	<b>CH<sub>4</sub> (KGCH<sub>4</sub>/ TJ)</b>	<b>N<sub>2</sub>O (KGN<sub>2</sub>O/ TJ)</b>	<b>STANDAARD VERBRANDINGS- WAARDE (TJ/TONNE)</b>
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 STEENKOOLSPOR	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 <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O
<b>1B1</b>	<b>SOLID FUELS (M<sup>3</sup> /TONNE)</b>			
<b>1B1a</b>	<b>COAL MINING AND HANDLING</b>			
<b>1B1ai</b>	UNDERGROUND COAL MINING	0.077	0.77	
	UNDERGROUND POST-MINING (HANDLING & TRANSPORT)	0.018	0.18	
<b>1B1aII</b>	SURFACE COAL MINING	N/A	0	
	SURFACE POST-MINING (STORAGE AND TRANSPORT)	N/A	0	
<b>1B1c2</b>	Charcoal production (Fuel wood input) (kgCH <sub>4</sub> /TJ)	N/A	300	
	Charcoal production (Charcoal produced) (kgCH <sub>4</sub> /TJ)	N/A	1000	
<b>1B2</b>	<b>OIL AND NATURAL GAS (Gg/ 10<sup>3</sup>M<sup>3</sup> TOTAL OIL PRODUCTION)</b>			
<b>1B2b</b>	<b>NATURAL GAS</b>			
<b>1B2b</b>	<b>FLARING AND VENTING</b>			
<b>1.B.2.b.ii</b>	WELL DRILLING	0.0001	0.000033	ND
<b>1.B.2.b.ii</b>	WELL TESTING	0.009	0.000051	0.000000068
<b>1.B.2.b.ii</b>	WELL SERVICING	0.0000019	0.00011	ND
<b>1B2b</b>	<b>GAS PRODUCTION (Gg/ 10<sup>6</sup>M<sup>3</sup> TOTAL OIL PRODUCTION)</b>			
<b>1.B.2.b.iii.2</b>	FUGITIVES	1.40E-05 to 8.20E-05	3.80E-04 to 2.30E-03	N/A
<b>1.B.2.b.ii</b>	FLARING	0.0012	0.00000076	0.000000021
	<b>GAS PROCESSING (Gg/ 10<sup>6</sup>M<sup>3</sup> RAW GAS FEED)</b>			
<b>1.B.2.b.iii.3</b>	SWEET GAS PLANTS—FUGITIVES	1.50E-04 to 3.20E-04	4.80E-04 to 1.03E-03	N/A
<b>1.B.2.b.ii</b>	SWEET GAS PLANTS—FLARING	0.0018	0.0000012	0.000000025
<b>1.B.2.b.iii.3</b>	SOUR GAS PLANTS—FUGITIVES	0.0000079	0.000097	N/A
<b>1.B.2.b.ii</b>	SOUR GAS PLANTS—FLARING	0.0036	0.0000024	0.000000054
<b>1.B.2.b.i</b>	SOUR GAS PLANTS —RAW CO <sub>2</sub> VENTING	0.063	N/A	N/A
<b>1.B.2.b.iii.3</b>	DEEP CUT EXTRACTION—FUGITIVES	0.0000016	0.000011	N/A
<b>1.B.2.b.ii</b>	DEEP CUT EXTRACTION—FLARING	0.00011	0.000000072	0.000000012
<b>1.B.2.b.iii.3</b>	DEFAULT—FUGITIVES	1.20E-05 to 3.20E-04	1.50E-04 to 1.03E-03	N/A
<b>1.B.2.b.ii</b>	DEFAULT—FLARING	0.003	0.000002	0.000000033
<b>1.B.2.b.i</b>	DEFAULT—RAW CO <sub>2</sub> VENTING	0.04	N/A	N/A
<b>1B2b</b>	<b>GAS TRANSMISSION &amp; STORAGE (Gg-CO<sub>2</sub>/year/km)</b>			
<b>1.B.2.b.iii.4</b>	TRANSMISSION—FUGITIVES	0.000016	0.0025	N/A
<b>1.B.2.b.i</b>	TRANSMISSION—VENTING	0.0000085	0.0010	N/A
<b>1.B.2.b.iii.4</b>	STORAGE (Gg-CO <sub>2</sub> /year/M <sup>3</sup> )		2.32E-09	ND
<b>1B2b</b>	<b>GAS DISTRIBUTION (Gg/ 10<sup>6</sup>M<sup>3</sup> OF UTILITY SALES)</b>			

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

IPCC-kode	BRONKATEGORIE FAKTORE	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O
<b>1B1</b>	<b>VASTE BRANDSTOF (M<sup>3</sup> /TON)</b>			
<b>1B1a</b>	<b>STEENKOOLMYNBOU EN HANTERING</b>			
<b>1B1ai</b>	ONDERGRONDSE STEENKOOLMYNBOU	0.077	0.77	
	ONDERGRONDSE NA-MYNBOU (HANTERING & VERVOER)	0.018	0.18	
<b>1B1aII</b>	BOGRONDse STEENKOOLMYNBOU	NVT	0	
	BOGRONDse NA-MYNBOU (BERGING EN VERVOER)	NVT	0	
<b>1B1c2</b>	HOUTSKOOLPRODUKSIE (Brandstof hout toevoer) (kgCH <sub>4</sub> /TJ)	NVT	300	
	Houtskoolproduksie (Houtskool geproduseer) (kgCH <sub>4</sub> /TJ)	NVT	1000	
<b>1B2</b>	<b>OLIE EN AARDGAS (Gg/ 10<sup>3</sup>M<sup>3</sup> TOTALE OLIEPRODUKSIE)</b>			
<b>1B2b</b>	<b>AARDGAS</b>			
<b>1B2b</b>	<b>OPVLAMMING EN ONTLUGTING</b>			
<b>1.B.2.b.ii</b>	PUTBOOR	0.0001	0.000033	ND
<b>1.B.2.b.ii</b>	PUTTOETS	0.009	0.000051	0.000000068
<b>1.B.2.b.ii</b>	PUTDIENS	0.0000019	0.00011	ND
<b>1B2b</b>	<b>GASPRODUKSIE (Gg/ 10<sup>6</sup>M<sup>3</sup> TOTAAL OLIEPRODUKSIE)</b>			
<b>1.B.2.b.iii.2</b>	VLUGTIGES	1.40E-05 tot 8.20E-05	3.80E-04 tot 2.30E-03	NVT
<b>1.B.2.b.ii</b>	OPVLAMMING	0.0012	0.00000076	0.000000021
	<b>GASVERWERKING (Gg/ 10<sup>6</sup>M<sup>3</sup> ROUGASTOEVOER)</b>			
<b>1.B.2.b.iii.3</b>	SOET GAS AANLEG-VLUGTIGES	1.50E-04 tot 3.20E-04	4.80E-04 tot 1.03E-03	NVT
<b>1.B.2.b.ii</b>	SOET GAS AANLEG—OPVLAMMING	0.0018	0.0000012	0.000000025
<b>1.B.2.b.iii.3</b>	SUUR GAS AANLEG—VLUGTIGES	0.0000079	0.000097	NVT
<b>1.B.2.b.ii</b>	SUUR GAS AANLEG—OPVLAMMING	0.0036	0.0000024	0.000000054
<b>1.B.2.b.i</b>	SUUR GAS AANLEG—RU CO <sub>2</sub> ONTLUGTING	0.063	NVT	NVT
<b>1.B.2.b.iii.3</b>	DIEPGROEFONTGINNING—VLUGTIGES	0.0000016	0.000011	NVT
<b>1.B.2.b.ii</b>	DIEPGROEFONTGINNING—OPVLAMMING	0.00011	0.000000072	0.000000012
<b>1.B.2.b.iii.3</b>	STANDAARD—VLUGTIGES	1.20E-05 tot 3.20E-04	1.50E-04 tot 1.03E-03	NVT
<b>1.B.2.b.ii</b>	STANDAARD—OPVLAMMING	0.003	0.000002	0.000000033
<b>1.B.2.b.i</b>	STANDAARD—RU CO <sub>2</sub> ONTVLUGTING	0.04	NVT	NVT
<b>1B2b</b>	<b>GASLEIDING &amp; -BERGING (Gg-CO<sub>2</sub>/jaar/km)</b>			

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

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

IPCC Code	SOURCE CATEGORY ACTIVITY	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O
<b>1.B.2.a.i</b>	TANKER TRUCKS AND RAIL CARS—VENTING	0.0000023	0.000025	N/A
	<b><i>OIL TRANSPORT (Gg/ 10<sup>3</sup>M<sup>3</sup> OIL TRANSPORTED BY TANKER SHIPS)</i></b>			
<b>1.B.2.a.i</b>	LOADING OFF-SHORE PRODUCTION ON TANKER SHIPS—VENTING	ND	ND	ND
<b>1B2a</b>	<b><i>OIL REFINING (Gg/ 10<sup>3</sup>M<sup>3</sup> OIL REFINED)</i></b>			
<b>1.B.2.a.iii.4</b>	ALL		2.60E-06 to 4.10E-05	ND

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IPCC-kode	BRONKATEGORIE FAKTORE	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O
<b>1.B.2.a.iii.2</b>	STANDAARD TOTAAL— VLUGTIGES	0.00028	0.0022	NVT
<b>1.B.2.a.i</b>	STANDAARD TOTAAL— ONTVLUGTING	0.0018	0.0087	NVT
<b>1.B.2.a.ii</b>	STANDAARD TOTAAL— OPVLAGMING	0.034	0.000021	0.00000054
<b>1B2a</b>	<b>OLIE OPGRAДЕRING (Gg/ 10<sup>3</sup>M<sup>3</sup> OLIE OPGEGRADEER)</b>			
<b>1.B.2.a.iii.2</b>	ALLES	ND	ND	ND
<b>1B2a</b>	<b>OLIEVERVOER (Gg/ 10<sup>3</sup>M<sup>3</sup> OLIE VEROER DEUR PYPLEIDING)</b>			
<b>1.B.2.a.iii.3</b>	PYPLEIDING	0.00000049	0.0000054	NVT
<b>1B2a</b>	<b>OLIEVERVOER (Gg/ 10<sup>3</sup>M<sup>3</sup> OLIE VEROER DEUR TENKWA)</b>			
<b>1.B.2.a.i</b>	TENKWA'S EN TENKWA'S—ONTVLUGTING	0.0000023	0.000025	NVT
	<b>OLIEVERVOER (Gg/ 10<sup>3</sup>M<sup>3</sup> OLIE VEROER DEUR OLIEBOTE)</b>			
<b>1.B.2.a.i</b>	LAAI AFLANDIGE PRODUKSIE OP OLIEBOTE— ONTVLUGTING	ND	ND	ND
<b>1B2a</b>	<b>OLIE RAFFINERING (Gg/ 10<sup>3</sup>M<sup>3</sup> OLIE GERAFFINEER)</b>			
<b>1.B.2.a.iii.4</b>	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 <sub>2</sub> /tonne product	TONNE CH <sub>4</sub> /tonne product	TONNE N <sub>2</sub> O/tonne product	TONNE C <sub>2</sub> F <sub>6</sub> /tonne product	TONNE CF <sub>4</sub> /tonne product	TONNE SF <sub>6</sub> /tonne product
<b>2A1</b>	<i>CEMENT PRODUCTION (PER TONNE OF CLINKER)</i>						
	CEMENT	0.52					
<b>2A2</b>	<i>LIME PRODUCTION (PER TONNE OF LIME)</i>						
	QUICKLIME/HIGH CALCIUM LIME	0.75					
	DOLOMITIC LIME	0.77					
	HYDRATED LIME	0.59					
<b>2A3</b>	<i>GLASS PRODUCTION (PER TONNE GLASS)</i>						
	GLASS PRODUCTION	0.2					
<b>2A4</b>	<i>Other Process Uses of Carbonates</i>						
<b>2A4a</b>	<i>CERAMICS (PER TONNE CARBONATE)</i>						
	CALCITE/ARAGONITE (CaCO <sub>3</sub> )	0.43971					
	MAGNESITE (MgCO <sub>3</sub> )	0.52197					
	DOLOMITE (CaMg(CO <sub>3</sub> ) <sub>2</sub> )	0.47732					
	SIDERITE (FeCO <sub>3</sub> )	0.37987					
	ANKERITE (Ca(Fe,Mg,Mn)(CO <sub>3</sub> ) <sub>2</sub> )	0.40822 to 0.47572					
	RHODOCHROSITE (MnCO <sub>3</sub> )	0.38286					
	SODIUM CARBONATE/SODA ASH (Na <sub>2</sub> CO <sub>3</sub> )	0.41492					
<b>2A4b</b>	<i>OTHER USES OF SODA ASH (PER TONNE CARBONATE)</i>						
	CALCITE/ARAGONITE (CaCO <sub>3</sub> )	0.43971					
	MAGNESITE (MgCO <sub>3</sub> )	0.52197					
	DOLOMITE (CaMg(CO <sub>3</sub> ) <sub>2</sub> )	0.47732					
	SIDERITE (FeCO <sub>3</sub> )	0.37987					
	ANKERITE (Ca(Fe,Mg,Mn)(CO <sub>3</sub> ) <sub>2</sub> )	0.40822 to 0.47572					
	RHODOCHROSITE (MnCO <sub>3</sub> )	0.38286					
	SODIUM CARBONATE/SODA ASH (Na <sub>2</sub> CO <sub>3</sub> )	0.41492					
<b>2A4c</b>	<i>NON METALLURGICAL MAGNESIA PRODUCTION (PER TONNE CARBONATE)</i>						
	CALCITE/ARAGONITE (CaCO <sub>3</sub> )	0.43971					
	MAGNESITE (MgCO <sub>3</sub> )	0.52197					
	DOLOMITE (CaMg(CO <sub>3</sub> ) <sub>2</sub> )	0.47732					
	SIDERITE (FeCO <sub>3</sub> )	0.37987					
	ANKERITE (Ca(Fe,Mg,Mn)(CO <sub>3</sub> ) <sub>2</sub> )	0.40822 to 0.47572					

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Tabel 3

**INDUSTRIËLE PROSESSE EN PRODUKGEBRUIK (IPPU)**  
**Vrystellingsfaktore**

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

IPCC Code	SOURCE CATEGORY ACTIVITY / RAW MATERIAL / PRODUCT	TONNE CO <sub>2</sub> /tonne product	TONNE CH <sub>4</sub> /tonne product	TONNE N <sub>2</sub> O/tonne product	TONNE C <sub>2</sub> F <sub>6</sub> /tonne product	TONNE CF <sub>4</sub> /tonne product	TONNE SF <sub>6</sub> /tonne product
	RHODOCHROSITE (MnCO <sub>3</sub> )	0.38286					
	SODIUM CARBONATE/SODA ASH (Na <sub>2</sub> CO <sub>3</sub> )	0.41492					
<b>2A5</b>	<b>OTHER (PER TONNE CARBONATE)</b>						
	CALCITE/ARAGONITE (CaCO <sub>3</sub> )	0.43971					
	MAGNESITE (MgCO <sub>3</sub> )	0.52197					
	DOLOMITE (CaMg(CO <sub>3</sub> ) <sub>2</sub> )	0.47732					
	SIDERITE (FeCO <sub>3</sub> )	0.37987					
	ANKERITE (Ca(Fe,Mg,Mn)(CO <sub>3</sub> ) <sub>2</sub> )	0.40822 to 0.47572					
	RHODOCHROSITE (MnCO <sub>3</sub> )	0.38286					
	SODIUM CARBONATE/SODA ASH (Na <sub>2</sub> CO <sub>3</sub> )	0.41492					
<b>2B1</b>	<b>AMMONIA PRODUCTION (PER TONNE NH<sub>3</sub>)</b>						
	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					
<b>2B2</b>	<b>NITRIC ACID PRODUCTION (PER TONNE NITRIC ACID)</b>						
	PLANTS WITH NSCR (ALL PROCESSES)			0.002			
	PLANTS WITH PROCESS (INTEGRATED OR TAIL GAS NO <sub>2</sub> 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			
<b>2B3</b>	<b>ADIPIC ACID PRODUCTION (PER TONNE ADIPIC ACID UNCONTROLLED)</b>						
	NITRIC ACID OXIDATION (ADIPIC ACID)			0.3			
<b>2B4</b>	<b>CAPROLACTAM, GLYOXAL AND GLYOXYLIC ACID PRODUCTION (PER TONNE PRODUCED)</b>						
	CAPROLACTAM PRODUCTION (RASCHIG)			0.009			

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	ANKERIET (Ca(Fe,Mg,Mn)(CO <sub>3</sub> ) <sub>2</sub> )	0.40822 tot 0.47572					
	RODOCHROSIET (MnCO <sub>3</sub> )	0.38286					
	SODIUM KARBONAAT/ SODA-AS (Na <sub>2</sub> CO <sub>3</sub> )	0.41492					
<b>2A5</b>	<b>ANDER (PER TON KARBONAAT)</b>						
	KALSIET/ARAGONIET (CaCO <sub>3</sub> )	0.43971					
	MAGNESIET (MgCO <sub>3</sub> )	0.52197					
	DOLOMIET (CaMg(CO <sub>3</sub> ) <sub>2</sub> )	0.47732					
	SIDERIET (FeCO <sub>3</sub> )	0.37987					
	ANKERIET (Ca(Fe,Mg,Mn)(CO <sub>3</sub> ) <sub>2</sub> )	0.40822 tot 0.47572					
	RODOCHROSIET (MnCO <sub>3</sub> )	0.38286					
	SODIUM KARBONAAT/SODA-AS (Na <sub>2</sub> CO <sub>3</sub> )	0.41492					
<b>2B1</b>	<b>AMMONIAKPRODUKSIE (PER TON NH<sub>3</sub>)</b>						
	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					
<b>2B2</b>	<b>SALPETERSUUR- PRODUKSIE (PER TON SALPETERSUUR)</b>						
	AANLEGTE MET "NSCR". (ALLE PROSESSE)			0.002			
	AANLEGTE MET PROSES (GEINTEGREERDE OF AFVOERGAS NO <sub>2</sub> VERNIETING)			0.0025			
	ATMOSFERIESE DRUK AANLEGTE (LAEDRUK AANLEGTE)			0.005			
	MEDIUMDRUK ONTBRANDINGS- AANLEGTE (MEDIUM DRUK)			0.007			
	HOËDRUK AANLEGTE (HOË DRUK)			0.009			
<b>2B3</b>	<b>'ADIPIC' SUURPRODUKSIE (PER TON 'ADIPIC' SUUR ONBEHEER)</b>						
	SALPETERSUUR-OKSIDASIE ('ADIPIC' SUUR)			0.3			

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	GLYOXAL PRODUCTION			0.1			
	GLYOXYLIC ACID PRODUCTION			0.02			
<b>2B5</b>	<b>CARBIDE PRODUCTION (PER TONNE RAW MATERIAL USED)</b>						
	SILICON CARBIDE PRODUCTION	2.3	0.0102				
	PETROLEUM COKE USE	1.7					
<b>2B5</b>	<b>CARBIDE PRODUCTION (PER TONNE CARBIDE PRODUCED)</b>						
	SILICON CARBIDE PRODUCTION (CARBIDE PRODUCED)	2.62	0.0116				
	PETROLEUM COKE USE	1.09					
	USE OF PRODUCT	1.1					
<b>2B6</b>	<b>TITANIUM DIOXIDE PRODUCTION (PER TONNE PRODUCT)</b>						
	TITANIUM SLAG	NOT AVAILABLE					
	SYNTHETIC RUTILE	1.43					
	RUTILE TITANIUM DIOXIDE (CHLORIDE ROUTE)	1.34					
<b>2B7</b>	<b>SODA ASH PRODUCTION (PER TONNE OF SODA ASH OR TRONA)</b>						
	NATURAL SODA ASH OUTPUT	0.138					
	NATURAL SODA ASH (TRONA USED)	0.097					
<b>2B8</b>	PETROCHEMICAL AND CARBON BLACK PRODUCTION						
<b>2B8a</b>	<b>METHANOL PRODUCTION (PER TONNE METHANOL PRODUCED)</b>						
	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 <sub>2</sub> FEEDSTOCK)	0.267	0.0023				

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<b>2B4</b>	“CAPROLACTAM”, “GLYOXAL” EN “GLYOKSILIC” SUURPRODUKSIE (PER TON PRODUSEER)						
	“CAPROLACTAM” PRODUKSIE (RASCHIG)			0.009			
	GLYOXAL-PRODUKSIE			0.1			
	“GLYOKSILIC” SUURPRODUKSIE			0.02			
<b>2B5</b>	<i>KARBIED PRODUKSIE (PER TON GRONDSTOF GEBRUIK)</i>						
	SILIKON KARBIEDPRODUKSIE	2.3	0.0102				
	PETROLEUM KOOKSGEbruIK	1.7					
<b>2B5</b>	<i>KARBIEDPRODUKSIE (PER TON KARBIED PRODUSEER)</i>						
	SILIKON KARBIEDPRODUKSIE (KARBIED PRODUSEER)	2.62	0.0116				
	PETROLEUM KOOKSGEbruIK	1.09					
	GEBRUIK VAN PRODUK	1.1					
<b>2B6</b>	<i>TITAANDIOKSIED- PRODUKSIE (PER TON PRODUK)</i>						
	TITAANSLAK	NIE BESKIK- BAAR					
	SINTETIESE RUTIEL	1.43					
	RUTIELE TITAANDIOKSIED (CHLORIED ROETE)	1.34					
<b>2B7</b>	<i>SODA-ASPRODUKSIE (PER TON VAN SODA-AS OF TRONA)</i>						
	NATUURLIKE SODA-AS PRODUKSIE	0.138					
	NATUURLIKE SODA-AS (TRONA GEBRUIK)	0.097					
<b>2B8</b>	<i>PETROCHEMIESE EN KOOLSWART-PRODUKSIE</i>						
<b>2B8a</b>	<i>METANOL-PRODUKSIE (PER TON METANOL PRODUSEER)</i>						
	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				

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	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				
<b>2B8b</b>	<b>STEAM CRACKING ETHYLENE PRODUCTION (PER TONNE ETHYLENE PRODUCED)</b>						
	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				

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	KONVENTIONELE STOOMHERVORMING “LURGI” KONVENTIONELE PROSES (AARDGAS+CO <sub>2</sub> 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 STEENKOOVVOERSTOF)	5.285	0.0023				
	GEDEELTELIKE OKSIDASIEPROSES (LIGNIETVOERSTOF)	5.02	0.0023				
	KONVENTIONELE STOOMHERVORMING MET GEÏNTEGREERDE AMMONIAK-PRODUKSIE (AARDGASVOERSTOF)	1.02	0.0023				
<b>2B8b</b>	<b>STOOM “CRACKING” ETILEENPRODUKSIE (PER TON ETILEEN PRODUSEER)</b>						
	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				

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	ETHYLENE ( SUPPLEMENTAL FUEL-ENERGY FEEDSTOCK) USE—GAS OIL	0.12	0.003				
	ETHYLENE ( SUPPLEMENTAL FUEL-ENERGY FEEDSTOCK) USE—ETHANE	0.19	0.006				
<b>2B8c</b>	<b>ETHYLENE DICHLORIDE AND VINYL CHLORIDE MONOMER (PER TONNE EDC PRODUCED OR TONNE VCM PRODUCT PRODUCED)</b>						
	DIRECT CHORINATION PROCESS (EDC)	0.191	0.0000226				
	OXYCHLORINATION PROCESS (EDC)	0.202	0.0000226				
	BALANCED PROCESS (DEFAULT)—EDC	0.196	0.0000226				
<b>2B8c</b>	<b>ETHYLENE DICHLORIDE AND VINYL CHLORIDE MONOMER (PER TONNE VCM PRODUCED OR TONNE VCM PRODUCT PRODUCED)</b>						
	DIRECT CHLORINATION—PROCESS (VCM)	0.286	0.0000226				
	OXYCHLORINATION PROCESS (VCM)	0.302	0.0000226				
	BALANCED PROCESS (DEFAULT) -VCM	0.294	0.0000226				
<b>2B8d</b>	<b>ETHYLENE OXIDE (PER TONNE ETHYLENE OXIDE PRODUCED)</b>						
	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				
<b>2B8e</b>	<b>ACRYLONITRILE (PER TONNE ACRYLONITRILE PRODUCED)</b>						
	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				

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	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				
<b>2B8c</b>	<b>ETILEENDICHLORIED EN VINIELCHLORIED MONOMER (PER TON EDC PRODUSEER OF TON VCM PRODUK PRODUSEER)</b>						
	DIREKTE CHLORINERINGS- PROSES (“EDC”)	0.191	0.0000226				
	OKSICHLORINERINGS- PROSES (“EDC”)	0.202	0.0000226				
	GEBALANSEERDE PROSES (STANDAARD)— “EDC”	0.196	0.0000226				
<b>2B8c</b>	<b>ETILEENDICHLORIED EN VINIELCHLORIED MONOMER (PER TON VCM PRODUSEER OF TON VCM PRODUK PRODUSEER)</b>						
	DIREKTE CHLORINERINGS- PROSES (“VCM”)	0.286	0.0000226				
	OKSICHLORINE- RINGSPROSES (“VCM”)	0.302	0.0000226				
	GEBALANSEERDE PROSES (STANDAARD) —“VCM”	0.294	0.0000226				
<b>2B8d</b>	<b>ETILEENOKSIED (PER TON ETILEENOKSIED PRODUSEER)</b>						
	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				

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	DIRECT AMMOXIDATION WITH ACETONITRILE & HYDROGEN CYANIDE RE-COVERED AS PRODUCT	0.79	0.00018				
<b>2B8f</b>	<b>CARBON BLACK PRODUCTION (PER TONNE CARBON BLACK PRODUCED)</b>						
	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				
<b>2C1</b>	<b>IRON AND STEEL PRODUCTION (PER TONNE PRODUCT PRODUCED)</b>						
	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					
<b>2C2</b>	<b>FERROALLOYS PRODUCTION (PER TONNE PRODUCTION)</b>						
	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					

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	ALLE ETILEENOKSIED- PROSESSE—TERMIESE BEHANDELING	NVT	0.00079				
<b>2B8e</b>	<b>AKRILONITRIEL (PER TON ACRYLONITRILE PRODUSEER)</b>						
	DIREKTE AMMOKSIDASIE MET SEKONDÈRE PRODUKTE VERBRAND VIR ENERGIE HERWINNING OF OPVLMMING (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				
<b>2B8f</b>	<b>KOOLSWARTPRODUKSIE (PER TON KOOLSWART PRODUSEER)</b>						
	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				
<b>2C1</b>	<b>YSTER- EN STAALPRODUKSIE (PER TON PRODUK PRODUSEER)</b>						
	SINTERPRODUKSIE	0.2	0.00007				
	KOOKSOOND	0.56	0.0000001				
	RUYSSTERPRODUKSIE	1.35					
	DIREKTE VERMINDERDE YSTER-(“DRI”) PRODUKSIE	0.7	0.001/TJ (NG)				

IPCC Code	SOURCE CATEGORY ACTIVITY / RAW MATERIAL / PRODUCT	TONNE CO <sub>2</sub> /tonne product	TONNE CH <sub>4</sub> /tonne product	TONNE N <sub>2</sub> O/tonne product	TONNE C <sub>2</sub> F <sub>6</sub> /tonne product	TONNE CF <sub>4</sub> /tonne product	TONNE SF <sub>6</sub> /tonne product
	FERROMANGANESE (1% C)	1.5					
	SILICOMANGANESE	1.4					
	SILICON METAL	5	0.0012				
	FERROCHROMIUM (STAND ALONE)	1.3					
	FERROCHROMIUM (WITH SINTER PLANT)	1.6					
<b>2C3</b>	<b>ALUMINIUM PRODUCTION (PER TONNE ALUMINIUM PRODUCED)</b>						
	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		
<b>2C4</b>	<b>MAGNESIUM PRODUCTION (PER TONNE MAGNESIUM PRODUCED)</b>						
	DOLOMITE	5.13				0.001	
	MAGNESITE	2.83				0.001	
<b>2C5</b>	<b>LEAD PRODUCTION (PER TONNE PRODUCT)</b>						
	IMPERIAL SMELT FURNACE (ISF) PRODUCTION	0.59					
	DIRECT SMELTING PRODUCTION	0.25					
	TREATMENT OF SECONDARY RAW MATERIALS	0.2					
	DEFAULT EF	0.52					
<b>2C6</b>	<b>ZINC PRODUCTION (PER TONNE PRODUCT)</b>						
	WAEZ KILN	3.66					
	PYROMETALLURGICAL	0.43					
	DEFAULT EF	1.72					

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IPCC-kode	BRON KATEGORIE AKTIWITEIT/ GRONDSTOF/ PRODUK	TON CO <sub>2</sub> /ton produk	TON CH <sub>4</sub> /ton produk	TON N <sub>2</sub> O/ ton produk	TON C <sub>2</sub> F <sub>6</sub> /ton produk	TON CF <sub>4</sub> /ton produk	TON SF <sub>6</sub> /ton produk
	KORRELPRODUKSIE	0.03					
	BASIESE SUURSTOF HOOGOOND	1.46					
	ELEKTRIESE VLAM HOOGOOND	0.08					
	OOP HERD HOOGOOND	1.72					
	GLOBALE GEMIDDELD	1.06					
<b>2C2</b>	<b>YSTERLEGERINGS- PRODUKSIE (PER TON PRODUKSIE)</b>						
	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					
<b>2C3</b>	<b>ALUMINIUMPRODUKSIE (PER TON ALUMINIUM PRODUSEER)</b>						
	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		
<b>2C4</b>	<b>MAGNESIUM-PRODUKSIE (PER TON MAGNESIUM PRODUSEER)</b>						
	DOLOMIET	5.13				0.001	
	MAGNESIET	2.83				0.001	
<b>2C5</b>	<b>LOODPRODUKSIE (PER TON PRODUK)</b>						
	“IMPERIAL” SMELT HOOGOOND (ISF) PRODUKSIE	0.59					
	DIREKTE SMLETING PRODUKSIE	0.25					
	BEHANDELING VAN SEKONDÈRE GRONDSTOF	0.2					
	STANDAARD “EF”	0.52					
<b>2C6</b>	<b>SINKPRODUKSIE (PER TON PRODUK)</b>						
	WAELZ-OOND	3.66					
	PYROMETALURGIES	0.43					
	STANDAARD “EF”	1.72					

**Schedule 2**

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 %
1	Energy									
1A	Fuel Combustion Activities									
1A1	Energy Industries (including heat and electricity recovery from Waste)									
1A1a	Main Activity Electricity and Heat Production (including Combined Heat and Power Plants)	10 MW(th)	60	0	0	10	5	5	10	90
1A1b	Petroleum Refining	10 MW(th)	60	0	0	10	5	5	10	90
1A1c	Manufacture of Solid Fuels and Other Energy Industries	10 MW(th)	60	0	0	10	5	5	10	90
1A2	Manufacturing Industries and Construction (including heat and electricity recovery from Waste)		60	0	0	10	5	5	10	90
1A2a	Iron and Steel	10 MW(th)	60	0	0	10	5	5	10	90
1A2b	Non-Ferrous Metals	10 MW(th)	60	0	0	10	5	5	10	90
1A2c	Chemicals	10 MW(th)	60	0	0	10	5	5	10	90
1A2d	Pulp, Paper and Print	10 MW(th)	60	0	0	10	5	5	10	90
1A2e	Food Processing, Beverages and Tobacco	10 MW(th)	60	0	0	10	5	5	10	90
1A2f	Non-Metallic Minerals	10 MW(th)	60	0	0	10	5	5	10	90
1A2g	Transport Equipment	10 MW(th)	60	0	0	10	5	5	10	90
1A2h	Machinery	10 MW(th)	60	0	0	10	5	5	10	90
1A2i	Mining and Quarrying	10 MW(th)	60	0	0	10	5	5	10	90
1A2j	Wood and Wood Products	10 MW(th)	60	0	0	10	5	5	10	90
1A2k	Construction	10 MW(th)	60	0	0	10	5	5	10	90
1A2l	Textile and Leather	10 MW(th)	60	0	0	10	5	5	10	90
1A2m	Brick manufacturing: 4 million bricks a month		60	0	0	10	5	5	10	90
1A3	Transport									
1A3a	Domestic Aviation	100 000 litres/year	75	0	0	0	5	5	10	95
1A3b	Road Transportation	N/A	75	0	0	0	0	5	10	90
1A3c	Railways	100 000 litres/year	75	0	0	0	0	5	10	90
1A3d	Water-borne Navigation	100 000 litres/year	75	0	0	0	0	5	10	90
1A3e	Other Transportation	N/A	75	0	0	0	0	5	10	90
1A4	Other Sectors (including heat and electricity recovery from Waste)									

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## Bylae 2

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 toelaes %
1	Energie									
1A	Brandstof Verbranding Aktiwiteit									
1A1	Energie Industries (ingesluit hitte en elektrisiteit herwinning van afval)									
1A1a	Hoof aktiwiteit elektrisiteit en hitte produksie (Ingesluit gekombineerde hitte en krag aanlegte)	10 MW(th)	60	0	0	10	5	5	10	90
1A1b	Petroleum Raffinering	10 MW(th)	60	0	0	10	5	5	10	90
1A1c	Vervaardiging van vaste brandstof en ander energie nywerhede	10 MW(th)	60	0	0	10	5	5	10	90
1A2	Vervaardigings-nywerhede en konstruksie (Ingesluit hitte en elektrisiteits-herwinning uit afval)		60	0	0	10	5	5	10	90
1A2a	Yster en staal	10 MW(th)	60	0	0	10	5	5	10	90
1A2b	Nie-ysterhoudende metale	10 MW(th)	60	0	0	10	5	5	10	90
1A2c	Chemikalieë	10 MW(th)	60	0	0	10	5	5	10	90
1A2d	Pulp, papier en druk	10 MW(th)	60	0	0	10	5	5	10	90
1A2e	Voedselverwerking, drank en tabak	10 MW(th)	60	0	0	10	5	5	10	90
1A2f	Nie-metaalagtige minerale	10 MW(th)	60	0	0	10	5	5	10	90
1A2g	Vervoertoerusting	10 MW(th)	60	0	0	10	5	5	10	90
1A2h	Masjinerie	10 MW(th)	60	0	0	10	5	5	10	90
1A2i	Mynbou en uitgrawing	10 MW(th)	60	0	0	10	5	5	10	90
1A2j	Hout en houtprodukte	10 MW(th)	60	0	0	10	5	5	10	90
1A2k	Konstruksie	10 MW(th)	60	0	0	10	5	5	10	90
1A2l	Tekstiel en leer	10 MW(th)	60	0	0	10	5	5	10	90
1A2m	Baksteen-vervaardiging:	4 miljoen bakstene 'n maand	60	0	0	10	5	5	10	90
1A3	Vervoer									
1A3a	Plaaslike vervoer	100 000 litres/year	70	0	0	0	5	5	10	90
1A3b	Padvervoer	NA <sub>2</sub>	75	0	0	0	0	5	10	90
1A3c	Spoorweë	100 000 litres/year	75	0	0	0	0	5	10	90
1A3d	Seevaart	100 000 litres/year	75	0	0	0	0	5	10	90
1A3e	Ander vervoer	NA	75	0	0	0	0	5	10	90
1A4	Ander sektore (Ingesluit hitte en elektrisiteits-herwinning uit afval)									

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Carbon Tax Act, 2019

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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 %
<b>1A4a</b>	Commercial/Institutional	10 MW(th)	60	0	0	10	5	5	10	90
<b>1A4b</b>	Residential	10 MW(th)	100	0	0	0	0	0	0	100
<b>1A4c</b>	Agriculture/Forestry/Fishing/Fish Farms	10 MW(th)	60	0	0	10	5	5	10	90
<b>1A5</b>	Non-Specified (including heat and electricity recovery from Waste)									
<b>1A5a</b>	Stationary	10 MW(th)	60	0	0	10	5	5	10	90
<b>1A5b</b>	Mobile	N/A	60	0	0	10	5	5	10	90
<b>1A5c</b>	Multilateral Operations	N/A	60	0	0	10	5	5	10	90
<b>1B</b>	<b>Fugitive Emissions from Fuels</b>									
<b>1B1</b>	<b>Solid Fuels</b>									
<b>1B1a</b>	Coal Mining and Handling	None	60	0	10	10	5	5	5	95
<b>1B1ai</b>	Underground mines including flaring of drained methane (excluding abandoned mines)	none	60	0	10	10	5	5	5	95
<b>1B1aii</b>	Surface mines	none	60	0	10	10	5	5	5	95
<b>1B1b</b>	Uncontrolled Combustion, and Burning Coal Dumps	N/A	100	0	0	0	0	0	0	100
<b>1B1c</b>	Solid Fuel Transformation									
<b>1B1c1</b>	Coke production processes	none	60	0	10	10	5	5	5	95
<b>1B1c2</b>	Charcoal production processes	none	60	0	10	10	5	5	5	95
<b>1B1c3</b>	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
<b>1B2</b>	<b>Oil and Natural Gas</b>									
<b>1B2a</b>	Oil	none	60	0	10	10	5	5	5	95
<b>1B2ai</b>	Venting	none	60	0	10	10	5	5	5	95
<b>1B2a ii</b>	Flaring	none	60	0	10	10	5	5	5	95
<b>1B2a iii</b>	All other	none	60	0	10	10	5	5	5	95
<b>1B2b</b>	Natural Gas	none	60	0	10	10	5	5	5	95
<b>1B2bi</b>	Venting	none	60	0	10	10	5	5	5	95
<b>1B2bii</b>	Flaring	none	60	0	10	10	5	5	5	95
<b>1B2biii</b>	All other	none	60	0	10	10	5	5	5	95
<b>1B3</b>	<b>Other Emissions from Energy Production</b>									
<b>1B3a</b>	Coal-to-liquids processes	none	60	0	10	10	5	5	5	95
<b>1B3b</b>	Gas-to-liquids processes	none	60	0	10	10	5	5	5	95

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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 %	Verrekenings toelae %	Maksimum totale toelae %
<b>1A4a</b>	Komersieel/ Institusioneel	10 MW(th)	60	0	0	10	5	5	10	90
<b>1A4b</b>	Residensieel	10 MW(th)	100	0	0	0	0	0	0	100
<b>1A4c</b>	Landbou/Bosbou/ Vissery/ Visplase	10 MW(th)	60	0	0	10	5	5	10	90
<b>1A5</b>	Nie-gespesifieer (Ingesluit hitte en elektrisiteit herwinning uit afval)									
<b>1A5a</b>	Stilstaande	10 MW(th)	60	0	0	10	5	5	10	90
<b>1A5b</b>	Mobiel	NVT	60	0	0	10	5	5	10	90
<b>1A5c</b>	Multilaterale bedrywighede	NVT	60	0	0	10	5	5	10	90
<b>1B</b>	Vlugtige vrystellings van brandstowwe									
<b>1B1</b>	Vaste brandstof									
<b>1B1a</b>	Steenkoolmynbou en hantering	Geen	60	0	10	10	5	5	5	95
<b>1B1ai</b>	Ondergrondse myne Ingesluit opvlammig van gedreinde metaan (Uitgesluit verlate myne)	geen	60	0	10	10	5	5	5	95
<b>1B1aII</b>	Oppervlakmyne	geen	60	0	10	10	5	5	5	95
<b>1B1b</b>	Onbeheerde onbranding, en brandende steenkoolhope	NA	100	0	0	0	0	0	0	100
<b>1B1c</b>	Vaste brandstof transformasie									
<b>1B1c1</b>	Kooks produksie-prosesse	geen	60	0	10	10	5	5	5	95
<b>1B1c2</b>	Steenkook produksie-prosesse	geen	60	0	10	10	5	5	5	95
<b>1B1c3</b>	Enige ander vaste brandstoftransformasie betrekende fossiel en organiese koolstofgebaseerde brandstowwe (bv. biobrandstofproduksie)	geen	60	0	10	10	5	5	5	95
<b>1B2</b>	Olie en Aardgas									
<b>1B2a</b>	Olie	geen	60	0	10	10	5	5	5	95
<b>1B2ai</b>	Ontvlugting	geen	60	0	10	10	5	5	5	95
<b>1B2aII</b>	Opvlammig	geen	60	0	10	10	5	5	5	95
<b>1B2aIII</b>	Alle ander	geen	60	0	10	10	5	5	5	95
<b>1B2b</b>	Aardgas	geen	60	0	10	10	5	5	5	95
<b>1B2bi</b>	Ontvlugting	geen	60	0	10	10	5	5	5	95
<b>1B2bII</b>	Opvlammig	geen	60	0	10	10	5	5	5	95
<b>1B2bIII</b>	Alle ander	geen	60	0	10	10	5	5	5	95
<b>1B3</b>	Ander vrystellings van energieproduksie									
<b>1B3a</b>	Steenkool-na-vloeistof prosesse	geen	60	0	10	10	5	5	5	95
<b>1B3b</b>	Gas-na-vloeistof prosesse	geen	60	0	10	10	5	5	5	95

## Act No. 15 of 2019

Carbon Tax Act, 2019

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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 %
<b>1B3c</b>	Gas-to-chemicals processes	none	60	0	10	10	5	5	5	95
<b>1C</b>	<b>Carbon Dioxide Transport and Storage</b>									
<b>1C1</b>	<b>Transport of CO<sub>2</sub></b>	none	60	0	10	10	5	5	5	95
<b>1C1a</b>	Pipelines	10 000 tons CO <sub>2</sub> /year	60	0	10	10	5	5	5	95
<b>1C1b</b>	Ships	10 000 tons CO <sub>2</sub> /year	60	0	10	10	5	5	5	95
<b>1C1c</b>	Other (please specify)	10 000 tons CO <sub>2</sub> /year	60	0	10	10	5	5	5	95
<b>1C2</b>	<b>Injection and Storage</b>									
<b>1C2a</b>	Injection	10 000 tons CO <sub>2</sub> /year	60	0	10	10	5	5	5	95
<b>1C2b</b>	Storage	10 000 tons CO <sub>2</sub> /year	60	0	10	10	5	5	5	95
<b>1C3</b>	Other	N/A	60	0	10	10	5	5	5	95
<b>2</b>	<b>INDUSTRIAL PROCESSES AND PRODUCT USE</b>									
<b>2A</b>	<b>Mineral Industry</b>									
<b>2A1</b>	Cement Production	none	0	70	0	10	5	5	5	95
<b>2A2</b>	Lime Production	none	0	70	0	10	5	5	5	95
<b>2A3</b>	Glass Production	none	0	70	0	10	5	5	5	95
<b>2A4</b>	<b>Other Process Uses of Carbonates</b>		0	70	0	10	5	5	5	95
<b>2A4a</b>	Ceramics	N/A	0	70	0	10	5	5	5	95
<b>2A4b</b>	Other Uses of Soda Ash	N/A	0	70	0	10	5	5	5	95
<b>2A4c</b>	Non Metallurgical Magnesia Production	none	0	70	0	10	5	5	5	95
<b>2A4d</b>	Other (please specify)	N/A	0	70	0	10	5	5	5	95
<b>2A5</b>	<b>Other (please specify)</b>	N/A	60	0	0	10	5	5	10	90
<b>2B</b>	<b>Chemical Industry</b>									
<b>2B1</b>	Ammonia Production	none	0	70	0	10	5	5	5	95
<b>2B2</b>	Nitric Acid Production	none	0	70	0	10	5	5	5	95
<b>2B3</b>	Adipic Acid Production	none	0	70	0	10	5	5	5	95
<b>2B4</b>	Caprolactam, Glyoxal and Glyoxylic Acid Production	none	0	70	0	10	5	5	5	95
<b>2B5</b>	Carbide Production	none	0	70	0	10	5	5	5	95
<b>2B6</b>	Titanium Dioxide Production	none	0	70	0	10	5	5	5	95
<b>2B7</b>	Soda Ash Production	none	0	70	0	10	5	5	5	95
<b>2B8</b>	<b>Petrochemical and Carbon Black Production</b>									
<b>2B8a</b>	Methanol	none	0	70	0	10	5	5	5	95
<b>2B8b</b>	Ethylene	none	0	70	0	10	5	5	5	95

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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 %	Verrekenings toelae %	Maksimum totale toelae %
<b>1B3c</b>	Gas-na-chemikalieë Prosesse	geen	60	0	10	10	5	5	5	95
<b>1C</b>	<b>Koolstofdioksied vervoer en beringing</b>									
<b>1C1</b>	<b>Vervoer van CO<sub>2</sub></b>	geen	60	0	10	10	5	5	5	95
<b>1C1a</b>	Pypeleidings	10 000 ton CO <sub>2</sub> /jaar	60	0	10	10	5	5	5	95
<b>1C1b</b>	Skepe	10 000 ton CO <sub>2</sub> /jaar	60	0	10	10	5	5	5	95
<b>1C1c</b>	Ander (spesifiseer asseblief)	10 000 ton CO <sub>2</sub> /jaar	60	0	10	10	5	5	5	95
<b>1C2</b>	<b>Insputing en beringing</b>									
<b>1C2a</b>	Insputing	10 000 ton CO <sub>2</sub> /jaar	60	0	10	10	5	5	5	95
<b>1C2b</b>	Beringing	10 000 ton CO <sub>2</sub> /jaar	60	0	10	10	5	5	5	95
<b>1C3</b>	<b>ANDER</b>	geen	60	0	10	10	5	5	5	95
<b>2</b>	<b>Industriële prosesse en produk gebruik</b>									
<b>2A</b>	<b>Minerale Nywerheid</b>									
<b>2A1</b>	Sementproduksie	geen	0	70	0	10	5	5	5	95
<b>2A2</b>	Kalkproduksie	geen	0	70	0	10	5	5	5	95
<b>2A3</b>	Glasproduksie	geen	0	70	0	10	5	5	5	95
<b>2A4</b>	Ander proses-gebruike van karbonate		60	0	0	10	5	5	10	90
<b>2A4a</b>	Keramiek	geen	60	0	0	10	5	5	10	90
<b>2A4b</b>	Ander gebruik van soda-as	geen	60	0	0	10	5	5	10	90
<b>2A4c</b>	Nie-metallurgiese magnesia-produksie	geen	60	0	0	10	5	5	10	90
<b>2A4d</b>	Ander (spesifiseer asseblief)	10 000 ton CO <sub>2</sub> /jaar	60	0	0	10	5	5	10	90
<b>2A5</b>	Ander (spesifiseer asseblief)	NA	60	0	0	10	5	5	10	90
<b>2B</b>	<b>Chemikalië nywerheid</b>									
<b>2B1</b>	Ammoniakproduksie	geen	0	70	0	10	5	5	5	95
<b>2B2</b>	Salpetersuur-produksie	geen	0	70	0	10	5	5	5	95
<b>2B3</b>	Adipic suurproduksie	geen	0	70	0	10	5	5	5	95
<b>2B4</b>	“Caprolactam”, “Glyoxal” en “Glyoxsilic Acid” -produksie	geen	0	70	0	10	5	5	5	95
<b>2B5</b>	Karbiedproduksie	geen	0	70	0	10	5	5	5	95
<b>2B6</b>	Titaandioksied-produksie	geen	0	70	0	10	5	5	5	95
<b>2B7</b>	Soda-asproduksie	geen	0	70	0	10	5	5	5	95
<b>2B8</b>	<b>Petrochemikalieë en koolswartproduksie</b>									
<b>2B8a</b>	Metanol	geen	0	70	0	10	5	5	5	95
<b>2B8b</b>	Etilene	geen	0	70	0	10	5	5	5	95

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

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<b>2B8c</b>	Etileendichloried en vinylchloried monomeer	geen	0	70	0	10	5	5	5	95
<b>2B8d</b>	Etileneoksiied	geen	0	70	0	10	5	5	5	95
<b>2B8e</b>	Akrilonitriel	geen	0	70	0	10	5	5	5	95
<b>2B8f</b>	Koolswart	geen	0	70	0	10	5	5	5	95
<b>2B8g</b>	Waterstofproduksie	geen	0	70	0	10	5	5	5	95
<b>2B9</b>	<b>Fluoro Chemikaliëé Produksie</b>									
<b>2B9a</b>	By-produkvrystellings	geen	0	70	0	10	5	5	5	95
<b>2B9b</b>	Vlugtige vrystellings	geen	0	70	0	10	5	5	5	95
<b>2B10</b>	Ander (Spesifiseer asseblief)	NVT	0	70	0	10	5	5	5	95
<b>2C</b>	<b>Metaalnywerheid</b>									
<b>2C1</b>	Yster- en staalproduksie	geen	0	70	0	10	5	5	5	95
<b>2C2</b>	Ysterlegeringproduksie	geen	0	70	0	10	5	5	5	95
<b>2C3</b>	Aluminiumproduksie	geen	0	60	0	10	5	5	10	90
<b>2C4</b>	Magnesiumproduksie	geen	0	60	0	10	5	5	10	90
<b>2C5</b>	Loodproduksie	geen	0	60	0	10	5	5	10	90
<b>2C6</b>	Sinkproduksie	geen	0	60	0	10	5	5	10	90
<b>2C7</b>	Ander (Spesifiseer asseblief)	-NVT	0	60	0	10	5	5	10	90
<b>2D</b>	<b>Nie-energie Produkte van gebruik van brandstowwe en oplosmiddels</b>									
<b>2D1</b>	Smeermiddelgebruik	NVT	0	60	0	10	5	5	10	90
<b>2D2</b>	Paraffienwasgebruik	NVT	0	60	0	10	5	5	10	90
<b>2D3</b>	Oplosmiddelgebruik	NVT	0	60	0	10	5	5	10	90
<b>2D4</b>	Ander (spesifiseer asseblief)	NVT	0	60	0	10	5	5	10	90
<b>2E</b>	<b>Elektroniese nywerheid</b>									
<b>2E.1</b>	Geïntegreerde geleier-verbinding of halfgeleier	NVT	0	60	0	10	5	5	10	90
<b>2E.2</b>	“TFT” Plat paneelskerm	NVT	0	60	0	10	5	5	10	90
<b>2E.3</b>	Fotovoltaïes	NVT	0	60	0	10	5	5	10	90
<b>2E.4</b>	Hitte-oordrag vloeistof	NVT	0	60	0	10	5	5	10	90
<b>2E.5</b>	Ander (spesifiseer asseblief)	NVT	0	60	0	10	5	5	10	90
<b>2F</b>	<b>Produk gebruike as vervangings vir osoon-afbrekende stowwe</b>									
<b>2F1</b>	Verkoeling en lugversorging									
<b>2F1a</b>	Verkoeling en stilstaande lugversorging	NVT	0	60	0	10	5	5	10	90
<b>2F1b</b>	Beweeglike lugversorging	NVT	0	60	0	10	5	5	10	90
<b>2F2</b>	Skuimblasende middele	NVT	0	60	0	10	5	5	10	90

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<b>2F3</b>	Fire Protection	N/A	0	60	0	10	5	5	10	90
<b>2F4</b>	Aerosols	N/A	0	60	0	10	5	5	10	90
<b>2F5</b>	Solvents	N/A	0	60	0	10	5	5	10	90
<b>2F6</b>	Other Applications (please specify)	N/A	0	60	0	10	5	5	10	90
<b>2G</b>	Other Product Manufacture and Use									
<b>2G1</b>	Electrical Equipment									
<b>2G1a</b>	Manufacture of Electrical Equipment	N/A	0	60	0	10	5	5	10	90
<b>2G1b</b>	Use of Electrical Equipment	N/A	0	60	0	10	5	5	10	90
<b>2G1c</b>	Disposal of Electrical Equipment		0	60	0	10	5	5	10	90
<b>2G2</b>	SF <sub>6</sub> and PFCs from Other Product Uses	N/A								
<b>2G2a</b>	Military Applications	N/A	0	60	0	10	5	5	10	90
<b>2G2b</b>	Accelerators	N/A	0	60	0	10	5	5	10	90
<b>2G2c</b>	Other (please specify)	N/A	0	60	0	10	5	5	10	90
<b>2G3</b>	N <sub>2</sub> O from Product Uses	N/A								
<b>2G3a</b>	Medical Applications	N/A	0	60	0	10	5	5	10	90
<b>2G3b</b>	Propellant for Pressure and Aerosol Products	N/A	0	60	0	10	5	5	10	90
<b>2G3c</b>	Other (Please specify)	N/A	0	60	0	10	5	5	10	90
<b>2G4</b>	Other (Please specify)	N/A	0	60	0	10	5	5	10	90
<b>2H</b>	Other									
<b>2H1</b>	Pulp and Paper Industry	N/A	0	60	0	10	5	5	10	90
<b>2H2</b>	Food and Beverages Industry	N/A	0	60	0	10	5	5	10	90
<b>2H3</b>	Other (please specify)	N/A	0	60	0	10	5	5	10	90
<b>3</b>	AGRICULTURE, FORESTRY, AND OTHER LAND USE									
<b>3A</b>	Livestock									
<b>3A1</b>	Enteric Fermentation									
<b>3A1a</b>	Cattle	N/A	100	0	0	0	0	0	0	100
<b>3A1b</b>	Buffalo	N/A	100	0	0	0	0	0	0	100
<b>3A1c</b>	Sheep	N/A	100	0	0	0	0	0	0	100
<b>3A1d</b>	Goats	N/A	100	0	0	0	0	0	0	100
<b>3A1e</b>	Camels	N/A	100	0	0	0	0	0	0	100
<b>3A1f</b>	Horses	N/A	100	0	0	0	0	0	0	100
<b>3A1g</b>	Mules and Asses	N/A	100	0	0	0	0	0	0	100
<b>3A1h</b>	Swine	N/A	100	0	0	0	0	0	0	100
<b>3A1j</b>	Other (please specify)	N/A	100	0	0	0	0	0	0	100
<b>3A2</b>	Manure Management									
<b>3A2a</b>	Cattle	N/A	100	0	0	0	0	0	0	100

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<b>2F3</b>	Brandbeveiliging	NVT	0	60	0	10	5	5	10	90
<b>2F4</b>	Aerosols	NVT	0	60	0	10	5	5	10	90
<b>2F5</b>	Oplosmiddels	NVT	0	60	0	10	5	5	10	90
<b>2F6</b>	Ander toepassings (spesifiseer asseblief)	NVT	0	60	0	10	5	5	10	90
<b>2G</b>	Ander produk-vervaardiging en gebruik									
<b>2G1</b>	Elektriese toerusting									
<b>2G1a</b>	Vervaardiging van elektriese toerusting	NVT	0	60	0	10	5	5	10	90
<b>2G1b</b>	Gebruik van elektriese toerusting	NVT	0	60	0	10	5	5	10	90
<b>2G1c</b>	Beskikking oor elektriese toerusting		0	60	0	10	5	5	10	90
<b>2G2</b>	SF6 EN "PFCs" van ander produkgebruike	NVT								
<b>2G2a</b>	Militêre toepassings	NVT	0	60	0	10	5	5	10	90
<b>2G2b</b>	Versnellers	NVT	0	60	0	10	5	5	10	90
<b>2G2c</b>	Ander (spesifiseer asseblief)	NVT	0	60	0	10	5	5	10	90
<b>2G3</b>	N <sub>2</sub> O van produkgebruike	NVT								
<b>2G3a</b>	Medisinale toepassings	NVT	0	60	0	10	5	5	10	90
<b>2G3b</b>	Stumiddel vir druk en aerosolprodukte	NVT	0	60	0	10	5	5	10	90
<b>2G3c</b>	Ander (spesifiseer asseblief)	NVT	0	60	0	10	5	5	10	90
<b>2G4</b>	Ander (spesifiseer asseblief)	NVT	0	60	0	10	5	5	10	90
<b>2H</b>	ANDER									
<b>2H1</b>	Pulp- en papiernywerheid	NVT	0	60	0	10	5	5	10	90
<b>2H2</b>	Voedsel- en dranknywerheid	NVT	0	60	0	10	5	5	10	90
<b>2H3</b>	ANDER (spesifiseer asseblief)	NVT	0	60	0	10	5	5	10	90
<b>3</b>	Landbou, bosbou, en ander grondgebruik									
<b>3A</b>	Lewende hawe									
<b>3A1</b>	Ingewandsgisting									
<b>3A1a</b>	Vee	NVT	100	0	0	0	0	0	0	100
<b>3A1b</b>	Buffels	NVT	100	0	0	0	0	0	0	100
<b>3A1c</b>	Skape	NVT	100	0	0	0	0	0	0	100
<b>3A1d</b>	Bokke	NVT	100	0	0	0	0	0	0	100
<b>3A1e</b>	Kamele	NVT	100	0	0	0	0	0	0	100
<b>3A1f</b>	Perde	NVT	100	0	0	0	0	0	0	100
<b>3A1g</b>	Muile en esels	NVT	100	0	0	0	0	0	0	100
<b>3A1h</b>	Swyne	NVT	100	0	0	0	0	0	0	100
<b>3A1j</b>	Ander (spesifiseer asseblief)	NVT	100	0	0	0	0	0	0	100
<b>3A2</b>	Messtofbestuur									
<b>3A2a</b>	Vee	NVT	100	0	0	0	0	0	0	100

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<b>3A2b</b>	Buffalo	N/A	100	0	0	0	0	0	0	100
<b>3A2c</b>	Sheep	N/A	100	0	0	0	0	0	0	100
<b>3A2d</b>	Goats	N/A	100	0	0	0	0	0	0	100
<b>3A2e</b>	Camels	N/A	100	0	0	0	0	0	0	100
<b>3A2f</b>	Horses	N/A	100	0	0	0	0	0	0	100
<b>3A2g</b>	Mules and Asses	N/A	100	0	0	0	0	0	0	100
<b>3A2h</b>	Swine	N/A	100	0	0	0	0	0	0	100
<b>3A2i</b>	Poultry	N/A	100	0	0	0	0	0	0	100
<b>3A2j</b>	Other (please specify)	N/A	100	0	0	0	0	0	0	100
<b>3B</b>	<b>Land</b>									
<b>3B1</b>	<b>Forest Land</b>									
<b>3B1a</b>	Forest land Remaining Forest Land	100 Hectares of Plantations or Natural forests	100	0	0	0	0	0	0	100
<b>3B1b</b>	Land Converted to Forest Land	100 Hectares of Plantations or Natural forests	100	0	0	0	0	0	0	100
<b>3B2</b>	<b>Cropland</b>									
<b>3B2a</b>	Cropland Remaining Cropland	N/A	100	0	0	0	0	0	0	100
<b>3B2b</b>	Land Converted to Cropland	N/A	100	0	0	0	0	0	0	100
<b>3B3</b>	<b>Grassland</b>									
<b>3B3a</b>	Grassland Remaining Grassland	N/A	100	0	0	0	0	0	0	100
<b>3B3b</b>	Land Converted to Grassland	N/A	100	0	0	0	0	0	0	100
<b>3B4</b>	<b>Wetlands</b>									
<b>3B4a</b>	Wetlands Remaining Wetlands	N/A	100	0	0	0	0	0	0	100
<b>3B4b</b>	Land Converted to Wetlands	N/A	100	0	0	0	0	0	0	100
<b>3B5</b>	<b>Settlements</b>									
<b>3B5a</b>	Settlements Remaining Settlements	N/A	100	0	0	0	0	0	0	100
<b>3B5b</b>	Land Converted to Settlements	N/A	100	0	0	0	0	0	0	100
<b>3B6</b>	<b>Other Land</b>									
<b>3B6a</b>	Other Land Remaining Other Land	N/A	100	0	0	0	0	0	0	100
<b>3B6b</b>	Land Converted to Other Land	N/A	100	0	0	0	0	0	0	100
<b>3C</b>	<b>Aggregate Sources and Non-CO<sub>2</sub> Emissions Sources on Land</b>									
<b>3C1</b>	<b>Emissions from Biomass Burning</b>									
<b>3C1a</b>	Biomass Burning in Forest Lands	N/A	100	0	0	0	0	0	0	100
<b>3C1b</b>	Biomass Burning in Croplands	N/A	100	0	0	0	0	0	0	100

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<b>3A2b</b>	Buffels	NVT	100	0	0	0	0	0	0	100
<b>3A2c</b>	Skape	NVT	100	0	0	0	0	0	0	100
<b>3A2d</b>	Bokke	NVT	100	0	0	0	0	0	0	100
<b>3A2e</b>	Kamele	NVT	100	0	0	0	0	0	0	100
<b>3A2f</b>	Perde	NVT	100	0	0	0	0	0	0	100
<b>3A2g</b>	Muile en esels	NVT	100	0	0	0	0	0	0	100
<b>3A2h</b>	Swyne	NVT	100	0	0	0	0	0	0	100
<b>3A2i</b>	Pluimvee	NVT	100	0	0	0	0	0	0	100
<b>3A2j</b>	Ander (spesifiseer asseblief)	NVT	100	0	0	0	0	0	0	100
<b>3B</b>	<b>Land</b>									
<b>3B1</b>	<b>Woudland</b>									
<b>3B1a</b>	Woudland Blywende woudland	100 Hektaar van plantasies of natuurlike woude	100	0	0	0	0	0	0	100
<b>3B1b</b>	Land omgeskakel in woudland	100 Hektaar van plantasies of natuurlike woude	100	0	0	0	0	0	0	100
<b>3B2</b>	<b>Gewasland</b>									
<b>3B2a</b>	Gewasland blywende gewasland	NVT	100	0	0	0	0	0	0	100
<b>3B2b</b>	Land omgeskakel na gewasland	NVT	100	0	0	0	0	0	0	100
<b>3B3</b>	<b>Grasland</b>									
<b>3B3a</b>	Grasland blywende grasland	NVT	100	0	0	0	0	0	0	100
<b>3B3b</b>	Land omgeskakel na grasland	NVT	100	0	0	0	0	0	0	100
<b>3B4</b>	<b>Moerasland</b>									
<b>3B4a</b>	Moerasland blywende moerasland	NVT	100	0	0	0	0	0	0	100
<b>3B4b</b>	Land omgeskakel na moerasland	NVT	100	0	0	0	0	0	0	100
<b>3B5</b>	<b>Nedersettings</b>									
<b>3B5a</b>	Nedersettings blywende nedersettings	NVT	100	0	0	0	0	0	0	100
<b>3B5b</b>	Land omgeskakel na nedersettings	NVT	100	0	0	0	0	0	0	100
<b>3B6</b>	<b>ANDER Land</b>									
<b>3B6a</b>	Ander land blywende ander land	NVT	100	0	0	0	0	0	0	100
<b>3B6b</b>	Land omgeskakel na ander land	NVT	100	0	0	0	0	0	0	100
<b>3C</b>	<b>Totale nie-CO<sub>2</sub>-vrystellingsbronre op land</b>									
<b>3C1</b>	<b>Vrystellings van biomassaverbranding</b>									
<b>3C1a</b>	Biomassaverbranding in woudland	NVT	100	0	0	0	0	0	0	100
<b>3C1b</b>	Biomassaverbranding in gewasland	NVT	100	0	0	0	0	0	0	100

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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 %
<b>3C1c</b>	Biomass Burning in Grasslands	N/A	100	0	0	0	0	0	0	100
<b>3C1d</b>	Biomass Burning in All Other Land	N/A	100	0	0	0	0	0	0	100
<b>3C2</b>	Liming	N/A	100	0	0	0	0	0	0	100
<b>3C3</b>	Urea Application	N/A	100	0	0	0	0	0	0	100
<b>3C4</b>	Direct N <sub>2</sub> O Emissions from Managed Soils	N/A	100	0	0	0	0	0	0	100
<b>3C5</b>	Indirect N <sub>2</sub> O Emissions from Managed Soils	N/A	100	0	0	0	0	0	0	100
<b>3C6</b>	Indirect N <sub>2</sub> O Emissions from Manure Management	N/A	100	0	0	0	0	0	0	100
<b>3C7</b>	Rice Cultivations	N/A	100	0	0	0	0	0	0	100
<b>3C8</b>	Other (please specify)	N/A	100	0	0	0	0	0	0	100
<b>3D</b>	<b>Other</b>									
<b>3D1</b>	Harvested Wood Products	N/A	100	0	0	0	0	0	0	100
<b>3D2</b>	Other (please specify)	N/A	100	0	0	0	0	0	0	100
<b>4</b>	<b>WASTE</b>									
<b>4A</b>	<b>Solid Waste Disposal</b>									
<b>4A1</b>	Managed Waste Disposal Sites	Receiving 5 tonnes per day or a total capacity of 25000 tonnes	100	0	0	0	0	0	0	100
<b>4A2</b>	Unmanaged Waste Disposal Sites	Receiving 5 tonnes per day or a total capacity of 25000 tonnes	100	0	0	0	0	0	0	100
<b>4A3</b>	Uncategorised Waste Disposal Sites	Receiving 5 tonnes per day or a total capacity of 25000 tonnes	100	0	0	0	0	0	0	100
<b>4B</b>	<b>Biological Treatment of Solid Waste</b>	N/A	100	0	0	0	0	0	0	100
<b>4C</b>	<b>Incineration and Open Burning of Waste</b>									
<b>4C0</b>	Waste — Pyrolysis	100 kg/hour	100	0	0	0	0	0	0	100
<b>4C1</b>	Waste Incineration	1 tonne per hour	60	0	0	10	5	5	10	90
<b>4C2</b>	Open Burning of Waste	N/A	100	0	0	0	0	0	0	100
<b>4D</b>	<b>Wastewater Treatment and Discharge</b>									
<b>4D1</b>	Domestic Wastewater Treatment and Discharge	2 Million litres/day	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 %	Verrekenings toelae %	Maksimum totale toelae %
<b>3C1c</b>	Biomassaverbranding in grasland	NVT	100	0	0	0	0	0	0	100
<b>3C1d</b>	Biomassaverbranding in alle ander lande	NVT	100	0	0	0	0	0	0	100
<b>3C2</b>	Kalking	NVT	100	0	0	0	0	0	0	100
<b>3C3</b>	Urea aanwending	NVT	100	0	0	0	0	0	0	100
<b>3C4</b>	Direkte N <sub>2</sub> O-vrystellings van bestuurde grond	NVT	100	0	0	0	0	0	0	100
<b>3C5</b>	Indirekte N <sub>2</sub> O-vrystellings van bestuurde grond	NVT	100	0	0	0	0	0	0	100
<b>3C6</b>	Indirekte N <sub>2</sub> O-vrystellings van messtof bestuur	NVT	100	0	0	0	0	0	0	100
<b>3C7</b>	Rysaanplantings	NVT	100	0	0	0	0	0	0	100
<b>3C8</b>	Ander (spesifiseer asseblief)	NVT	100	0	0	0	0	0	0	100
<b>3D</b>	<b>Ander</b>									
<b>3D1</b>	Geoesde houtprodukte	NVT	100	0	0	0	0	0	0	100
<b>3D2</b>	Ander (spesifiseer asseblief)	NVT	100	0	0	0	0	0	0	100
<b>4</b>	<b>Afval</b>									
<b>4A</b>	<b>Vastestof afval beskikking</b>									
<b>4A1</b>	Bestuurde afvalbeskikkings-terreine	Ontvangende 5 ton per dag of 'n totale kapasiteit van 25000 ton	100	0	0	0	0	0	0	100
<b>4A2</b>	Onbestuurde afvalbeskikkings-terreine	Ontvangende 5 ton per dag of 'n totale kapasiteit van 25000 ton	100	0	0	0	0	0	0	100
<b>4A3</b>	Ongekategoriseerde afvalbeskikkings-terreine	Ontvangende 5 ton per dag of 'n totale kapasiteit van 25000 ton	100	0	0	0	0	0	0	100
<b>4B</b>	<b>Biologiese behandeling van vastestof afval</b>	NVT	100	0	0	0	0	0	0	100
<b>4C</b>	<b>Verassing en ope verbranding van afval</b>									
<b>4C0</b>	Afval — pirolise	100 kg/uur	100	0	0	0	0	0	0	100
<b>4C1</b>	Afval verassing	1 TON per uur	60	0	0	10	5	5	10	90
<b>4C2</b>	Ope verbranding van afval	NVT	100	0	0	0	0	0	0	100
<b>4D</b>	<b>Afvalwater behandeling en uitstorting</b>									
<b>4D1</b>	Huishoudelike afvalwaterbehandeling en uitstorting	2 Miljoen liters/dag	100	0	0	0	0	0	0	100

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Carbon Tax Act, 2019

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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 %
<b>4D2</b>	Industrial Wastewater Treatment and Discharge	1000 cubic metres per day	100	0	0	0	0	0	0	100
<b>4E</b>	Other (please specify)	N/A								
<b>5</b>	<b>OTHER</b>									
<b>5A</b>	Indirect N <sub>2</sub> O Emissions from the Atmospheric Deposition of Nitrogen in NO <sub>x</sub> and NH <sub>3</sub>	N/A	60	0	0	10	5	5	10	90
<b>5B</b>	Other (please specify)	N/A	60	0	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-blootstellings toelae %	Verrigting toelae %	Koolstofbegroting toelae %	Verrekenings toelae %	Maksimum totale toelae %
<b>4D2</b>	Nywerheid afvalwaterbehandeling en uitstorting	1000 kubieke meter per dag	100	0	0	0	0	0	0	100
<b>4E</b>	<b>Ander (spesifieer asseblief)</b>	NVT								
<b>5</b>	<b>Ander</b>									
<b>5A</b>	Indirekte N <sub>2</sub> O-vrystellings van die atmosferiese afsetting van stikstof in NOX en NH <sub>3</sub>	NVT	60	0	0	10	5	5	10	90
<b>5B</b>	<b>Ander (spesifieer asseblief)</b>	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 verordeningen 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".





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