

# Certificate

MPS-ECAS awards this certificate in accordance with the certification scheme MPS ABC version 15 080217, to:

**Gartneriet Brylle ApS  
Kirstinebjergvej 33  
5792 ÅRSLEV  
Denmark  
MPS-number: 802863**

Applicable to environmental clusters:  
POT PLANTS 2; POTPLANTS outdoors

Validity: **18-5-2020 until 9-8-2020**  
Total points: **89,3**  
Qualification: **A**

Kind regards,  
MPS-ECAS

Signature:

Date of issue:  
3-7-2020



Ing. C. Maas

*N.B.: This certificate is only valid for the period specified above.*

**MPS-ECAS**  
Certification



# QUALIFICATION AND PERIOD GRAPHS

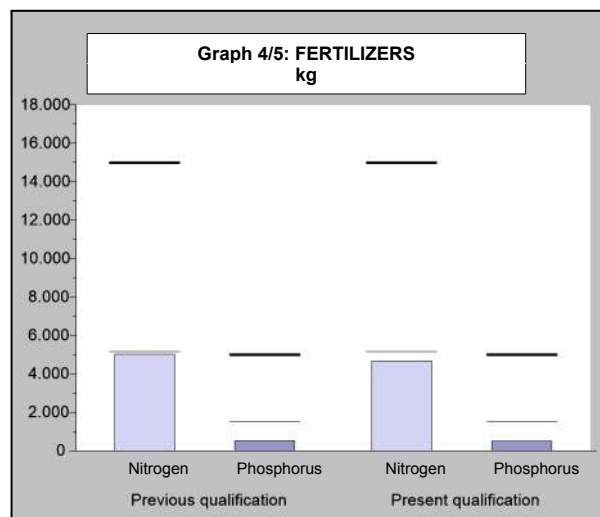
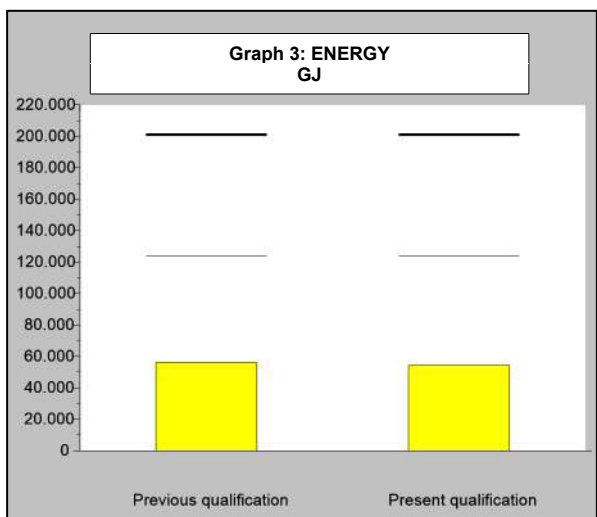
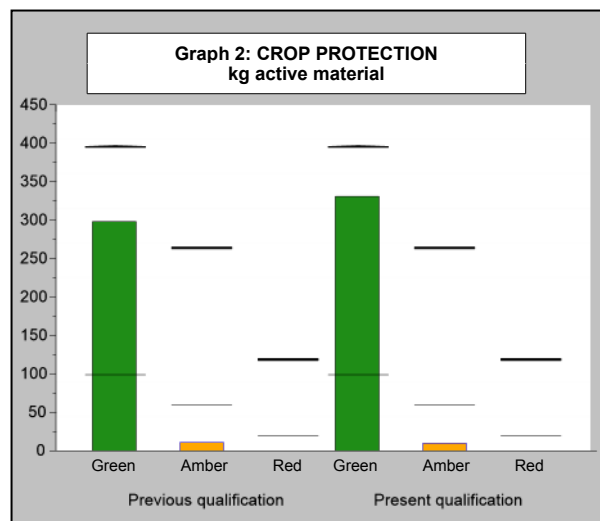
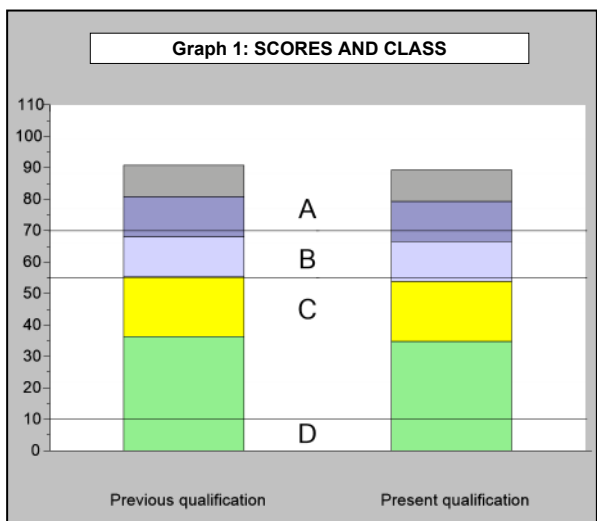
MPS company number: **802863/01**  
 Company name: Gartneriet Brylle ApS (total)

Valid: Period 5-2019 until Period 4-2020  
 Version: 3-7-2020

**Table 1: DATA QUALIFICATIONS**

SUBJECT		Uw Company standard	Uw use	Uw points	max. points	A+ standard	A+ score	Obtained
		Lower- Upper limit						
Crop protection	Green	99-396 kg	331	<b>3</b>	13,6			
	Amber	59,4-264 kg	9,8	<b>18,2</b>	18,2			
	Red	19,8-118,8 kg	0	<b>13,6</b>	13,6			
total				<b>34,8</b>	45,5	85 %	76,5 %	no
Energy total		123963,8-201112,7 GJ	54323	<b>19</b>	19	75 %	100 %	yes
Fertilizers	Nitrogen	5165,4-14997 kg	4676,8	<b>12,7</b>	12,7			
	Phosphorus	1533,1-4999,2 kg	507,7	<b>12,7</b>	12,7			
total				<b>25,5</b>	25,5	75 %	100 %	yes
Waste		0-130	130	<b>10</b>	10			
Water								
Certified parental material				<b>0</b>	10			
Total score (points)				<b>89,3</b>	110	90	89,3	no
COMPANY QUALIFICATION				<b>A</b>				

**COMPANY USAGE PER 13 PERIODS**  
 <-----> = Upper limit <.....> = Lower limit

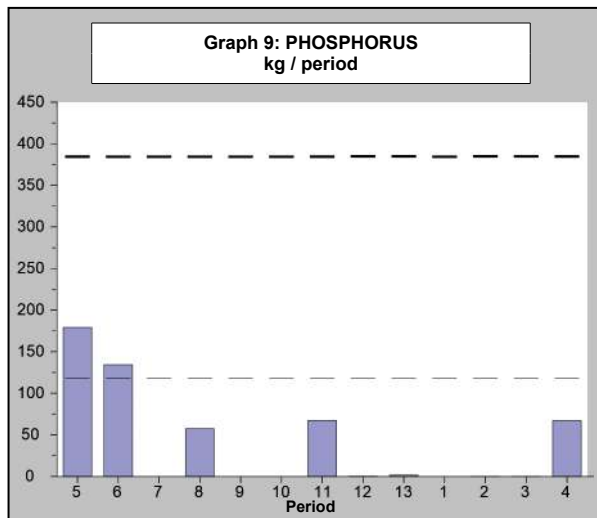
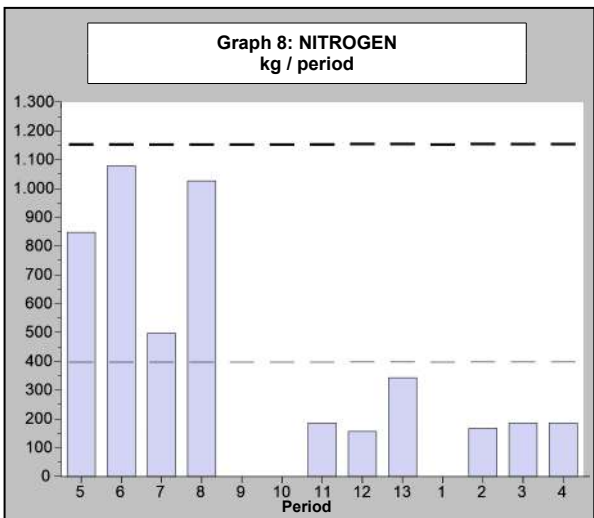
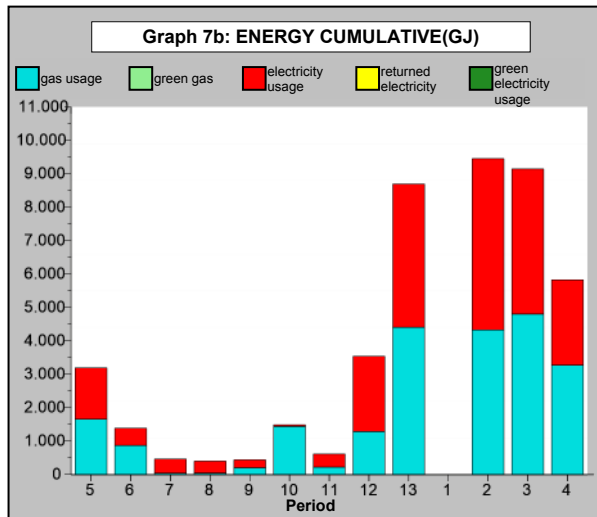
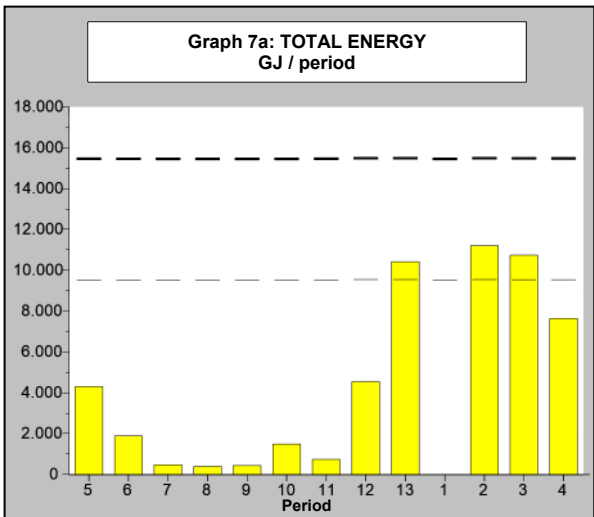
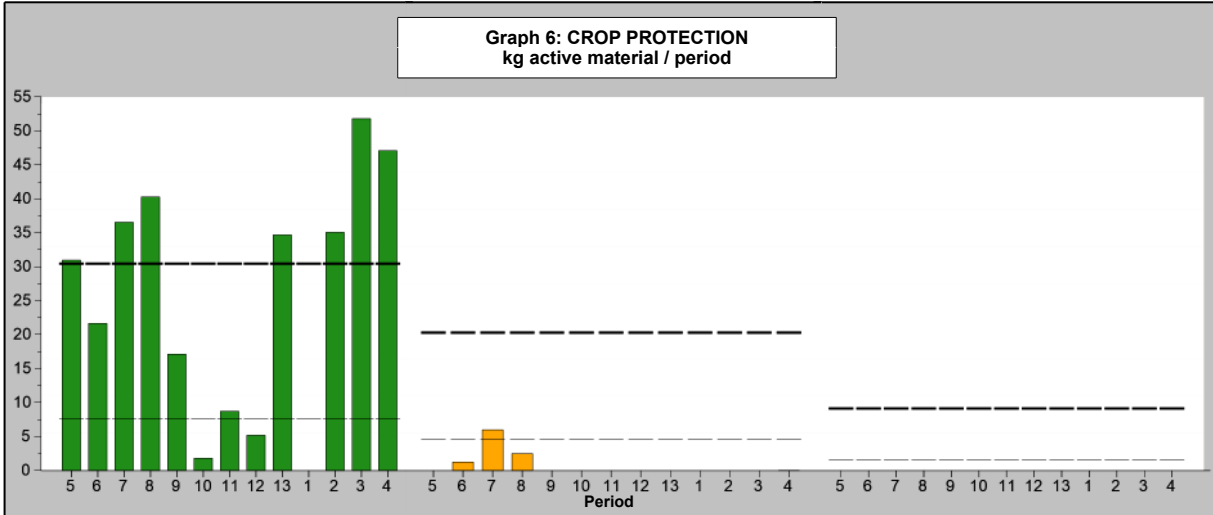


# QUALIFICATION AND PERIOD GRAPHS

MPS company number: **802863/01**  
 Company name: Gartneriet Brylle ApS (total)

Valid: Period 5-2019 until Period 4-2020  
 Version: 3-7-2020

<-----> = Upperlimit <-----> = Lowerlimit



# MPS-Overview Composition of Qualification

MPS company number: **802863/01**  
 Company name: Gartneriet Brylle ApS (total)

Valid: Period 5-2019 until Period 4-2020  
 Version: 3-7-2020

## Composition of company standards MPS-OEX (Area Efficiency index)

THEMA		Basic standard		% OEX	Companystandard	
		lower-limit	upper-limit		lower-limit	upper-limit
Crop protection	Green				99-396 kg	331 kg
	Amber				59,4-264 kg	9,8 kg
	Red				19,8-118,8 kg	
Energy		122080-198300 GJ		1,4 %	123963,8-201112,7 GJ	54323 GJ
Nitrogen (N)		5100-14840 kg		1,1 %	5165,4-14997 kg	4676,8 kg
Phosphorus (P)		1520-4960 kg		0,8 %	1533,1-4999,2 kg	507,7 kg

## Composition of points MPS environmentally certified parental material

Certified parental material	(Average) area	Your Points	Max points
Total cultivated area 1)	182000 m2		
Area certified parental material MPS-ABC	0 m2	0	10
Area certified parental material GLOBALGAP	0 m2	0	5
Total points for Certified parental material		0	10

1) Total means: the total area covered and uncovered cultivation and the second crop layer. Not included is the uncultivated area.

## Overview Environmental zones

Period	5	6	7	8	9	10	11	12	13	1	2	3	4
Environmental	Zone 2	Zone 2	Zone 2	Zone 2	Zone 2	Zone 2	Zone 2	Zone 2	Zone 2	Zone 2	Zone 2	Zone 2	Zone 2

## Company usage of MPS-MIND

Pesticide	Indicator color	active ingredient	Annual company use of active substance		
			Green	Amber	Red
Alar 85 SG	●	daminozide	318,750		
Antialgin 10	○	ammonium salts			
Candit	●	kresoxim-methyl	2,700		
Conserve	●	spinosad	3,240		
Ferramol Sneglemiddel	●	ferric phosphate	0,450		
Ferrox Sneglemiddel	●	ferric phosphate	0,900		
Floramite	●	bifenazate	1,740		
Kibril Bladglans	○	leaf shine			
Menno Florades	●	benzoic acid	1,800		
Movento SC 100	●	spirotetramat	1,400		
Per aqua	○	hydrogen peroxide			
	○	peroxyacetic acid			
Roundup Bio (48-16)	●	glyphosate		6,000	
SiiTAC SF	○	wetting/sticker agents other			
Tilt 250 EC	●	propiconazole		3,750	
Vertimec	●	abamectin		0,036	
<b>Annual company use of active substance</b>			<b>330,980</b>	<b>9,786</b>	

# OVERVIEW RECORDED DATA

MPS company number: **802863/01**

Company name: **Gartneriet Brylle ApS (total)**

Valid: Period 5-2019 until Period 4-2020

Version: 3-7-2020

Code	Description	Unit	Period 11	Period 12	Period 13	Period 1	Period 2	Period 3	Period 4	Subtotal	Year total
<b>FORM RECEIVED</b>			yes	yes	yes	yes	yes	yes	yes		
<b>CROP PROTECTION AGENTS</b>											
3023	Alar 85 SG	gram	10000	5000	40000		40000	60000	55000	210000	375000
3291	Antialgin 10	gram									25000
3142	Candit	gram		1200	600					1800	5400
3205	Conserve	ml	1000	2000	2000			2000	2000	9000	27000
3374	Duxon BD 40 -Zence 40	ml									20000
3209	Ferramol Sneglemiddel	gram									45000
3327	Ferrox Sneglemiddel	gram					30000			30000	30000
3279	Floramite	ml	500		250		250	1500		2500	7250
3313	Kibril Bladglans	ml		3000						3000	3000
3153	Menno Florades	ml									20000
3315	Movento SC 100	ml		1000	1000		1000	2000	1000	6000	14000
3307	Per aqua	ml							132000	132000	132000
3044	Roundup Bio (48-16)	ml									20000
3834	SilTAC SF	ml									5000
3152	Tilt 250 EC	ml									15000
3251	Vertimec	ml							2000	2000	2000
<b>WATER</b>											
21	Total irrigation	m3	488	1831	1652		2586	1828	4421	12806	72887
<b>ENERGY</b>											
1	Gas consumption	m3	6321	36693	125668		123284	136846	93256	522068	643510
2	Conversion factor		1	1	1	1	1	1	1		
3	Caloric value		1	1	1	1	1	1	1		
4	Electricity usage (Total)	kWh	71512	409229	779165		931677	789885	464509	3445977	4011624
7	Residual heat usage	GJ	151	1163	1987		2020	1832	2088	9241	11117
<b>LIGHTING</b>											
550023	HP-Na 600W 400V EVSA	Hour	2	10	10		10	8	7		
		Number	3024	3024	3024		3024	3024	3024		
		kWatt									
<b>FERTILIZERS</b>											
513	Ammonium nitrate	kg									1250
519	Calcium chloride 80%/85%	kg		25				25		50	50

# OVERVIEW RECORDED DATA (Continued)

MPS company number: **802863/01**

Company name: **Gartneriet Brylle ApS (total)**

Valid: Period 5-2019 until Period 4-2020

Version: 3-7-2020

Code	Description	Unit	Period 11	Period 12	Period 13	Period 1	Period 2	Period 3	Period 4	Subtotal	Year total
<b>FERTILIZERS (Continued)</b>											
545	Calcium nitrate (nitrate o	kg			1200			1200		2400	11331
994	Control (Growdesign)	litre	40	15	75		40	75	30	275	275
638	Kalk	kg									3042,4
980	Loker L 2+8+6+3.3MgO	litre		5	30					35	40
516	Magnesium sulphate	kg							2400	2400	3600
575	Manganese sulphate	kg	1200							1200	2400
666	Micromax	kg									76,8
580	Mono-ammonium phosphate	kg	250						250	500	1000
581	Mono-potassium phosphate	kg									250
420	NPK 12+6+20	kg									1539,5
537	Potassium nitrate (13+0+45)	kg	1200	1200	1200		1200		1200	6000	16800
977	Rexolin D12	kg	40		95		40	60	40	275	1095
586	Sulphate of potash and magnesium	kg			25		50	25		100	100
415	Sulphuric Acid 96%	litre							2000	2000	8000
596	Superphosphate	kg									998,4
603	Urea	kg					25			25	25

## ENVIRONMENTAL CLUSTERS

Indoor crops											
4062	POT PLANTS 2	m2	82000	82000	82000	82000	82000	82000	82000	82000	82000
	Subtotal		82000	82000	82000	82000	82000	82000	82000	82000	82000
Outdoor crops											
4044	POTPLANTS outdoors	m2	100000	100000	100000	100000	100000	100000	100000	100000	100000
	Subtotal		100000	100000	100000	100000	100000	100000	100000	100000	100000

## GENERAL INFORMATION FORM

### MPS-Mind

#### Surface water

3900 What is the minimum distance of these fields to the nearest surface water?

250 - 2500 metres / 820 - 8200 feet

#### Cover

3910 Does the surface of covered crops exceed 95% of this location?

Yes

## OVERVIEW RECORDED DATA (Continued)

MPS company number: **802863/01**

Company name: Gartneriet Brylle ApS (total)

Valid: Period 5-2019 until Period 4-2020

Version: 3-7-2020

### GENERAL INFORMATION FORM

#### MPS-Mind

##### Slope

3902 What is the maximum slope of a field on this location? flat

##### Leaching to groundwater

3903 Do you grow more than 95% of your crops in a closed (recirculation) system, achieving less than 3% loss of drainwater? Yes

#### MPS-OEX

##### Topscreens:

3952 If yes, what is the percentage of light-reduction? 95% or more

##### CO2

3953 Do you apply CO2? No

##### Substrate

3957 Do you cultivate cutflowers on substrate? No

##### Diffuse light

3961 Do you have diffuse glass on your greenhouse? No

3963 Do you have diffuse foil on your foil-greenhouse? Yes

3964 If yes, on what percentage of your greenhouse area? 15

3965 Do you have a diffuse screens in your greenhouse? No

3967 Do you use a diffuse coating on your greenhouse? No

#### Waste management

41 Do you process organic waste in a responsible way? Yes

42 Do you process paper waste in a responsible way? Yes

43 Do you process plastic waste in a responsible way? Yes

# OVERVIEW RECORDED DATA

MPS company number: **802863/01**

Company name: **Gartneriet Brylle ApS (total)**

Valid: Period 5-2019 until Period 4-2020

Version: 3-7-2020

Code	Description	Unit	Period 5	Period 6	Period 7	Period 8	Period 9	Period 10	Subtotal
<b>FORM RECEIVED</b>			yes	yes	yes	yes	yes	yes	
<b>CROP PROTECTION AGENTS</b>									
3023	Alar 85 SG	gram	35000	25000	40000	45000	20000		165000
3291	Antialgin 10	gram				25000			25000
3142	Candit	gram			3600				3600
3205	Conserve	ml	3000	3000	5000	6000	1000		18000
3374	Duxon BD 40 -Zence 40	ml		20000					20000
3209	Ferramol Sneglemiddel	gram				45000			45000
3327	Ferrox Sneglemiddel	gram							
3279	Floramite	ml	1500	250	250	2750			4750
3313	Kibril Bladglans	ml							
3153	Menno Florades	ml						20000	20000
3315	Movento SC 100	ml	5000		1000	2000			8000
3307	Per aqua	ml							
3044	Roundup Bio (48-16)	ml			20000				20000
3834	SilTAC SF	ml	2000	3000					5000
3152	Tilt 250 EC	ml		5000		10000			15000
3251	Vertimec	ml							
<b>WATER</b>									
21	Total irrigation	m3	4823	13136	12823	19322	7803	2174	60081
<b>ENERGY</b>									
1	Gas consumption	m3	47235	24871	1182	1314	5866	40974	121442
2	Conversion factor		1	1	1	1	1	1	
3	Caloric value		1	1	1	1	1	1	
4	Electricity usage (Total)	kWh	279157	93419	76910	64354	42462	9345	565647
7	Residual heat usage	GJ	1282	583	11				1876
<b>LIGHTING</b>									
550023	HP-Na 600W 400V EVSA	Hour	2	1					
		Number	3024	3024					
		kWatt							
<b>FERTILIZERS</b>									
513	Ammonium nitrate	kg		1250					1250
519	Calcium chloride 80%/85%	kg							



# OVERVIEW RECORDED DATA (Continued)

MPS company number: **802863/01**

Company name: **Gartneriet Brylle ApS (total)**

Valid: Period 5-2019 until Period 4-2020

Version: 3-7-2020

Code	Description	Unit	Period 5	Period 6	Period 7	Period 8	Period 9	Period 10	Subtotal
<b>FERTILIZERS (Continued)</b>									
545	Calcium nitrate (nitrate o	kg	1515	2616	1200	3600			8931
994	Control (Growdesign)	litre							
638	Kalk	kg	1920	1094,4		28			3042,4
980	Loker L 2+8+6+3.3MgO	litre				5			5
516	Magnesium sulphate	kg		1200					1200
575	Manganese sulphate	kg			1200				1200
666	Micromax	kg	48	28,8					76,8
580	Mono-ammonium phosphate	kg	250	250					500
581	Mono-potassium phosphate	kg				250			250
420	NPK 12+6+20	kg	960	576		3,5			1539,5
537	Potassium nitrate (13+0+45)	kg	3600	1200	2400	3600			10800
977	Rexolin D12	kg	80	240	200	280	20		820
586	Sulphate of potash and magnesium	kg							
415	Sulphuric Acid 96%	litre	1000	1000	1000	2000	1000		6000
596	Superphosphate	kg	624	374,4					998,4
603	Urea	kg							

## ENVIRONMENTAL CLUSTERS

Indoor crops									
4062	POT PLANTS 2	m2	82000	82000	82000	82000	82000	82000	82000
	Subtotal		82000	82000	82000	82000	82000	82000	82000
Outdoor crops									
4044	POTPLANTS outdoors	m2	100000	100000	100000	100000	100000	100000	100000
	Subtotal		100000	100000	100000	100000	100000	100000	100000

# CO2 Indicator

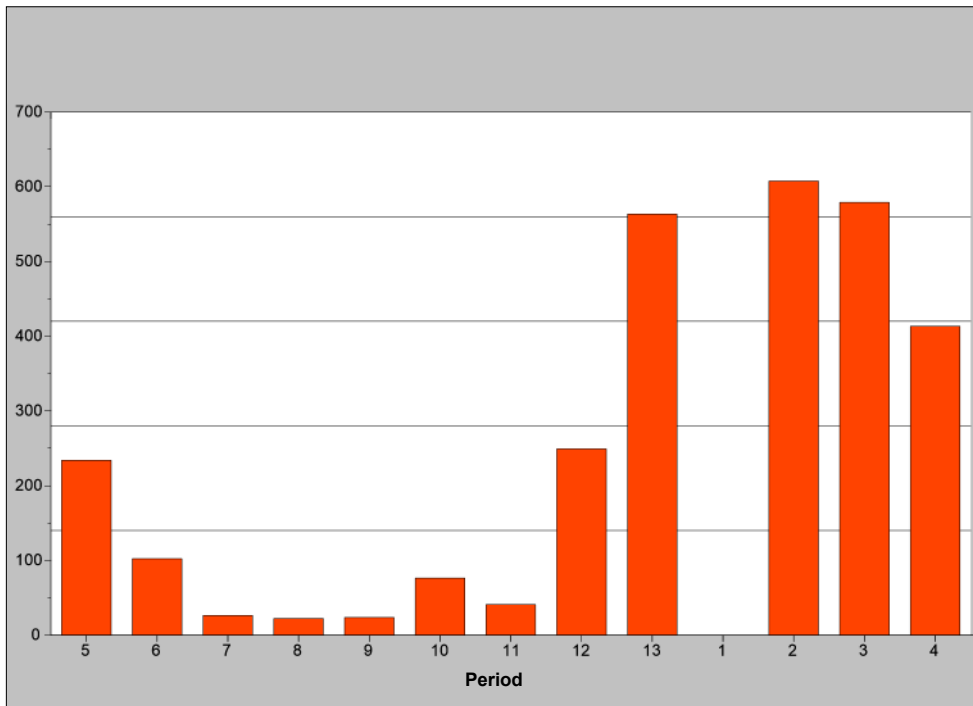
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**Review CO2-emission per energy source per year (x 1000 kg)**

Code		CO2 production (x 1000)
4	Electricity usage (Total)	1236
1	Gas consumption	1154
7	Residual heat usage	549
<b>Total</b>		<b>2939</b>

**Review CO2-emission per period (x 1000 kg)**



Disclaimer: the purpose of the above mentioned table and graphics is to give an insight in the CO2-emission on company level. The CO2 emission has been based on the energy consumption in GJ and the internationally accepted arithmetic rules. The calculation of the quantity in GJ is based on the calculation system of MPS for the fuel used by the company and the electricity and heating that has been bought and sold. The review serves only as a management tool. No rights can be derived. It is not allowed to use this review for other purposes. In cooperation with (inter)national stakeholders and research organizations MPS is working on further developments concerning CO2. We mainly focus on CO2 emission in the transport chain and the CO2 emission per physical production.