

# Certificate

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

**Gartneriet Lammehave  
Nordmarken 4  
5750 RINGE  
Denmark  
MPS-number: 802932**

Applicable to environmental clusters:

POT PLANTS 1; POT PLANTS 4; POT PLANTS 5; POT PLANTS 8; POT PLANTS REMAINDER

Validity: **5-11-2018 until 27-1-2019**

Total points: **103,9**

Qualification: **A+**

Kind regards,  
MPS-ECAS

Signature:

Date of issue:  
19-11-2018



Ing. C. Maas

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

**MPS-ECAS**  
Certification



# QUALIFICATION AND PERIOD GRAPHS

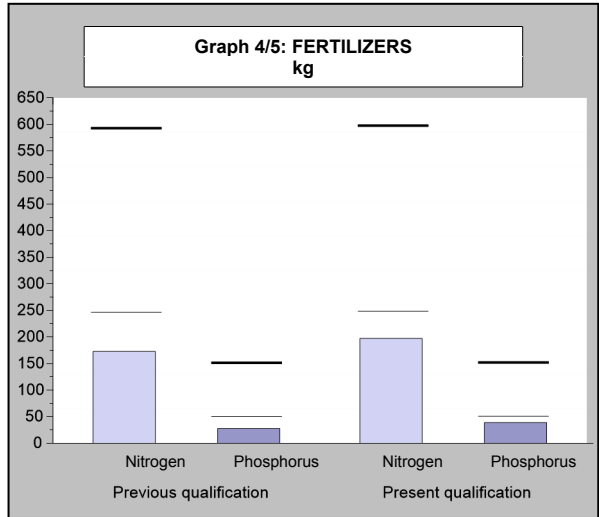
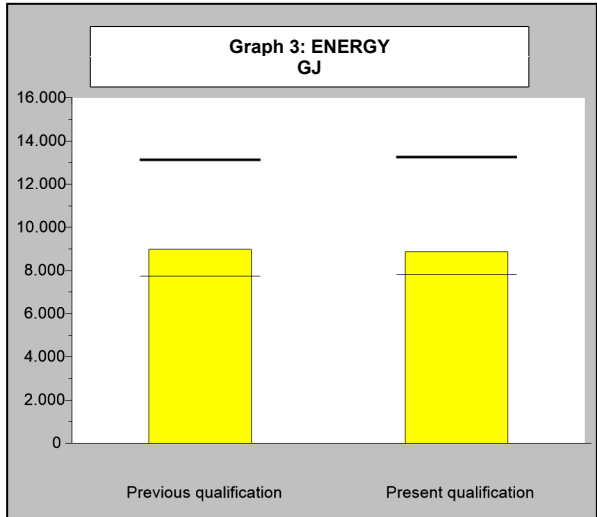
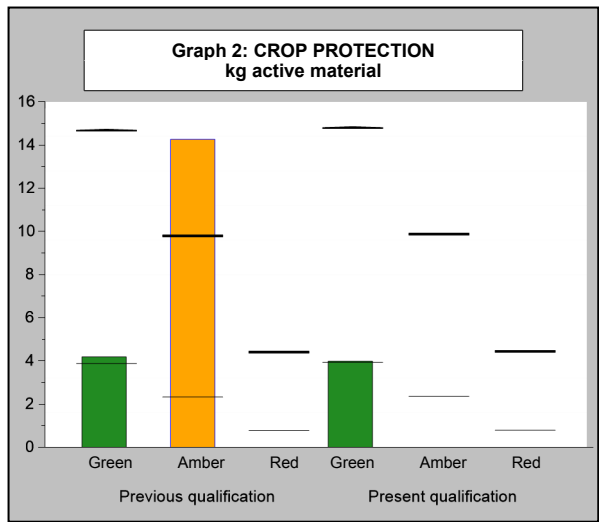
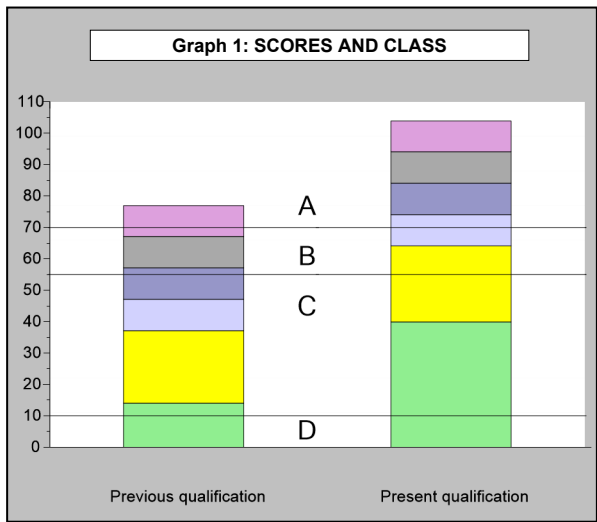
MPS company number: **802932/01**  
 Company name: Gartneriet Lammehave (total)

Valid: Period 11-2017 until Period 10-2018  
 Version: 19-11-2018

**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	3,9-14,8 kg	4	11,9	12			
	Amber	2,4-9,9 kg	0	16	16			
	Red	0,8-4,4 kg	0	12	12			
total				39,9	40	85 %	99,8 %	yes
Energy total		7815,9-13258,8 GJ	8871,9	24,2	30	75 %	80,5 %	yes
Fertilizers	Nitrogen	248,7-597,7 kg	197,4	10	10			
	Phosphorus	50,9-152 kg	38,9	10	10			
total				20	20	75 %	100 %	yes
Waste		0-130	130	10	10			
Water								
Certified parental material				9,8	10			
Total score (points)				103,9	110	90	103,9	yes
COMPANY QUALIFICATION				A+				

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

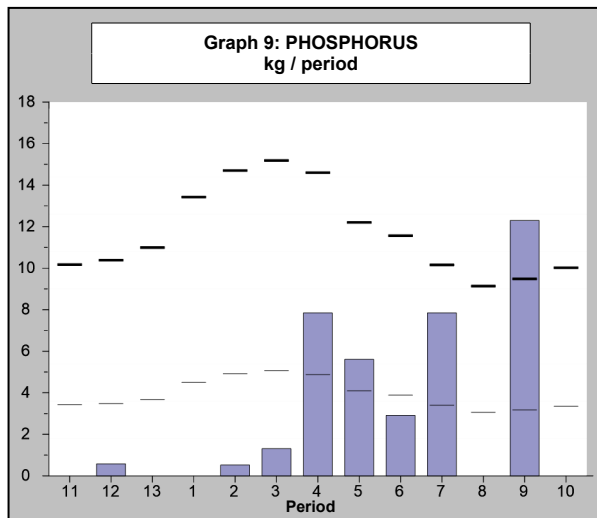
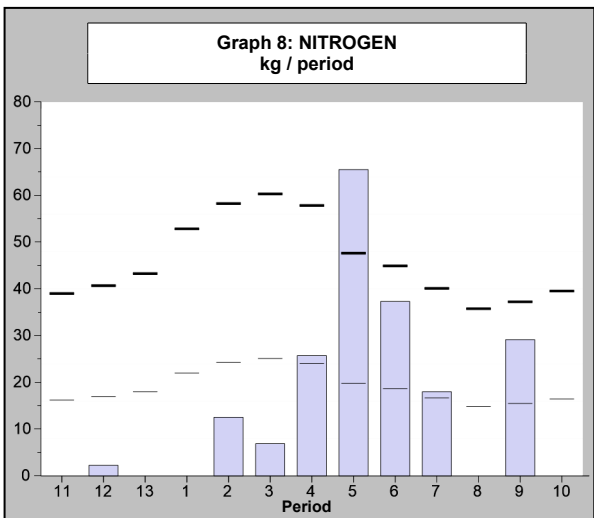
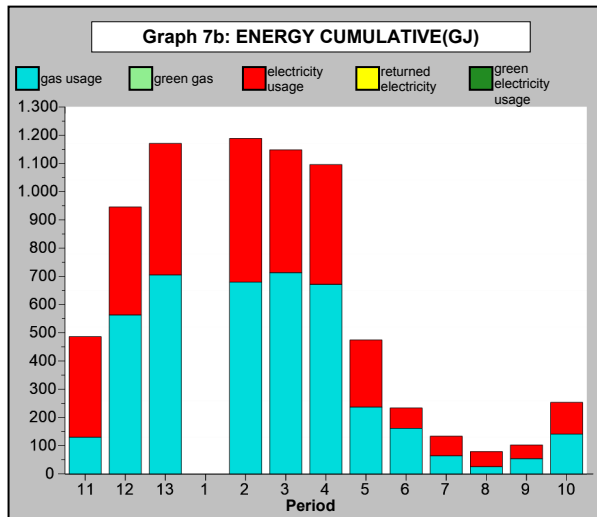
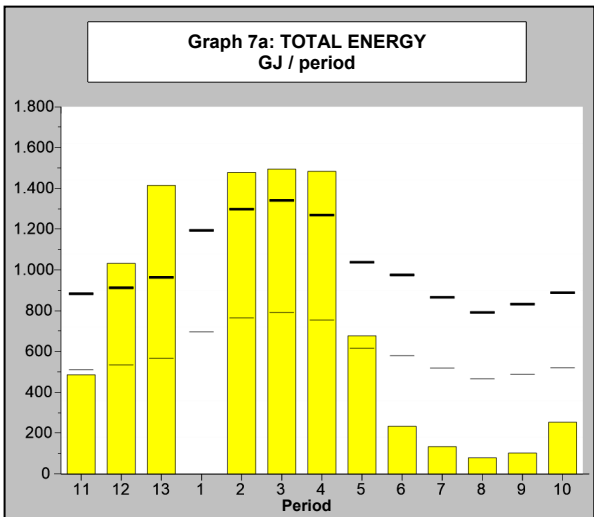
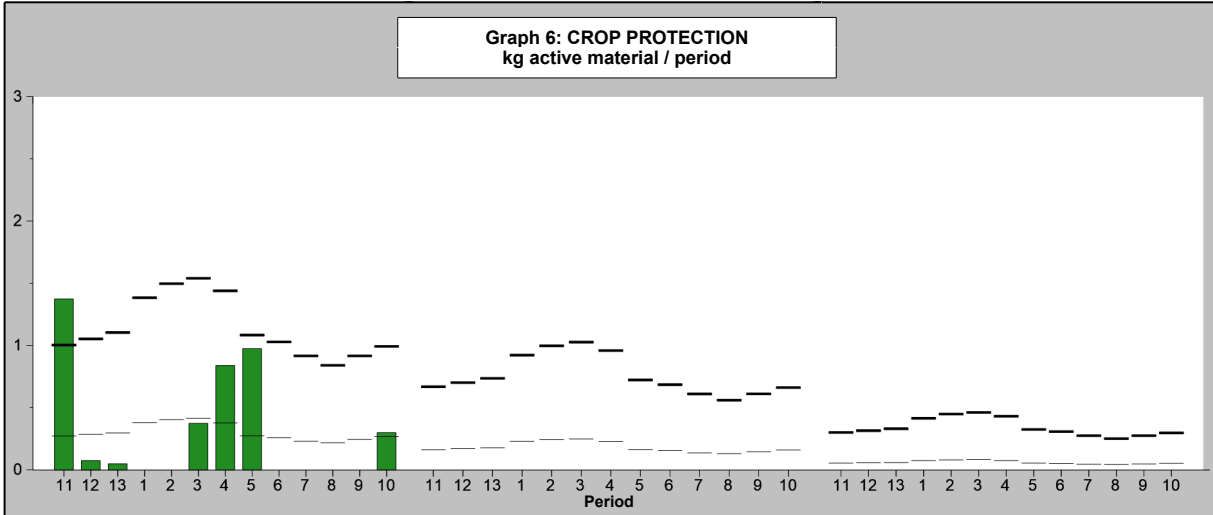


# QUALIFICATION AND PERIOD GRAPHS

MPS company number: **802932/01**  
 Company name: Gartneriet Lammehave (total)

Valid: Period 11-2017 until Period 10-2018  
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<-----> = Upperlimit <.....> = Lowerlimit



# MPS-Overview Composition of Qualification

MPS company number: **802932/01**  
 Company name: Gartneriet Lammehave (total)

Valid: Period 11-2017 until Period 10-2018  
 Version: 19-11-2018

## Composition of points MPS environmentally certified parental material

Certified parental material	(Average) area	Your Points	Max points
Total cultivated area 1)	4943,3 m2		
Area certified parental material MPS-ABC	4847,2 m2	9,8	10
Area certified parental material GLOBALGAP	0 m2	0	5
Total points for Certified parental material		9,8	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	11	12	13	1	2	3	4	5	6	7	8	9	10
Environmental	Zone 3	Zone 3	Zone 3	Zone 3	Zone 3	Zone 3	Zone 3	Zone 3	Zone 3	Zone 3	Zone 3	Zone 3	Zone 3

## Company usage of MPS-MIND

Pesticide	Indicator color	active ingredient	Annual company use of active substance		
			Green	Amber	Red
Acadian	○	seaweed extract			
Feromoon Duponchelia fovealis	○	pheromone			
Geoxe 50 WG	●	fludioxonil	1,000		
Gnatrol SC	○	bacillus thuringiensis			
Mogeton WP	●	quinoclamine	1,125		
Mospilan SG	●	acetamiprid	0,600		
NeemAzal-T/S	●	azadirachtin	0,100		
Nissorun 250 SC (liquid)	●	hexythiazox	0,250		
Per aqua	○	hydrogen peroxide			
	○	peroxyacetic acid			
Previcur Energy	●	fosetyl-aluminium	0,310		
	●	propamocarb	0,530		
ReduClean	○	schermmiddel-/coating-remover			
Redusol	○	shadingmaterial/ coating			
Steward	●	indoxacarb	0,075		
Vetcobac	○	bacillus thuringiensis			
<b>Annual company use of active substance</b>			<b>3,990</b>		

# OVERVIEW RECORDED DATA

MPS company number: **802932/01**  
 Company name: **Gartneriet Lammehave (total)**

Valid: Period 11-2017 until Period 10-2018  
 Version: 19-11-2018

Code	Description	Unit	Period 5	Period 6	Period 7	Period 8	Period 9	Period 10	Subtotal	Year total
<b>FORM RECEIVED</b>			yes	yes	yes	yes	yes	yes		
<b>CROP PROTECTION AGENTS</b>										
3363	Acadian	ml								60000
990673	Amblyseius / Neoseiulus californicus	number	50000	20000	20000	25000	30000		145000	165000
990395	Amblyseius / Neoseiulus cucumeris	number		3840000	3840000	1920000	1920000	1520000	13040000	974020000
777386	Feromoon Duponchelia fovealis	number								25
3798	Geoxe 50 WG	gram								2000
3366	Gnatrol SC	ml	10000	10000		20000	10000	10000	60000	60000
990675	Hypoaspis miles	number						375000	375000	1500000
3155	Mogeton WP	gram	1500						1500	4500
3277	Mospilan SG	gram	3000						3000	3000
3785	NeemAzal-T/S	ml						5000	5000	10000
3123	Nematoder Million	ml	1750000000	1500000000	750000000	2250000000	1250000000	1250000000	8750000000	15750000000
3821	Nissorun 250 SC (liquid)	ml						1000	1000	1000
3307	Per aqua	ml								64000
990391	Phytoseiulus persimilis	number								6000
3321	Previcur Energy	ml								1000
3301	ReduClean	ml								200000
3320	Redusol	ml								240000
3312	Steward	gram								250
3136	Vetcobac	ml								40000
<b>ENERGY</b>										
1	Gas consumption	m3	6753	4609	1834	739	1540	4024	19499	118122
2	Conversion factor		1	1	1	1	1	1		
3	Caloric value		1	1	1	1	1	1		
4	Electricity usage (Total)	kWh	43199	13046	12610	9706	8843	20404	107808	575658
66	Coal	kg	7000						7000	53780
<b>FERTILIZERS</b>										
514	Ammonia sulphate	kg								50
545	Calcium nitrate (nitrate o	kg	150	75				50	275	350
640	Dolemit kalk	kg						128	128	242,3
561	Ferrous chelate EDDHA 6%	kg	5						5	15
376	Ferrous chelate HEEDTA 4 %	litre				20			20	20
379	Ferrous chelate HEEDTA 6%	litre		5					5	5
969	Kristalon Flower 14+3.9+21.2	kg	75	75					150	150
637	Krist-K Plus 13.7+0+38.4	kg	125	50				50	225	225

# OVERVIEW RECORDED DATA (Continued)

MPS company number: **802932/01**  
 Company name: **Gartneriet Lammehave (total)**

Valid: Period 11-2017 until Period 10-2018  
 Version: 19-11-2018

Code	Description	Unit	Period 5	Period 6	Period 7	Period 8	Period 9	Period 10	Subtotal	Year total
<b>FERTILIZERS (Continued)</b>										
516	Magnesium sulphate	kg	50	50			50		150	150
666	Micromax	kg					9,4		9,4	21,01
581	Mono-potassium phosphate	kg					25		25	25
633	NPK 14+3+15	kg	90						90	90
953	Osmocote Exact Mini 15+9+11+2MgO+TE	kg					6,6		6,6	7,86
412	Phospor syre 75%	litre					20		20	20
940	Plant-Prod 20+20+20	kg			90				90	195
970	Rexolin Q48	kg								5
414	Salpeter syre 62%	litre	20	80			60		160	160
677	Solubor 20.5%	kg			5				5	5
919	TBF 17+10+14+4	kg					43		43	67,08
604	Zinc sulphate	kg		5					5	5

## ENVIRONMENTAL CLUSTERS

Indoor crops										
4000	UNCULTIVATED	m2	2146	2446	944	1424	1260	1004		
4061	POT PLANTS 1	m2	2151	2151	1797	1304	1188	1115		
4064	POT PLANTS 4	m2	1785	1444	1382	1335	1137	1175		
4065	POT PLANTS 5	m2	895	916	802	840	1287	1577		
4068	POT PLANTS 8	m2	101	101	127	101	127	127		
4070	POT PLANTS REMAINDER	m2	177	195	215	260	266	266		
	Subtotal		7255	7253	5267	5264	5265	5264		
Certified parental material										
661	MPS-ABC certif.parental mat. indoor	m2	5109	4807	4323	3841	4005	4260		

## GENERAL INFORMATION FORM

### MPS-Mind

#### Surface water

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

< 250 metres / < 820 feet

#### Cover

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

Yes

## OVERVIEW RECORDED DATA (Continued)

MPS company number: **802932/01**  
Company name: Gartneriet Lammehave (total)

Valid: Period 11-2017 until Period 10-2018  
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### GENERAL INFORMATION FORM

#### MPS-Mind

##### Slope

3902 What is the maximum slope of a field in this part registration? 3 - 10%

##### 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

##### Sidescreens:

3950 Are sidescreens being used during lighting in the night? Yes

##### Topscreens:

3951 Are topscreens being used during lighting in the night? Yes

3952 If yes, what percentage of light-reduction? Less than 85%

##### 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? No

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

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

#### Waste management

41 Is organic waste being processed in a responsible way? Yes

42 Is paper being processed in a responsible way? Yes

43 Is plastic being processed in a responsible way? Yes

# OVERVIEW RECORDED DATA

MPS company number: **802932/01**  
 Company name: **Gartneriet Lammehave (total)**

Valid: Period 11-2017 until Period 10-2018  
 Version: 19-11-2018

Code	Description	Unit	Period 11	Period 12	Period 13	Period 1	Period 2	Period 3	Period 4	Subtotal
<b>FORM RECEIVED</b>			yes	yes	yes	yes	yes	yes	yes	
<b>CROP PROTECTION AGENTS</b>										
3363	Acadian	ml		10000			20000	30000		60000
990673	Amblyseius / Neoseiulus californicus	number							20000	20000
990395	Amblyseius / Neoseiulus cucumeris	number	980000					960000000		960980000
777386	Feromoon Duponchelia fovealis	number		25						25
3798	Geoxe 50 WG	gram	2000							2000
3366	Gnatrol SC	ml								
990675	Hypoaspis miles	number	250000		125000		750000			1125000
3155	Mogeton WP	gram	1500					1500		3000
3277	Mospilan SG	gram								
3785	NeemAzal-T/S	ml			5000					5000
3123	Nematoder Million	ml	1000000000	1250000000	750000000		2000000000		2000000000	7000000000
3821	Nissorun 250 SC (liquid)	ml								
3307	Per aqua	ml	24000	40000						64000
990391	Phytoseiulus persimilis	number	6000							6000
3321	Previcur Energy	ml							1000	1000
3301	ReduClean	ml		200000						200000
3320	Redusol	ml		240000						240000
3312	Steward	gram		250						250
3136	Vetcobac	ml	10000	10000			20000			40000
<b>ENERGY</b>										
1	Gas consumption	m3	3719	16034	20089		19350	20307	19124	98623
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	64728	69603	84660		92576	79121	77162	467850
66	Coal	kg		3000	8420		10000	11980	13380	46780
<b>FERTILIZERS</b>										
514	Ammonia sulphate	kg					50			50
545	Calcium nitrate (nitrate o	kg						25	50	75
640	Dolemit kalk	kg		31,07			83,23			114,3
561	Ferrous chelate EDDHA 6%	kg			5		5			10
376	Ferrous chelate HEEDTA 4 %	litre								
379	Ferrous chelate HEEDTA 6%	litre								
969	Kristalon Flower 14+3.9+21.2	kg								
637	Krist-K Plus 13.7+0+38.4	kg								



# OVERVIEW RECORDED DATA (Continued)

MPS company number: **802932/01**

Valid: Period 11-2017 until Period 10-2018

Company name: Gartneriet Lammehave (total)

Version: 19-11-2018

Code	Description	Unit	Period 11	Period 12	Period 13	Period 1	Period 2	Period 3	Period 4	Subtotal
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## FERTILIZERS (Continued)

516	Magnesium sulphate	kg								
666	Micromax	kg		2,67			8,94			11,61
581	Mono-potassium phosphate	kg								
633	NPK 14+3+15	kg								
953	Osmocote Exact Mini 15+9+11+2MgO+TE	kg					1,26			1,26
412	Phospor syre 75%	litre								
940	Plant-Prod 20+20+20	kg						15	90	105
970	Rexolin Q48	kg					5			5
414	Salpeter syre 62%	litre								
677	Solubor 20.5%	kg								
919	TBF 17+10+14+4	kg		13,3			10,78			24,08
604	Zinc sulphate	kg								

## ENVIRONMENTAL CLUSTERS

Indoor crops									
4000	UNCULTIVATED	m2	3105	1541	1255	1567	985	735	1011
4061	POT PLANTS 1	m2	1393	1293	1421	1421	1786	1859	2151
4064	POT PLANTS 4	m2	619	733	866	1087	1244	1373	1289
4065	POT PLANTS 5	m2	1758	2043	2043	2825	2930	2958	2500
4068	POT PLANTS 8	m2	152	101	101	101	101	101	101
4070	POT PLANTS REMAINDER	m2	228	202	228	253	228	228	202
Subtotal			7255	5913	5914	7254	7274	7254	7254
Certified parental material									
661	MPS-ABC certif.parental mat. indoor	m2	4150	4373	4659	5687	5037	6519	6243

# CO2 Indicator

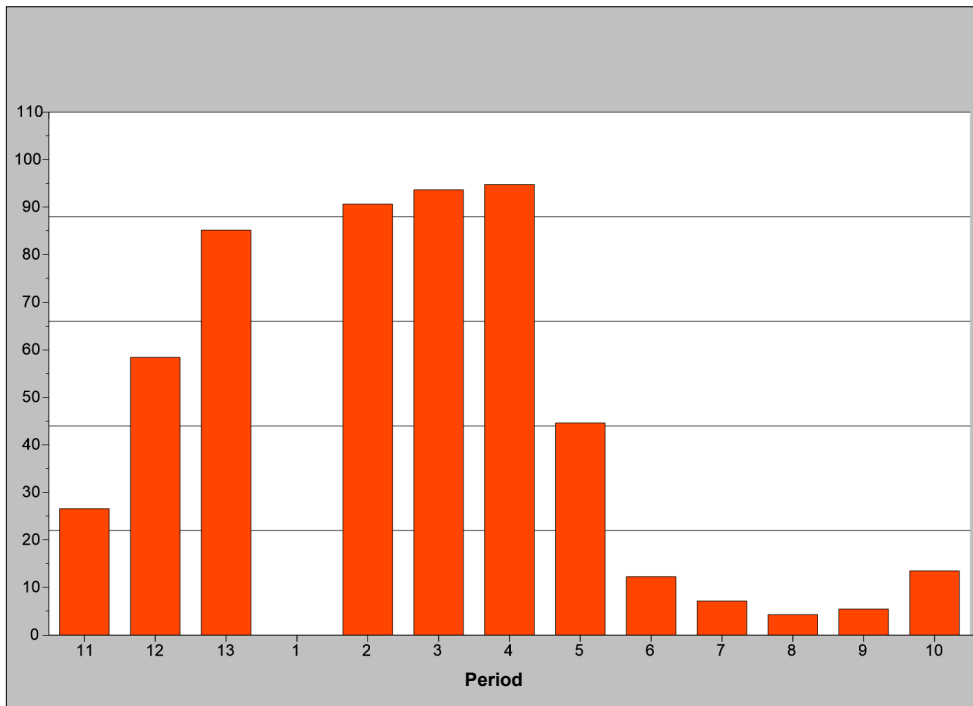
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**Review CO2-emission per energy source per year (x 1000 kg)**

Code		CO2 production (x 1000)
1	Gas consumption	212
4	Electricity usage (Total)	177
66	Coal	148
<b>Total</b>		<b>537</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.