

Certificate

MPS-ECAS awards this certificate in accordance with the certification scheme MPS ABC version 14 100216, to:

**Gartneriet Offer Madsen A / S
Odensevej 32
5620 GLAMSBJERG
Denmark
MPS-number: 801518**

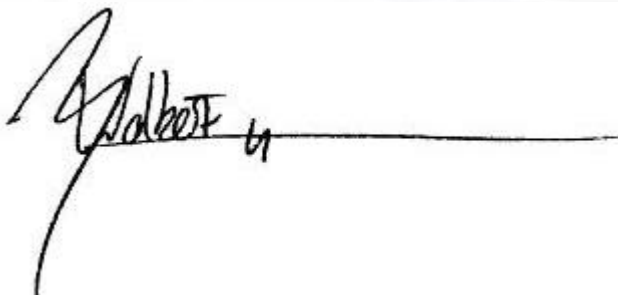
Applicable to environmental clusters:
POT PLANTS 5; POT PLANTS 6; POT PLANTS 2

Validity: **30-1-2017 until 22-5-2017**
Total points: **90,9**
Qualification: **A**

Kind regards,
MPS-ECAS

Signature:

Date of issue:
10-2-2017



J.J.B. Wolbert MSc
Director

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

MPS-ECAS
Certification



QUALIFICATION AND PERIOD GRAPHS

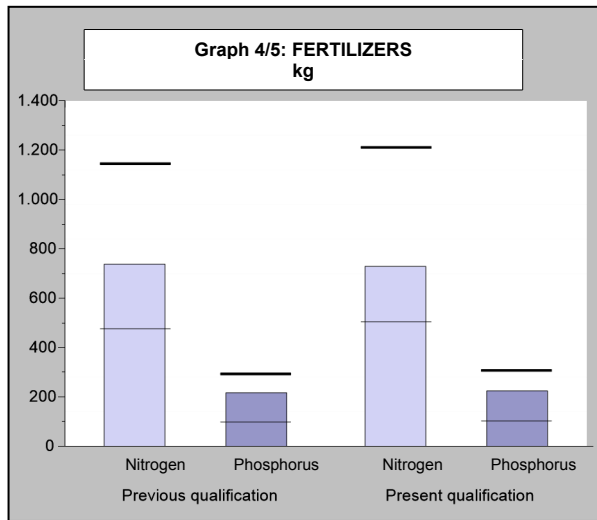
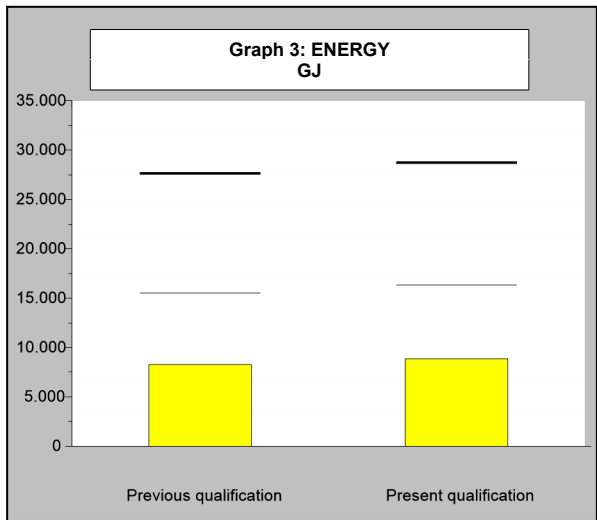
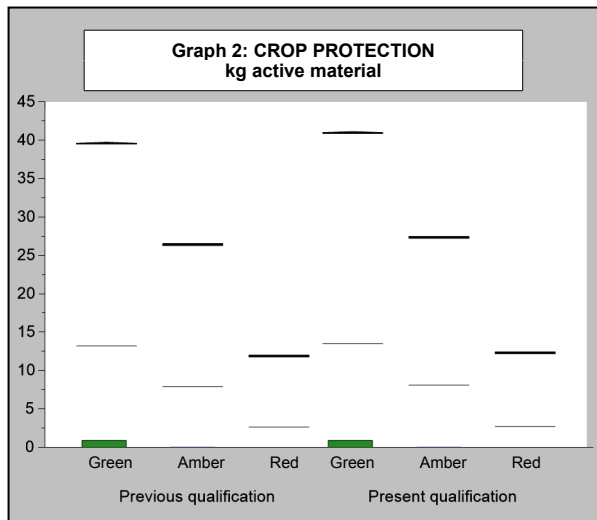
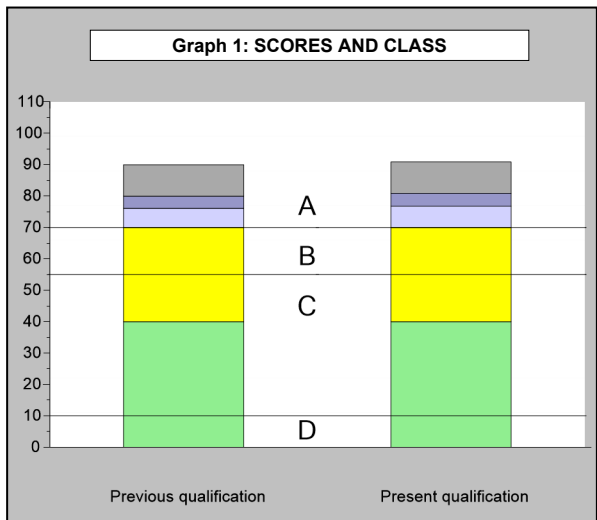
MPS company number: **801518/01**
 Company name: Gartneriet Offer Madsen A / S (total)

Valid: Period 1-2016 until Period 13-2016
 Version: 10-2-2017

Table 1: DATA QUALIFICATIONS

SUBJECT		Company standard		use	points	max. points	A+ standard	A+ score	Obtained
		Lower	Upper limit						
Crop protection	Green	13,5-41 kg		0,9	12	12			
	Amber	8,1-27,3 kg		0	16	16			
	Red	2,7-12,3 kg		0	12	12			
total					40	40	85 %	100 %	yes
Energy total		16339,5-28738 GJ		8868,7	30	30	75 %	100 %	yes
Fertilizers	Nitrogen	504,1-1211,4 kg		729,4	6,8	10			
	Phosphorus	102,9-307,5 kg		224,6	4,1	10			
total					10,9	20	75 %	54,3 %	no
Waste		0-130		130	10	10			
Water									
Certified parental material					0	10			
Total score (points)					90,9	110	90	90,9	yes
COMPANY QUALIFICATION					A				

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

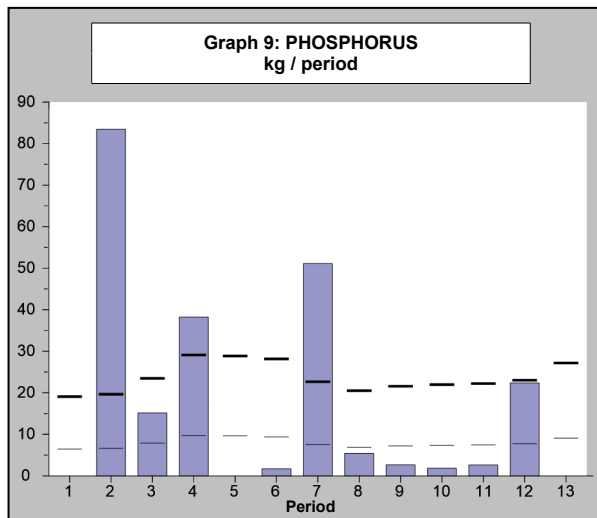
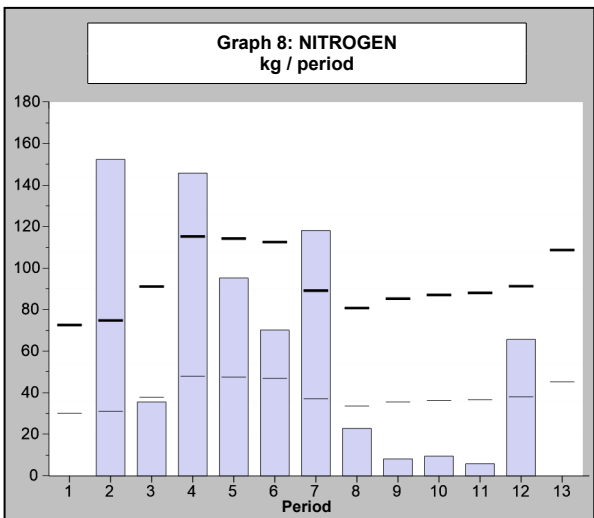
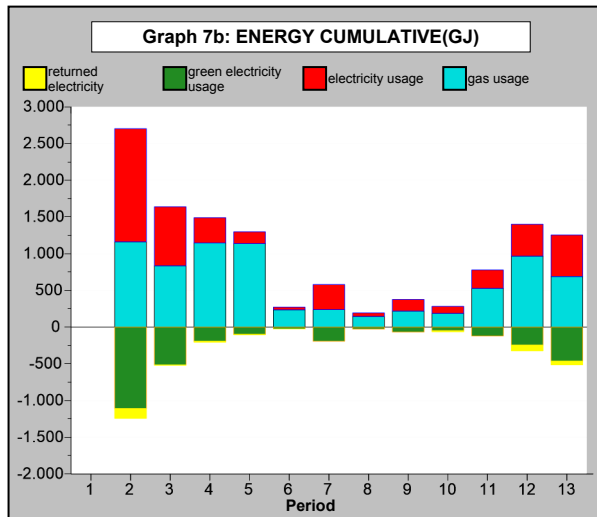
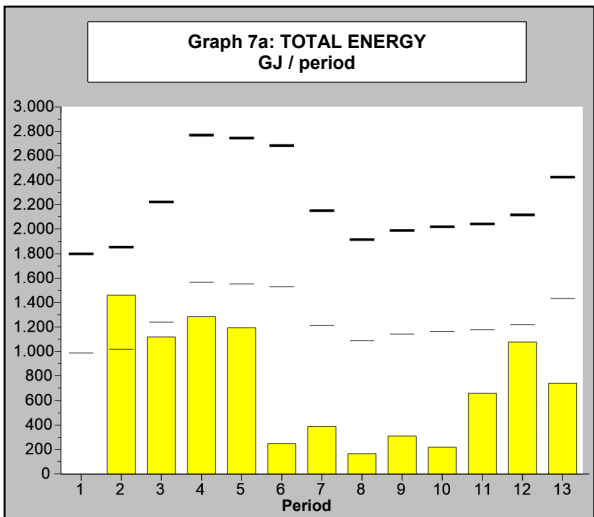
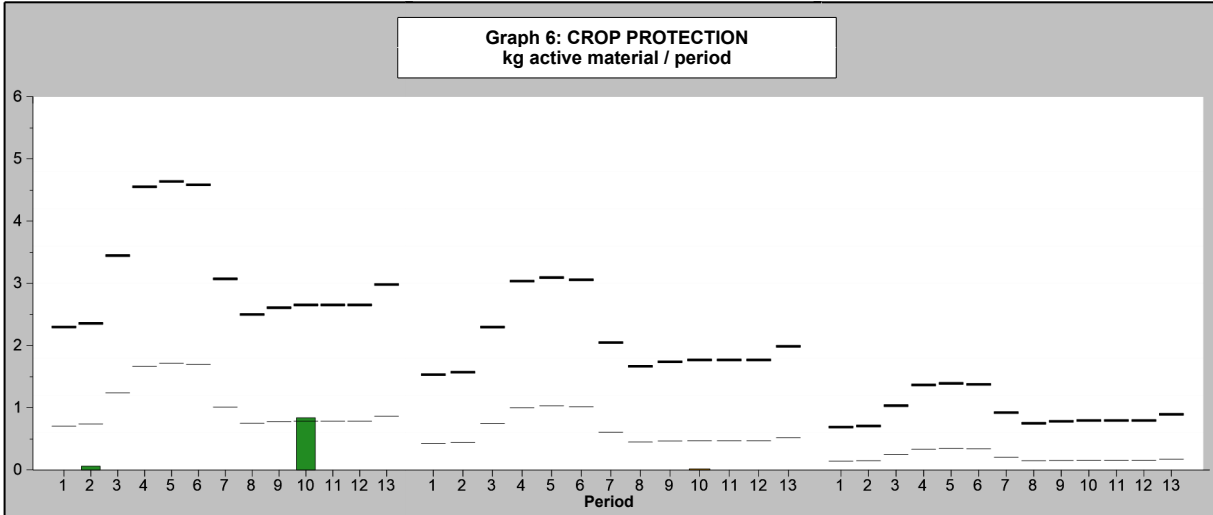


QUALIFICATION AND PERIOD GRAPHS

MPS company number: **801518/01**
 Company name: Gartneriet Offer Madsen A / S (total)

Valid: Period 1-2016 until Period 13-2016
 Version: 10-2-2017

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



MPS-Overview Composition of Qualification

MPS company number: **801518/01**
 Company name: Gartneriet Offer Madsen A / S (total)

Valid: Period 1-2016 until Period 13-2016
 Version: 10-2-2017

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

THEMA		Basic standard	% OEX	Companystand	
Crop protection	Green			13,5-41 kg	0,9 kg
	Amber			8,1-27,3 kg	0 kg
	Red			2,7-12,3 kg	
Energy		16081,8-28290,3 GJ	1,6 %	16339,5-28738 GJ	8868,7 GJ
Nitrogen (N)		496,1-1192,2 kg	1,6 %	504,1-1211,4 kg	729,4 kg
Phosphorus (P)		101,3-302,6 kg	1,6 %	102,9-307,5 kg	224,6 kg

Composition of points MPS environmentally certified parental material

Certified parental material	(Average) area	Your Points	Max points
Total cultivated area 1)	9869 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	1	2	3	4	5	6	7	8	9	10	11	12	13
Environment	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
Floramite	●	bifenazate	0,060		
Husholdningssprit 93%	○	ethanol			
Kibril Bladglans	○	leaf shine			
Natriumhypochlorit	○	sodium hypochlorite			
Polygrøn X	○	wetting/sticker agents other			
Previcur Energy	●	fosetyl-aluminium	0,310		
	●	propamocarb	0,530		
Vertimec	○	abamectin		0,018	
Annual company use of active substance			0,900	0,018	

OVERVIEW RECORDED DATA

MPS company number: **801518/01**
 Company name: Gartneriet Offer Madsen A / S (total)

Valid: Period 1-2016 until Period 13-2016
 Version: 10-2-2017

Code	Description	Unit	Period 8	Period 9	Period 10	Period 11	Period 12	Period 13	Subtotal	Year total
FORM RECEIVED			yes	yes	yes	yes	yes	yes		
CROP PROTECTION AGENTS										
990395	Amblyseius / Neoseiulus cucumeris	number		2000		2000	2000		6000	13000
990695	Feltiella acarisuga	number						1750000000	1750000000	1750000000
3279	Floramite	ml								250
3344	Husholdningssprit 93%	ml	20000	50000	20000		60000		150000	190000
3313	Kibril Bladglans	ml					40000		40000	46000
3309	Natriumhypochlorit	ml								58500
3204	Polygrøn X	ml						10000	10000	17500
3321	Previcur Energy	ml			1000				1000	1000
3251	Vertimec	ml			1000				1000	1000
WATER										
21	Total irrigation	m3	278	275	274	206	195	164	1392	2841
ENERGY										
1	Gas consumption	m3	4163	6220	5335	15058	27540	19659	77975	213455
2	Conversion factor		1	1	1	1	1	1		
3	Caloric value		1	1	1	1	1	1		
4	Electricity usage (Total)	kWh	8526	28939	17305	45437	79196	102779	282182	869845
6	Green Electricity Usage	kWh	4945	12154	8825	21809	44350	84278	176361	564353
8	Returned electricity	kWh			2904		14535	9165	26604	55259
LIGHTING										
550013	HP-Na 600W 400V Conv.	Hour			1	1	1	1		
		Number								
		kWatt			31	13132	55403	92032		
FERTILIZERS										
514	Ammonia sulphate	kg								150
513	Ammonium nitrate	kg								100
545	Calcium nitrate (nitrate o	kg	100				150		250	1300
640	Dolemit kalk	kg	14,11	57	24,46	28,22			123,79	1786,74
561	Ferrous chelate EDDHA 6%	kg								5
935	Kalisalpeter 13+0+38 Multi-K GG	kg								700
572	Magnesium nitrate	kg								250
516	Magnesium sulphate	kg					50		50	375

OVERVIEW RECORDED DATA (Continued)

MPS company number: **801518/01**
 Company name: Gartneriet Offer Madsen A / S (total)

Valid: Period 1-2016 until Period 13-2016
 Version: 10-2-2017

Code	Description	Unit	Period 8	Period 9	Period 10	Period 11	Period 12	Period 13	Subtotal	Year total
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FERTILIZERS (Continued)

666	Micromax	kg								16,5
580	Mono-ammonium phosphate	kg								125
420	NPK 12+6+20	kg		5,4	2,7				8,1	348,9
936	NPK 14+10+18	kg	20,92	53,78	20,92	41,83			137,45	223,21
633	NPK 14+3+15	kg								50
412	Phospor syre 75%	litre								20
907	Pioner Basis Brun 14+2+23+Mg+Mikro	kg								375
905	Pioner Basis Rod 6+4+22+Mg+Mikro	kg	75				525		600	3000
454	Pioner Mikrooplosning med Jern (1.45%)	litre								120
539	Potassium sulphate	kg								225
630	Resistim 0+6+11	litre	20		10	10	20		60	90
414	Salpeter syre 62%	litre			60				60	60
596	Superphosphate	kg								231
603	Urea	kg					25		25	25

ENVIRONMENTAL CLUSTERS

Indoor crops										
4000	UNCULTIVATED	m2	2200	1700	1500	1500	1500			
4062	POT PLANTS 2	m2	600	1100	1300	1300	1300	2800		
4065	POT PLANTS 5	m2	8100	8100	8100	8100	8100	8100		
4066	POT PLANTS 6	m2								
Subtotal			10900	10900	10900	10900	10900	10900		

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 part registration? Yes

Slope

3902 What is the maximum slope of a field in this part registration? 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

OVERVIEW RECORDED DATA (Continued)

MPS company number: **801518/01**
Company name: Gartneriet Offer Madsen A / S (total)

Valid: Period 1-2016 until Period 13-2016
Version: 10-2-2017

GENERAL INFORMATION FORM

MPS-OEX

Sidescreens:

3950 Are sidescreens being used during lighting in the night? No

Topscreens:

3951 Are topscreens being used during lighting in the night? No

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?

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

3965 Do you have a diffuse screens in a greenhouse?

3967 Do you use a diffuse coating on a greenhouse?

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: **801518/01**
 Company name: Gartneriet Offer Madsen A / S (total)

Valid: Period 1-2016 until Period 13-2016
 Version: 10-2-2017

Code	Description	Unit	Period 1	Period 2	Period 3	Period 4	Period 5	Period 6	Period 7	Subtotal
FORM RECEIVED			yes	yes	yes	yes	yes	yes	yes	
CROP PROTECTION AGENTS										
990395	Amblyseius / Neoseiulus cucumeris	number			1500	1500		2000	2000	7000
990695	Feltiella acarisuga	number								
3279	Floramite	ml		250						250
3344	Husholdningssprit 93%	ml				20000			20000	40000
3313	Kibril Bladglans	ml						6000		6000
3309	Natriumhypochlorit	ml				19500			39000	58500
3204	Polygrøn X	ml		2500	2500	2500				7500
3321	Previcur Energy	ml								
3251	Vertimec	ml								
WATER										
21	Total irrigation	m3		216	223	260	288	203	259	1449
ENERGY										
1	Gas consumption	m3		33070	23805	32680	32423	6726	6776	135480
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		280495	146186	62659	29322	6627	62374	587663
6	Green Electricity Usage	kWh		201956	93559	35089	17886	4573	34929	387992
8	Returned electricity	kWh		24103	1039	2432	1070	11		28655
LIGHTING										
550013	HP-Na 600W 400V Conv.	Hour		1	1	1	1	1		
		Number								
		kWatt		47224	39970	27642	3006	7		
FERTILIZERS										
514	Ammonia sulphate	kg					125	25		150
513	Ammonium nitrate	kg				100				100
545	Calcium nitrate (nitrate o	kg				300	200	400	150	1050
640	Dolemit kalk	kg		1068,81	545,22			14,11	34,81	1662,95
561	Ferrous chelate EDDHA 6%	kg						5		5
935	Kalisalpeter 13+0+38 Multi-K GG	kg		200		200	200		100	700
572	Magnesium nitrate	kg			150		100			250
516	Magnesium sulphate	kg		100		100	75	50		325

OVERVIEW RECORDED DATA (Continued)

MPS company number: **801518/01**
 Company name: Gartneriet Offer Madsen A / S (total)

Valid: Period 1-2016 until Period 13-2016
 Version: 10-2-2017

Code	Description	Unit	Period 1	Period 2	Period 3	Period 4	Period 5	Period 6	Period 7	Subtotal
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FERTILIZERS (Continued)

666	Micromax	kg		11	5,5					16,5
580	Mono-ammonium phosphate	kg				125				125
420	NPK 12+6+20	kg		225,4	110				5,4	340,8
936	NPK 14+10+18	kg		2,09	41,83			20,92	20,92	85,76
633	NPK 14+3+15	kg							50	50
412	Phospor syre 75%	litre		20						20
907	Pioner Basis Brun 14+2+23+Mg+Mikro	kg		200		175				375
905	Pioner Basis Rod 6+4+22+Mg+Mikro	kg		1200					1200	2400
454	Pioner Mikrooplosning med Jern (1.45%)	litre		40			40	40		120
539	Potassium sulphate	kg					225			225
630	Resistim 0+6+11	litre				10		10	10	30
414	Salpeter syre 62%	litre								
596	Superphosphate	kg		154	77					231
603	Urea	kg								

ENVIRONMENTAL CLUSTERS

Indoor crops										
4000	UNCULTIVATED	m2	6800	6800	5000	2200	2200			2600
4062	POT PLANTS 2	m2								
4065	POT PLANTS 5	m2	7700	7300	5000	5500	4900	4800		7700
4066	POT PLANTS 6	m2		400	4500	6800	7400	7400		1900
Subtotal			14500	14500	14500	14500	14500	12200	12200	

CO2 Indicator

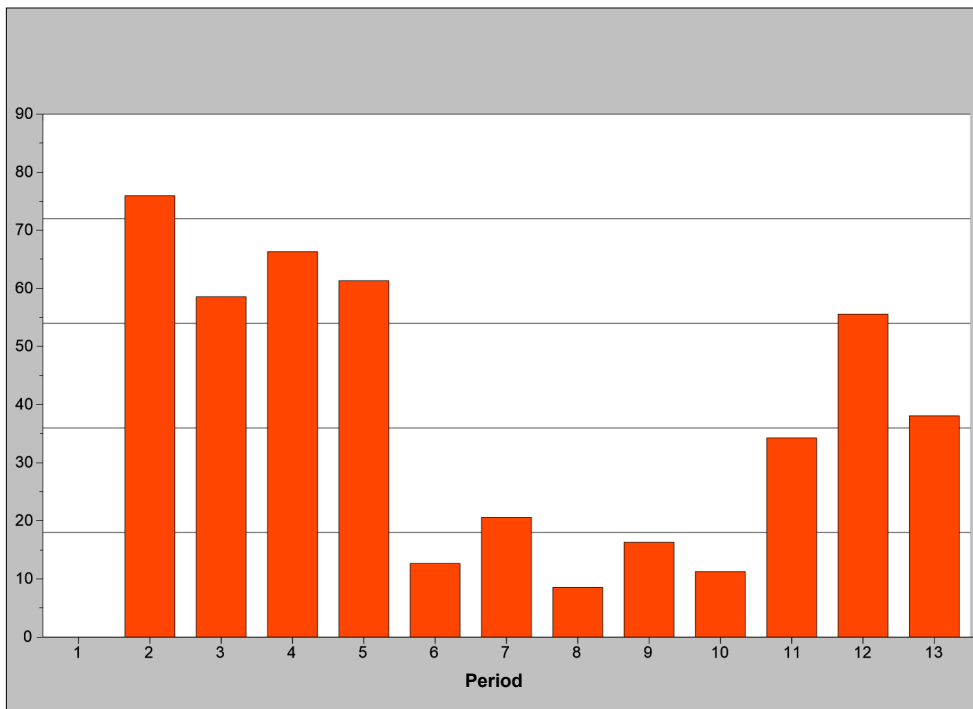
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Review CO2-emission per energy source per year (x 1000 kg)

Code		CO2 production (x 1000)
1	Gas consumption	383
4	Electricity usage (Total)	268
8	Returned electricity	-17
6	Green Electricity Usage	-174
Total		460

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.