



Certificate

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

**Gartneriet Svend Erik Nielsen ApS
Neversvej 38
5960 Tommerup
Denmark
MPS-number: 910179**

Applicable to environmental clusters:
POT PLANTS 4; POT PLANTS 5; POT PLANTS 7; POT PLANTS 8

Validity: **1-2-2021 until 23-5-2021**
Total points: **101.7**
Qualification: **A+**

Kind regards,
MPS-ECAS

Signature:

Ing. C. Maas

Date of issue:
27-1-2021

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

QUALIFICATION AND PERIOD GRAPHS

MPS company number: **910179/01**
 Company name: Gartneriet Svend Erik Nielsen ApS (total)

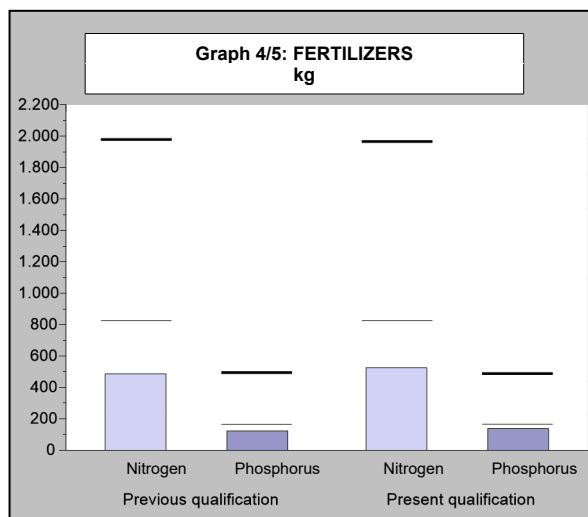
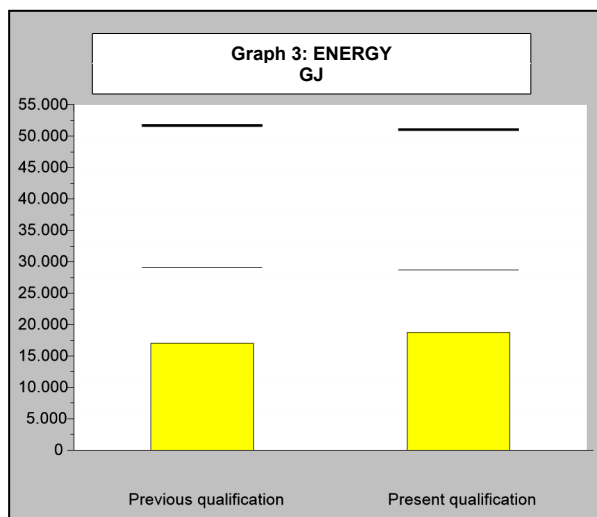
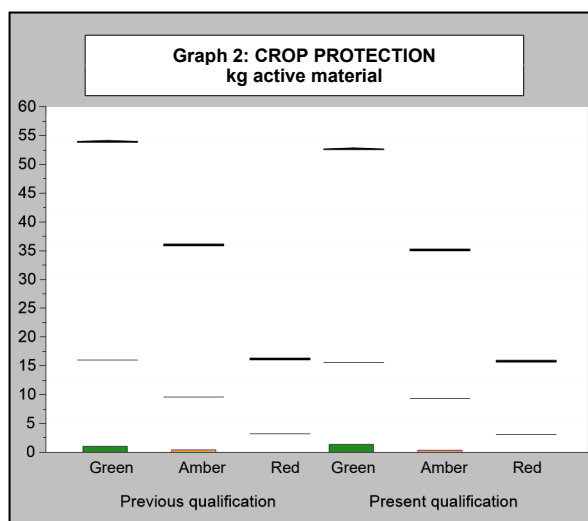
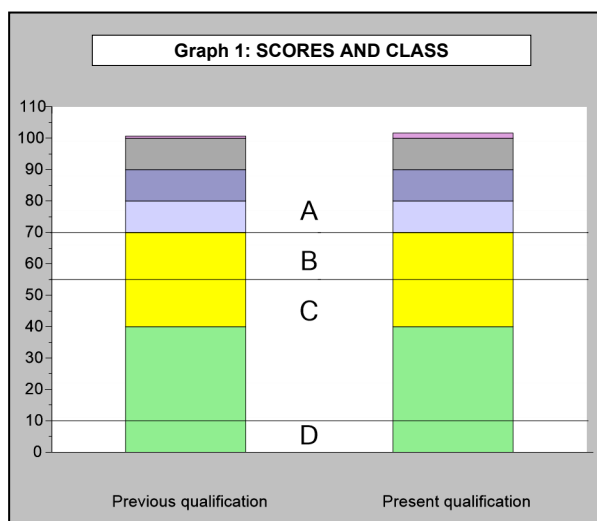
Valid: Period 1-2020 until Period 13-2020
 Version: 1/27/2021

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	15.6-52.7 kg	1.4	12	12			
	Amber	9.4-35.1 kg	0.4	16	16			
	Red	3.1-15.8 kg	0	12	12			
total				40	40	85 %	100 %	yes
Energy total		28722.2-51057.1 GJ	18774.4	30	30	75 %	100 %	yes
Fertilizers	Nitrogen	825.5-1966.3 kg	526.5	10	10			
	Phosphorus	165.1-488.7 kg	138.9	10	10			
total				20	20	75 %	100 %	yes
Waste		0-130	130	10	10			
Water								
Certified parental material				1.7	10			
Total score (points)				101.7	110	90	101.7	yes
COMPANY QUALIFICATION				A+				

COMPANY USAGE PER 13 PERIODS

<-----> = Upper limit <.....> = Lower limit

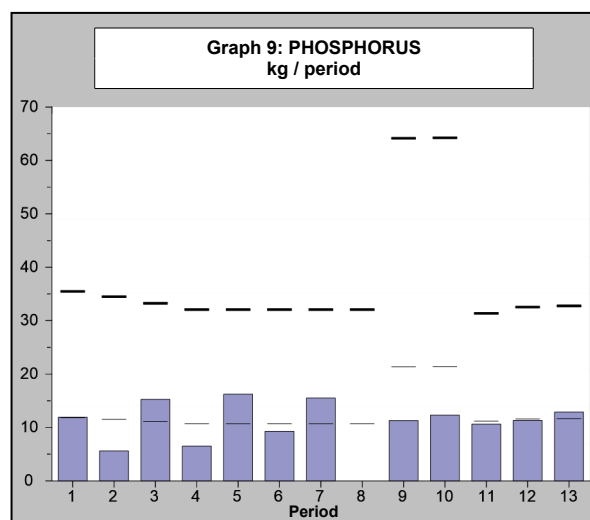
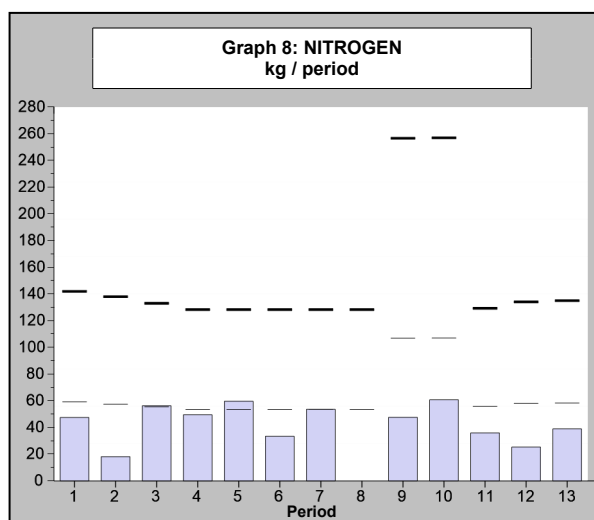
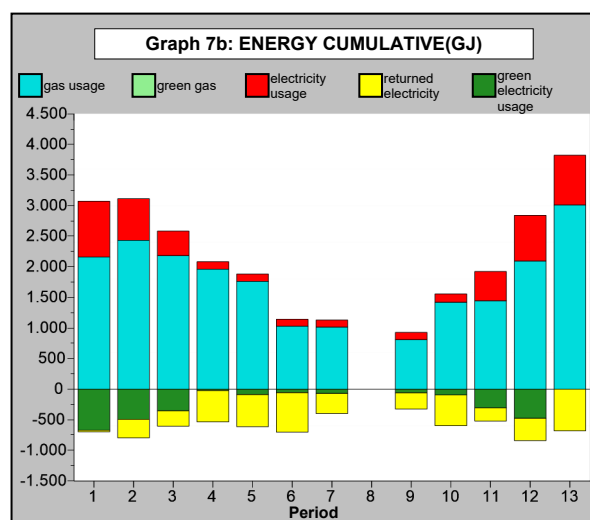
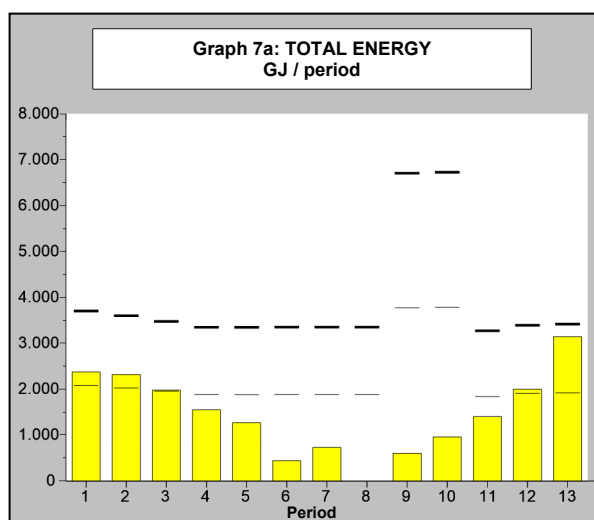
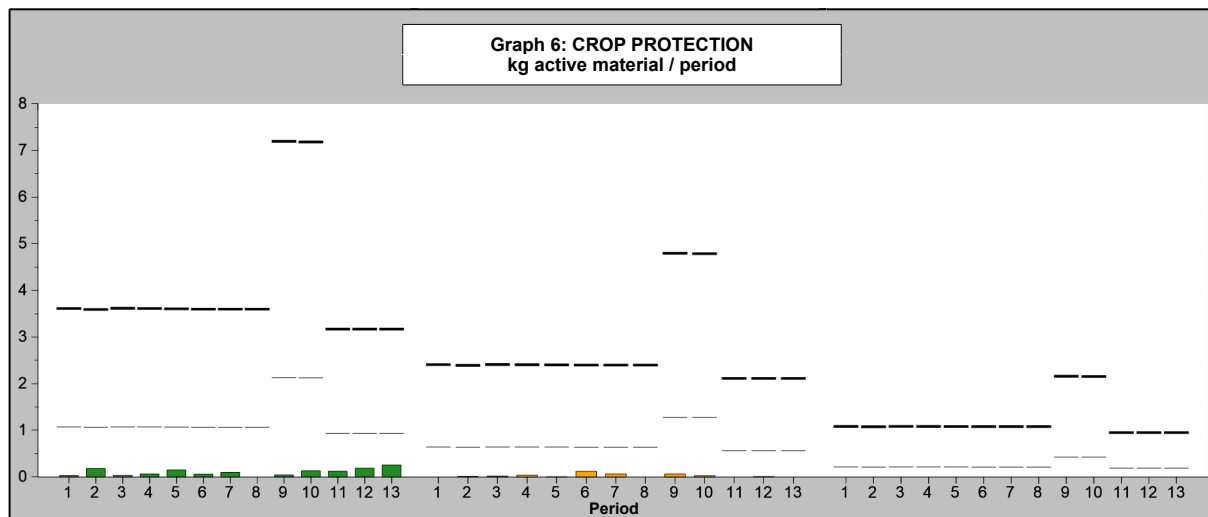


QUALIFICATION AND PERIOD GRAPHS

MPS company number: **910179/01**
 Company name: Gartneriet Svend Erik Nielsen ApS (total)

Valid: Period 1-2020 until Period 13-2020
 Version: 1/27/2021

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



MPS-Overview Composition of Qualification

MPS company number: **910179/01**
 Company name: Gartneriet Svend Erik Nielsen ApS (total)

Valid: Period 1-2020 until Period 13-2020
 Version: 1/27/2021

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

THEMA		Basic standard		% OEX	Company standard	
		lower-limit	upper-limit		lower-limit	upper-limit
Crop protection	Green				15.6-52.7 kg	1.4 kg
	Amber				9.4-35.1 kg	0.4 kg
	Red				3.1-15.8 kg	
Energy		27917.7-49626.8 GJ		2.9 %	28722.2-51057.1 GJ	18774.4 GJ
Nitrogen (N)		801.9-1910.7 kg		2.9 %	825.5-1966.3 kg	526.5 kg
Phosphorus (P)		160.4-475 kg		2.9 %	165.1-488.7 kg	138.9 kg

Composition of points MPS environmentally certified parental material

Certified parental material	(Average) area	Your Points	Max points
Total cultivated area 1)	16038.5 m2		
Area certified parental material MPS-ABC	2659 m2	1.7	10
Area certified parental material GLOBALGAP	0 m2	0	5
Total points for Certified parental material		1.7	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
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
Allette	●	fosetyl-aluminium	0.067		
Amistar	●	azoxystrobin		0.038	
Azatin EC	●	azadirachtin	0.001		
BioGlans	○	leaf shine			
Biscaya	●	thiacloprid	0.215		
BotaniGard WP	○	beauveria bassiana			
Bruspray Acid	○	cleaning agents other			
Conserve	●	spinosad	0.260		
Floramite	●	bifenazate	0.130		
Geoxe 50 WG	●	fludioxonil	0.323		
Kibril Bladglans	○	leaf shine			
La Blanch Witvast	○	shadingmaterial/ coating			
Milbeknock	●	milbemectin		0.013	
Mospilan SG	●	acetamiprid	0.091		
Movento SC 100	●	spirotetramat	0.003		
NeemAzal T/S	●	azadirachtin	0.151		
Nissorun 250 SC (liquid)	●	hexythiazox	0.066		
Pirimor G	●	pirimicarb		0.279	
Sluux	●	ferric phosphate	0.003		
Steward	●	indoxacarb	0.005		
Sulphur for burning	○	sulfur/sulphur			
Teppeki	●	flonicamid	0.039		
Trianum-G	○	trichoderma harzianum			
Vertimec	●	abamectin		0.023	

MPS-Overview Composition of Qualification

MPS company number: **910179/01**

Valid: Period 1-2020 until Period 13-2020

Company name: Gartneriet Svend Erik Nielsen ApS (total)

Version: 1/27/2021

Company usage of MPS-MIND

Pesticide	Indicator color	active ingredient	Annual company use of active substance		
			Green	Amber	Red
Annual company use of active substance			1.350	0.352	

OVERVIEW RECORDED DATA

MPS company number: **910179/01**
 Company name: Gartneriet Svend Erik Nielsen ApS (total)

Valid: Period 1-2020 until Period 13-2020
 Version: 1/27/2021

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

3176	Aliette	gram						190	190	835
990673	Amblyseius / Neoseiulus californicus	number		50000	50000	50000	60000	50000	260000	575000
3140	Amistar	ml								150
3847	Azatin EC	ml			50				50	50
3364	BioGlans	ml		1500	500	500			2500	11250
3274	Biscaya	ml						455	455	880
3794	BotaniGard WP	gram		220	312		155	375	1062	2696
3845	Bruspray Acid	ml								14700
3205	Conserve	ml			800	300	500	270	1870	2170
3279	Floramite	ml		45		70	100		215	540
3798	Geoxe 50 WG	gram			25	140	110	160	435	645
990675	Hypoaspis miles / Stratiolaelaps Scimitus	number		250000		375000	625000	250000	1500000	3500000
3313	Kibril Bladglans	ml		500					500	500
3796	La Blanch Witvast	gram								600000
3289	Milbeknock	ml								1410
3277	Mospilan SG	gram								455
3315	Movento SC 100	ml								25
3785	NeemAzal T/S	ml		1650	1650		1800	1800	6900	15060
3821	Nissorun 250 SC (liquid)	ml		50			75		125	265
3065	Pirimor G	gram		125	50		20		195	557
3328	Sluxx	gram		100					100	100
990515	Steinernema feltiae	number			500000000			500000000	1000000000	1015000000
3312	Steward	gram			15				15	15
3101	Sulphur for burning	gram		900					900	2210
3293	Teppeki	gram					20		20	77
3367	Triunum-G	gram		14000	14392	9600	26680		64672	138772
3251	Vertimec	ml								1303

WATER

21	Total irrigation	m3		834	834	834	834	834	4170	4170
22	Drainage water disposed	m3								2919
23	Reused drainage water	m3		417	417	417	417	417	2085	7923

ENERGY

1	Gas consumption	m3		23108	40483	41170	59704	85802	250267	607668
---	-----------------	----	--	-------	-------	-------	-------	-------	--------	--------

OVERVIEW RECORDED DATA (Continued)

MPS company number: **910179/01**
 Company name: Gartneriet Svend Erik Nielsen ApS (total)

Valid: Period 1-2020 until Period 13-2020
 Version: 1/27/2021

Code	Description	Unit	Period 8	Period 9	Period 10	Period 11	Period 12	Period 13	Subtotal	Year total
------	-------------	------	-------------	-------------	--------------	--------------	--------------	--------------	----------	------------

ENERGY (Continued)

2	Conversion factor		1	1	1	1	1			
3	Caloric value		1	1	1	1	1			
4	Electricity usage (Total)	kWh	21382	24871	86937	135474	147553		416217	864149
6	Green Electricity Usage	kWh	10691	16912	55639	86703			169945	488096
8	Returned electricity	kWh	48300	91638	39024	66255	123576		368793	840542

LIGHTING

550023	HP-Na 600W 400V EVSA	Hour		41	128	238	260			
		Number		138	736	736	736			
		kWatt								

FERTILIZERS

513	Ammonium nitrate	kg	42	50	27	15	30		164	424.2
545	Calcium nitrate (nitrate o	kg		50					50	62.12
552	Copper sulphate	kg	0.107	0.125	0.071	0.036	0.072		0.411	1.073
640	Dolomit kalk	kg	27.6	27.55		23.04	27.6		105.79	197.685
376	Ferrous chelate HEEDTA 4 %	litre	6.5	8.25	4.5	2	4		25.25	67.338
638	Kalk	kg	196.2	202	319	409.8	376.15		1503.15	3350.47
572	Magnesium nitrate	kg								32.74
516	Magnesium sulphate	kg	21	26.3	16.5	4.5	9		77.3	194.4
575	Manganese sulphate	kg	1.284	1.328	0.852	0.432	0.864		4.76	13.675
666	Micromax	kg	3.5	3.59	4.7	6.67	5.87		24.33	53.065
420	NPK 12+6+20	kg	47.59	48.9	63.67	89.95	80.08		330.19	720.309
413	Phosphoric Acid 75%	litre	22.2	25.2	14.2	8	16		85.6	224.42
537	Potassium nitrate (13+0+45)	kg	143	168	97	46	92		546	1489.174
539	Potassium sulphate	kg								10.74
414	Salpeter syre 62%	litre	88.1	82	64	34	70		338.1	874.5
582	Sodium molybdenum	kg	0.027	0.032	0.016	0.011	0.022		0.108	0.287
941	Solubor DF 18	kg	0.166	0.176	0.103	0.063	0.126		0.634	1.666
596	Superphosphate	kg	22.15	22.73	30.5	40.98	38.73		155.09	340.57
604	Zinc sulphate	kg	0.325	0.361	0.21	0.115	0.23		1.241	3.266

ENVIRONMENTAL CLUSTERS

	Indoor crops									
4064	POT PLANTS 4	m2	1140	2280	2260	1160	1160	1160		
4065	POT PLANTS 5	m2	2900	5800	5500	2680	2680	2680		

OVERVIEW RECORDED DATA (Continued)

MPS company number: **910179/01**
 Company name: Gartneriet Svend Erik Nielsen ApS (total)

Valid: Period 1-2020 until Period 13-2020
 Version: 1/27/2021

Code	Description	Unit	Period 8	Period 9	Period 10	Period 11	Period 12	Period 13	Subtotal	Year total
Indoor crops										
4067	POT PLANTS 7	m2	3620	7240	7420	4080	4080	4080		
4068	POT PLANTS 8	m2	6240	12480	12620	5980	5980	5980		
Subtotal			13900	27800	27800	13900	13900	13900		
Certified parental material										
661	MPS-ABC certif.parental mat. indoor	m2	2000	4000	8820	6580	6580	6580		

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

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? No
 3904 What is the minimum depth of the groundwater on all your fields? >= 15 metres / >= 49,2 feet
 3905 What is the lowest percentage of organic matter of your soil on all your fields of this location? 1,5 - 3%

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 is the percentage of light-reduction? 85 till 95%

CO2

3953 Do you apply CO2? No

Substrate

3957 Do you cultivate cutflowers on substrate? No

OVERVIEW RECORDED DATA (Continued)

MPS company number: **910179/01**
Company name: Gartneriet Svend Erik Nielsen ApS (total)

Valid: Period 1-2020 until Period 13-2020
Version: 1/27/2021

GENERAL INFORMATION FORM

MPS-OEX

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 diffuse screens on 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: **910179/01**
 Company name: Gartneriet Svend Erik Nielsen ApS (total)

Valid: Period 1-2020 until Period 13-2020
 Version: 1/27/2021

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

3176	Aliette	gram	120	300	125		100			645
990673	Amblyseius / Neoseiulus californicus	number	10000	50000	120000	50000	50000	10000	25000	315000
3140	Amistar	ml			20	80			50	150
3847	Azatin EC	ml								
3364	BioGlans	ml		2000	1000	1250	2000	500	2000	8750
3274	Biscaya	ml				100			325	425
3794	BotaniGard WP	gram	253	126	430	430	198	198		1635
3845	Bruspray Acid	ml	2900	1600	2000	4000	3000	1200		14700
3205	Conserve	ml						300		300
3279	Floramite	ml					280		45	325
3798	Geoxe 50 WG	gram	20	40	20	50	50	20	10	210
990675	Hypoaspis miles / Stratiolaelaps Scimitus	number	250000		250000	500000		750000	250000	2000000
3313	Kibril Bladglans	ml								
3796	La Blanch Witvast	gram			425000		175000			600000
3289	Milbeknock	ml		1210			200			1410
3277	Mospilan SG	gram		455						455
3315	Movento SC 100	ml							25	25
3785	NeemAzal T/S	ml	800	1660	1350	1350	1500	1500		8160
3821	Nissorun 250 SC (liquid)	ml					140			140
3065	Pirimor G	gram			25			237	100	362
3328	Sluxx	gram								
990515	Steinernema feltiae	number		5000000	5000000	5000000				15000000
3312	Steward	gram								
3101	Sulphur for burning	gram							1310	1310
3293	Teppeki	gram		57						57
3367	Trianum-G	gram	9600	9800	14360		16140	10000	14200	74100
3251	Vertimec	ml			120	843	240		100	1303

WATER

21	Total irrigation	m3								
22	Drainage water disposed	m3	417	417	417	417	417	417	417	2919
23	Reused drainage water	m3	834	834	834	834	834	834	834	5838

ENERGY

1	Gas consumption	m3	61520	69324	62213	55883	50185	29363	28915	357403
---	-----------------	----	-------	-------	-------	-------	-------	-------	-------	--------

OVERVIEW RECORDED DATA (Continued)

MPS company number: **910179/01**
 Company name: Gartneriet Svend Erik Nielsen ApS (total)

Valid: Period 1-2020 until Period 13-2020
 Version: 1/27/2021

Code	Description	Unit	Period 1	Period 2	Period 3	Period 4	Period 5	Period 6	Period 7	Subtotal
------	-------------	------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	----------

ENERGY (Continued)

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	166046	123677	72761	22163	22108	20300	20877	447932
6	Green Electricity Usage	kWh	121639	89288	64116	4057	15969	10556	12526	318151
8	Returned electricity	kWh	5091	55264	45757	93199	95463	116966	60009	471749

LIGHTING

550023	HP-Na 600W 400V EVSA	Hour	302	214	104	1	1	1	1	
		Number	736	736	736	1	1	1	1	
		kWatt								

FERTILIZERS

513	Ammonium nitrate	kg	35.4	15	42.4	42	50	30	45.4	260.2
545	Calcium nitrate (nitrate o	kg	4.04		4.04				4.04	12.12
552	Copper sulphate	kg	0.095	0.036	0.113	0.107	0.125	0.072	0.114	0.662
640	Dolomit kalk	kg			27.455		36.84		27.6	91.895
376	Ferrous chelate HEEDTA 4 %	litre	7.069	2.126	7.334	6.909	8.25	4	6.4	42.088
638	Kalk	kg	318.8	147	384.12		398.48	228.72	370.2	1847.32
572	Magnesium nitrate	kg	15		15				2.74	32.74
516	Magnesium sulphate	kg	21.8	4.5	21	21	26.3	9	13.5	117.1
575	Manganese sulphate	kg	1.264	0.589	1.793	1.749	1.328	0.864	1.328	8.915
666	Micromax	kg	4.7	2.45	5.99		6.335	3.46	5.8	28.735
420	NPK 12+6+20	kg	63.67	32.83	81.67		86.5	46.364	79.085	390.119
413	Phosphoric Acid 75%	litre	18.54	8	23.54	22.2	25.2	16	25.34	138.82
537	Potassium nitrate (13+0+45)	kg	133.71	48.104	155.67	201.83	168	92	143.86	943.174
539	Potassium sulphate	kg	3.58		3.58				3.58	10.74
414	Salpeter syre 62%	litre	79.4	28	93.5	88.1	102	56	89.4	536.4
582	Sodium molybdenum	kg	0.023	0.011	0.029	0.027	0.032	0.022	0.035	0.179
941	Solubor DF 18	kg	0.124	0.063	0.177	0.166	0.176	0.126	0.2	1.032
596	Superphosphate	kg	30.5	14.7	39.48		41.84	20.76	38.2	185.48
604	Zinc sulphate	kg	0.272	0.115	0.351	0.325	0.361	0.23	0.371	2.025

ENVIRONMENTAL CLUSTERS

	Indoor crops									
4064	POT PLANTS 4	m2	1240	1280	1200	1180	1120	1140	1140	
4065	POT PLANTS 5	m2	2990	2920	2840	3000	3140	2900	2900	

OVERVIEW RECORDED DATA (Continued)

MPS company number: **910179/01**

Valid: Period 1-2020 until Period 13-2020

Company name: Gartneriet Svend Erik Nielsen ApS (total)

Version: 1/27/2021

Code	Description	Unit	Period 1	Period 2	Period 3	Period 4	Period 5	Period 6	Period 7	Subtotal
Indoor crops										
4067	POT PLANTS 7	m2	3350	3560	3340	3420	3560	3620	3620	
4068	POT PLANTS 8	m2	6320	6140	6520	6300	6080	6240	6240	
Subtotal			13900	13900	13900	13900	13900	13900	13900	
Certified parental material										
661	MPS-ABC certif.parental mat. indoor	m2	1	1	1	1	1	1	1	

CO2 Indicator

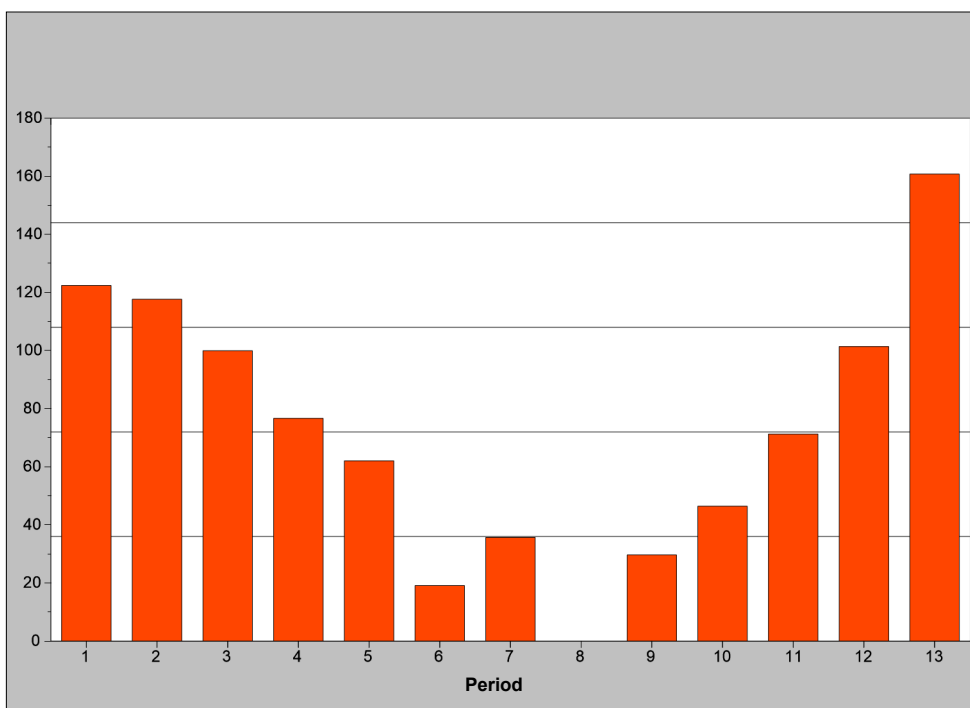
MPS company number: **910179/01**
Company name: Gartneriet Svend Erik Nielsen ApS

Valid: Period 1-2020 until Period 13-2020
Version: 1/27/2021

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

Code		CO2 production (x 1000)
1	Gas consumption	1090
4	Electricity usage (Total)	266
6	Green Electricity Usage	-150
8	Returned electricity	-263
Total		943

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.