

Energy management plan 2020

site	scope	topic	detail	target value (related to site)	unit	value (ton CO ₂)	responsible	result value	unit'	value (ton CO ₂)'	annotation
WIL	3	new quay	constructing new quay	yes			project manager				Works started beginning of 2019. Not completed yet. 2020 delay due to Covid-19 and unmapped gas pipe.
G	3	ECO Design	reduction of needed amount of steel and paint or substitution of aluminium			1500	engineering manager	598,8	tons	832	Hampered data gathering due to absence management responsible. To be updated.
SPB	1	electricity: replacing generators	expanding electrical installation to replace generators in dock	50.000	L	160	director SPB	no exact data			Shift from scope 1 fuel oil to scope 2 electricity, which is 100% green.
IEM	2	electricity: wind turbine	placing of Eneco wind turbine	yes			director IEM				Study completed. Permit OK december 2019 > appeal december 2020 > appeal december 2021. Remark: Switch from purchase to own production, no CO2 savings as the switch is from solar to wind. But this means the total production of green energy enlarges, and thus is available for other consumers.
WIL	2	electricity: wind turbine	study wind turbine Balen	under investigation			director WIL				investigation ongoing by Enenco
new	WIL	1	heating: geothermal energy	study geothermal energy Balen	under investigation		director WIL				
SPB	2	electricity: wind turbine	study wind turbine Hoboken	under investigation			director SPB				investigation ongoing by Eneco
SPB	2	electricity: solar panels	study solar panels Hoboken	under investigation			director SPB				investigation ongoing. Not on roof as structure is not suited. Currently investigating wall mounted panels.
new	SPO	2	electricity: green supplier	study possibility green supplier Poland	2.500.000	kWh	1315	director SPO			search for 100% green and local electricity * Zary and Niemodlin 01/01/2021 * Leknica 01/01/2022
SPU	2	electricity: green supplier	study possibility green supplier UK	2.000.000	kWh	1052	director SPU	3320546	kWh	1747	search for 100% green and local electricity * 01/03/2020
new	IEM	2	electricity: measuring is knowing	detailed study of energy use	yes		technician electrical automation	yes			Study with Siemens devices ongoing 2020: system installed
new	WIL	2	electricity: measuring is knowing	detailed study of energy use	yes		technician electrical automation	yes			Study with Siemens devices ongoing 2020: system installed
	SPB	2	electricity: measuring is knowing	detailed study of energy use	yes		technician electrical automation	yes			Sensorfact measuring devices installed October 2019. Not working properly. Only measuring current, not voltage. So no calculation of cosp. New study with Siemens devices ongoing. 2020: system installed
new	SPO	2	electricity: measuring is knowing	detailed study of energy use	yes		technician electrical automation				Study with Siemens devices ongoing
new	G	1 + 2 + 3	Tennet HKN/HKW project	project with award advantage * calculate project scope 1-2 emissions * keep Environmental Cost Indicator under 9.000.000 €	yes		project ECI manager				Keeping the ECI under 9.000.000 € does not count as a "reduction". But a lot of possibilities will be ruled out to keep the cost under this threshold. A number for "avoided emissions" compared to a normal project will be recorded.
new	WIL	1	heating: insulation	Asbestos removal and roof insulation hall E B	yes		director WIL	yes			
new	WIL	1 + 2	heating + electricity	automated control of welding fume filtration hall E + F	tbd		technician electrical automation	73938	kWh		green energy savings = more green energy available for "the market"
new	IEM	1 + 2	heating + electricity	automated control of painting hall extraction system	tbd		technician electrical automation	1260000	kWh		green energy savings = more green energy available for "the market"
new	IEM	2	electricity: efficient use	upgrade plasma cutter	tbd		director IEM	yes			
new	G	3	transport of employees: electric cars	add to car policy: charge point squating	yes		Financial director				
new	G	1	transport of employees: electric cars	study electric car lease program	under investigation		Financial director	yes			study performed, new full electric car policy by Q4 2021
new	WIL	3	transport of employees: electrical bikes	additional charging points for electrical bikes	yes		director WIL	yes			
new	SPO	1 + 2	various	renovation plan Niemodlin: lighting, heating, insulation (wall panels, skylights)	yes		director SPO				As there is no historic data available, it is not possible to calculate savings from these actions.

Reduction target scope 1/2 :	2527	ton CO ₂ / year	Realized reduction:	1747	ton CO ₂ / year
	22,84%	% of 2019		15,79%	% of 2019

Reduction target scope 3 :	1500	ton CO ₂ / year		832	ton CO ₂ / year
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Energy management plan 2021

site	scope	topic	detail	target value (related to site)	unit	value (tons CO ₂)	responsible	result value	unit'	value (tons CO ₂)'	annotation
WIL	3	new quay	constructing new quay	yes			project manager				Works started beginning of 2019. Not completed yet. 2020 delay due to Covid-19 and unmapped gas pipe.
G	3	ECO Design	reduction of needed amount of steel and paint or substitution of aluminium	750	tons	1500	engineering manager				
IEM	2	electricity: wind turbine	placing of Eneco wind turbine	yes			director IEM				Study completed. Permit OK december 2019 > appeal december 2020 > appeal december 2021. Remark: Switch from purchase to own production, no CO ₂ savings as the switch is from solar to wind. But this means the total production of green energy enlarges, and thus is available for other consumers.
WIL	2	electricity: wind turbine	study wind turbine Balen	under investigation			director WIL				investigation ongoing by Eneco
WIL	1	heating: geothermal energy	study geothermal energy Balen	under investigation			director WIL				
SPB	2	electricity: wind turbine	study wind turbine Hoboken	under investigation			director SPB				investigation ongoing by Eneco
SPB	2	electricity: solar panels	study solar panels Hoboken	under investigation			director SPB				investigation ongoing. Not on roof as structure is not suited. Currently investigating wall mounted panels.
SPO	2	electricity: green supplier	green supplier Poland	3.500.000	kWh	1841	director SPO				search for 100% green and local electricity * Zary and Niemodlin 01/01/2021 * Leknica 01/01/2022
SPO	2	electricity: measuring is knowing	detailed study of energy use	yes			technician electrical automation				Study with Siemens devices ongoing
G	1 + 2 + 3	Tennet HKN/HKW project	project with award advantage * calculate project scope 1-2 emissions * keep Environmental Cost Indicator under 9.000.000 €	yes			project ECI manager				Keeping the ECI under 9.000.000 € does not count as a "reduction". But a lot of possibilities will be ruled out to keep the cost under this threshold. A number for "avoided emissions" compared to a normal project will be recorded.
G	3	transport of employees: electric cars	add to car policy: charge point squatting	yes			Financial director				
SPO	1 + 2	various	renovation plan Niemodlin: lighting, heating, insulation (wall panels, skylights)	yes			director SPO				As there is no historic data available, it is not possible to calculate savings from these actions.
new	G	1 + 2	CO ₂ neutral plan	draft an energy transition plan to achieve CO ₂ neutrality by 2035	31/12/2022		senior MT member				
new	G	3	transport of employees: electric cars	draft full electric car policy	31/12/2021		Financial director				
new	G	3	sustainable purchasing	sustainable purchasing policy	31/12/2022		director Logistics				
new	G	3	Moonshot Project	participate in workgroups as part of the project circular offshore wind sector	31/12/2022		QHSE manager				
new	G	3	SteelZero	endorse SteelZero commitment regarding sustainable purchasing of steel	31/12/2021		director Logistics				
new	SPB	2	electricity: efficient use	replace air compressors			director SPB				
new	WIL	2	electricity: efficient use	applying lessons learned from monitoring to new ventilation system blasting and painting hall B	yes		technician electrical automation				
new	WIL	1	heating: insulation	Asbestos removal and roof insulation hall E	yes		director WIL				

Reduction target scope 1/2 : 1841 ton CO₂ / year
15,47% % of 2020

Reduction target scope 3 : 1500 ton CO₂ / year

Realized reduction: ton CO₂ / year
% of 2020

ton CO₂ / year