

Kverneland Group Ravenna S.r.l.

1. Outline

Address	Via A. De Gasperi 34, 48026 Russi (RA) – Italy
Number of employees	152 (Dec, 2020)
Site area	30,000m ²
Establishment day	1922
ISO14001 certification date	-
Site overview	Manufacturing Round Balers, Bale Wrapper Combinations, Bale Wrappers Choppers and Rotary Tillers.



2 . Products

Main products
•Round Balers



3 .Environmental policy

1. The Kubota Group aspires to create a society where sustainable development is possible on a global scale.
2. The Kubota Group contributes to the conservation of global and local environments through its environmentally friendly operations, products, and technologies.

•Bale Wrappers



4.Environmental performance data (Jan. 2020 to Dec. 2020)

Used amount of energy	Crude oil equivalent KL	1,166
Used amount of water	thousand m ³	13

CO₂ emission*	tons CO ₂ e	1,858
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*CO₂ emissions from energy sources.

Air Pollutant measurement results				
Main smoke and soot generation facilities		No smoke and soot generating facilities		
	Unit	Control content	Control value	Maximum measured
SOx	-	-	-	-
NOx	-	-	-	-
Particulate	-	-	-	-

Amount of discharge water	thousand m ³	11	
Amount of pollutant in discharge water	COD	kg/year	722
	Nitrogen	kg/year	6
	Phosphorus	kg/year	55

Water pollutant measurement results				
		unit	Control value	Maximum measured
Public water areas	pH	-	-	-
	BOD	mg/L	-	-
	COD	mg/L	-	-
	Nitrogen	mg/L	-	-
	Phosphorus	mg/L	-	-
	Hexavalent chromium	mg/L	-	-
	Lead	mg/L	-	-
	COD, total emission control	kg/day	-	-
	Nitrogen, total emission control	kg/day	-	-
Phosphorus, total emission control	kg/day	-	-	
Sewerage lines	pH	-	5.5 – 9.5	6.0, 8.8
	BOD	mg/L	250	34
	COD	mg/L	500	59
	SS	mg/L	200	2

Waste discharge	tons	186
Recycling ratio	%	83.5%

VOC emission	tons	0.0
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• Choppers and rotary tillers



5.Environmental Topics

1. Waste reduction: Reuse and recycle. Creation of a circular economy. Implementing separate waste collection in all production departments, as well as in offices (Respecting 5S colour standards) **【Photo 1 - 2】**
2. Energy saving: stopping manufacturing machines while not in use, LED lighting.
 - > Installed LEDs throughout the plant (outdoor area) - full replacement inside by 2022 planned **【Photo 3 - 4】**
 - > Introduced sensors for automatic light switching **【Photo 5】**
3. Wastewater management: annual analysis of discharge water.
 - > installation of localised meters to identify water consumption by individual production department > installation of photocells for taps to avoid wasting water **【Photo 6】**
4. Water saving: installation of localised meters to identify water consumption by individual production department and installation of photocells for taps to avoid wasting water
5. Detailed monitoring of annual trends for each type of waste **【Photo 7】**



【Photo 1】



【Photo 2】



【Photo 3】



【Photo 4】



【Photo 5】



【Photo 6】

6.Environmental Communication

1. Energy awareness training to employees
2. Training on proper waste disposal. Refined disposal in order to recover as much waste as possible.

【Photo 7】

[kg]	080111 Waste paints and varnishes (hazardous VOCs)	080112 Waste paints and varnishes	080120 Sospensioni acquose contenenti pitture e vernici	080318 Toner per stampa esauriti	110110 Sludge and filtration residues	120101 Ferrous filings and shavings	120102 Polveri e particolato di materiali ferrosi	120115 Processing sludge	120116 Residui di materiale di sabbatura	120301 Soluzioni acquose di lavaggio	130205 Oli minerali per motori, ingrassaggi e lubrificazione	140603 Solventi e miscele di solventi	150101 Paper and cardboard packaging	150102 Plastic packaging
1° SEMESTRE 2018	1721	10067	-	-	2628	189460	1437	23520	-	-	-	4159	25360	10640
2° SEMESTRE 2018	934	8565	452	43	1713	203940	368	17961	-	66280	-	3523	18580	8180
1° SEMESTRE 2019	482	8002	-	-	1130	182700	338	18137	534	25580	1900	2224	16140	3780
2° SEMESTRE 2019	585	3629	-	21	2064	213200	140	6567	166	-	-	2081	20920	8240
1° SEMESTRE 2020	-	5367	-	-	1928	213920	-	12696	254	29860	-	-	16460	7920
2° SEMESTRE 2020	240	4260	-	35	1180	211240	-	15640	460	28660	-	-	15100	5640
	-13,95%	-42,32%			-44,90%	+111%		-66,50%					-59,54%	-53,01%

[kg]	150103 Wooden packaging	150106 Mixed material packaging	150110 Packaging containing hazardous residues	150111 Imballaggi metallici contenenti matrici solide porose pericolose	150202 Absorbents, filter materials, rags (contaminated with hazardous substances)	150203 Assorbenti, materiali filtranti, stracci	160119 Plastica	160120 Vetro	160213-4 Apparecchiature fuori uso	170405 Iron and steel	170407 Metalli misti	170904 Rifiuti misti dell'attività di costruzione e demolizione	170411 Cavi	200121 Tubi fluorescenti ed altri rifiuti con mercurio
1° SEMESTRE 2018	80280	20920	3326	7	256	1563	-	1319	228	169640	-	-	256	36
2° SEMESTRE 2018	50880	12880	4564	30	60	1605	-	-	246	35400	-	780	-	31
1° SEMESTRE 2019	35640	9480	3790	-	113	1210	-	-	-	74440	-	-	-	-
2° SEMESTRE 2019	44620	13640	148	17	369	990	-	303	158280	3340	-	-	-	
1° SEMESTRE 2020	37160	11620	2603	24	1083	925	-	-	585	25720	-	-	-	18
2° SEMESTRE 2020	36220	8110	1195	-	1060	1460	6780	-	120	47140	-	-	-	-
	-45,12%	-38,77%	-35,93%		-41%					-27,79%				



