

RADICIGROUP SUSTAINABILITY REPORT KEY ELEMENTS 2016 English



Data source: RADICIGROUP SUSTAINABILITY REPORT 2016 - www.radicigroup.com



CHAF

VISION

To be one of the leading chemical groups in the polyamide, synthetic fibres and engineering plastics production chain.

MISSION

To promote the development of our businesses while pursuing our Group values and culture. To pursue our vision by valorising and optimizing our resources, establishing strategic alliances and searching for new markets, including niche markets. To embed sustainability into new product and application development.

VALUES

Putting people at the centre of everything we do, respecting their right to physical and cultural integrity. Efficiency and effectiveness of our management systems to improve our business. Fairness and transparency of our management systems to comply with all applicable laws and regulations. Attention to the needs and expectations of our stakeholders in order to create a feeling of belonging and satisfaction. Reliability of our management and operating systems to ensure the safety of our employees, our community and the environment. Our responsibility as a company for our workers, production sites and communities.

APPLICATIONS

PRODUCTS FOR THE HOME SECTOR



Yarns for curtains, upholstery, carpets and wall-to-wall carpets. Engineering plastics for household appliances and the electrical/electronic sector. Nonwovens for roofing, filtration, furnishings and disposable table tops.

CHAPTER 7

PRODUCTS FOR APPAREL



Yarns for clothing, lingerie, beachwear and sportswear. Nonwovens for protective disposable clothing.

PRODUCTS FOR THE AUTOMOTIVE SECTOR



Engineering plastics for car interiors and engine components. Yarns for car interiors and airbags. Nonwovens for headliners, seatings and airbag covers.

PRODUCTS FOR THE INDUSTRIAL SECTOR



Yarns and engineering plastics for special applications in the industrial sector.

PRODUCTS FOR THE SPORTS SECTOR



Yarns for sportswear. Yarns for sports fields, recreational and domestic indoor and outdoor applications.

RadiciGroup Sustainability Report - Key elements Guidelines for sustainable development





Sustainable social development

Attention to workers' heath and safety Work with customers and suppliers for a sustainable production chain Attention to local territories and communities

RadiciGroup Sustainability Report - Key elements The RadiciGroup context





RadiciGroup Sustainability Report - Key elements RadiciGroup employees

CHAPTER 3



CHAPTER 8

WORKFORCE BY GEOGRAPHICAL AREA*

CHAPTER 1

CHAPTER 2

			2011	2012	2013	2014	2015	2016
n	Total Workforce	Tot	3,364	3,269	3,210	3,047	3,016	3,067
n		М	2,561	2,483	2,404	2,238	2,198	2,250
n		F	803	786	806	809	818	817
n	Italy	Tot	1,716	1,680	1,601	1,599	1,587	1,598
п		М	1,412	1,373	1,301	1,296	1,287	1,297
n		F	304	307	300	303	300	301
n	Rest of Europe	Tot	1,030	980	1,003	1,007	1,029	1,026
п		М	639	602	610	597	596	597
п		F	391	378	393	410	433	429
n	Asia	Tot	26	30	36	42	57	78
n		М	20	24	27	29	44	60
n		F	6	6	9	13	13	18
n	America	Tot	592	579	570	399	343	365
n		М	490	484	466	316	271	296
п		F	102	95	104	83	72	69

TOTAL WORKFORCE BY GENDER - 2016

CHAPTER 6

CHAPTER 5



CHAPTER 7

WORKFORCE BY GEOGRAPHICAL AREA - 2016



*Workforce includes temporary workers and full-time employees

CHAPTER 4

RadiciGroup Sustainability Report - Key elements The RadiciGroup certification pathway





RadiciGroup Sustainability Report - Key elements RadiciGroup's environmental performance







RadiciGroup Sustainability Report - Key elements RadiciGroup's environmental performance



CHAPTER 8

INDICATOR GRI G4-EN15 and EN16

CHAPTER 3

CHAPTER 2

CHAPTER 1



CHAPTER 5

INDEX - TOTAL DIRECT AND INDIRECT GREENHOUSE GAS EMISSIONS IN RELATION TO QUANTITY USED

CHAPTER 4

	2011	2012	2013 _	2014	2015	2016	Δ 3 YEARS	Δ 6 YEARS
t CO ₂ eq.	1.00	0.85	0.71	0.52	0.54	0.49	- 5%	- 51%
	INDICATOR GRI G4-EN21 QUALITY OF EMISSIONS							
		2011	2012	2013	2014	2015	2016	Δ 3 YEARS
t	TOTAL*	527	502	459	240	181	167	- 30.4%

*The substances are: NOx, SOx, POP, VOC, HAP, PM, Other emissions (carbon monoxide)

TOTAL HAZARDOUS SUBSTANCES



CHAPTER 6

CHAPTER 7

RadiciGroup Sustainability Report - Key elements RadiciGroup's environmental performance



CHAPTER ⁻	1 CHAPTE	R 2 CHA	PTER 3	CHAPTER 4	CHAPTER	5 CHAF	PTER 6	CHAPTER 7	CHAPTER 8
<i>NDICATOR G</i> NATER RE	RI G4-EN8 SOURCES								
		2011	2012	2013	2014	2015	2016		0.5% from springs
m ³	TOTAL	91,390,819	85,381,653	86,446,525	90,738,824	88,076,698	88,216,173	0.1%	12.7% from wells
m ³	from acqueduct	155,879	133,188	124,258	116,177	121,449	125,401		
m ³	from springs	415,271	338,693	354,433	339,886	402,969	445,842		
m ³	from wells	11,284,044	12,407,583	12,499,407	11,982,837	11,380,769	11,213,152	8	6.6%
<i>m</i> ³	from rivers/canals	79,535,625	72,502,189	73,468,427	78,299,924	76,171,511	76,431,778	Fro	m rivers/canals
NDEX – W	ATER USAGE IN REL	ATION TO QUANTI	TY PROCESSED	2014	2015	2016	Δ 3 YEARS		4.2%
<i>m³/t</i>	90.82	91.64	91.06	92.91	88.77	89.03	-4.2%	- FUN	t PROCESSED MPARED TO
NDICATOR G NATER SA	RI G4-EN10 VING								2014
						012 201			2016
m ³	Water withdrawn			91,390					88,216,173
m ³	Water recovered			72,326					59,069,440
%	Water saved				79%	91% 86	% 63	% 64 %	67%

RadiciGroup Sustainability Report - Key elements **Our limited-impact products**



CHAPTER 8





MADE USING BIOPOLYMERS MADE FROM RENEWABLE RAW MATERIALS

Radilon® D: PA6.10 engineering plastics Radilon® 6.10: PA6.10 textile yarn dorix® 6.10: PA6.10 staple fibre Radilon® PX: engineering plastics Biofeel: bio-based textile yarns dorix®: bio-based staple fibre Radifloor® PX: bio-based BCF yarns CornLeaf: yarn from polylactic acid-based (PLA) polymer Ingeo[™]

MADE USING RENEWABLE ENERGY SOURCES



Radipol®: PA6, PA6.6 and PA6.10 polymer Radilon®: PA6 and PA6.6 engineering plastics Heramid®: PA6 and PA6.6 engineering plastics Radifloor®: PA6 and PA6.6 BCF yarns Radigreen®: PA artificial grass yarn Radilon® staple fibre®: PA6 staple fibre Radilon®: PA6 and PA6.6 textile yarn



MADE USING RECYCLED RAW MATERIALS

Heramid®: PA6 and PA6.6engineering plastics r-Starlight®: polyester textile yarn r-Radyarn®: polyester textile yarn

COLOURED USING MASS DYEING TECHNOLOGY, SAVING ENERGY AND WATER



Radifloor®: PA6 BCF yarns dorix®: PA6 staple fibre Radilon® staple fibre: PA6 staple fibre Radilon®: PA6 and PA6.6 textile yarn Radyarn®/Starlight®: polyester textile yarn r-Radyarn®/r-Starlight®: polyester textile yarn made from recycled polymers



RECYCLABLE All products

RadiciGroup Sustainability Report - Key elements Value Added and Use of Resources



	CHAPTER 1	CHAPTER 2	CHAPTER 3	CHAPTER 4	CHAPTER	5 CHA	PTER 6	CHAPTER 7	CHAPTER 8	
•		RI G4-EN5 MARY ENERGY CONSUMPTION D NET GLOBAL VALUE ADDED	I (DIRECT+INDIRECT)							
				2011	2012	2013	2014	2015	2016	
	G.J	Total primary energy consumed (GRI G4-EN3)	7.678.029	7 424 198	7 176 375	6 587 001	6 369 900	6.233.316	

€	Net global value added	214,138,613	134,665,154	148,330,284	154,737,323	183,484,576	206,279,587
GJ/€		0.036	0.055	0.048	0.043	0.035	0.030



		2011 -	2012	2013	2014	2015	— 2016
<i>m³/€</i>	Water resources (GRI G4-EN8) related to value added	0.43	0.63	0.58	0.59	0.48	0.43
Kg/€	Waste disposed of without recovery (GRI G4-EN23) related to value added	0.019	0.031	0.031	0.025	0.021	0.020
KCO₂eq/€	Total emissions into the atmosphere (GRI G4-EN15 e G4-EN16) related to value added	4.7	5.9	4.6	3.3	2.9	2.4

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