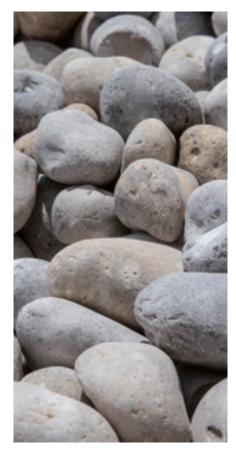
Our responsibility Panariagroup commitment to sustainability

PANARIA group®

Our responsibility

Panariagroup commitment to sustainability











Change is the process by which the **future** invades our lives.

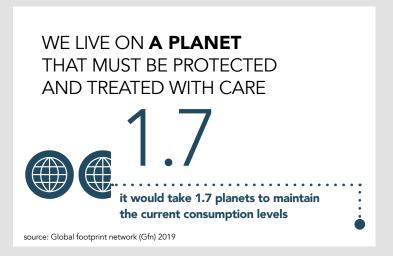
Alvin Toffler

Sustainability is a living, changing principle and the actions that it inspires change with it, turning our company into a better company.

We shape our buildings; thereafter they shape us.

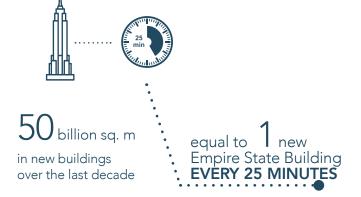
Winston Churchill

WE LIVE IN A RAPIDLY CHANGING WORLD



WE NEED A **PARADIGM** SHIFT

From 2030 designers will be more and more demanding with regards to materials and construction techniques based on their environmental impact. To **build sustainable buildings, the search for innovative materials** is fundamental.

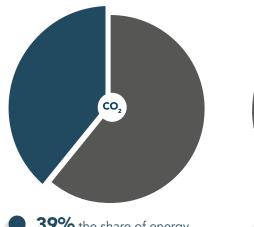


230 billion sq. m equal to 1 new Paris Planned in 40 years EVERY 7 DAYS

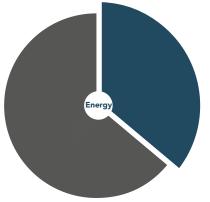
Following the goals set in 2030 Commitment promoted by AIA (American Institute of Architects) source: Global Alliance for Buildings & Construction 2018

WE NEED INNOVATIVE MATERIALS AND NEW TECHNIQUES

The pace of global growth requires to cut greenhouse gas emissions and consume less resources.



■ **39%** the share of energyrelated CO₂ emissions by buildings and construction



36% the share of global final energy use by buildings and construction

WE NEED AWARENESS TO DEVELOP

NEW WAYS OF BUILDING



Consumers are looking for a **new**, **sustainable way of living** that respects quality of life and the environment.

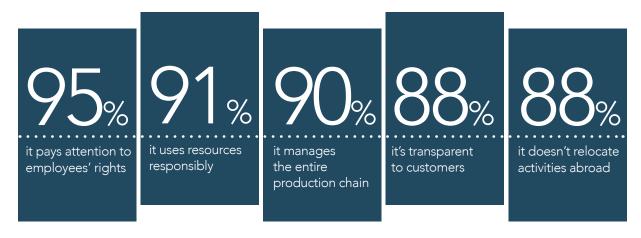


WE NEED **NEW WAYS OF PRODUCING**

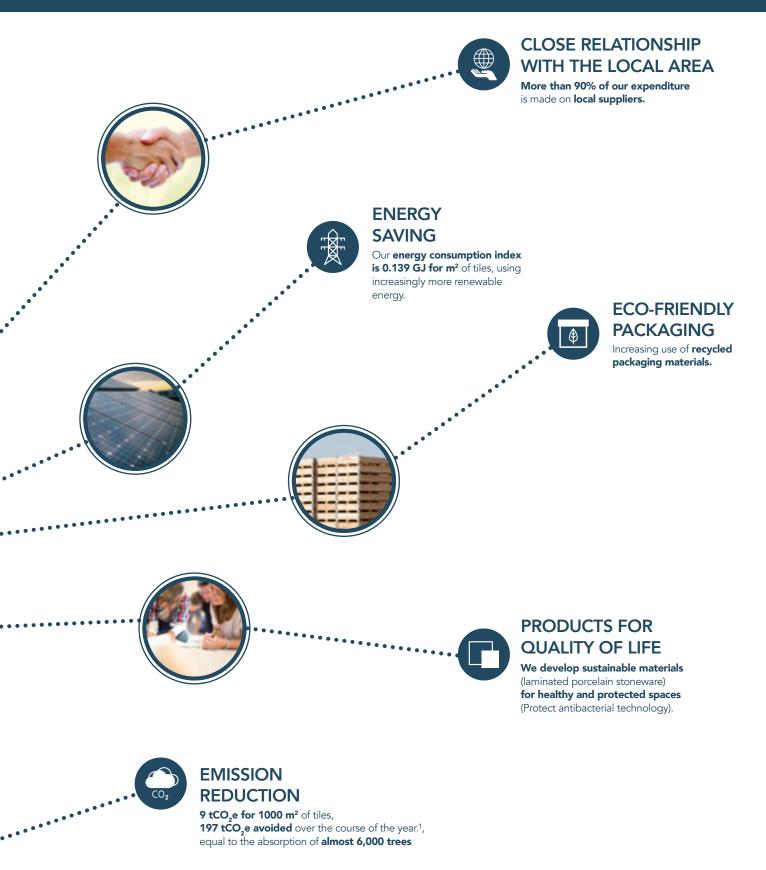


Consumers are looking for companies that are not only **excellent**, but **careful** and **responsible**.

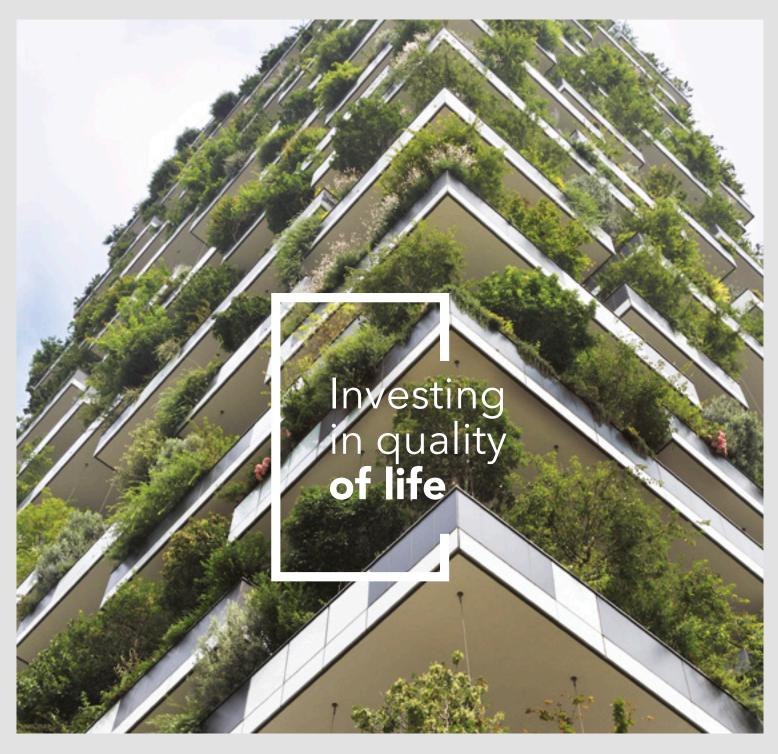
A COMPANY IS CONSIDERED SUSTAINABLE IF...





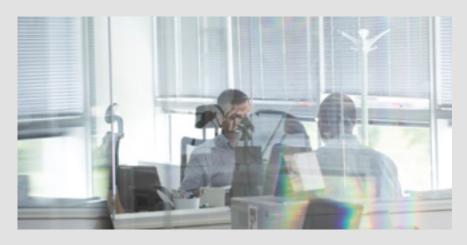


1. In 2019, through the photovoltaic systems installed at the Fiorano Modenese, Finale Emilia and Sassuolo plants, the Group avoided 197 tCO₂e, calculated with Location-based methodology, a 3% increase compared to 2018. To calculate the equivalent number of trees, the potential absorption of a tree (such as a tall tree species) was considered to be between 20 and 50 kgCO₂/year (Source: www.reteclima.it).



Our ceramic excellence combines beauty, quality and sustainability. That's why we have always invested in product innovation to improve the quality of life.







CONTINUOUS INVESTMENTS

IN INNOVATION

 $144.5_{\text{mln euro}}$

invested from 2015 to 2019







Our daily commitment to **reducing our environmental impact** is **critical to our success**. We aim to live in harmony with the environment. The material and energy that we require return to the environment in the form of respect.



LOWER EMISSIONS,

MORE ENERGY SAVING

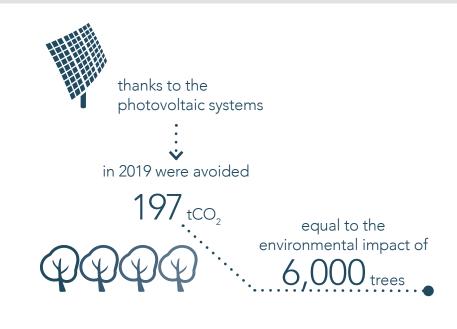


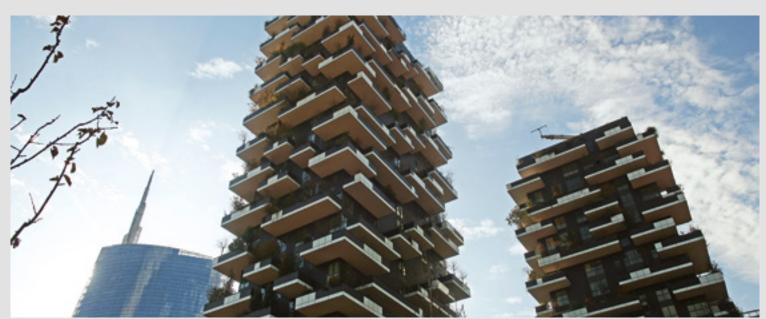
The Group's strongly focuses on **monitoring** and minimising environmental impact, particularly in relation to **energy consumption** and **emissions**.



were emitted per 1,000 m² of tiles









TOTAL RECOVERY OF PRODUCTION WASTE AND LOWER CONSUMPTION OF RAW MATERIALS

Attention to environmental performance concerns all phases of the production cycle, including waste management.

100% RECOVERED WASTE





WASTE MANAGEMENT

94.2%

of waste is recovered (not sent for disposal)



ENVIRONMENTALLY FRIENDLY

PACKAGING

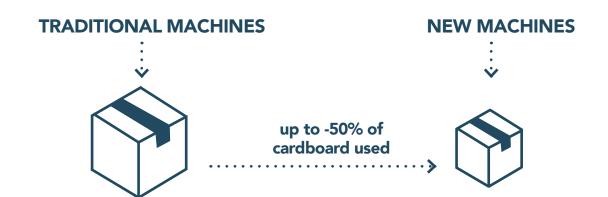
We pay great attention to the **reduction** of environmental impacts of our packagings, investing in efficiency and use of recycled material.



almost 80% of recycled plastic for industrial use

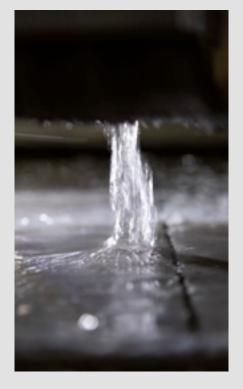
and 70% of recycled paper and cardboard used

In 2019 we introduced new automatic boxing machines **to halve cardboard use**.



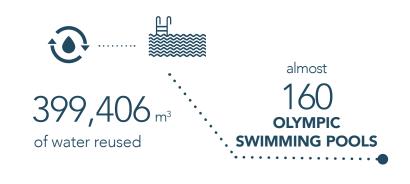


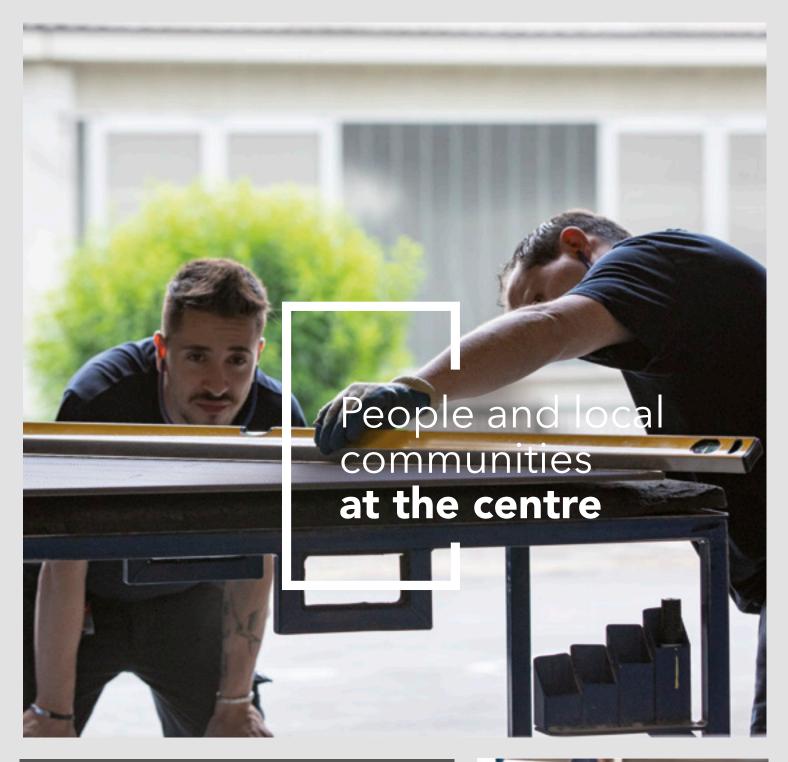




NO WATER WASTAGE

100% of process water is reused, with consequent **very limited intensity on material production**.



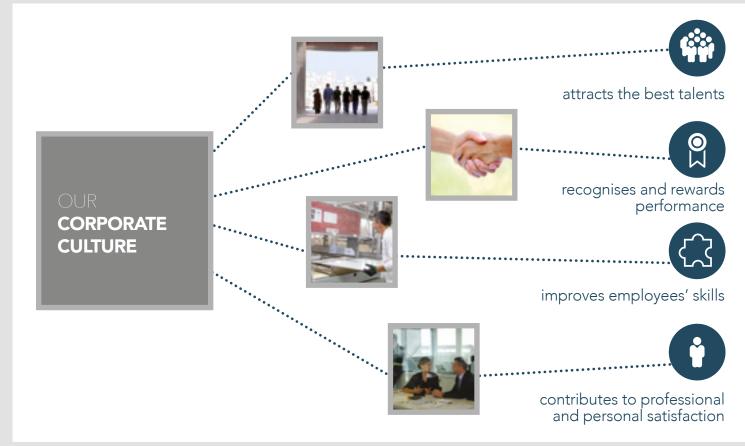


People, their well-being, their growth and their professional development are **key to** Panariagroup's **success**.



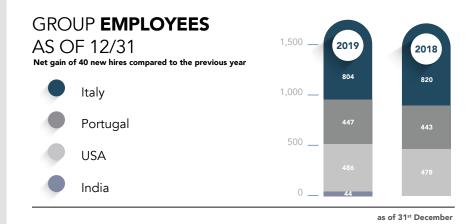












1,781
employees

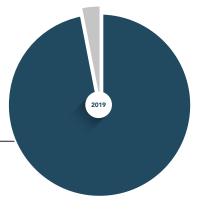


GROUP **EMPLOYEES**BY CONTRACT TYPE AS OF 12/31/19

Permanent contracts guarantee employees more **stability** and greater opportunities for professional growth.

97% Permanent contracts









We believe in collective bargaining as a means of building strong and **long lasting relationship** with our employees.



70%

employees covered by collective bargaining agreements

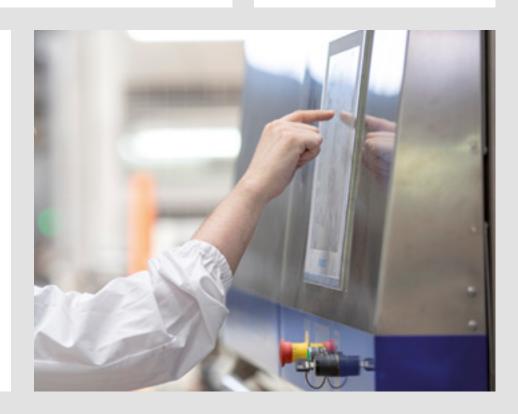
INVESTING ON **TRAINING**

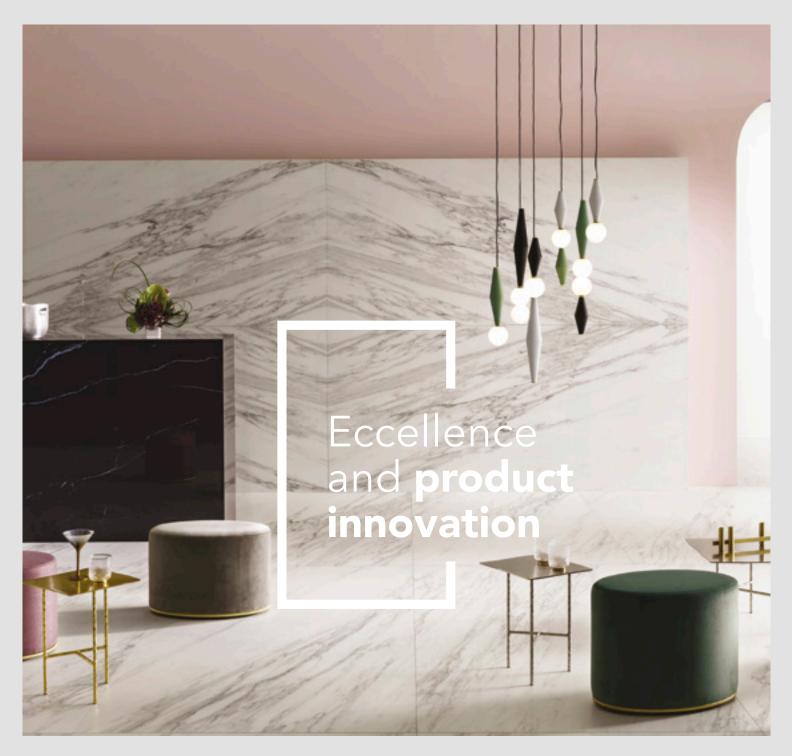
Every year, the Group's companies analyse **training needs** and provide activities on health and safety issues, in addition to those necessary for employees' specific needs.

RELATIONS WITH LOCAL **COMMUNITIES**

For Panariagroup, sustainability also encompasses relations with local communities.

The Group also actively contributes to the growth of local communities through the **selection of local suppliers** as well as participation, donations and sponsorships relating to the development and **improvement of local conditions**.





We've always made ceramic: a totally recyclable and durable product that comes from **natural raw materials** and respects the environment thanks to the reduced impact of the production cycles.



CERAMICS **IDENTIKIT**

COMPOSITION

a mix of natural raw materials.

FEATURES

non-deformable, frost resistant and chemical agents resistant, hypoallergenic and odourless, totally recyclable.

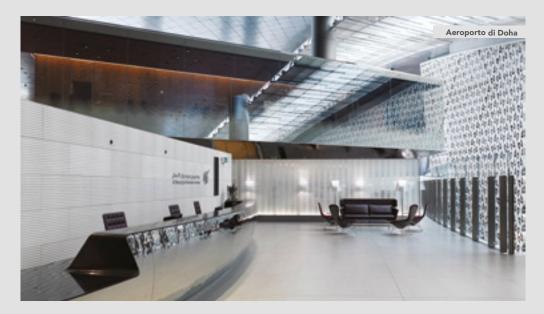
DISTINGUISHING MARKS

it respects the environment starting with the raw materials and low impact production cycles.

LIFE CYCLE

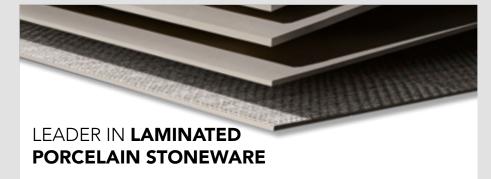
life cycle is estimated to last longer 50 years.

Architects and designers are looking for the best solutions with strict environmental standards. Panariagroup answers to new market requests with excellent products, protagonists of projects all around the world.





Producing innovative ceramics has a deep significance. It is like taking something old and inventing its future every day.



The Group is leader in the production of **laminated porcelain stoneware**, a revolutionary product that we have focused on **for over 10 years**, leading to record sales all over the world and constant innovation capable of reinterpreting and evolving this technology for increasingly ambitious projects.

SUPERIOR QUALITY THIN CERAMIC SLABS





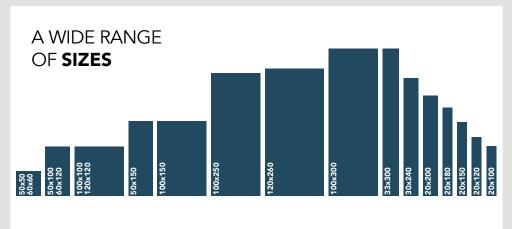




THIN AND RESISTANT

ULTRA-THIN AND ULTRA-RESISTANT WITH FIBREGLASS MESH REINFORCEMENT





LAMINATED PORCELAIN STONEWARE

-65% the consumption of raw material



-30%

the consumption of water



-30% the consumption of energy



-30% CO₂ emissions in atmosphere



-66% pollution cause by transport



The data refers to a 3,5 mm thick product when compared to a 10 mm thick porcelain stoneware tile

PR()TECT

The exclusive Panariagroup technology for antimicrobial floor and wall coverings with the highest performance. To live healthily, safe and secure.

Being able to offer very high-quality antibacterial materials is crucial for responding to **ever more selective specifications** and for meeting end consumers' growing demand for **health-oriented products**. Our leading antibacterial technology guarantees a constant and unalterable protection that improves people's lifestyles..









The technology based on **silver ions**, which is permanently integrated in the tile at the time of firing, blocks the metabolism of bacteria, eliminating them and preventing their proliferation. Consequently:

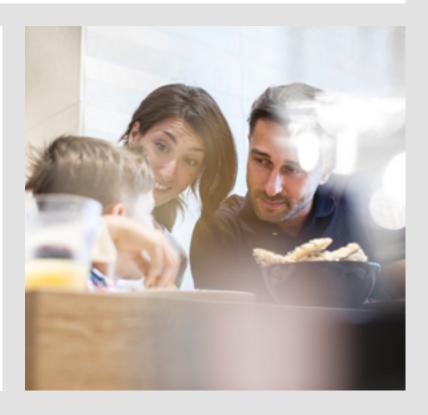
- tiles are more hygienic and easier to clean;
- the technology also eliminates what you cannot see;
- less bacteria, less odours.

A CERTIFIED

QUALITY

Panariagroup's production processes and products have obtained **the most important international certifications**, including the most advanced certifications for sustainable architecture.

In 2019, all of the Panariagroup's collections obtained the **GREENGUARD GOLD** certification, i.e. the UL standard with the strictest VOC emission limits, guaranteeing that that they are as healthy as possible for the people who use and live in these environments. They can therefore be used in locations such as schools and health facilities, attended by sensitive individuals such as children and the elderly. **GREENGUARD GOLD** is a widely recognised certification required by sustainable building programmes and design and construction regulations around the world, such as LEED (international) and BREEAM (UK).



We continuously reaffirm our clear and strong commitment over the years with new and ambitious goals.

We aim to create
aesthetically superior
and highly sustainable products:
products designed to improve
the quality of life.

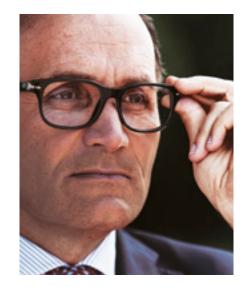
Emilio Mussini President of Panariagroup

Lumi Sml

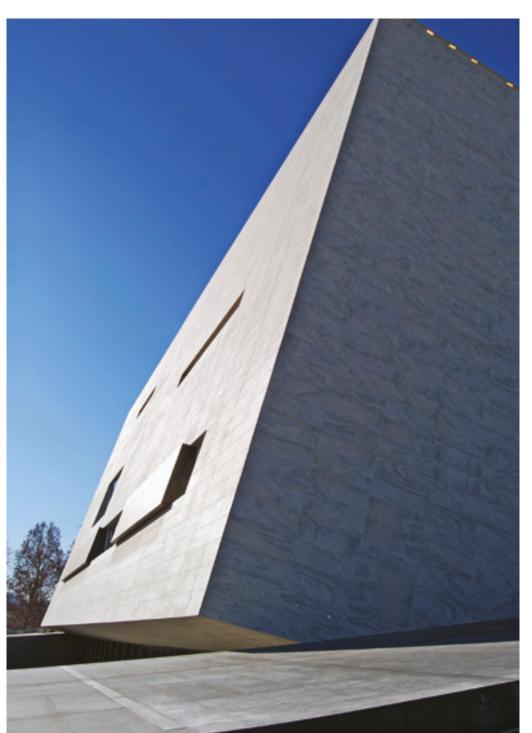
A commitment that we certify and formalise every year in our Sustainability Report in which we illustrate our strategy and our decisions

To read our complete Sustainability Report

panariagroup.it











Results and targets

GROUP PROFILE

Panariagroup is one of the leading producers of ceramic tiles for floor and wall coverings.





HIGHLIGHTS 2019

MILLIONS OF EUROS EBITDA²

31.7: 2018

(5.1):
32.4: 2019

ENVIRONMENTAL

2. As a result of the process of adjustment to the new IFRS 16 – Leases accounting standards (retroactive application using the "full retrospective" method), as of 1 January 2019, the 2018 figures for EBITDA, net profit and net working capital have been restated with respect to those published in the previous Sustainability Report. For the previously published data, see the 2018 Sustainability Report, published in the Sustainability section on www.panariagroup.it.

3. Net of leasing liabilities.

4. The intensity values are calculated based on the $\rm m^2$ of tiles produced during the year, which amounted to 22,751,785 $\rm m^2$ in 2019 and 22,486,526 $\rm m^2$ in 2018.

5. The data relating to the Health and Safety of contractors only include the category of staff leasing workers and not other types of external staff who work at the Panariagroup Group's sites and/or under the Panariagroup Group's control, in view of their significance and of the availability of this data over which the Panariagroup does not exercise direct control.





95: 2018

97: 2019

TRAINING PROVIDED

Hours per capita





ECONOMIC

MILLIONS OF EUROS NET FINANCIAL POSITION³

98.5

105.6

MILLIONS OF EUROS NET WORKING CAPITAL

122.1

127.0

MILLIONS OF EUROS INVESTMENTS

19.2

14.6

EMISSIONS INTENSITY – SCOPE 1 + SCOPE 2 (MARKET-BASED)⁴

0.010

0.010

EMISSIONS AVOIDED – LOCATION BASED

192

197

RAW WASTE RECYCLED IN THE PRODUCTION PROCESS

100

100

SOCIAL

RECORDABLE WORKPLACE ACCIDENT RATE – EMPLOYEES

34.7

. . .

RECORDABLE WORKPLACE
ACCIDENT RATE CONTRACTORS 5

75.9

COMMUNITY SUPPORT

Thousands of euros

263

61.6

241

SUSTAINABILITY **GOALS**

Panariagroup aims to improve its impact on society in economic, social and environmental terms; for this reason, specific sustainability objectives that will be implemented are announced every year. These objectives represent a commitment that the Group makes towards its stakeholders.

BUSINESS ISSUES

GOALS DECLARED IN NFS18	TARGET	PROGRESS
ndustry 4.0: adherence to digitization ncentives (Article 3 of Legislative Decree no. 145 of 23 December 2013, as replaced by Article 1, paragraph 35 of the 2015 Stability Law and amended in the 2017 Budget Law).	2018	Investments were made for the purchase of new machinery. The interconnection of the facilities, a fundamental prerequisite for certifying investment in the "Industry 4.0" program, is planned for 2020 and will determine the achievement of the fiscal target.
•••••	•••••	
Extension of the covered area of the Fiorano Modenese (Italy) plant for the expansion and optimisation of large format slab production.	2019	Work has started and is expected to be completed by 2020.
nstallation of new facilities at the Italian Business Jnit, in particular no. 1 sorting line at the Toano blant, no. 1 sorting line and no. 1 drying room at the Fiorano plant.	2018	Sorting lines for the Toano and Fiorano plants have been installed The construction of the drying room at the Fiorano plant is subject to site expansion work.
		······································
nstallation and launch of a dry-grinding line in the Finale Emilia plant, enabling recovery of powders during the milling of the mix and a consequent reduction in the production of waste (sludge) compared to when using a wet system.	2019	The goal has been achieved.
nstallation and launch of a dry-grinding and polishing line in the Aveiro plant, enabling recovery of powders during the milling of the mix and a consequent reduction in the production of waste (sludge) compared to when using a wet system.	2019	Goal postponed to 2020.



QUALITY AND ENVIRONMENT

GOALS DECLARED N NFS18	TARGET	PROGRESS
Total replacement of fluorescent neon ights with installation of LED and magnetic nduction lighting systems at the Toano plant (Italy) to significantly reduce electricity consumption.	2018	Goal will be completed in 2020.
Partial replacement of fluorescent neon lights and installation of LED and magnetic induction ighting systems in the Ílhavo and Aveiro Portugal) plants to obtain significant electricity eductions.	2019	Goal suspended due to an internal assessment of an organizational nature that led to the choice of different priorities.
Complete removal of asbestos roofing at the Fiorano Modenese (Italy) site and eplacement with eco-friendly materials.	2019	The goal has been achieved.
ntroduction of automatic washing systems or the glaze application machines to educe water consumption at all the Italian olants.	2019	The goal has been achieved.
nstallation of soundproofing systems in the grinding department at the production sites in Portugal and the USA.	2019	The goal has been achieved.
Nork on dust extraction systems to reduce nirborne silica in the Lawrenceburg (USA) plant.	2019	The goal has been achieved.
Partial renovation of roofing in all of he Group's plants, using eco-friendly naterials.	2019	Goal will be completed in 2020.
Campaign to replace lead-acid batteries with ithium batteries, which have a longer life and are ess polluting, for automatic vehicles for handling inished products.	2019	Goal will be completed in 2020.
Progressive elimination of lamination from communication tools.	2019	The goal has been achieved.



HUMAN RESOURCES

•••••		••••••••••••••••••••••••••••••
GOALS DECLARED IN NFS18	TARGET	PROGRESS
Creation of a reward system for employees who distinguish themselves in activities related to environmental protection (an "ecological merit award") in all Business Units.	2019	An "ecological merit award" has been created in the Italian Business Unit. An extension of the foreign Business Units is planned over the next two years.
Improvement of activities to listen to staff in the Italian and US Business Units (e.g. climate analysis, etc.).	2019	An initiative to listen to staff has been created at the Italian business Unit. An extension of the foreign Business Units is planned over the next two years.
Modification and extension of the drinking water distribution service for employees in the Italian Business Unit.	2019	The goal has been achieved.
Structured training plan for the sales force in the Italian Business Unit.	2019	The goal has been achieved.
Improvement of communication channel with employees, through dedicated software in the Italian Business Unit.	2019	Goal will be completed in 2020.



SUPPLY CHAIN

GOALS DECLARED IN NFS18	TARGET	PROGRESS
Introduction of a standardized system to assess new suppliers on the basis of social and environmental criteria, as well as criteria related to human and workers' rights.	2019	The goal has been achieved.
Development of an Impact Assessment and Risk Analysis of social and environmental impact in the supply chain.	2020	Goal confirmed for 2020.





GOALS DECLARED IN NFS18	TARGET	PROGRESS
Improvement of the access control system at the Italian Business Unit's sites, through installation of dedicated IT supports.	2018	The first part of the work has been carried out and is scheduled to continue in 2020.
Installation of a SAP information system to manage all of the Portuguese Business Unit's processes.	2019	The goal has been achieved.
Adaptation to the Italian legislation introducing obligatory "electronic invoicing".	2019	The goal has been achieved.
First-time adoption of the IFRS 16 Accounting Standard in relation to lease and rental contracts.	2019	The goal has been achieved.

NEW GOALS

To confirm its commitment to the advancement of a business model that integrates economic, social and environmental responsibility in all the activities and in all the aspects regarding the Group, Panariagroup, following on from the previous year, has defined **new sustainability objectives**, listed below.



TARGET 2020

- Installation of an innovative technology ("continuous line") in the Finale Emilia (Italy) plant with expected objectives compared to traditional lines of higher productivity, reduced electricity and gas consumption and expansion of the range of sizes that can be produced.
- Installation of a new atomizer in the Finale Emilia (Italy) plant, featuring greater energy efficiency.
- Industry 4.0: installation of a system of plant supervision and interconnection with the production lines in the plants of Finale Emilia and Toano (Italy), Aveiro and Ílhavo (Portugal).
- Purchase of new internal handling machines (LGVs) at the Fiorano
 Modenese plant (Italy), with improved plant utilization,
 an increase in internally processed material and a consequent
 reduction in transport to external suppliers
 and savings in processing costs.
- Installation of new load compensators for the kilns in the Fiorano Modenese (Italy) plant, enabling increased filling of the kilns and consequent higher productivity and reduction of electricity and gas consumption.
- Installation and launch of a dry-grinding and polishing line in the
 Lawrenceburg (USA) plant, enabling recovery of powders during
 the milling of the mix and a consequent reduction in the production of waste (sludge) compared to when using a wet system.
- Installation of a mill to recover fired waste in the Lawrenceburg (USA) plant, with an increase in recoverable fired waste in the mix (up to 8%), reduced raw material consumption, and increased productivity and energy performance of the continuous mill.
- Replacement of compressors at the Lawrenceburg plant(USA) with new, more energy efficient models.

activities carried out in 2019 in the Italian Business Unit.

Creation of Scholarships dedicated to the children of employees in the Italian Business Unit.

Creation of a Solidarity Fund in the Italian Business Unit, with voluntary donations from employees for a specific charitable project.

Establishment of a "Sustainability Award" in the Portuguese Business Unit through an ideas competition open to the staff of Gres Panaria Portugal.

Staff listening initiative in the Portuguese Business Unit, in line with the methods adopted by the Group.



HUMAN RESOURCES

TARGET 2020

- Industry 4.0: achievement of CE line certifications in the plants in
 Finale Emilia and Toano (Italy).
- Inclusion of hybrid cars in the Italian Business Unit's Car Policy.
 - Replacement of 50% of the Portuguese Business Unit's car fleet with hybrid cars.
- Optimisation of the filter dust recovery and treatment system in the Fiorano Modenese plant.
 - Certification of the new MAXA (NSF) large slab line, which is intended for the furnishing accessories segment and designed to be suitable for food contact.

TARGET 2020

Development of stakeholder engagement for customers in the Italian Business Unit.



TARGET 2020

Introduction of a standardized system to assess new suppliers on the basis of social and environmental criteria, as well as criteria related to human and workers' rights in the Portuguese Business Unit.

Development of an Impact Assessment and Risk Analysis of social and environmental impact in the supply chain in the Portuguese Business Unit.





SUPPLY CHAIN

