

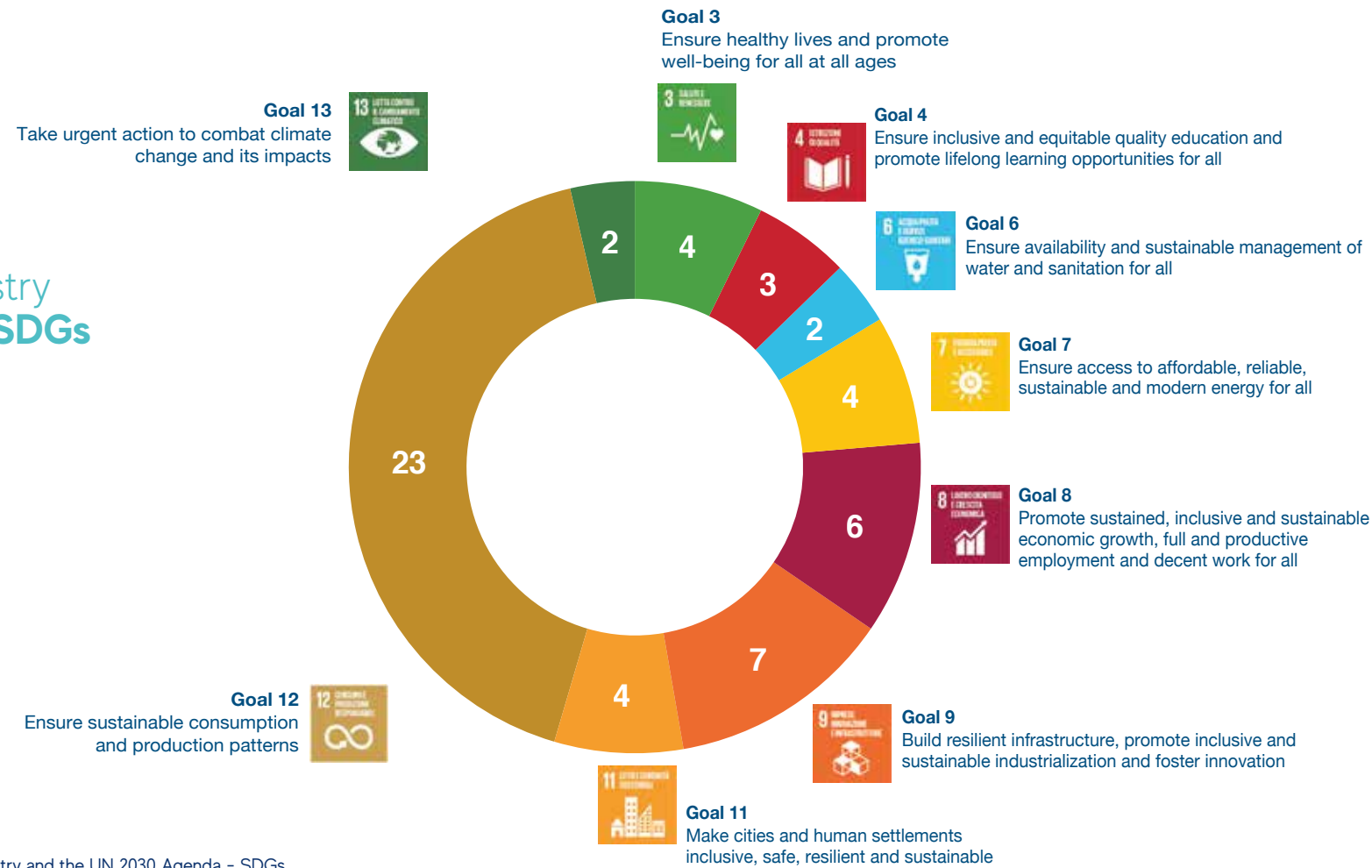


The Italian ceramics industry for the UN 2030 Agenda SDGs

In 2015 the **United Nations** approved the **Global Agenda for Sustainable Development** and its 17 Sustainable Development Goals (SDGs) to be achieved by 2030 (the 2030 Agenda).

The Italian ceramic industry has responded to this cultural challenge by **implementing 55 projects** that include product and process environmental sustainability objectives.

Source:
Confindustria Ceramica - Review The Italian ceramic Industry and the UN 2030 Agenda - SDGs



Ceramics of Italy for Sustainability

Discover more about the sustainability of Italian ceramics.



Italian ceramics are **certified** by the main international bodies.

Certified and independently verified Environmental Product Declaration (EPD), which transparently and objectively expresses the environmental performance of a product throughout its life cycle (LCA-Life Cycle Assessment).

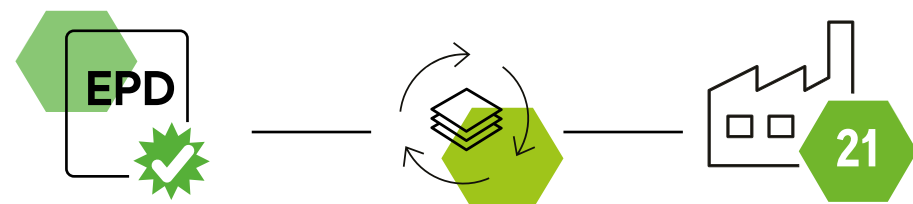


ISO 17889-1
SUSTAINABILITY FOR CERAMIC TILES AND INSTALLATION MATERIALS

The **first international ISO standard** on product sustainability.

Sector-wide EPD

Product-specific EPD: 21 companies



In 2021, the **ISO 17889-1 product standard**, which certifies the **sustainability** of ceramic tiles, was published. Developed following a **life-cycle analysis** approach, it takes into account environmental, economic and social aspects. A product complies with the standard if it obtains a minimum score of 117.5.





Efficiency

56% Coverage of the water requirement with **wastewater recycling** (drastic reduction of water withdrawal from groundwater).

90% **Lead (Pb) and fluorine (F) emissions removed** by sewage treatment plants.

99% **Dust emissions eliminated** with abatement equipment (~65% since 1988).

47% **Energy needs fulfilled** from cogeneration (30 plants).

↓ Digital decoration: **drastic reduction of applied materials** per square meter.

4-6GJ **Energy consumption** per tonne. 10 GJ (GigaJoules) in the '70s, currently 6 GJ.



Recycling

99,9%

Reused production and purification waste within the production cycle (in 1998 it was 89%).

112%

Solid waste average recycling factor (ratio of waste recovered to waste produced). The sector also recovers waste from other sectors.



Distribution

24%

Of supply and distribution flows (more than double the national average) is transported in and out of the District **via trains**.



Research

60%

New products have been developed with high circularity characteristics and a **recycling rate in excess of 60%** (less use of raw materials, reduction of transport impact).

74%

Plants with **energy consumption lower** than the value associated with **BATs** (Best Available Techniques).



Reusage

97%

Sites without process water discharges (with **full reusage**): **reducing the risk of surface groundwater pollution**.

107%

Average water recovery factor (ratio of reused to produced water). The sector also absorbs wastewater of external origin.



Life cycle

Tiles are an inert material produced from **natural raw materials** that are **easy to dispose of** at the end of their life cycle.



WATCH THE VIDEO FOR MORE INFORMATION



Ceramics of Italy for Sustainability

*Earth, water, fire and air...
The essential elements
that make up Italian ceramics.
For thousands of years, the ingredients
have remained unchanged.
The only thing that has evolved is the process,
part of a circular life cycle.
Ceramics take less than an hour to be made,
but last for decades, and can be returned to the earth.
So the legacy of Italian design excellence
can live on for generations to come.*



**DISCOVER MORE ABOUT THE
SUSTAINABILITY OF ITALIAN CERAMICS**



Ceramics of Italy

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