

GROHE THINKING AHEAD.

GROHE HELPS REDUCE BUILDINGS' CARBON EMISSIONS BY COMBINING SEVERAL INNOVATIVE APPROACHES

Nearly 40% of global carbon emissions are building- and construction-related*. As an industry pioneer, GROHE is addressing the problem on different levels to foster the sustainable transformation of the building and construction sector. The sanitary brand helps its clients with transparent data, circular products and resource-efficient technologies to choose solutions which have a positive impact on the footprint of their project.

*European Commission, 2020

1 ENVIRONMENTAL PRODUCT DECLARATIONS (EPD) PRODUCT PASS REPORTS ECOLOGICAL IMPACT

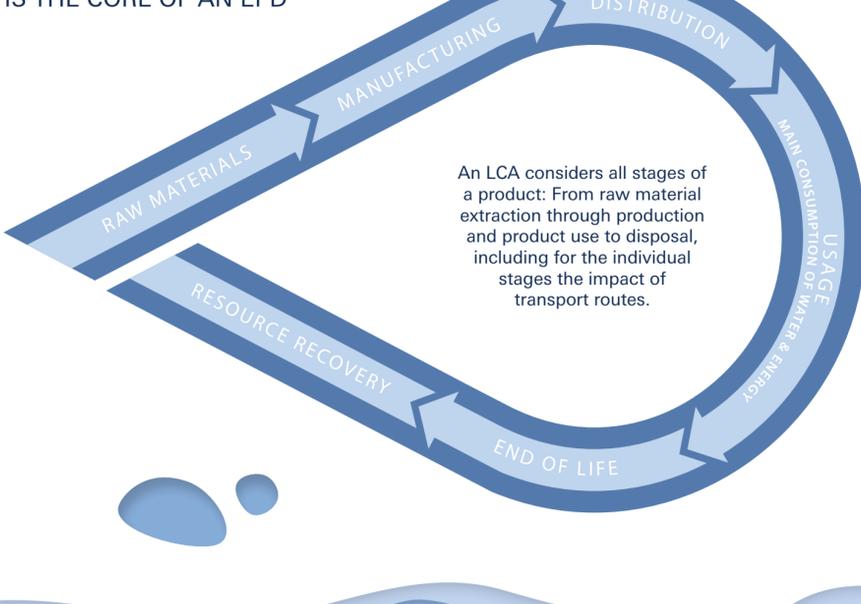
An EPD is a comprehensive, **independently verified** and **registered "product pass"**. It reports **comparable, transparent data** on the entire **environmental life cycle impact** of a product. EPDs comply with ISO 14025 and, for construction products, services and processes, with EN 15804.

Until October 2022 GROHE will release **EPDs for 18 product groups** that cover more than 600 single products. The first batch, now published, includes **basin and kitchen mixers, thermostats and shower rail sets**. The second wave includes **special fittings, hand showers, installation systems and flush plates** will follow.

In providing customers with transparency about the ecological footprint of its products, GROHE helps them to make informed statements about the environmental impact of buildings, which is often a cornerstone for sustainability certifications such as DGNB, LEED or BREEAM, or even a prerequisite for new building permits in many European cities.

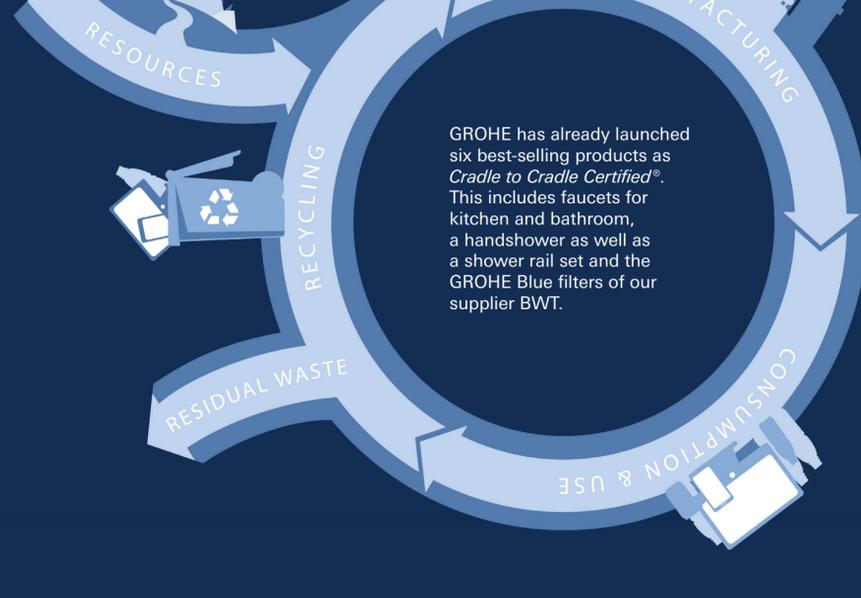


A LIFE CYCLE ASSESSMENT (LCA) IS THE CORE OF AN EPD



2 CRADLE TO CRADLE CIRCULAR ECONOMY AIMS FOR A BETTER WORLD WITHOUT WASTE

Cradle To Cradle Certified® products are designed and manufactured with the intent of using the components in the end-of-life-phase for the creation of new products.



EPD AND CRADLE TO CRADLE® WHAT IS THE DIFFERENCE?

ENVIRONMENTAL PRODUCT DECLARATIONS

Environmental product declarations, which function like a product passport, aid **objective comparisons of the environmental impact** of specific products. As assessed by the European Union, this facilitates the improvement of buildings' sustainability and the reduction of their CO₂ footprints.

CRADLE TO CRADLE®

The *Cradle to Cradle Certified®* product standard is the world's leading science-based, rigorous approach for designing and manufacturing safe, circular and responsible materials and products. To achieve a certification, a product is evaluated in terms of the following five categories: material health, material reutilization, renewable energy, water stewardship, and social fairness. To obtain the certificate, limit values must be met and measurable targets must be achieved.

Each product is then designated a level of achievement: basic, bronze, silver, gold, or platinum.

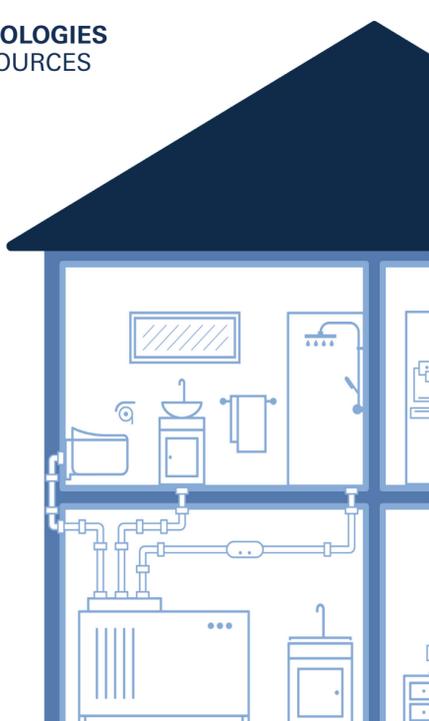
3 GROHE'S SUSTAINABLE TECHNOLOGIES MANY EASY WAYS TO SAVE RESOURCES

There is potential for saving in every building – whether it's water, energy or even toilet paper. GROHE has identified this potential early on, which is why many bathroom or kitchen are equipped with GROHE's future-proof technologies to make saving valuable resources easier than ever.

The integrated flow restrictor in **GROHE's EcoJoy technology**, which is available for numerous shower and faucet models in almost all style and price segments. In the shower, it reduces the water consumption to 9,5l/min and saves up to 50% water at the washbasin. The **GROHE EcoButton** in showers nudges the users towards mindful water usage. **GROHE Touchless Faucets** reduce the water flow by up to 70% while providing sparkling, medium and still water that is improving hygiene. The **GROHE BLUE** system saves around 800 single-use plastic bottles each year* while providing sparkling, medium and still water that is filtered and chilled directly from the kitchen tap – while **GROHE SilkMove ES technology** prevents unnecessary production of hot water by supplying cold water with the faucet lever in the middle position of the fitting: This can save an apartment building with 1,000 units** over 27,000 € per year.

* based on a family of four

** Calculation base: 1,000 apartments with one basin for family of four



FROM OUR PRODUCT RANGE

Sustainable EcoJoy and SilkMove ES technologies are built into different variants of GROHE's Eurosmart collection, for example.



Please find the EPDs for GROHE products [here](#).

Find more information on GROHE's sustainability engagement at www.green.grohe.com