

# SOLIDWORKS SUSTAINABILITY

The solution for sustainable design in product development



## MAKE SUSTAINABILITY PART OF YOUR DESIGN PROCESS

SolidWorks® Sustainability provides a practical tool for implementing corporate sustainability strategies at the product design level. The software considers four key environmental indicators: carbon footprint, total energy consumed, impacts to air, and impacts to water. You can evaluate these indicators across the projected lifecycle of your design, from raw materials and production, through use and end-of-life. Part of the SolidWorks suite of product development solutions—covering design, simulation, sustainability, technical communication, and data management—SolidWorks Sustainability enables you to monitor your product’s sustainability throughout the product development process, so you can make more informed decisions.

## ASK “WHAT IF” QUESTIONS AS YOU DESIGN

Similar to simulation software, SolidWorks Sustainability lets you model different materials and design solutions, and then compare the effects. You can explore the environmental impacts of different materials, resource procurement, transportation requirements, and fabrication approaches—without ever leaving the SolidWorks design environment.

## SPUR INNOVATION AND NEW PRODUCT DEVELOPMENT

You can target “green” market opportunities by rethinking existing designs and exploring new ones at the CAD stage to create next-generation, environmentally friendly products. By looking at sustainability in a way that wasn’t possible before, you can open up a new, more advanced dimension in your product development.

## ► SUSTAINABLE SOLUTIONS

SolidWorks Sustainability software enables you to assess a wide range of environmental factors during product design, when you can quickly make adjustments to reduce the environmental impacts of your product. Utilizing industry-standard life cycle assessment criteria and fully integrated with your design environment, the software provides instant feedback, so you can easily address the increasing demand for sustainable design.

## WORK SEAMLESSLY WITHIN THE SOLIDWORKS DESIGN ENVIRONMENT

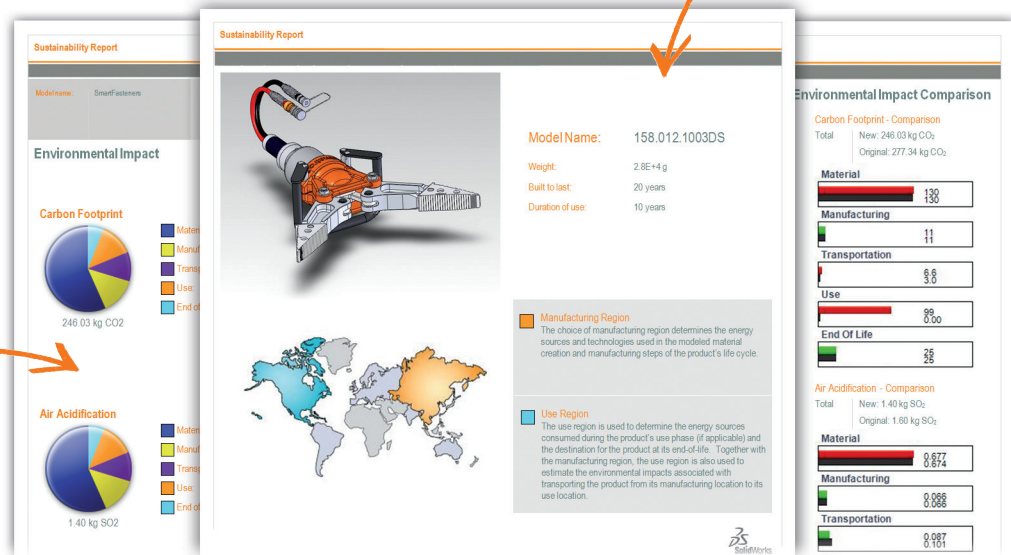
Fully integrated with the design process, SolidWorks Sustainability lives within the SolidWorks Task Pane, so assessment can become a natural and effortless part of your workflow. Sustainability data is automatically stored in the model file as standard engineering information for your design, so it can easily be shared with others.

## APPLY THE SCIENCE OF LIFE CYCLE ASSESSMENT EARLIER IN THE PROCESS

SolidWorks Sustainability is based on the science of Life Cycle Assessment (LCA), a formal methodology for measuring a design's environmental impact over its entire life cycle, including raw materials extraction, manufacturing, assembly, transportation, product use, and disposal. Traditionally, this capability has only been available at the end of the product development process. SolidWorks Sustainability provides a screening-level LCA at the design stage, bringing the robustness of LCA data into the product development process at a fraction of the time and cost of a typical assessment.

CREATE PROFESSIONAL REPORTS TO SHARE

SEE THE BREAK DOWN OF YOUR PRODUCT'S LIFE CYCLE



**Detailed Report.** You can automatically generate a detailed sustainable design report directly from SolidWorks Sustainability in order to share the sustainability profile of your product with management and all departments within the company.

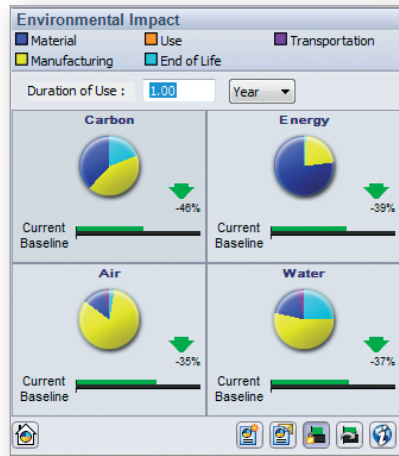
SHOW HOW YOUR REDESIGN STACKS UP AGAINST THE BASELINE

"SOLIDWORKS SUSTAINABILITY ENABLES US TO MAKE ENVIRONMENTAL IMPACT CALCULATIONS DURING THE DESIGN PHASE AND USE THAT INFORMATION TO MAKE DESIGN DECISIONS."

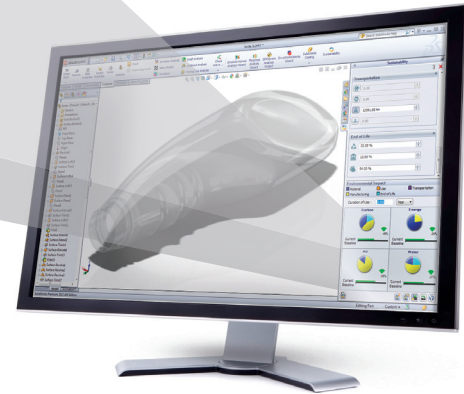
— MARCEL SCHUMACHER, General Manager, Advanced Mechanical Engineers BV

## GOLD-STANDARD ENVIRONMENTAL DATABASE

Through a partnership with the pioneering LCA firm PE International, SolidWorks utilizes the extensive GaBi® life cycle inventory database. This is the worldwide gold standard for environmental impact data, which they have built with scientific expertise and empirical data gathered over decades. Your database is regularly refreshed to ensure the information is always up to date.



TRACK THE IMPACT OF EACH DESIGN DECISION AS YOU WORK



**Real-time dashboard.** A graphic dashboard provides continuous, real-time assessment of sustainability values for your current design, as well as comparisons to your baseline design. This comprehensive view makes it easy to grasp the environmental impacts of every design choice.

## AUTOMATIC ENVIRONMENTAL REPORTS

Instantly generated reports let you demonstrate the real, verifiable steps you've taken to minimize your design's environmental impact. You can show the sustainability profile of your product, before and after comparisons of design alternatives, and the impact breakdown of complex assemblies—all with your contact information and company branding included, if desired.

**Evaluate different use scenarios.** You can easily change usage factors, which often have a major impact on sustainability, such as design lifetime and duration of use. You can also specify such factors as transportation, recycled content, and disposal scenarios.

COMPARE DESIGNS WITH DIFFERENT MATERIALS AND LIFETIMES



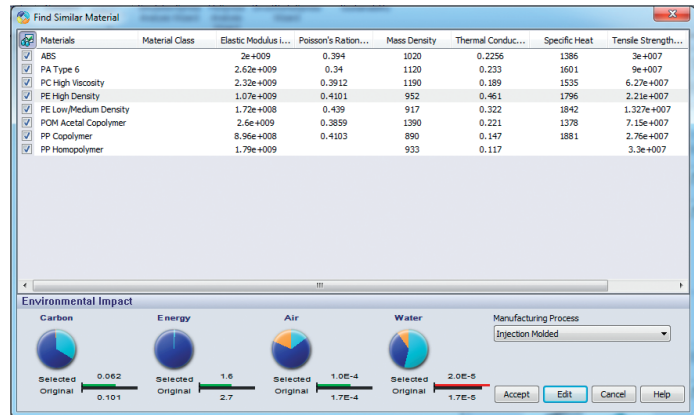
"SOLIDWORKS SUSTAINABILITY SOFTWARE IS HELPING US DOCUMENT OUR ACHIEVEMENTS AND DEVELOP EVEN GREENER PRODUCTS IN THE FUTURE. THIS IS GOOD FOR OUR BUSINESS AND GOOD FOR THE PLANET."

— BRIAN KINNUNE, Engineering Manager for BetaLED (a division of Ruud Lighting)

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**Easily compare materials.** Simply click to compare like materials for environmental impact and for standard engineering properties like thermal conductivity and yield strength. Available elements for comparison include standard SolidWorks CAD materials, plus frequently updated materials for categories such as electronics, packaging, and building.

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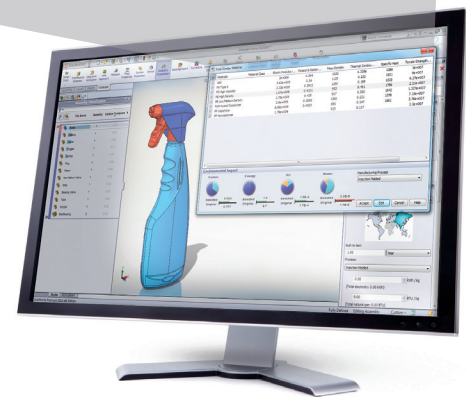
FIND LOWER-IMPACT MATERIALS THAT MATCH YOUR ENGINEERING SPECS

## A PRACTICAL REALITY—AND A COMPETITIVE ADVANTAGE

SolidWorks Sustainability removes the obstacles to sustainable design, making it a seamless part of your design process. For the first time, you'll be able to design for sustainability right from the start, so you can differentiate your products and create a competitive advantage in today's marketplace.

## SOLIDWORKS PRODUCT DEVELOPMENT SOLUTIONS

SolidWorks enables you to maximize the productivity of your design and engineering resources to create products better, faster, and more cost-effectively. See the full range of SolidWorks solutions for design, simulation, sustainable design, technical communication, and data management at [www.solidworks.com/products2012](http://www.solidworks.com/products2012).



### ▶ LEARN MORE

To learn more about SolidWorks Sustainability, visit [www.solidworks.com/sustainability](http://www.solidworks.com/sustainability) or contact your local authorized SolidWorks reseller.

[www.solidworks.com](http://www.solidworks.com)

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LET'S GO DESIGN