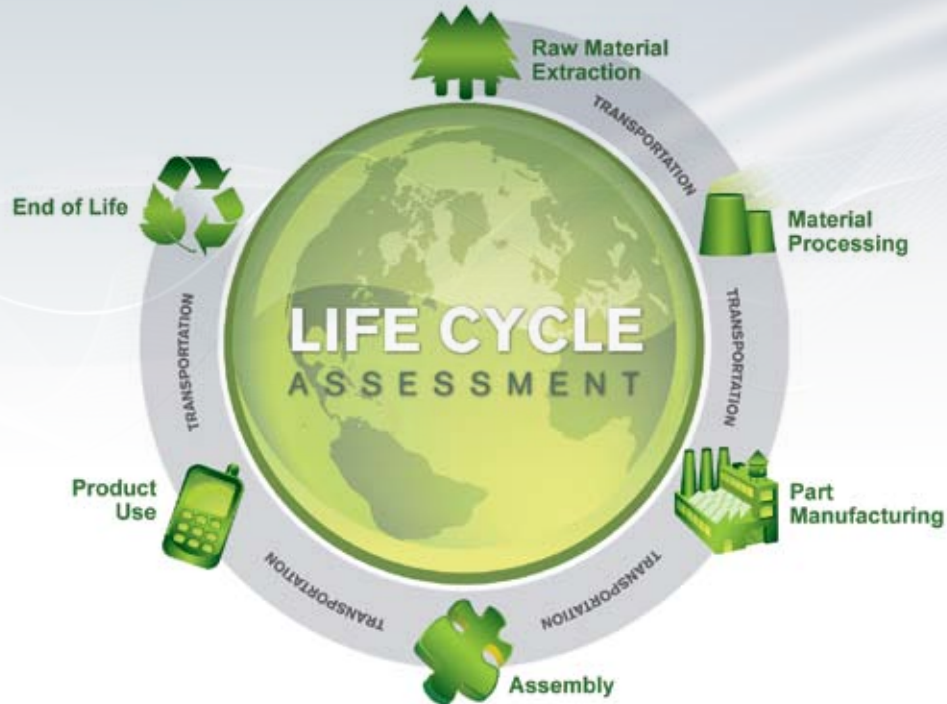


# SolidWorks Sustainability

THE EASY WAY TO MORE ENVIRONMENTALLY FRIENDLY DESIGNS



In today's global marketplace, being a responsible company is often paramount to success. From shareholders to consumers, everyone is increasingly demanding products that are more environmentally conscious, if not 100 percent "green." SolidWorks Sustainability helps the design community better understand the ecological impact of its work and make more environmentally friendly design choices. Our program is built around core capabilities that are as easy to use as they are comprehensive.

## LIFE CYCLE ASSESSMENT

From raw material extraction and manufacturing to product use and disposal, SolidWorks® Sustainability shows designers how the choices they make can change the overall environmental impact of any product they create.

## ENVIRONMENTAL IMPACT DASHBOARD

SolidWorks Sustainability measures the environmental impact over the life cycle of your product in terms of four factors: carbon footprint, air acidification, water eutrophication, and total energy consumed. For each of these, the dashboard displays current value, a baseline comparison to your original design and percent contribution. Because it's all done in real time, you'll be able to easily understand the environmental impact of your design choices — and effortlessly make sustainability a standard part of your design process.

## MATERIAL SELECTION TOOL

Historically, designers have had to search databases and compare properties one by one to find the right material for a particular job. Now, SolidWorks Sustainability can take individual part models and automatically show how "like" materials compare to the original material you selected in terms of environmental impact. This helps you to hone in on the perfect material more efficiently.

## FULL ENVIRONMENTAL REPORTS

SolidWorks Sustainability generates customized reports showing sustainability data, complete with your contact information and company branding. With one click, you'll have a professional presentation to demonstrate the real, intelligent steps you've taken to design in a sustainable world.

## ENVIRONMENTAL IMPACT FACTORS DEFINED

### Carbon Footprint

A design's carbon footprint consists of greenhouse gases, such as the carbon dioxide, carbon monoxide, and methane it releases that can contribute to global warming.

### Air Acidification

Air acidification refers to the burning of fossil fuels that can result in acid rain.

### Water Eutrophication

Water eutrophication occurs when fertilizers reach coastal waters and cause algae blooms that can result in the death of local sealife.

### Total Energy Consumed

Total energy consumed refers to all forms of energy the design consumes and releases over its life cycle.

## BECOME AN EVEN MORE SUCCESSFUL DESIGN PROFESSIONAL

By using SolidWorks Sustainability, you will demonstrate to your managers, coworkers, and customers that you are a forward-thinking, environmentally conscious designer. Your custom Life Cycle Assessment reports will show exactly how you've improved your designs – information that could be valuable to your colleagues in sales and marketing, as well.

## SEAMLESSLY INTEGRATED WITH SOLIDWORKS

Because the SolidWorks Sustainability product lives right in the SolidWorks Task Pane, it effortlessly becomes a natural part of your workflow. Sustainability data is even stored in the model file as standard engineering information for the design – so when the model is shared with others, the Life Cycle Assessment data is available to them as well. Individual model assessments are then compiled into one report when assembly begins.

## GET INSTANT DESIGN FEEDBACK

With SolidWorks Sustainability, you don't have to wait around for data to come back or tests to be run. You'll instantly see the environmental impact of your designs as variables change. This allows you to evaluate changes more quickly and more easily understand the environmental impact of your design choices – all on a real-time basis.

## SUSTAINABLE DESIGN IS NOW A PRACTICAL REALITY – AND A COMPETITIVE ADVANTAGE

Sustainable design is no longer something that is nice in theory but impractical in practice. From here on out, making more environmentally responsible products will be a built-in part of your design process. You'll be able to take an incredibly comprehensive environmental view in a way that's equally simple to understand, apply, and explain. Ultimately, by making you a more environmentally friendly designer, SolidWorks Sustainability will give both you and your company a competitive edge.



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