



# Environmental Evaluation in the Solar Industry - Heliatek GmbH

In the efforts of Heliatek GmbH to identify the environmental impact of their products, we conducted a Life Cycle Assessment of two organic solar films in several categories of significance.

## Basic Facts

Client	Heliatek GmbH
Timeframe	10.04.2019 – 31.07.2019
Project Location	Dresden, Germany
Main Services	Life Cycle Assessment (LCA) for two organic solar films
Standards	DIN EN ISO 14040:2009, 14044:2018

## INITIAL SITUATION, REQUIREMENTS

A comprehensive Life Cycle Assessment considers the potential environmental impact of a product - from raw material extraction to the manufacture and use to waste treatment.

The ratio and influence of the individual phases throughout a product's life cycle are calculated. Environmental hotspots are identified to help you save energy and money as well as reduce overall environmental impact. In addition, the evaluation of environmental effects also quantifies sustainability significance.

Committed to meeting the ever-increasing sustainability and environmental expectations of their customers, Heliatek GmbH asked our experts to carry out **Life Cycle Assessment** services for two of their products.

## SOLUTIONS, RESULTS

Results from the Heliatek Life Cycle Assessment showed that raw materials and energy used in the production process were mainly responsible for the resulting environmental impacts. In comparison, the raw materials used in the production of packaging materials and transport logistics had only minor influence.

The study thus confirmed that Heliatek could minimize the resulting environmental effects by using the most modern manufacturing processes and selecting raw materials in an environmentally conscious manner. In addition, the assessment found that separating production waste by type for associated high recycling rates could significantly reduce environmental impacts.

### BENEFITS FOR THE CLIENT

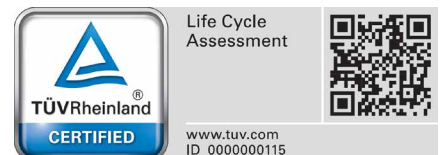
With our support, Heliatek GmbH was able to optimally identify and reduce potential environmental impacts. Results from the Life Cycle Assessment enables them to strategically optimize energy and raw material consumption from an environmental perspective and thus effectively save money in the future. Heliatek has strengthened confidence in their products and continues to differentiate their company from the competition.

### DID YOU KNOW?

Heliatek GmbH was founded more than ten years ago by the TU Dresden (IAPP) and the University of Ulm. The company is now a global technology leader in the field of organic photovoltaics (OPV) and is working to sustainably shape the solar future for urban solutions. Heliatek stands for organic PV solar solutions of industrial grade covering almost any building surface.

## ABOUT TÜV RHEINLAND

TÜV Rheinland is one of the world's leading independent testing service providers with over 140 years of tradition. Our experts test technical systems, products and services, accompany projects and design processes for companies. TÜV Rheinland has been a member of the United Nations Global Compact for greater sustainability and against corruption since 2006. Our experts have many years of experience in preparing and auditing Life Cycle Assessments, carbon footprints and environmental product declarations (EPDs).



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