



# Cabot Microelectronics

## Life-cycle assessment puts Cabot Microelectronics “ahead of the game” for supplier scorecards and environmental reporting



### Services

Life-cycle assessment

### Useful For

Identifying areas of environmental impact that may help reduce cost, risk, energy, and waste for a product or process

### Key Success

Big-picture view of the environmental impacts of each of the company’s products and ability to report accurate environmental data

### Employees

1,100

### Industry

Electronics manufacturing

### Region

Global

Cabot Microelectronics, a top producer of a chemical slurry formulation and mechanical polishing process used to smooth silicon wafers to near-perfection, worked with Strategic Sustainability Consulting to complete a pilot life-cycle analysis to determine the environmental impact of the company’s products. The result: The ability to clearly articulate Cabot Microelectronics’ impact in order to more accurately complete supplier scorecards on sustainability metrics.

### Overarching Need

Cabot Microelectronics’ slurry and wafer products are part of the larger electronic industry supply chain that uses silicon wafer technology. The electronics industry as a whole is moving toward more comprehensive reporting on environmental impacts, and supplier scorecards are asking for more detailed environmental data. The challenge the company faced was finding a trusted consultant to map the life-cycle of its products.

“As sustainability becomes more important in our industry, we saw a need to better understand our impact to provide accurate information to customers. But just getting started in environmental reporting is difficult,” said Michael Trembley, Product Stewardship Manager at Cabot Microelectronics. “In-house, we didn’t have the time or expertise to gather the correct data and work with reporting tools, so we needed a consultant that understood what our goals were. After thorough discussions with Jennifer, we felt SSC was a great fit for us.”

“SSC CAME IN AND DELIVERED A LEVEL OF DETAIL THAT WAS ABOVE AND BEYOND WHAT WE EXPECTED, BUT STILL WITHIN THE GOALS OF THE PROJECT.”

### Value of Partnership

SSC’s job was to deliver a LCA report on Cabot Microelectronics’ primary products.

“We handle complex chemicals and delicate products, and had no historical data on our environmental impact,” said Trembley. “SSC came in and delivered a level of detail—from transportation to packaging—that was above and beyond what we expected, but still within the goals of the project. Now we know exactly what our impact is, how it compares to our peers, and where we can focus on change.”

### Results of our Work

Working with SSC to perform the LCA, Cabot Microelectronics was able to complete its first LCA quickly and accurately.

“Working with SSC gave us clarity on our carbon footprint, our processes, and on our industry performance,” said Trembley, “Now, when we are completing our supplier scorecards, we can really establish that our processes are efficient and demonstrate that with data. Because SSC really drove us forward and kept us on schedule, we are now ahead of the game when it comes to reporting and planning for the future.”

**Disclaimer: The consent to use this testimonial is provided with the understanding that Cabot Microelectronics can revoke consent at any time upon notice to Strategic Sustainability Consulting.**



STRATEGIC  
SUSTAINABILITY  
CONSULTING