



HSC[®] **HEMLOCK SEMICONDUCTOR**

High-tech electronics, smart phones, solar panels: None of these exist without polysilicon. We are one of the world's largest manufacturers of hyper-pure polysilicon and silicon-based products.



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HSC POLYSILICON AND SOLAR ENERGY: PARTNERS IN CLEANER POWER

We are excited that both of HSC's key market applications, semiconductor electronics and solar photovoltaics, have a strong commitment to driving a sustainable society. HSC polysilicon is used in the manufacture of sustainable solar power cells, panels, and arrays that harness sunlight for clean energy production. And that's good for all of us.

Solar energy combats climate change, reduces dependence on fossil fuels, preserves natural resources, protects the environment and reduces greenhouse gas emissions.



We are proud to supply the high-purity solar-grade polysilicon needed to manufacture mono- and multi-crystalline ingots and wafers, which are then used to produce sustainable solar power cells, panels, and arrays.



DECARBONIZING POLYSILICON MANUFACTURING

As HSC, we do more than just supply materials for the solar industry. We've also relentlessly improved the energy efficiency and management of our own processes to reduce our carbon footprint.

We've found that "embodied carbon" (the carbon emissions associated with the manufacture of a product) is fast becoming a critical assessment in the overall sustainability of a product. That got us thinking: **HSC already has a lower carbon footprint than many of our competitors, so how can we lower it even further?**

The short answer is by **cutting energy waste at every turn of the manufacturing process**, and by **using the cleanest energy sources we can access**. We are, after all, Michigan's largest energy consumer. Now we're working with our suppliers and customers as true partners, to remove supply chain carbon emissions.

The low embodied greenhouse gas emissions in our polysilicon materials facilitates the production of ultra-low-carbon solar panels. These panels allow solar project developers and owners to lower the embodied carbon of their projects by up to 50 percent. That means switching a typical 100MW solar project to ultra low-carbon solar will eliminate 70,000 metric tons of GHG emissions.



**CONNECTING &
ENERGIZING
OUR WORLD
WITH SILICON
TECHNOLOGY**



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