

# Polysilicon. Pure and Simple.

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with uniform particle size.



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INTRODUCING PEAK SUN SILICON.

# Our high-purity silicon makes the future bright.

Strong, long-term demand for solar electricity is building worldwide. The solar industry is growing at 40 to 50 percent per year, and solar electricity is increasingly more competitive for both end-use consumers and electric utilities. However, the world's supply of solar energy (a limitless renewable resource) is limited by the shortage of a critical raw material for the manufacture of solar electricity-generating equipment—polycrystalline silicon.

**Peak Sun Silicon** is in business to solve this problem. Our high-purity polycrystalline silicon delivers high conversion efficiency of sunlight directly into electricity. This means better performance of your solar cells and panels.

## Technology and Products

**Peak Sun** has developed a bromosilane-based method for producing electronic-grade polysilicon using a fluid-bed deposition reactor (FBR). This process operates at near atmospheric pressure and a lower temperature than incumbent processes, resulting in a significant reduction of energy consumption during the manufacturing process. Further, Peak Sun's polysilicon is delivered in dense, spherical-bead form with uniform particle size. These qualities make it the ideal feedstock for the continuous-substrate manufacturing processes essential for rapid solar-electricity capacity expansion and downstream cost reduction.

## Benefits of Peak Sun Polysilicon

- Spherical-bead form enables easy conversion to continuous-melt replenishment (CMR) crystal growth.
- Highly pure polysilicon results in greater conversion efficiencies
- Green technology. Significant reduction in energy consumed during the manufacturing process results in maximum energy yield.

## Company Information

Polysilicon manufacturer Peak Sun Silicon's founder, John C. Schumacher, Ph.D., has more than 30 years of experience in the semiconductor equipment and materials industry. He founded and sold the world's dominant chemical-vapor-deposition materials and equipment supplier, J.C. Schumacher Company, to Air Products and Chemicals, Inc. Dr. Schumacher then founded Diamond Cubic Corporation, Custom Engineered Materials Inc. and Schumacher Technology. Peak Sun Silicon recently relocated from Carlsbad, California, to Millersburg, Oregon.



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## For More Information

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