

## **Hemlock Semiconductor Corporation and Hemlock Semiconductor LLC:**

### *Fact sheet*

**Hemlock Semiconductor Corporation** ([www.hscpoly.com](http://www.hscpoly.com)) is one of the world's leading providers of polycrystalline silicon and other silicon-based products used in the manufacturing of semiconductor devices and solar cells and modules. Headquartered in Hemlock, Mich., Hemlock Semiconductor Corporation is a joint venture of Dow Corning Corporation and two Japan-based firms, Shin-Etsu Handotai Co., Ltd. and Mitsubishi Materials Corporation.

Polycrystalline silicon (polysilicon) is the cornerstone material used to produce solar cells that harvest energy from sunlight. An ultra-pure version of the material is also the base-material for silicon wafers used in electronic devices. About a third of all the silicon used in manufacturing solar panels and electronic devices worldwide is from HSC polysilicon.

### **Fast facts about Hemlock Semiconductor Corporation:**

- Hemlock Semiconductor Corporation began operation in 1961 and was the first fully integrated polycrystalline silicon plant in the nation.
- The company is headquartered in Hemlock, Michigan, in Saginaw County.
- Hemlock Semiconductor Corporation is owned by Dow Corning Corporation (63.25%), Shin-Etsu Handotai Co., Ltd. (24.5%), and Mitsubishi Materials Corporation (12.25%)
- Hemlock Semiconductor Corporation is one of the world's leading suppliers of polycrystalline silicon products used in the manufacturing of energy producing solar cells and semiconductors used widely in the electronics industry.
- Current direct and contract employees: 1300
- Construction workers on-site (November 2008) 900-1500
- President and CEO: Richard S. Doornbos

### **History of Hemlock Semiconductor Corporation and Hemlock Semiconductor LLC:**

- 1957: Dow Corning implements technology to manufacture polycrystalline silicon
- Year built: 1960, First year in production: 1961
- 1979: Hemlock Semiconductor Corporation formed as a wholly owned subsidiary of Dow Corning Corporation.
- 1984: Hemlock Semiconductor Corporation becomes a joint venture of Dow Corning and two of Japan's largest single-crystal wafer manufacturers, Shin-Etsu Handotai Co., Ltd. and Mitsubishi Materials Corporation.
- 1992: Hemlock Semiconductor Corporation receives ISO 9002 registration and expands production capacity by 20 percent.
- 1994 Hemlock Semiconductor Corporation becomes one of the world's largest producer/supplier of polycrystalline silicon.
- 1998: Hemlock Semiconductor Corporation completes expansion to produce 35 percent more polycrystalline silicon. Finishing expansion and technology enhancements provide an ultra-clean polycrystalline silicon product.
- 2005: Hemlock Semiconductor Corporation announces and begins construction on a \$500 million expansion that will increase capacity 100%. The capacity came on-line in 2008.
- 2007: Hemlock Semiconductor Corporation announces and begins construction on a \$1 billion expansion at its Hemlock, Mich. facility. The expansion will increase the

company's total annual output of polycrystalline silicon to 36,000 metric tons, an increase of 90 percent.

- 2008: With a portion of the recently announced expansions complete –Hemlock Semiconductor Corporation increases its annual capacity to approximately 19,000 metric tons.
- 2008: Hemlock Semiconductor Corporation announces intentions to invest up to \$1.0 billion to expand polysilicon manufacturing.
- 2008: The Shareholders of Hemlock Semiconductor Corporation form Hemlock Semiconductor LLC to facilitate the development of a new site in Clarksville, Tennessee (U.S.A.).
- 2008: Hemlock Semiconductor LLC announces intentions to investment up to \$3.0 billion to further meet growing solar demand.

**Expansion announced December 15, 2008:**

- Hemlock Semiconductor Corporation and Hemlock Semiconductor LLC announce up to a \$3.0 billion investment to provide the capability to produce polysilicon for the solar and semiconductor industries. Total investment could add up to 34,000 metric tons of capacity.
- The initial investment includes Hemlock Semiconductor LLC's \$1.2 billion to build a greensite located in Clarksville, Tennessee.
  - Creating 500 initial jobs and up to 900 upon full completion of the site
  - Will require approximately 1,000 construction workers in the next 4-7 years.
- The initial investment also includes up to \$1 billion to further expand Hemlock Semiconductor Corporation's operations in Hemlock, Mich.
  - Creating 300 jobs.
  - Will require 800 construction workers until completed in 2011.

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