



## **AMSC Receives Second D-VAR® Order for Chinese Power Grid**

### **- Dynamic Reactive Compensation Solution to Meet Grid Interconnection Requirements for Guanting Wind Farm**

### **- China's CMCEC Named AMSC's Second Channel Partner for the Chinese Power Grid Market**

DEVENS, Mass., Aug 26, 2009 (BUSINESS WIRE) -- American Superconductor Corporation (NASDAQ: AMSC), a global energy technologies company, today announced that it has received its second order for a D-VAR system to meet dynamic reactive compensation requirements for the Chinese power grid. Beijing-based China National Machinery Industry Complete Engineering Corporation (CMCEC) will deploy the D-VAR system to meet local grid interconnection requirements for Phase I of the Guanting Wind Farm, located in the Beijing area. AMSC expects to deliver the D-VAR system to CMCEC by the end of calendar year 2009.

AMSC also announced that CMCEC has been named as the company's second channel partner for sales into China's power grid market. CMCEC is a large state-owned-enterprise, involved primarily in project contracting, import and export trade, and energy and environmental protection. CMCEC will install the D-VAR system in a 110 kilovolt (kV) electrical substation operated by the Beijing Energy Investment Holding Co Ltd. (Jingneng Group).

"China's wind power market continues to grow very rapidly," said Mr. Bai Sun, President of CMCEC. "This rapid growth has created a strong demand for grid interconnection solutions for wind farms. As a state-owned enterprise, it is our responsibility to facilitate the continued growth of China's wind industry to reduce CO<sub>2</sub> emissions, while at the same time ensuring that the power grid is functioning reliably."

Once all phases are complete, the Guanting Wind Farm will provide 150 megawatts of wind power generation for the local grid. The Beijing Electric Power Design Institute (BEPDI) - a division of China's State Grid Corporation responsible for transmission and distribution engineering - determined that the wind farm required dynamic reactive compensation. BEPDI was also involved in the design of the wind farm project.

"As a global energy technologies company, we are dedicated to providing our customers with the Smart Grid solutions necessary for reliable operation of 21<sup>st</sup> Century power grids," said John Wang, Vice President and General Manager of AMSC China. "Our D-VAR solution is recognized as the standard for wind farm grid interconnection around the world and is ideally suited to support China's rapidly growing wind power market."

AMSC customers utilize [D-VAR solutions](#) to provide voltage regulation and power factor correction, along with post-contingency assistance to stabilize voltage, relieve power grid congestion, improve electrical efficiency, and prevent blackouts in power grids. D-VAR reactive compensation systems are classified as Static Compensators, or "STATCOMs," a member of the FACTS (Flexible AC-Transmission System) family of power electronic solutions for alternating current (AC) power grids. These [Smart Grid](#) solutions are able to detect and instantaneously compensate for voltage disturbances by dynamically injecting leading or lagging reactive power into the power grid. AMSC has received orders for over 70 STATCOM power grid solutions worldwide, more than all other manufacturers combined. The company's STATCOM customers include more than 20 electric utilities and over 45 wind farms.

### **[About China National Machinery Industry Complete Engineering Corporation](#)**

Founded in 1985, CMCEC is a comprehensive, large-scale foreign trade enterprise involved in international project contracting, import and export trade, real estate development, energy and environmental protection, national defense and military support equipment, and additional multiple industries. The company has an extensive background in global economic integration and innovation and is a member of the China National Machinery Industry Corporation controlled by the State-owned Assets Supervision and Administration Commission. CMCEC focuses on the internationalization of large-scale industrial machinery, corporate strategy, project contracting and international trade as its core business.

### **[About American Superconductor \(NASDAQ: AMSC\)](#)**

AMSC offers an array of proprietary technologies and solutions spanning the electric power infrastructure - from generation to

delivery to end use. The company is a leader in [alternative energy](#), providing proven, megawatt-scale wind turbine designs and electrical control systems. The company also offers a host of [Smart Grid](#) technologies for power grid operators that enhance the reliability, efficiency and capacity of the grid, and seamlessly integrate renewable energy sources into the power infrastructure. These include superconductor power cable systems, grid-level surge protectors and power electronics-based voltage stabilization systems. AMSC's technologies are protected by a broad and deep intellectual property portfolio consisting of hundreds of patents and licenses worldwide. More information is available at [www.amsc.com](http://www.amsc.com).

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SOURCE: American Superconductor Corporation

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