



Cooperation to boost Swedish research

“The agreement will take our business into a new phase.”

Mårten Armgarth, CEO Acreo

A center of excellence within Silicon Carbide (SiC power electronics) has been established in Sweden through cooperation between Japanese Denso and Swedish Acreo. This strengthens Sweden's leading position in R&D in this field.

Denso Corporation has signed a contract of cooperation with Acreo AB with the purpose to develop energy efficient silicon carbide transistors. Denso's technology will form the basis of establishing a center of excellence in Sweden. Through this investment Denso will benefit from the world leading research that is available in Sweden.

The transistors are made from Silicon Carbide (SiC). The construction is based on new innovative materials and a process technology of both parties.

Results from a five year project

The deal between Denso and Acreo was formed from a joint research cooperation on Silicon Carbide. By combining the competence and experience of both parties it will become possible to produce high-performing, efficient Silicon Carbide components. In the future this will lead to smaller, lighter and more efficient power systems. Compared to conventional silicon technology both size and weight can be reduced without losing energy efficiency.

– The agreement will take our business into a new phase and make it possible for us to evaluate the technology in real and demanding conditions. In addition the next generation of power supply components will become instantly available to Swedish power companies, says Mårten Armgarth, CEO of Acreo.

The process technology has been implemented at Acreos plant in Kista, Sweden, and the manufacture of components began in late 2010. If all goes according to plan the first components will be available for system evaluation in early 2011. Possible applications are DC-DC converters, battery chargers and solar cell plants.

Support from Invest Sweden

Invest Sweden in Japan have contributed to this investment by assisting with information in the preparations for the establishment. Invest Sweden have also participated and assisted at several meetings between the two companies.

FACTS DENSO

- DENSO is a Japanese company and a global supplier of advanced technology, systems and components. Among the clients are car manufacturers from around the world. The company have 120 000 employees in 34 countries and regions.

www.globaldenso.com

FACTS ACREO

- Acreo is a fully owned subsidiary to the research institute Swedish ICT Research and does contract R&D in electronics, optics and communications technology.
- Acreo have 140 employees in in Kista, Norrköping och Hudiksvall.

www.acreo.se