
SENTECH takes part in the new EU project PICS

In September 2013 the two-year EU funded PICS project (<http://www.fp7-pics.eu/>) was launched in a consortium of companies and research institutes. The objective of the PICS project is to boost current capacitor technology leading to a new world-record for integrated capacitor densities (over 500nF/mm²) combined with higher breakdown voltages. Transferring this new technology into production will open the way to new markets such as automotive, medical, and lighting, where the high density capacitors are used to store large quantities of charge enabling increased performance, functionality, and reliability of electronic modules. Besides these technical goals, the PICS project also aims to setup a cost-efficient industrial solution for the production of next generation high density capacitors for further use in microelectronic industry.

Within the project SENTECH will provide new processes for accurately etching dielectric high-k materials for the integration of the capacitors. These processes can also be used in other applications, e.g. LED, MEMS, and magnetic data storage. SENTECH works together with Fraunhofer CNT (Dresden), CEA-Leti (Grenoble) and IPDiA (Caen) to create innovative technological solutions and will develop tools for industrial production.

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SENTECH Instruments develops, manufactures, and sells advanced quality instrumentation for **plasma process technology** (plasma etcher, plasma deposition systems, ALD), **thin film metrology** (reflectometer, ellipsometer, spectroscopic ellipsometer) and **photovoltaics** (inline and offline measurement tools). Located in Europe's leading Science and Technology Park in Berlin Adlershof SENTECH Instruments offers its products and services worldwide. Our large network of experienced and highly qualified distributors provides local sales and service support in Asia, North America, South America, and Europe.

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