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Micropelt Kicks Off World's First Micro Peltier Volume Production

[Micropelt](#), Freiburg (Germany) based pioneer in micro thermoelectric generators, Peltier coolers and sensors announces the kick-off of the company's first volume [production site](#). An investment of up to 8 million Euros will be made by Micropelt until completion of the new fab in early 2010. Substantial funding has been raised from the fund 'IBG Fonds', managed by [Goodvent VC](#), and from [mbg Sachsen-Anhalt](#), all based in the state capital of Magdeburg. Development subsidies of the state of Saxony Anhalt complete the funding. The [fab](#) is located in the Eastern German city of Halle, creating 16 new full time jobs on 720 square meters of floor space. Production starts in spring 2010. During the same year, full qualification and certification are to be completed. Volume ramp-up and multi-shift operation is targeted for 2011, such that the strongly growing demand for [thermogenerators](#) (TEG), [thermoelectric coolers](#) (TEC), and fast thermal sensors can be covered.

Burkhard Habbe, VP Business Development, sees significant opportunities in various markets: "More and more OEMs and users of wireless sensors leverage energy harvesting power supplies to avoid battery maintenance and extend power budgets." For laser companies producing high volumes of stabilized laser transmitters for telecom and [FTTx](#) Micropelt's laser TECs offer the "three-Dollar cooling solution these markets can tolerate," Habbe continues, and goes on: "Explosive growth in genomic testing, analytics and diagnostics creates a huge demand for fast and precise small-scale [PCR processes](#). No one can drive those thermal cycling processes as good as our micro TECs." Sensing applications use the effect of Micropelt thermogenerators acting as a huge thermopile in terms of signal and as a very small one in terms of speed – both at the same time. Fritz Volkert, Micropelt's CEO, makes optimistic conclusions despite the gloomy economical trend: "Our products support the strong long term trends of sustainability, efficiency and optimal resource utilization in many ways. We have planned our first fab for 100 wafer starts per week, good for up to 10 million devices per year. And we are prepared to scale up."



Micropelt production site at Weinberg Campus Halle (Saale)

About Micropelt

[Micropelt](#) GmbH is a venture capital funded technology company founded in early 2006 as a result of a research cooperation between German chipmaker Infineon Technologies and the Fraunhofer Institute for Physical Measurement Techniques IPM in Freiburg, Germany. Micropelt develops and markets miniaturized thermoelectric (TE) coolers, generators and sensors based on a scalable MEMS (Micro Electro-Mechanical Systems) [micro-structuring platform technology](#). Compared to conventional thermoelectric coolers, Micropelt's unique and patented technology reduces component and feature sizes by orders of magnitude, yielding 10 times higher cooling or heating power densities. Economies of scale are close to those found in other chip-making industries.

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