

Australian company investiert

installation is designed for "wonder material" graphene in Rudolstadt

Audios

▶ **"Wonder material" graphene is the future of Rudolstadt**



An Australian company wants to build a plant for obtaining graphene for a double-digit million euro sum in Rudolstadt. The carbon modification is extremely resilient and conductive, so far in the market but also extremely expensive: One gram graph currently costs \$ 50 and more. The Australian company Talga Resources aims to be able to lower the selling price with a new method to 50 dollars per kilogram.



MDR THÜRINGEN JOURNAL

Fabric of the future of Rudolstadt

07.10.2015, 19:00
clock |
2:27 min

Talga has it already stored 350 tons of the raw material graphite in Rudolstadt according to own data. The blocks came from the company's own resources in northern Sweden. Within about five years, the process for obtaining graphene should be mature. Talga explains his decision to Rudolstadt with the favorable logistical location, and the local research. The process will be further developed, inter alia, with the University of Jena. The Ministry of Economy has Talga promised by its own account investment and technology promotion.

Money is but not yet flown, according to a spokesman. Would expect up to 35 jobs. Economics Minister Wolfgang Tiefensee said, if it were a sophisticated high-tech projects, which start with manageable investments, but have a huge growth potential.

When graphene is in principle the individual "slices" from which the graphite naturally occurring constructed. Talga calculates that in a millimeter graphite are three million graphene wafers. The carbon is highly resilient, tensile strength than steel and has a much better electrical conductivity than copper. The research on the "wonder material" were the Royal Swedish Academy 2010 Nobel Prize for Physics worth - he went to the Russo-British scientist Konstantin Novoselov and Andre Geim. Mass produced at an acceptable price, graphene could be used in batteries, solar panels or car.

Commodities

insight into graphene project in Rudolstadt



In Rudolstadt an Australian company wants to revolutionize the production of the "miracle material" graphene. Frame by frame: to be won From which graphs, how it looks - and what it could be used. [Pictures]