

## Press Release

### **beeOLED celebrates its 4<sup>th</sup> anniversary and achieves significant advances in material technology for deep blue OLED emitters**

Dresden, 11.11.2024 - beeOLED proudly celebrates its fourth anniversary. In this short but dynamic time, the company has made great progress in the development of highly efficient and stable blue emitter materials for OLED- (organic light-emitting diode) displays. There is now an international team of around 25 highly qualified employees working at beeOLED, primarily in the areas of synthetic chemistry, material development and OLED development.

As a testament to our growth, we are delighted to announce the registration of our brand name in Europe, with plans to expand to the USA shortly. The beeOLED® brand will represent our commitment to delivering cutting-edge technologies and materials that meet the highest standards of quality and customer satisfaction.

In recent years, we have also made considerable progress on material purity and quality of our lanthanide-based vapor-depositable emitter materials. These improvements were supported by a recently completed BMWK funding project as part of the ZIM programs: "Lanthanide complexes as blue emitters for OLED applications (EP201077)". Highest material purity is key for maximizing efficiency and reliability of our emitter products in OLED displays. This aspect is symbolized by the picture below: an array of single crystals formed by highly pure beeOLED emitter material.



Perfect crystals grown for XRD (X-ray structure analysis). Deep blue light is emitted under UV light irradiation.

Supported by another publicly funded project from the Sächsische Aufbaubank (100671145, with funding from the Free State of Saxony and the European Union), the efficiency of our deep blue OLEDs has also been significantly improved: we are now regularly achieving around 20% external quantum efficiency, which is very close to the theoretical limit of standard



organic light emitting diodes. We are currently working intensively on further improving the operating stability.

We would like to thank our partners and employees for their support and trust in beeOLED. Together, we are optimistic about the future and look forward to continuing to find innovative solutions that meet the requirements of the market.

For more information about beeOLED, please visit our website at [www.beeoled.com](http://www.beeoled.com) or contact us directly at [info@beeoled.com](mailto:info@beeoled.com).

### **About beeOLED**

beeOLED was founded in 2020 by OLED industry veterans Dr Carsten Rothe (CTO) and Dr Volodymyr Senkovskyy (COO) with the aim of solving the last major challenge of OLED displays. Led by serial entrepreneur Jan Blochwitz-Nimoth (CEO), the deep-tech startup is developing an efficient and stable deep blue emitter to improve displays in mobile phones, tablets, laptops, TVs and other displays. Its technology is based on making the elementary emission of atoms fit for use in today's vacuum-processed OLED displays. beeOLED is financed by venture capital investors (eCAPITAL, Innovation Industries, M Ventures, High-Tech Gründerfonds, Technologiegründerfonds Sachsen, KBC Focus Fund, JBN- Invest) and supported by public funding projects from the Free State of Saxony, the European Union, the Federal Ministry of Economics and Climate Protection (BMWK) and the Federal Ministry of Education and Research (BMBF) of Germany.

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