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### Novald intensifies development of top emitting OLEDs

19 Feb 2007 - Novald has achieved groundbreaking results in lifetime, voltage and efficiency of top emitting RGB stacks with its PIN OLED technology. Lifetimes for blue OLEDs are up to 16,000 hours, for red and green up to 100,000 hours at an initial brightness of 500 cd/m<sup>2</sup>. This latest performance means that green OLED devices are now outperforming their bottom emission reference samples by a factor of 2.5. White top emission devices achieved a lifetime of 18,000 hours at a driving voltage of 3 V and a starting luminance of 1,000 cd/m<sup>2</sup>.

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Top emission OLED structures emitting light away from the substrate are a key feature of future OLED applications. The top emission type increases the aperture ratio above 50% for displays and paves the way for more powerful, large area active-matrix displays. When used in lighting devices, top emission OLEDs enable manufacturers to use cheap non-transparent and flexible substrates.

"Top emission OLEDs are the future of display and lighting applications. With the latest results and performances of its PIN OLED structure, Novald has confirmed its status as being the best partner for OLED makers" says Jan Blochwitz-Nimoth, CTO of Novald. "Our technology is currently being tested by different OLED manufacturing companies preparing their entry into mass production."

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## Additional information

### Novald AG

Dresden, Germany

#### News

- 11 Jan 2007 - Novald Appoints Harry Boehme as CFO and Member of Management Board
- 12 Dec 2006 - Novald licenses its technology for solar cells
- 09 Jun 2006 - Philips and Novald announce new records for lifetime and efficiency of high-brightness white OLEDs

### News regarding Products

- 21 Feb 2007 - Showa Denko Develops New Crystal Growth Technology for GaN-based Blue/White LEDs
- 20 Feb 2007 - Honeywell expands semiconductor packaging research and development facility
- 16 Feb 2007 - SDK to Produce Large Area Organic EL Panels, Using Phosphorescent Polymer Technology