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News Release

TNSC, IMEC to collaborate

on green LED manufacturing technology

Taiyo Nippon Sanso Corp. has recently signed an agreement with IMEC, a Belgian research institute specializing in next-generation semiconductor technologies, to jointly develop the manufacturing technology for high-brightness green LED (light-emitting diode) devices. The agreement marks TNSC's first collaboration with a research institute in Europe.

Demand is growing rapidly for high-brightness green LEDs for future applications such as backlights for ultra high-definition LCD televisions and white LED lights. The research will be based on IMEC's expertise in compound semiconductor device technology, and will be used to develop the manufacturing technology for high-brightness green LEDs for large-wafer-diameter applications. Such technology would enable TNSC to dramatically improve the performance features of its devices for large-wafer metal organic chemical vapor deposition (MOCVD). Joint research commenced at IMEC's research center in Leuven, Belgium, in September.

"The collaboration with Taiyo Nippon Sanso, a total solution provider in the compound semiconductor field including metal organic materials, gas supply systems, purification, abatement systems and MOCVD tools, enables us to accelerate the development of high-brightness green LED manufacturing technology," stated Prof. Gilbert Declerck, president and CEO of IMEC.