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August, 27 2014

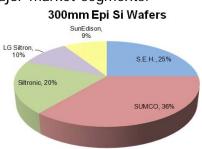
Critical Materials Market / Supply Chain Information

Silicon Wafer Revenues Forecast

Is Silicon Wafer Pricing on Its Way Up Again?

The 2013 market for semiconductor silicon wafers totaled \$7.5B, down 16% from 2012, according to a new report from Techcet Group, "**Silicon Wafers for Semiconductor Device Processing 2014, a Techcet Group Critical Materials Report**." The 2014 outlook is for 1% growth to \$7.7B. The silicon wafer market is expected to grow to \$8.7B by 2015, according to Techcet's forecast. The current outlook is positive for 2H14 as compared with 1Q14, with growth anticipated in all wafer diameters and all major market segments.

Silicon wafer purchases represent the highest operating expense for many device manufacturers and as a result are a constant target for price reduction. With the continued concentration of the semiconductor manufacturing base to a few large players, silicon producers have little choice but to succumb to the price pressure. As a result, ASP for wafers has declined steadily since 2011 with -14% and -16% in 2012 and 2013 respectively. Over the



same period, the silicon market has experienced a steady increase in silicon area shipped at a CAGR of 3-6%. While overall silicon shipments have been relatively flat since the 2010 recovery, the change from quarter to quarter can exceed 10%. We anticipate this volatility to smooth as supply tightens with the growth expected in 2015. For more information see Techcet's Critical Materials Report on Silicon

Wafers Market and Supply Chain.

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Electronics, Materials, Information. Techcet group aims to provide our customers with the most comprehensive information that can be applied and used easily and effectively. We specialize in Electronic Materials Market Research and Strategy, including Market and Technical Trend analysis for Semiconductor, Flat Panel Display (TFT/LED), Solar/PV, and LED process materials. Our customers most frequently use our material market and technology trend information for materials management and business strategy - to source suppliers, anticipate problems in the market, and to circumvent potential issues in ordering and purchasing materials. Due to the accuracy called for in our line of work, we create our reports around the needs of our clients. Our flexibility and due diligence make us a popular choice for many companies, and we are prepared to entertain your specific needs at any time. We would be delighted to learn more about your company and how we can help you, and we hope to hear from you soon.

Sincerely,

Lita Shon-Roy President / CEO Techcet Group, a Techcet CA, LLC Company



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