OKMETIC

Finnish-Russian Innovation Alliance on Nanotechnology

Partner Day - Okmetic Oyj

15.11.2011 Markku Tilli

Okmetic in brief

Okmetic supplies tailor-made silicon wafers for sensor and semiconductor industries. In addition, we sell our technological expertise for solar cell industry.

Okmetic is the world's leading supplier of sensor wafers and an esteemed technological partner.

- Net sales in 1-3Q2011: 65.1 million euro
- Operating profit in 1-3Q2011: 14.6% of net sales
- Personnel (30.9.2011): 350

Milestones

2009	Sensor business capacity expansion started
2007	Expansion of Vantaa plant in Finland
2006	Sales office Okmetic K.K. founded in Japan
2004	Okmetic fab lite strategy started
2001	SOI wafer volume production started
2000	Okmetic IPO on the Helsinki Stock Exchange
1999	Okmetic Inc. epitaxial wafer plant founded in Texas, USA
1997	Start of new crystal and wafer plant in Vantaa, Finland
1996	Epitaxial wafer production line started
1987	First crystal and wafer plant started in Espoo, Finland
1985	Foundation of Okmetic Oy, a joint venture of Nokia and Outokumpu



Production







Vantaa plant, Finland

- Crystal growth
- Sensor wafers
- Demanding semiconductor wafers
- Advanced wafers (SOI)

Allen plant, Texas, USA

Value adding wafers (EPI)

Fab lite capacity, Japan and China

Semiconductor wafers



Complete set of 100-200mm silicon wafers to support sales growth

- SOI (Silicon-On-Insulator) wafers
 - MEMS SOI
 - High voltage SOI
- DSP (Double Side Polished) wafers
- Epitaxial wafers
- SSP (Single Side Polished) wafers
- CAP wafers for encapsulation



 Customer support for pilot projects (e.g. new customised solutions, R&D co-operation, oxidation and nitride deposition)



Okmetic worldwide

EU

USA

Asia





Texas, USA

Allen plant

US sales

Finland

- Vantaa plant
- EU sales
- Asia sales
- Group headquarters

Sales representatives China, Korea, Taiwan, USA



Japan, Tokyo

- Japan sales
- Fab lite capacity

China

Fab lite capacity

Hong Kong

Asia-Pacific sales



Okmetic serves three industrial sectors



Sensor industry

- Market 7.1 billion USD
- Most important area of growth and investment
- Okmetic is the market leader



Semiconductor industry

- Market 298 billion USD
- Specialist products for target customers
- Okmetic is a valued and reliable supplier



Solar cell industry

- Market 30 billion USD
- Materials and know-how for boosting customers' profitability



Division of sales by market area and customer group





	1-3Q	1-3Q
	2011	2010
North America	36%	43%
Europe	29%	26%
Asia	35%	31%



ΟΚΜΕΤΙΟ

15.11.2011/MT

Supply chain of sensor products





Solar (Photo Voltaic) value chain



- Semiconductor technology is widely applied in Solar industry
- Mono Si based modules have 30-35% share of the total PV market



Examples of automotive sensors





Smart phones, mobile PC's and tablets fueling growth in the device market





Okmetic's strengths



Crystal growing



Sensor wafer manufacturing



Customer relations

We are the global market leader in silicon-based solutions in our chosen market segments as well as a technological pioneer.



Okmetic's R&D model – utilisation of external reseach partners and close co-operation with customers





Bonded SOI wafer process





Okmetic R&D keeping pace with evolution



 Okmetic's R&D makes sure that we have the right products and technologies now and in the future to ensure Okmetic's long-term growth and profitability

ΟΚΜΕΤΙΟ

Thank You!

