

TOPSIL

Danske Markets, 29 November 2012





- 1. Topsil in brief
- 2. Strategy "Executing on Opportunities"
- 3. Questions



*****TOPSIL HAS BEEN IN BUSINESS FOR MORE THAN HALF A CENTURY**

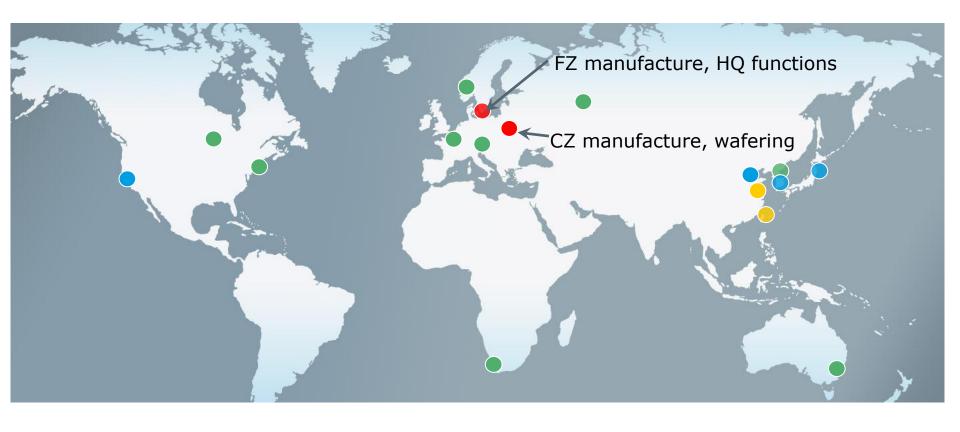
- Ultrapure silicon for semiconductor industry, founded 1958
- Listed on NASDAQ OMX Nordic stock exchange since 1986
- Revenue 2011 DKK 367m/369 employees end year
- Focus on Power Market, estimated worth DKK 5.8 billion, corresponding to about 1/10 of aggregated semiconductor market 2011*

* Sources Yole Developpement and Semiconductor Equipment and Materials International (SEMI)





CORPORATE LOCATIONS



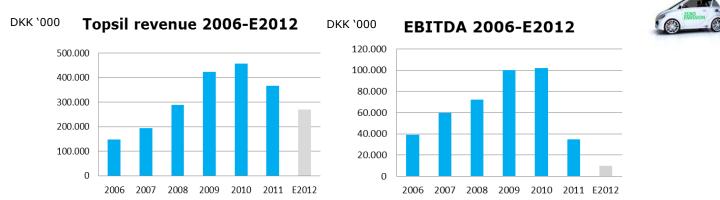
- Sales and production
- Contract manufacturing

- Sales representation
- Contract Irradiation



MACRO ECONOMIC DRIVERS

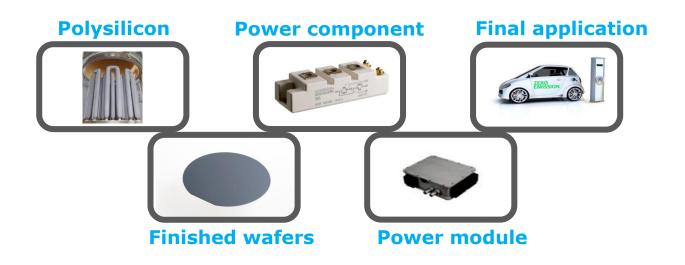
- Industry: Continued focus on energy-efficient solutions in industry, e.g. industrial motors ("Smart power")
- Transportation: Continued movement towards more efficient and more climatefriendly transport of people and goods
- Automotive: Number of hybrid and electrical vehicles on the increase
- Renewable energy sources: PV and wind on the increase
- Infrastructure: Investments in integration of new energy sources in existing grids (Smart Grids etc.)
- Main risks: Financing, manufacturing and supply chain bottle necks, availability
 of raw materials, change of political focus (debt crisis, green power)





TOPSIL FORMS PART OF A WIDER VALUE CHAIN

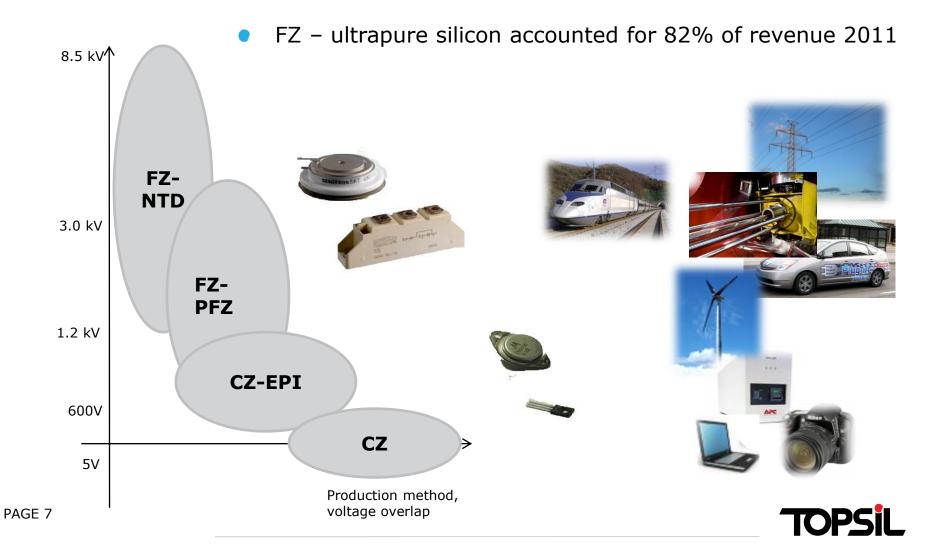
- Supply of advanced niche products
- Few but large players throughout value chain
- Long production cycles, high entrance barriers to industry
- Inter-dependency long term relations in industry
- Topsil: Long term agreements with raw material suppliers and six main customers
- Customer requirements: Uniform, high quality products, on time delivery and price





PRODUCTION METHODS,

APPLICATIONS







*****NEW STRATEGY - BACKGROUND**

The last two strategies have focused on investments while cash flow has been negative.

Market

- Highly specialised supply chain and long qualification cycles
- Long term growth perspective intact
- During 2007-2010: very favourable market conditions, under capacity in the FZ market
- Change of market in 2011, over capacity due to severe demand reduction (end user demand and reductions of inventories in supply chain)
- High interest in 200 mm FZ-PFZ silicon



*****NEW STRATEGY - BACKGROUND**

Topsil

- Production yield and efficiency below market standard
- Lack of execution: Historically too many significant delays in key projects
- Topsil acquired subsidiary in 2008 slow pace of integration
- European based
- State-of-art float zone plant close to completion, now officially opened
- New equipment, DK and PL
- World class in-house power silicon and FZ competences
- New products with improved capabilities
- New 200 mm ultrapure silicon
- New quality standards, TS16949 certification



EXECUTING ON OPPORTUNITIES

MAIN POINTS

- Focus on value/improving liquidity, utilising investments already made:
 - Strengthen market position in PFZ
 - Expand position in Japan and China
 - Improve cash flow
 - Enhance wafer production efficiency



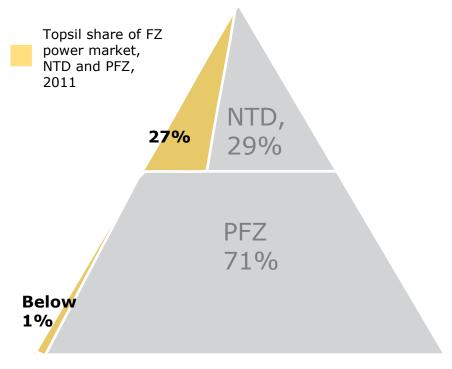
200 mm





EXECUTING ON OPPORTUNITIES

STRENGTHEN PFZ MARKET POSITION



NTD relative to PFZ on power market

Source: Yole Developpement, 2012

- In 2010 new 150 mm PFZ silicon was introduced, based on patented manufacturing process
- Strong market acceptance of product performance
- Reduced market opportunities due to:
 - Slow down in demand
 - Established supplier relationships already exist
- Product launch of new 200 mm PFZ silicon while qualification window is still open





EXECUTING ON OPPORTUNITIES

Taiwan

Japan

Americas

Europe

China

EXPAND POSITION JP/CN

Japan: Increase market share

2008: 5000 Yen = 227 DKK

2009: 5000 Yen = 278 DKK

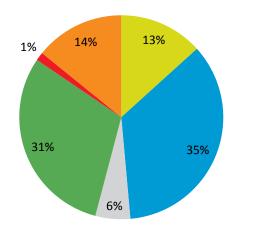
2011: 5000Yen = 333 DKK

2012: 5000 Yen = 382 DKK (August)

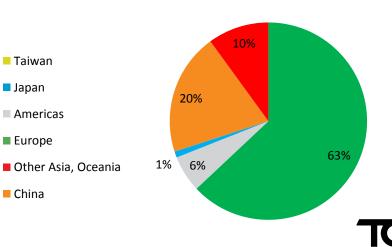
China: Build strategic position

- We have been brought in by our European customers in the past
- Strengthen position by providing support locally

FZ market distribution, **Topsil estimate 2011**



Topsil, FZ revenue, geographical split 2011



EXECUTING ON OPPORTUNITIESIMPROVE CASH FLOW

- Significant investments have been made in recent years now is the time to make a return on these investments
 - Acquisition of subsidiary, Topsil S.A.
 - New plant for the manufacture of ultrapure silicon
 - State-of-art equipment for the manufacture of ultrapure silicon
 - Upgrade of equipment in Topsil S.A. in support of further processing (wafering)
- Limited new investments, full utilisation of potential following from investments already made
- Focus on reduction of working capital and increasing cash flows from operations



ENHANCE PRODUCTION EFFICIENCY

- We have constructed the most modern ultrapure silicon factory of the world and have world class expertise – but our manufacturing performance is lacking
- Improve manufacturing performance
 - Improve yield in our manufacturing
 - Manufacture of ultrapure silicon
 - Further processing (wafering)
 - Labour efficiency
- Increased capacity utilisation



MANAGEMENT FOCUS

FROM

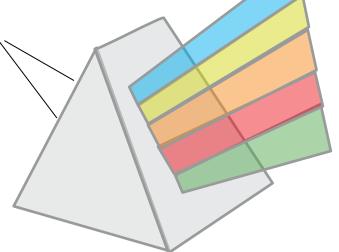
Two companies (Topsil, DK & Topsil, PL)

European focussed business

High dependency on only one product

Unclear application focus

Cash consumption



TO

One integrated global business

Focus on wafers for power

Two legs – NTD and PFZ

World class FZ manufacturing

Cash generation



THANKS

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