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"Safe Harbor" Statement



Statements in this presentation which are not historical facts, and the assumptions underlying such statements, constitute "forward-looking statements" and assumptions underlying "forward-looking statements" within the meaning of Section 27A of the Securities Act of 1933 and Section 21E of the Securities Exchange Act of 1934 including, but are not limited to, (a) statements regarding future product introductions and performance metrics, (b) statements regarding 2008 and other future financial performance, (c) statements regarding future development and growth in the Company's markets, and (d) statements regarding projected benefits of the Intel and involve a number of risks and uncertainties, including acquisition. whether such product introductions will be successful and whether such performance will be achieved, and whether such developments and growth will occur. Readers should also review the risk factors set forth in EMCORE's Annual Report on Form 10-K for the fiscal year ended September 30, 2007. These forward-looking statements are made as of the date hereof, and **EMCORE** does not assume any obligation to update these statements.

EMCORE's Business Units



Global Communications and Power at the Speed of Light

Space and Terrestrial Solar Power Based on Multi-Junction Solar Cells

Photovoltaics Solar Power (EPV)	Emcore Solar Power (ESP)
Space Solar Cells Space Solar Panels CPV Solar Cells	
	Solar Power System Based on CPV Cells

Fiber Optic Components & Systems for Broadband, 10G Ethernet, Datacom & Telecom

Fiber Optics Broadband (EBB)	Fiber Optics Data/Telecom (EDP)	
CATV Tx/Rx FTTx Tx, PON TRx RF over fiber links Fiber-optic gyro Video Transport		
	DataCom Component Telecom Component 10 GE TRx (LX4, CX4) Parallel Optical TRx	

Photovoltaics Division

EMCORE Photovoltaics Business

- Established in 1998 for space power
- Current products
 - Space solar cells
 - Space solar panels
 - Terrestrial CPV cells
- Outstanding on-orbit performance and reliability history
- EMCORE's entry into the space market <u>effectively eliminated the use of silicon</u> solar cells in high power GEO satellites
 - Mid 1990s, 80% of satellites were powered by silicon solar cells
 - Today over 80% of new satellites are powered by multi-junction solar cells







Leading III-V Solar Cell Technology Replacing Silicon Based Applications



- EMCORE's Technology Employs Three Compound Semiconductor Solar Cells in Series
 - Each cell is tuned to absorb a different color of light
- By Converting More Sunlight into Electricity, EMCORE's Solar Cells Operate at Higher Efficiency
- III-V Multi-Junction Technology Improvements Promise Still Higher Future Performance





Market Drivers

Commercial Satellites: Demands for space solar cells/panels continue to be strong

- Industry is at the leading edge of a replacement cycle as many of the satellites launched in the early 1990's reach the end of their useful life
- As one of the only two viable suppliers, EMCORE offers the best performance in the industry with outstanding space heritage and a strong reliability record
- Government/Defense Programs: EMCORE is a leading engineering and manufacturing service company for government/defense programs
 - Technology leader: Record high-efficiency solar cells for space applications (33% with IMM design), recognized for R&D100 award,
 - Our solar cells/panels have been baselined in a number of big government programs to be awarded in the next several months.

Terrestrial Application of Triple Junction Solar Cell with Concentrator



Utilizes advanced solar cells to provide the most cost effective solution

- Lens concentrates solar flux from 500 to 1,000 times normal irradiance
- Area of solar cell is then reduced by a factor of 500 to 1,000 compared to a full coverage
- Conversion efficiency improves under concentrated illumination
 - 38% cell efficiency in production
 - 40% cell efficiency recently achieved







Crystalline Si: Conversion efficiency of 12-15% at module level

- Pros:

 Predominant technology
 - Most versatile for all applications
- Cons:
 Si shortage (at least until late 2008)
 - Relatively high price: ~\$3.5-3.8/W

Thin Film: Conversion efficiency of 5-10% at module level

- Pros:
 Most cost effective ~\$2/W
 - Easy to scale up in production
- Cons:

 Low efficiency of surface area/land use
 - Environmental concerns with some materials (Cadmium Telluride)

Concentrator Photovoltaics (CPV): efficiency of 25-30% at module level

- Pros:
- More cost effective: ~\$3.6/W now and <\$2/W in 3 years
 - Most efficient land use more power generated per area
 - Less equipment and material requirement for production scale up
- Cons:
- Suitable for commercial, agricultural, and power utility applications
- More efficient for direct illumination than diffused light

Terrestrial Concentrator Solar Cells – *History & Roadmap*



EMCORE Solar Cell Technology – Performance at 500x



45.0%

CPV Market and Emcore Strategy



Market

- "Sweet spots" for CPV products are geographic areas with high level of Direct Normal Irradiance (DNI), such as Spain, Italy, Australia, UAE, and US Southwestern states.
- Over 20 pilot installations worldwide, of which 2-3 projects are over 1MW.
- A increasing number of developers, owner/operators, banks, and investors are beginning to view CPV as the most competitive solution in certain markets.
- Although the uncertainties on Investment Tax Credit (ITC) in the US and new Feed In Tariffs (FIT) in Spain several months ago resulted in a slowdown in new solar technology adoption, recently approved extensions of these policies should result in an acceleration of CPV adoption and installation in these markets.
- Due to the emerging nature of CPV, investors are validating the power production economics through pilot installations in a variety of geographic markets.

Strategy

- Utilize the current product (Gen-II) to develop market acceptance,
- Team up with strategic partners for international market penetration,
- Accelerate the development and production of the next-Gen (Gen-III) low-cost system for large-volume deployment. Gen-III's hardware cost target is \$1.75/Watt and is scheduled for commercial launch in the second half of 2009.

Terrestrial CPV Components



- Achieved >40% efficient (under 1000x) solar cells from triple-junction design.
- Shipping minimum average 38% efficient CPV cells.
- Three Albuquerque receiver lines fully operational with China close to launch.
- Demonstrated record performance from the IMM design, project CPV efficiency of 42-45%, targeted to be in production in 2009.
- Providing standard and custom form factors to over 20 CPV customers.
- June backlog for CPV components totaled \$52.5M from a diverse customer base, of which \$33M is scheduled to ship in FY09.



CPV System Milestones



Performance

 Performance at or above the design target. Overall system efficiency ~28%

System Certification

- CE and UL certified
- IEC certification expected by November 2008









Terrestrial CPV Systems



Spain

- Extremadura (0.85MW in 2008)
 - Completed construction and connected to the power grid in September 2008
- ISFOC (0.3MW in 2008)
 - Shipped all modules, construction and connection to complete by December
- SolarIG (0.1MW in 2008)
 - 100-kW pilot modules shipped and installation scheduled to complete by end of November

United States

SunPeak Solar

 Jointly bidding on a number of US utility projects, short listed on a SoCal utility project (115 MW). Award is expected to be announced by the end of CY2008.

A Strategic Partner

- Jointly bidding on a utility project in Southwest (50-80MW), short list will be announced by the end of November.
- A number of projects under development with various financial partners

Other Countries

Many projects in Korea, Canada, China, India, Italy, and UAE are under development.



- Perfect synergy on CPV value chain
- EMCORE to develop CPV products
 - High-performance and low cost
- EMCORE/Partner to manufacture CPV systems w/ leverage from the Partner
 - Greater purchasing power
 - International operations
- Jointly develop markets through pilot installations in multiple countries
- Long Term supply agreement on CPV systems



Broadband Market Drivers



Video Services and "Triple Play" Bandwidth are Driving the Market



EMCORE PROPRIETARY INFORMATION

Broadband Products



CATV	FTTx	VIDEO	SPECIALTY
CATV Transmitters & Receivers, Subassembly Boards, Lasers, Photodiodes	1550nm Transmitters, Video Receivers, PON Transceivers, EDFA's	Analog Video, HDTV/DTV Video, Mobile Video and IP Transport	RF Satellite Links Tx/Rx/Delay Lines, FOG's, THz, Lithium Niobate Devices

Broadband Business



We are a leading provider of Broadband Components and Systems
 Consolidated technology, IP, product portfolio & CATV customer base

- Positioned as "Arms Merchant" to MSO and Telecom for broadband buildout to offer "triple play" services
 - Major supplier to equipment OEMs serving multi-service operators (MSO's)
 - ~80% share of the non-captive market in the US
 - Emerging supplier of FTTP components
 - One of the two qualified B-PON transceiver suppliers to Verizon, and gaining market share
 - Approved vendor to 3 major G-PON transceiver customers
 - Competitive cost through China manufacturing and vertical integration

Market Drivers of CATV Business

- Upgrade HFC network to 1 GHz to offer more value-added premium services
- Build new networks to businesses to offer commercial services
- Strong overseas market demand in Eastern Europe, Russia, India, China, etc.

Penetrated into the high growth video transport and IPTV markets

Telecom / Datacom Products



Telecom Transport	Parallel Optics	LAN / SAN	Components
 Full C&L-Band Tunable Lasers, ITLAs, & trspdrs 300-pin Transponders, 80-km XFP 	 2.5 & 5Gb/s per ch parallel Optic Tx / Rx in SNAP-12 4-lane parallel TxRx OMC TxRx-based optical cable 	 Xenpak/X2 LX4, CX4, LR, SR, ER TxRxs 1/2/4 Gb/s SFF/SFP TxRx SFP+ and XFP TxRxs 	 10 Gb/s VCSELs & PDs 10Gb/s DFB & PDs GPON TO Cans 1-10 Gb/s TOSA/ROSA
		A CONTRACTOR OF THE REAL PROPERTY OF THE REAL PROPE	

Enhanced Fiber Optics Positioning



RHK viewed Intel as one of the most diverse supplier of Optical modules
Acquisition of Intel's OPD moves EMCORE into a leading industry position



"EMCORE has proven it can grow its business through selective product offerings in optical components. Its acquisition of much of Intel's OPD is another example. Clearly EMCORE was interested in entering the full-band tunable transponder market. It acquired good technology from Intel that can bring in revenue today" – Ovum RHK

Intel's Asset Acquisition



Strengthens EMCORE's competitive position in Telecom, LAN, SAN, and high-performance computing

Strong synergy with EMCORE's infrastructure and products

- Combined with internal laser and photodetector capability, EMCORE will be one of the few vertically integrated telecom fiber optics module suppliers.
- Ability to amortize existing fab and contract manufacturer infrastructure costs to improve gross margin.

Status of integration

- Transition services completed in August,
- Both the Telecom and Enterprise businesses are fully integrated,
- Customers are happy with the smooth transition and more dedicated service from EMCORE,
- Consolidation synergy and financial benefits are being recognized.

Recent Developments



Strategic Partner

An agreement (MOU) was signed in August with an international conglomerate to jointly develop solar power projects in the US and internationally.

• A Joint Bid with the Partner on a 50-80MW Project

Submitted in October, short list for this project with a Southwestern utility company in the US will be announced by the end of November.

• A \$25M Line of Credit with Bank of America Was Established

Closed in September, this credit facility will assist with the need of working capital for solar business.

• A \$27M Industry Revenue Bond (IRB) Was Granted by City of Albuquerque

Signed in October, this IRB will be utilized to offset the tax liability for new investment in our solar business in Albuquerque.





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