

LED and OLED Global Markets, 2nd Edition

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Abstracts

This research report presents an in-depth analysis of the development, performance, applications, products, manufacturers, and trends in the worldwide use of light emitting diodes (LEDs) and organic light emitting diodes (OLEDs). LEDs are now widely used in mobile electronics, flat panel televisions, traffic signals, automotive lights and signals, and general illumination among many other applications. OLEDs are not as common and are typically used for small electronic displays. However, they have all but taken over the display market for smart phones, displacing LEDs as they do so. Significant strides have been made in LED and OLED manufacturing, performance, and product applications over the past five years and both technologies are now poised to revolutionize the lighting and electronics industry with their long-lifetimes and an energy-efficient operation.

This report contains a comprehensive analysis of the current market for LED and OLED technologies as well as projections for market size and end-use application growth through 2022. Marketing concerns including cost, energy demand, environmental impacts, economic conditions, consumer acceptance, intellectual property rights, and government activities are discussed in detail. The report also profiles major manufacturers and marketers of LEDs and OLEDs and the strategies they have adopted to maximize growth and profitability.

LEDs have been used in many industrial, business, and consumer applications for a number of years and are now beginning to penetrate the general illumination market in significant numbers. OLEDs are also becoming more widely used and are expected to have significant impacts on the flat panel television market and the general illumination market within the next five years. Cost has been – and remains – the final obstacle to rapid growth of both LEDs and OLEDs since the brightness levels and operational lifetimes have surpassed that of incandescent and fluorescent lighting products. From mobile phones to automobiles to billboards to television sets and virtually every other

product that requires lighting, LEDs and OLEDs have proven their many advantages over alternative lighting technologies. This report delineates these advantages and the potential impacts LED and OLED technologies bring to various markets and applications for the next ten years.

Contents

CHAPTER 1 EXECUTIVE SUMMARY

Scope

Research Methodology

Solid State Lighting (SSL)

Figure 1-1 Historical Electric Rates & Electricity Generation – United States 1990-2011 (cents per kWh, Gigawatt-hour (GWh))

Figure 1-2 Projected Energy Consumption Reductions from LED Lighting, (2010-2030)

Light emitting Diodes (LEDs)

Figure 1-3 LED Schematic

Table 1-1 LED Semiconductor Materials and Associated Light Color

Organic Light Emitting Diodes (OLEDs)

Figure 1-4 Typical OLED Construction

SSL Applications

LED Applications

OLED Applications

Figure 1-5 Example of OLED Lighting

LED and OLED Advantages

Table 1-2 Advantages of LEDs and OLEDs

OLED Advantages Over LEDs

OLED Advantages over LCDs

LED and OLED Disadvantages

The Current Market for LEDs and OLEDs

Figure 1-6 LED and OLED Market 2008-2012 (\$ billions)

Figure 1-7 Selected LED and OLED Markets 2008-2012 (\$ billions)

Factors Enhancing and Inhibiting LED and OLED Growth

Manufacturing costs

Economic Conditions

Demand for Energy Efficient Lighting

Energy and Fuel Costs

Environmental Concerns

New Applications

Common Standards

The Market for LEDs and OLEDs 2013-2022

Packaged LED Market Growth

Figure 1-8 Packaged LED Market Growth 2013-2022 (\$ billions)

Figure 1-9 Packaged LED Market by Country 2013-2022 (\$ billions)

LED General Illumination Market Growth

Figure 1-10 Global Lighting Market by Lighting Technology 2013-2022(\$ billions)

OLED Market Growth

Figure 1-11 OLED Market Size 2013-2022 (\$ billions)

Summary

Figure 1-12 LED and OLED Market Size 2013-2022 (\$ billions)

CHAPTER 2 LED MARKET DESCRIPTION

Scope

Light Emitting Diodes Defined

Diode Overview

Figure 2-1: P-N Junction Materials

Figure 2-2: P-N Junction Formation

Figure 2-3: P-N Junction Depletion Zone

Figure 2-4: P-N Junction Depletion Zone Removal

Semiconductor Materials

Table 2-1: LED Semiconductor Materials and Associated Light Color .. 34

LED Light Color

Figure 2-5: LED White Light Production

Table 2-2: White LED Production Methods – Advantages and Disadvantages

History of LEDs

Figure 2-6: Haitz's Law (Flux per LED – Lumens (lm))

Advantages of LEDs

Table 2-3: Light Technology Lifetimes (Hours)

Table 2-4: Advantages of LEDs

Disadvantages of LEDs

Table 2-5: 60-watt Equivalent Light Bulb Costs

LED Efficiency

Figure 2-7: CIE Uniform Chromaticity Scale (UCS) diagram (1960)

LED Manufacturing Process

Figure 2-8: LED Wafer

Figure 2-9 LED Packages – Examples

High Brightness LEDs

LED Drivers

Packaged LEDs

LED Applications

Automotive

Figure 2-10: Global New Automobile Production 1999-2012 (millions)

Backlighting & Projection
Mobile
Signals
Signs and Displays
General Illumination Applications
Industrial, Medical, Scientific
Summary

CHAPTER 3 LED MARKET SIZE AND GROWTH

Scope

LED Market Components

The Packaged LED Market Today

Figure 3-1: Global Packaged LED Market, 2008–2012 (\$ billions)

Figure 3-2: Global Packaged LED Market by Region, 2008–2012(\$ billions)

Figure 3-3: Global Packaged LED Market by Segment, 2008–2012(\$ billions)

The LED Lighting Market Today

Figure 3-4: Global Lighting Market, 2008–2012 (\$ billions)

LED Market Growth Drivers and Inhibitors

Table 3-1: 60 Watt Equivalent Bulb – Price Comparison (October 2012)

Cost Reduction

Economic Conditions

Demand for Energy Efficient Lighting

Figure 3-5: U.S. Household Usage of Compact Fluorescent and Energy Efficient Lighting, 2003-2012 (percent of households)

Energy and Fuel Costs

Figure 3-6: Projected Energy Consumption Reductions from LED Lighting (2010-2030)

The Green Movement

Common Standards

Incandescent Bulb Phase-Out

Figure 3-7: Percent of World Population and Electric Consumption Affected by Incandescent Light Bulb Restrictions

New Applications

LED Market Growth 2013-2022

Overall LED Market Growth

Figure 3-8: LED Market Size 2013-2022 (\$ billions)

Regional Growth – Packaged LEDs

Table 3-2: World Economic Growth Rates (Selected Countries)

Figure 3-9: Packaged LED Market by Region 2013-2022 (\$ billions)

Figure 3-10: Packaged LED Market by Region 2013-2022 (\$ billions)

Country Growth – Packaged LEDs

Figure 3-11: Packaged LED Market by Country 2013-2022 (\$ billions)

Table 3-3: Packaged LED Market by Country (2013-2022 - Selected Countries) (\$ billions)

The Packaged LED Market – by Segment

Figure 3-12: Packaged LED Market by Segment 2013-2022 (\$ billions)

General Illumination Market

Figure 3-13: Packaged LED Market – General Illumination and Signals 2013-2022 (\$ billions)

Signals Market

Mobile Market

Figure 3-14: Packaged LED Market – Mobile and Backlighting & Projection 2013-2022 (\$ billions)

Backlighting & Projection Market

Automotive Market

Figure 3-15: Packaged LED Market – Automotive 2013-2022 (\$ billions)

Signs and Displays

Figure 3-16: Packaged LED Market – Signs & Displays and Industrial, Medical, Scientific 2013-2022 (\$ billions)

Industrial, Medical, Scientific

The LED Lighting Market

Figure 3-17: Global Lighting Market by Lighting Technology 2013-2017(\$ billions)

Figure 3-18: Global Lighting Market by Lighting Technology 2013-2022(\$ billions)

Regional Growth

Figure 3-19: Global Lighting Market by Region 2013-2022 (\$ billions)

Country Growth

Figure 3-20: Global Lighting Market by Country 2013-2022 (\$ billions)

Summary

CHAPTER 4 OLED MARKET AND GROWTH

Scope

Organic Light Emitting Diodes (OLEDs)

Figure 4-1: Typical OLED Construction

Types of OLEDs

OLED History

OLED Manufacturing

- OLED Advantages
 - Advantages over LCDs
 - OLED Disadvantages
- OLED Market and Growth
 - The OLED Market 2008-2012
 - Figure 4-2: OLED Market Growth 2008-2012 (\$ billions)
 - Figure 4-3: OLED Display Units 2008-2012 (millions)
 - OLED Market Share
 - Figure 4-4: OLED Company Market Share 2008-2012 (percent of market by display units produced)
 - OLED Growth Factors
- Small Display OLED Market
 - Figure 4-5: Small Display OLED Market 2013-2022 (\$ billions)
- OLED Flat Panel Television Market
 - Figure 4-6: OLED TV Market 2013-2022 (\$ billions)
- OLED Lighting Market
 - Table 4-1: OLED Lighting Panels and Performance Characteristics
 - Figure 4-7: OLED Light Fixture Example
 - Figure 4-8: OLED General Illumination Market 2013-2022 (\$ billions) 116
- OLED Market Growth 2013-2022
 - Figure 4-9: OLED Market Size 2013-2022 (\$ billions)
- Summary

CHAPTER 5 PRODUCT AND MARKET TRENDS

- Scope
- Reducing LED and OLED Failure Rates
 - Chip Failure
 - Table 5-1: Multiple LED Failure Rates (Probability of 3 or more LEDs failing in a 50-LED luminaire)
 - Non-illumination Failure
- Street Lighting
 - Table 5-2: LED versus Comparative Street Lighting Technologies
- Equivalent Costs
 - Table 5-3: LED and Conventional Street Lighting Lifetimes and Maintenance Costs
- Municipal Solid-State Street Lighting Consortium
 - Table 5-4: Municipal Solid-State Street Lighting Consortium Test Results (Selected Cities)
- LightSavers Program

LED Street Lighting Effectiveness

Figure 5-1: LED and Metal Halide Lighting Comparison

Economics of LED Street Lighting

New Products

Government Initiatives

U.S. Department of Energy (DOE) Initiatives

The L Prize

Figure 5-2: L Prize Winning Entry

Other Countries

LED Manufacturing Advances

OLED Manufacturing Advances

Table 5-5: OLED Substrate GEN Size

LED Patents

OLED Patents

LED and OLED Distribution Channels

Retail Stores

Internet

Catalogs

Trade Shows and Other Channels

Summary

CHAPTER 6 COMPETITIVE PROFILES

Scope

Cree, Inc.

Overview

Business Model

Mergers and Acquisitions

Company Performance

Table 6-1: Cree, Inc. Company Information

Product Portfolio

Table 6-2: Cree, Inc. Product Portfolio

Product Distribution

Significant Developments

Philips Lumileds Lighting Company

Overview

Business Model

Company Performance

Table 6-3: Philips Lumileds - Company Information

Product Portfolio

Table 6-4: Philips Lumileds Product Portfolio

Product Distribution

Significant Developments

OSRAM GmbH

Overview

Business Model

Company Performance

Table 6-5: OSRAM GmbH - Company Information

Product Portfolio

Table 6-6: Osram Product Portfolio

Product Distribution

Significant Developments

OSRAM SYLVANIA

Overview

Business Model

Company Performance

Table 6-7: OSRAM SYLVANIA - Company Information

Product Portfolio

Table 6-8: OSRAM SYLVANIA Product Portfolio

Product Distribution

Significant Developments

Nichia Corporation

Overview

Business Model

Company Performance

Table 6-9: Nichia - Company Information

Product Portfolio

Table 6-10: Nichia Product Portfolio

Product Distribution

Significant Developments

GE Lighting Solutions, LLC

Overview

Business Model

Company Performance

Table 6-11: GE Lighting Solutions - Company Information

Product Portfolio

Table 6-12: GE Lighting Product Portfolio

Product Distribution

Significant Developments

Samsung Display Company, Ltd

Overview

Business Model

Company Performance

Table 6-13: Samsung Display - Company Information

Product Portfolio

Table 6-14: Samsung SDI Product Portfolio

Product Distribution

Significant Developments

AU Optronics Corporation

Overview

Business Model

Company Performance

Table 6-15: AU Optronics - Company Information

Product Portfolio

Table 6-16: AUO Product Portfolio

Product Distribution

Significant Developments

Lumiotec Inc

Overview

Business Model

Company Performance

Table 6-17: Lumiotec - Company Information

Product Portfolio

Table 6-18: Lumiotec Product Portfolio

Significant Developments

Appendix

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