

Insulated-Gate Bipolar Transistors (IGBTs) Market by Type (Discrete IGBT, IGBT Module), Power Rate (High Power, Medium Power, Low Power), Application (Energy & Power, Consumer Electronics, Inverter & UPS, Electric Vehicle) - Global Opportunity Analysis and Industry Forecast, 2014 - 2022

<https://marketpublishers.com/r/IC9F4E9ACE1EN.html>

Date: October 2016

Pages: 155

Price: US\$ 4,999.00 (Single User License)

ID: IC9F4E9ACE1EN

Abstracts

Insulated-Gate Bipolar Transistor (IGBT) is a three-terminal electronic switching device, which is a combination of Metal–Oxide–Semiconductor Field-Effect Transistor (MOSFET) and Bipolar Junction Transistor (BJT) in monolithic form. It allows the flow of power only when the gate terminal is connected to the positive supply of the source. Moreover, it is a minority-carrier device with several benefits such as large bipolar current-carrying capability and high input impedance. IGBT aims to deliver faster switching rate and higher efficiency to enable proper operations at high voltage or high current. In addition, it can be used for dynamic braking, where the power is dissipated by resistors that are connected in parallel or in series. It is widely used in high power rating applications, which include electric vehicle motor drives, inductive heating cookers, and appliance motor drives.

IGBT is widely used in various applications such as renewable energy, High Voltage Direct Current (HVDC), motor drive, and consumer electronics, owing to its faster switching rate, high efficiency, and improved durability. Moreover, it supports high input impedance and improved parallel current sharing; thereby, fueling the market growth. However, performance issues, such as current leakage and breakdown, hamper the market growth. Proactive government initiatives to establish HVDCs & smart grids and increase in demand for consumer electronic are expected to provide lucrative opportunities to market players in the near future.

The world IGBT market is segmented on the basis of type, power rating, application,

and geography. The type segment is bifurcated into discrete IGBT and IGBT modules. The power rating segment includes high power, medium power, and low power IGBTs. Based on application, the market is segment into energy & power, consumer electronics, inverter & UPS, electrical vehicle, industrial system, and others. Based on geography, the market is analyzed into North America (U.S., Mexico, and Canada), Europe (UK, Germany, France, and rest of Europe), Asia-Pacific (China, India, Japan, South Korea, and rest of Asia-Pacific), and LAMEA (Latin America, Middle East, and Africa).

The major companies profiled in the report include ABB Group, STMicroelectronics N.V., Toshiba Corporation, IXYS Corporation, Renesas Electronics Corp, Semikron International GmbH, Mitsubishi Electric Corp., Infineon Technologies AG, Fuji Electric Co. Ltd., and NXP Semiconductors N.V.

POTENTIAL BENEFITS FOR STAKEHOLDERS

Comprehensive analysis of the current trends and future estimations in the world IGBT market is provided in the report

The report provides a competitive scenario of the market with growth trends, structure, driving factors, scope, opportunities, and challenges

The report includes a detailed analysis of the key segments to provide insights on the market dynamics

Porter's Five Forces analysis highlights the potential of buyers and suppliers as well as provides insights on the competitive structure of the market to devise effective growth strategies and facilitate better decision-making

Value chain analysis provides key inputs on the role of stakeholders involved at various stages

MARKET SEGMENTATION

The world IGBT market is segmented on the basis of type, power rating, application, and geography.

BY TYPE

Discrete IGBT

IGBT Module

BY POWER RATING

High Power

Medium Power

Low Power

BY APPLICATION

Energy & Power

Consumer Electronics

Inverter & UPS

Electric Vehicle

Industrial System

Others (Medical Devices & Traction)

BY GEOGRAPHY

North America

U.S.

Mexico

Canada

Europe

UK

Germany

France

Rest of Europe

Asia-Pacific

India

China

Japan

South Korea

Rest of Asia-Pacific

LAMEA

Latin America

Middle East

Africa

KEY PLAYERS

ABB Group

STMicroelectronics N.V.

Toshiba Corporation

IXYS Corporation

Renesas Electronics Corp.

Semikron International GmbH

Mitsubishi Electric Corp.,

Infineon Technologies AG

Fuji Electric Co. Ltd.

NXP Semiconductors N.V.

Contents

CHAPTER 1 INTRODUCTION

- 1.1 Report Description
- 1.2 Key Benefits
- 1.3 Key Market Segments
- 1.4 Research Methodology
 - 1.4.1 Secondary Research
 - 1.4.2 Primary Research
 - 1.4.3 Analyst Tools and Models

CHAPTER 2 EXECUTIVE SUMMARY

- 2.1 CXO Perspective

CHAPTER 3 MARKET OVERVIEW

- 3.1 Market Definition and Scope
- 3.2 Key Findings
 - 3.2.1 Top Impacting Factors
 - 3.2.2 Top Investment Pockets
 - 3.2.3 Top Winning Strategies
- 3.3 Porters Five Forces Analysis
 - 3.3.1 Bargaining Power of Suppliers
 - 3.3.2 Bargaining Power of Buyers
 - 3.3.3 Threat of Substitution
 - 3.3.4 Threat of New Entrants
 - 3.3.5 Competitive Rivalry
- 3.4 Market Share Analysis, 2015 (%)
- 3.5 IGBT Market: Value Chain Analysis
- 3.6 Market Dynamics
 - 3.6.1 Drivers
 - 3.6.1.1 Increasing demand for electric vehicle
 - 3.6.1.2 Aggrandized need for high voltage operating devices
 - 3.6.1.3 Enhanced efficiency
 - 3.6.2 Restraints
 - 3.6.2.1 Current leakage at high temperature
 - 3.6.3 Opportunities

3.6.3.1 Government initiatives to establish HVDC and smart grid

CHAPTER 4 WORLD INSULATED GATE BIPOLAR TRANSISTORS (IGBTS) MARKET, BY TYPE

4.1 Discrete IGBT

- 4.1.1 Key Market Trends
- 4.1.2 Key Drivers and Opportunities
- 4.1.3 Market Size and Forecast

4.2 IGBT Module

- 4.2.1 Key Market Trends
- 4.2.2 Key Drivers and Opportunities
- 4.2.3 Market Size and Forecast

CHAPTER 5 WORLD INSULATED GATE BIPOLAR TRANSISTORS (IGBTS) MARKET, BY POWER RATING

5.1 High power

- 5.1.1 Key Market Trends
- 5.1.2 Key Drivers and Opportunities
- 5.1.3 Market Size and Forecast

5.2 Medium power

- 5.2.1 Key Market Trends
- 5.2.2 Key Drivers and Opportunities
- 5.2.3 Market Size and Forecast

5.3 Low power

- 5.3.1 Key Market Trends
- 5.3.2 Key Drivers and Opportunities
- 5.3.3 Market Size and Forecast

CHAPTER 6 WORLD INSULATED GATE BIPOLAR TRANSISTORS (IGBTS) MARKET, BY APPLICATION

6.1 Energy & Power

- 6.1.1 Key Market Trends
- 6.1.2 Key Drivers and Opportunities
- 6.1.3 Market Size and Forecast

6.2 Consumer Electronics

- 6.2.1 Key Market Trends

- 6.2.2 Key Drivers and Opportunities
- 6.2.3 Market Size and Forecast
- 6.3 Inverter & UPS
 - 6.3.1 Key Market Trends
 - 6.3.2 Key Drivers and Opportunities
 - 6.3.3 Market Size and Forecast
- 6.4 Electric Vehicle
 - 6.4.1 Key Market Trends
 - 6.4.2 Key Drivers and Opportunities
 - 6.4.3 Market Size and Forecast
- 6.5 Industrial System
 - 6.5.1 Key Market Trends
 - 6.5.2 Key Drivers and Opportunities
 - 6.5.3 Market Size and Forecast
- 6.6 Others
 - 6.6.1 Key Market Trends
 - 6.6.2 Key Drivers and Opportunities
 - 6.6.3 Market Size and Forecast

CHAPTER 7 WORLD INSULATED GATE BIPOLAR TRANSISTORS (IGBTs) MARKET, BY GEOGRAPHY

- 7.1 North America
 - 7.1.1 Key Market Trends
 - 7.1.2 Key Drivers and Opportunities
 - 7.1.3 Market Size and Forecast
 - 7.1.4 U.S.
 - 7.1.5 Mexico
 - 7.1.6 Canada
- 7.2 Europe
 - 7.2.1 Key Market Trends
 - 7.2.2 Key Drivers and Opportunities
 - 7.2.3 Market Size and Forecast
 - 7.2.4 U.K.
 - 7.2.5 Germany
 - 7.2.6 France
 - 7.2.7 Rest of Europe
- 7.3 Asia-Pacific
 - 7.3.1 Key Market Trends

- 7.3.2 Key Drivers and Opportunities
- 7.3.3 Market Size and Forecast
- 7.3.4 China
- 7.3.5 Japan
- 7.3.6 India
- 7.3.7 South Korea
- 7.3.8 Rest of Asia-Pacific
- 7.4 LAMEA
 - 7.4.1 Key Market Trends
 - 7.4.2 Key Drivers and Opportunities
 - 7.4.3 Market Size and Forecast
 - 7.4.4 Latin America
 - 7.4.5 Middle East
 - 7.4.6 Africa

CHAPTER 8 COMPANY PROFILES

- 8.1 ABB Group
 - 8.1.1 Company Overview
 - 8.1.2 Company Snapshot
 - 8.1.3 Operating Business Segments
 - 8.1.4 Business Performance
 - 8.1.5 Key Strategic Moves and Developments
- 8.2 STMicroelectronics N.V.
 - 8.2.1 Company overview
 - 8.2.2 Operating Business Segments
 - 8.2.3 Business Performance
 - 8.2.4 Key Strategic Moves and Developments
- 8.3 Toshiba Corporation
 - 8.3.1 Company overview
 - 8.3.2 Operating Business Segments
 - 8.3.3 Business Performance
 - 8.3.4 Key Strategic Moves and Developments
- 8.4 IXYS Corporation
 - 8.4.1 Company overview
 - 8.4.2 Operating Business Segments
 - 8.4.3 Business Performance
 - 8.4.4 Key Strategic Moves and Developments
- 8.5 Renesas Electronics Corp.

- 8.5.1 Company overview
- 8.5.2 Business Performance
- 8.5.3 Key Strategic Moves and Developments
- 8.6 Semikron International GmbH
 - 8.6.1 Company overview
 - 8.6.2 Operating Business Segments
 - 8.6.3 Key Strategic Moves and Developments
- 8.7 Mitsubishi Electric Corp.
 - 8.7.1 Company Overview
 - 8.7.2 Company Snapshot
 - 8.7.3 Operating Business Segments
 - 8.7.4 Business Performance
 - 8.7.5 Key Strategic Moves and Developments
- 8.8 Infineon Technologies AG
 - 8.8.1 Company Overview
 - 8.8.2 Company Snapshot
 - 8.8.3 Operating Business Segments
 - 8.8.4 Business Performance
 - 8.8.5 Key Strategic Moves and Developments
- 8.9 Fuji Electric Co. Ltd.
 - 8.9.1 Company Overview
 - 8.9.2 Company Snapshot
 - 8.9.3 Operating Business Segments
 - 8.9.4 Business Performance
 - 8.9.5 Key Strategic Moves and Developments
- 8.10 NXP Semiconductors N.V.
 - 8.10.1 Company overview
 - 8.10.2 Business Performance
 - 8.10.3 Key Strategic Moves and Developments

List Of Tables

LIST OF TABLES

- TABLE 1 WORLD IGBT MARKET REVENUE BY GEOGRAPHY, 2014-2022 (\$MILLION)
- TABLE 2 PARAMETER COMPARISON
- TABLE 3 WORLD IGBT MARKET REVENUE BY TYPE, 2014-2022 (\$MILLION)
- TABLE 4 WORLD DISCRETE IGBT MARKET REVENUE BY GEOGRAPHY, 2014-2022 (\$MILLION)
- TABLE 5 WORLD IGBT MODULE MARKET REVENUE BY GEOGRAPHY, 2014-2022 (\$MILLION)
- TABLE 6 WORLD IGBT MARKET REVENUE BY POWER RATING, 2014-2022 (\$MILLION)
- TABLE 7 WORLD HIGH POWER IGBT MARKET REVENUE BY GEOGRAPHY, 2014-2022 (\$MILLION)
- TABLE 8 WORLD MEDIUM POWER IGBT MARKET REVENUE BY GEOGRAPHY, 2014-2022 (\$MILLION)
- TABLE 9 WORLD LOW POWER IGBT MARKET REVENUE BY GEOGRAPHY, 2014-2022 (\$MILLION)
- TABLE 10 WORLD IGBT MARKET REVENUE BY APPLICATION, 2014-2022 (\$MILLION)
- TABLE 11 WORLD ENERGY & POWER IGBT MARKET REVENUE BY GEOGRAPHY, 2014-2022 (\$MILLION)
- TABLE 12 WORLD CONSUMER ELECTRONICS IGBT MARKET REVENUE BY GEOGRAPHY, 2014-2022 (\$MILLION)
- TABLE 13 WORLD INVERTER & UPS IGBT MARKET REVENUE BY GEOGRAPHY, 2014-2022 (\$MILLION)
- TABLE 14 WORLD ELECTRIC VEHICLE IGBT MARKET REVENUE BY GEOGRAPHY, 2014-2022 (\$MILLION)
- TABLE 15 WORLD INDUSTRIAL SYSTEM IGBT MARKET REVENUE BY GEOGRAPHY, 2014-2022 (\$MILLION)
- TABLE 16 WORLD OTHERS IGBT MARKET REVENUE BY GEOGRAPHY, 2014-2022 (\$MILLION)
- TABLE 17 NORTH AMERICA IGBT MARKET, BY TYPE, 2014-2022 (\$MILLION)
- TABLE 18 EUROPE IGBT MARKET, BY TYPE, 2014-2022 (\$MILLION)
- TABLE 19 ASIA-PACIFIC IGBT MARKET, BY TYPE, 2014-2022 (\$MILLION)
- TABLE 20 LAMEA IGBT MARKET REVENUE BY TYPE, 2014-2022 (\$MILLION)
- TABLE 21 ABB GROUP: COMPANY SNAPSHOT

TABLE 22 ABB GROUP: OPERATING SEGMENTS

TABLE 23 STMICROELECTRONICS N.V.: COMPANY SNAPSHOT

TABLE 24 STMICROELECTRONICS N.V.: OPERATING SEGMENTS

TABLE 25 TOSHIBA CORPORATION: COMPANY SNAPSHOT

TABLE 26 TOSHIBA CORPORATION: OPERATING SEGMENTS

TABLE 27 IXYS CORPORATION: COMPANY SNAPSHOT

TABLE 28 IXYS CORPORATION: OPERATING SEGMENTS

TABLE 29 RENESAS ELECTRONICS CORP.: COMPANY SNAPSHOT

TABLE 30 SEMIKRON INTERNATIONAL GMBH: COMPANY SNAPSHOT

TABLE 31 SEMIKRON INTERNATIONAL GMBH: OPERATING SEGMENTS

TABLE 32 MITSUBISHI ELECTRIC CORP. - COMPANY SNAPSHOT

TABLE 33 MITSUBISHI ELECTRIC CORP. - OPERATING SEGMENTS

TABLE 34 INFINEON TECHNOLOGIES AG - COMPANY SNAPSHOT

TABLE 35 INFINEON TECHNOLOGIES AG - OPERATING SEGMENTS

TABLE 36 FUJI ELECTRIC CO, LTD- COMPANY SNAPSHOT

TABLE 37 FUJI ELECTRIC CO, LTD- OPERATING SEGMENTS

TABLE 38 NXP SEMICONDUCTORS N.V: COMPANY SNAPSHOT

List Of Figures

LIST OF FIGURES

- FIG. 1 WORLD IGBT MARKET SEGMENTS, REVENUE & CAGR
- FIG. 2 WORLD IGBT MARKET ANALYSIS, 2015 & 2022 (\$MILLION)
- FIG. 3 TOP IMPACTING FACTORS
- FIG. 4 TOP INVESTMENT POCKETS
- FIG. 5 TOP WINNING STRATEGIES IN THE IGBT MARKET (2013-2016)
- FIG. 6 TOP WINNING STRATEGIES (PERCENTAGE COMPARISON) (2013-2016)
- FIG. 7 PORTERS FIVE FORCES ANALYSIS
- FIG. 8 MARKET SHARE ANALYSIS, 2015 (%)
- FIG. 9 IGBT MARKET: VALUE CHAIN ANALYSIS
- FIG. 10 INCREASING DEMAND FOR ELECTRIC VEHICLE
- FIG. 11 CURRENT LEAKAGE
- FIG. 12 IGBT CHARACTERISTICS AT HIGH TEMPERATURE
- FIG. 13 WORLD IGBT MARKET REVENUE BY TYPE, 2015 & 2022 (% SHARE)
- FIG. 14 WORLD DISCRETE IGBT MARKET ANALYSIS, 2015 (\$MILLION)
- FIG. 15 COMPARATIVE REGIONAL MARKET SHARE ANALYSIS OF WORLD DISCRETE IGBT MARKET, 2015 & 2022 (%)
- FIG. 16 MARKET REVENUE & FORECAST OF WORLD DISCRETE IGBT MARKET, 2014-2022 (\$MILLION)
- FIG. 17 MARKET SHARE ANALYSIS BY GEOGRAPHY OF WORLD DISCRETE IGBT MARKET, 2014-2022 (%)
- FIG. 18 WORLD IGBT MODULE MARKET ANALYSIS, 2015 (\$MILLION)
- FIG. 19 COMPARATIVE REGIONAL MARKET SHARE ANALYSIS OF WORLD IGBT MODULE MARKET, 2015 & 2022 (%)
- FIG. 20 MARKET REVENUE & FORECAST OF WORLD IGBT MODULE MARKET, 2014-2022 (\$MILLION)
- FIG. 21 MARKET SHARE ANALYSIS BY GEOGRAPHY OF WORLD IGBT MODULE MARKET, 2014-2022 (%)
- FIG. 22 WORLD IGBT MARKET REVENUE BY POWER RATING, 2015 & 2022 (% SHARE)
- FIG. 23 WORLD HIGH POWER IGBT MARKET ANALYSIS, 2015 (\$MILLION)
- FIG. 24 COMPARATIVE REGIONAL MARKET SHARE ANALYSIS OF WORLD HIGH POWER IGBT MARKET, 2015 & 2022 (%)
- FIG. 25 MARKET REVENUE & FORECAST OF WORLD HIGH POWER IGBT MARKET, 2014-2022 (\$MILLION)
- FIG. 26 MARKET SHARE ANALYSIS BY GEOGRAPHY OF WORLD HIGH POWER

IGBT MARKET, 2014-2022 (%)

FIG. 27 WORLD MEDIUM POWER IGBT MARKET ANALYSIS, 2015 (\$MILLION)

FIG. 28 COMPARATIVE REGIONAL MARKET SHARE ANALYSIS OF WORLD MEDIUM POWER IGBT MARKET, 2015 & 2022 (%)

FIG. 29 MARKET REVENUE & FORECAST OF WORLD MEDIUM POWER IGBT MARKET, 2014-2022 (\$MILLION)

FIG. 30 MARKET SHARE ANALYSIS BY GEOGRAPHY OF WORLD MEDIUM POWER IGBT MARKET, 2014-2022 (%)

FIG. 31 WORLD LOW POWER IGBT MARKET ANALYSIS, 2015 (\$MILLION)

FIG. 32 COMPARATIVE REGIONAL MARKET SHARE ANALYSIS OF WORLD LOW POWER IGBT MARKET, 2015 & 2022 (%)

FIG. 33 MARKET REVENUE & FORECAST OF WORLD LOW POWER IGBT MARKET, 2014-2022 (\$MILLION)

FIG. 34 MARKET SHARE ANALYSIS BY GEOGRAPHY OF WORLD LOW POWER IGBT MARKET, 2014-2022 (%)

FIG. 35 WORLD IGBT MARKET REVENUE BY APPLICATION, 2015 & 2022 (%SHARE)

FIG. 36 WORLD ENERGY & POWER IGBT MARKET ANALYSIS, 2015 (\$MILLION)

FIG. 37 COMPARATIVE REGIONAL MARKET SHARE ANALYSIS OF WORLD ENERGY & POWER IGBT MARKET, 2015 & 2022 (%)

FIG. 38 MARKET REVENUE & FORECAST OF WORLD ENERGY & POWER IGBT MARKET, 2014-2022 (\$MILLION)

FIG. 39 MARKET SHARE ANALYSIS BY GEOGRAPHY OF WORLD ENERGY & POWER IGBT MARKET, 2014-2022 (%)

FIG. 40 WORLD CONSUMER ELECTRONICS IGBT MARKET ANALYSIS, 2015 (\$MILLION)

FIG. 41 COMPARATIVE REGIONAL MARKET SHARE ANALYSIS OF WORLD CONSUMER ELECTRONICS IGBT MARKET, 2015 & 2022 (%)

FIG. 42 MARKET REVENUE & FORECAST OF WORLD CONSUMER ELECTRONICS IGBT MARKET, 2014-2022 (\$MILLION)

FIG. 43 MARKET SHARE ANALYSIS BY GEOGRAPHY OF WORLD CONSUMER ELECTRONICS IGBT MARKET, 2014-2022 (%)

FIG. 44 WORLD INVERTER & UPS IGBT MARKET ANALYSIS, 2015 (\$MILLION)

FIG. 45 COMPARATIVE REGIONAL MARKET SHARE ANALYSIS OF WORLD INVERTER & UPS IGBT MARKET, 2015 & 2022 (%)

FIG. 46 MARKET REVENUE & FORECAST OF WORLD INVERTER & UPS IGBT MARKET, 2014-2022 (\$MILLION)

FIG. 47 MARKET SHARE ANALYSIS BY GEOGRAPHY OF WORLD INVERTER & UPS IGBT MARKET, 2014-2022 (%)

- FIG. 48 WORLD ELECTRIC VEHICLE IGBT MARKET ANALYSIS, 2015 (\$MILLION)
- FIG. 49 COMPARATIVE REGIONAL MARKET SHARE ANALYSIS OF WORLD ELECTRIC VEHICLE IGBT MARKET, 2015 & 2022 (%)
- FIG. 50 MARKET REVENUE & FORECAST OF WORLD ELECTRIC VEHICLE IGBT MARKET, 2014-2022 (\$MILLION)
- FIG. 51 MARKET SHARE ANALYSIS BY GEOGRAPHY OF WORLD ELECTRIC VEHICLE IGBT MARKET, 2014-2022 (%)
- FIG. 52 WORLD INDUSTRIAL SYSTEM IGBT MARKET ANALYSIS, 2015 (\$MILLION)
- FIG. 53 COMPARATIVE REGIONAL MARKET SHARE ANALYSIS OF WORLD INDUSTRIAL SYSTEM IGBT MARKET, 2015 & 2022 (%)
- FIG. 54 MARKET REVENUE & FORECAST OF WORLD INDUSTRIAL SYSTEM IGBT MARKET, 2014-2022 (\$MILLION)
- FIG. 55 MARKET SHARE ANALYSIS BY GEOGRAPHY OF WORLD INDUSTRIAL SYSTEM IGBT MARKET, 2014-2022 (%)
- FIG. 56 WORLD OTHERS IGBT MARKET ANALYSIS, 2015 (\$MILLION)
- FIG. 57 COMPARATIVE REGIONAL MARKET SHARE ANALYSIS OF WORLD OTHERS IGBT MARKET, 2015 & 2022 (%)
- FIG. 58 MARKET REVENUE & FORECAST OF WORLD OTHERS IGBT MARKET, 2014-2022 (\$MILLION)
- FIG. 59 MARKET SHARE ANALYSIS BY GEOGRAPHY OF WORLD OTHERS IGBT MARKET, 2014-2022 (%)
- FIG. 60 WORLD IGBT MARKET REVENUE BY GEOGRAPHY, 2015 & 2022 (% SHARE)
- FIG. 61 NORTH AMERICA IGBT MARKET REVENUE BY COUNTRY, 2015 & 2022 (% SHARE)
- FIG. 62 NORTH AMERICA IGBT MARKET REVENUE BY TYPE, 2015 & 2022 (% SHARE)
- FIG. 63 NORTH AMERICA: WORLD IGBT MARKET ANALYSIS, 2015
- FIG. 64 U.S. IGBT MARKET REVENUE, 2014-2022 (\$MILLION)
- FIG. 65 MEXICO IGBT MARKET REVENUE, 2014-2022 (\$MILLION)
- FIG. 66 CANADA IGBT MARKET REVENUE, 2014-2022 (\$MILLION)
- FIG. 67 EUROPE IGBT MARKET REVENUE BY COUNTRY, 2015 & 2022 (% SHARE)
- FIG. 68 EUROPE IGBT MARKET REVENUE BY TYPE, 2015 & 2022 (% SHARE)
- FIG. 69 EUROPE: WORLD IGBT MARKET ANALYSIS, 2015
- FIG. 70 U.K. IGBT MARKET REVENUE, 2014-2022 (\$MILLION)
- FIG. 71 GERMANY IGBT MARKET REVENUE, 2014-2022 (\$MILLION)
- FIG. 72 FRANCE IGBT MARKET REVENUE, 2014-2022 (\$MILLION)
- FIG. 73 REST OF EUROPE IGBT MARKET REVENUE, 2014-2022 (\$MILLION)
- FIG. 74 ASIA-PACIFIC IGBT MARKET REVENUE BY COUNTRY, 2015 & 2022 (%)

SHARE)

FIG. 75 ASIA-PACIFIC IGBT MARKET REVENUE BY TYPE, 2015 & 2022 (% SHARE)

FIG. 76 ASIA-PACIFIC: WORLD IGBT MARKET ANALYSIS, 2015

FIG. 77 CHINA IGBT MARKET REVENUE, 2014-2022 (\$MILLION)

FIG. 78 JAPAN IGBT MARKET REVENUE, 2014-2022 (\$MILLION)

FIG. 79 INDIA IGBT MARKET REVENUE, 2014-2022 (\$MILLION)

FIG. 80 SOUTH KOREA IGBT MARKET REVENUE, 2014-2022 (\$MILLION)

FIG. 81 REST OF ASIA-PACIFIC IGBT MARKET REVENUE, 2014-2022 (\$MILLION)

FIG. 82 LAMEA IGBT MARKET REVENUE BY COUNTRY, 2015 & 2022 (% SHARE)

FIG. 83 LAMEA IGBT MARKET REVENUE BY TYPE, 2015 & 2022 (% SHARE)

FIG. 84 LAMEA: WORLD IGBT MARKET ANALYSIS, 2015

FIG. 85 LATIN AMERICA IGBT MARKET REVENUE, 2014-2022

FIG. 86 MIDDLE EAST IGBT MARKET REVENUE, 2014-2022

FIG. 87 AFRICA IGBT MARKET REVENUE, 2014-2022

FIG. 88 ABB GROUP: REVENUE, 2013-2015 (\$MILLION)

FIG. 89 ABB GROUP: REVENUE BY BUSINESS SEGMENT, 2015 (%)

FIG. 90 ABB GROUP: REVENUE BY REGION, 2015 (%)

FIG. 91 STMICROELECTRONICS N.V.: REVENUE, 2013-2015 (\$MILLION)

FIG. 92 STMICROELECTRONICS N.V.: REVENUE BY BUSINESS SEGMENT, 2015 (%)

FIG. 93 STMICROELECTRONICS N.V.: REVENUE BY REGION, 2015 (%)

FIG. 94 TOSHIBA CORPORATION: REVENUE 2013-2015 (\$MILLION)

FIG. 95 TOSHIBA CORPORATION: REVENUE BY BUSINESS SEGMENT, 2015 (%)

FIG. 96 TOSHIBA CORPORATION: REVENUE BY REGION, 2015 (%)

FIG. 97 IXYS CORPORATION: REVENUE 2013-2015 (\$MILLION)

FIG. 98 IXYS CORPORATION: REVENUE BY BUSINESS SEGMENT, 2015 (%)

FIG. 99 IXYS CORPORATION: REVENUE BY REGION, 2015 (%)

FIG. 100 RENESAS ELECTRONICS CORP.: REVENUE, 2013-2015 (\$MILLION)

FIG. 101 RENESAS ELECTRONICS CORP.: REVENUE BY REGION, 2015 (%)

FIG. 102 MITSUBISHI ELECTRIC CORP.: REVENUE, 2013-2015 (\$MILLION)

FIG. 103 MITSUBISHI ELECTRIC CORP.: REVENUE BY BUSINESS SEGMENTS, 2015 (%)

FIG. 104 MITSUBISHI ELECTRIC CORP.: REVENUE BY GEOGRAPHY, 2015 (%)

FIG. 105 INFINEON TECHNOLOGIES AG: REVENUE, 2013-2015 (\$MILLION)

FIG. 106 INFINEON TECHNOLOGIES AG: REVENUE BY BUSINESS SEGMENTS, 2015 (%)

FIG. 107 INFINEON TECHNOLOGIES AG: REVENUE BY GEOGRAPHY, 2015 (%)

FIG. 108 FUJI ELECTRIC CO, LTD: REVENUE, 2013-2015 (\$MILLION)

FIG. 109 FUJI ELECTRIC CO, LTD: REVENUE BY BUSINESS SEGMENTS, 2015 (%)

FIG. 110 FUJI ELECTRIC CO, LTD: REVENUE BY GEOGRAPHY, 2015 (%)

FIG. 111 NXP SEMICONDUCTORS N.V: REVENUE, 2013-2015 (\$MILLION)

FIG. 112 NXP SEMICONDUCTORS N.V: REVENUE BY BUSINESS SEGMENT, 2015 (%)

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