

# **High Voltage Direct Current (HVDC) Transmission Market by Technology (CCC, VSC, LCC & UHVDC), Component (Converter Station & Transmission Cable), Project Type (Point-to-Point, Back-to-Back, Multi-Terminal), Application, and Geography - Global Forecast to 2022**

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## **Abstracts**

“The HVDC transmission market is expected to grow at a CAGR of 8.4% during the forecast period.”

The HVDC transmission market is expected to reach USD 10.77 billion by 2022, at a CAGR of 8.4% between 2016 and 2022. In terms of power capacity, the market is estimated to reach 85.79 GW by 2022, at a CAGR of 9.8% between 2016 and 2022. HVDC transmission solutions increase energy efficiency and reduce transmission losses; they require less use of land and are flexible in changing the flow direction of power. In addition, HVDC transmission helps in the network integration for connecting renewable energy sources beyond the national boundaries. These factors are expected to drive the growth of the market during the forecast period.

“VSC-based technology is at the growth stage; while UHVDC is at the introductory stage.”

The market for VSC-based technology is estimated to grow at a significant pace during the forecast period. The UHVDC technology is still at its introductory stage; currently, there is not much interest for the new UHVDC transmissions systems across the world, except China. Thorough investigations are being carried out to fulfill the future demand for electricity, which is not reachable or nearby to the load centers. However, countries

such as China, India, Brazil, the U.S., and South America might utilize far away located hydro and solar generation plants of UHVDC transmissions systems.

“The market in APAC is expected to grow at the highest rate during the forecast period.”

The market in APAC is expected to grow at the highest CAGR between 2016 and 2022. The growth can be attributed to the high investments made by both the regional and global companies, such as ABB, Siemens, GE, and Hitachi among others, in this region.

Breakdown of profile of primary participants:

By Company Type: Tier 1 - 14%, Tier 2 - 29%, and Tier 3 - 57%

By Designation: C-Level - 28%, Director Level - 29%, and Others - 43%

By Region: North America - 29%, Europe - 57%, and APAC - 14%

The key players operating in this market include ABB Ltd. (Switzerland), Siemens AG (Germany), General Electric (U.S.), Hitachi (Japan), Toshiba (Japan), Nexans (France), Prysmian (Italy), NR Electric (China), American Superconductor (U.S.), and Transgrid (U.S.) among others.

“Reasons to buy the report”:

This report includes the market statistics pertaining to the HVDC transmission market, by technology, component, project type, application, and geography, along with their respective market size (in terms of value) and power generation capacity.

The Porter’s five forces analysis, value chain analysis, and key strategies adopted by the market players have been provided for the HVDC transmission market.

Major drivers, restraints, opportunities and, challenges for the HVDC transmission market have been detailed in this report.

The report includes illustrative segmentation, analysis, and forecast for the

HVDC transmission market based on its segments and subsegments.

## Contents

### 1 INTRODUCTION

- 1.1 STUDY OBJECTIVES
- 1.2 MARKET DEFINITION
- 1.3 STUDY SCOPE
  - 1.3.1 MARKETS COVERED
  - 1.3.2 YEARS CONSIDERED FOR THE STUDY
- 1.4 CURRENCY & PRICING
- 1.5 LIMITATIONS
- 1.6 STAKEHOLDERS

### 2 RESEARCH METHODOLOGY

- 2.1 RESEARCH DATA
  - 2.1.1 SECONDARY DATA
    - 2.1.1.1 Key data from secondary sources
  - 2.1.2 PRIMARY DATA
    - 2.1.2.1 Key data from primary sources
    - 2.1.2.2 Key industry insights
    - 2.1.2.3 Breakdown of primary interviews
- 2.2 MARKET SIZE ESTIMATION
  - 2.2.1 BOTTOM-UP APPROACH
  - 2.2.2 TOP-DOWN APPROACH
- 2.3 MARKET BREAKDOWN AND DATA TRIANGULATION
- 2.4 RESEARCH ASSUMPTIONS

### 3 EXECUTIVE SUMMARY

### 4 PREMIUM INSIGHT

- 4.1 MARKET CAPACITY OF HVDC TRANSMISSION, 2016–2022
- 4.2 HVDC TRANSMISSION MARKET, BY TECHNOLOGY
- 4.3 APAC HELD THE LARGEST MARKET SHARE OF THE HVDC TRANSMISSION MARKET IN 2015
- 4.4 CHINA DOMINATED THE HVDC TRANSMISSION MARKET IN APAC IN 2015
- 4.5 OFFSHORE POWER TRANSMISSION APPLICATION IN HVDC MARKET
- 4.6 LIFE CYCLE ANALYSIS, BY GEOGRAPHY

## **5 MARKET OVERVIEW**

### **5.1 MARKET SEGMENTATION**

- 5.1.1 HVDC TRANSMISSION MARKET, BY TECHNOLOGY
- 5.1.2 HVDC TRANSMISSION MARKET, BY COMPONENT
- 5.1.3 HVDC TRANSMISSION MARKET, BY PROJECT TYPE
- 5.1.4 HVDC TRANSMISSION MARKET, BY APPLICATION
- 5.1.5 HVDC TRANSMISSION MARKET, BY GEOGRAPHY

### **5.2 MARKET DYNAMICS**

#### **5.2.1 DRIVERS**

- 5.2.1.1 Better performance of HVDC systems compared to HVAC systems
- 5.2.1.2 Renewable energy integrated into HVDC systems
- 5.2.1.3 Growing demand for VSC technology

#### **5.2.2 RESTRAINTS**

- 5.2.2.1 High cost of circuit breakers
- 5.2.2.2 High installation cost

#### **5.2.3 OPPORTUNITIES**

- 5.2.3.1 Increase in the number of offshore wind transmission projects
- 5.2.3.2 Emerging UHVDC technology

#### **5.2.4 CHALLENGES**

- 5.2.4.1 Standardization of HVDC transmission systems

## **6 INDUSTRY TRENDS**

### **6.1 INTRODUCTION**

### **6.2 VALUE CHAIN ANALYSIS**

### **6.3 PORTER'S FIVE FORCES ANALYSIS**

- 6.3.1 INTENSITY OF COMPETITIVE RIVALRY
- 6.3.2 THREAT OF SUBSTITUTES
- 6.3.3 BARGAINING POWER OF BUYERS
- 6.3.4 BARGAINING POWER OF SUPPLIERS
- 6.3.5 THREAT OF NEW ENTRANTS

### **6.4 REGULATORY LANDSCAPE**

## **7 HVDC TRANSMISSION MARKET, BY COMPONENT**

### **7.1 INTRODUCTION**

### **7.2 CONVERTOR STATIONS**

## 7.2.1 VALVES

### 7.2.1.1 Thyristor Valves

### 7.2.1.2 VSC Valves

## 7.2.2 TRANSFORMERS

## 7.2.3 HARMONIC FILTERS

### 7.2.3.1 AC filters

### 7.2.3.2 DC filters

## 7.2.4 CIRCUIT BREAKERS: BREAKTHROUGH INNOVATION

## 7.2.5 REACTORS

## 7.2.6 SURGE ARRESTERS

## 7.3 TRANSMISSION CABLES

### 7.3.1 HVDC SUBMARINE CABLES

## 7.4 OTHERS

# 8 HVDC TRANSMISSION MARKET, BY TECHNOLOGY

## 8.1 INTRODUCTION

## 8.2 CAPACITOR COMMUTATED CONVERTER (CCC) BASED

## 8.3 VOLTAGE SOURCE CONVERTER (VSC) BASED

### 8.3.1 HVDC LIGHT: ABB

### 8.3.2 HVDC PLUS: SIEMENS

## 8.4 LINE COMMUTATED CONVERTER (LCC) BASED (THYRISTOR BASED)

### 8.4.1 HVDC CLASSIC: ABB

### 8.4.2 HVDC CLASSIC: SIEMENS

## 8.5 UHVDC-UPCOMING TECHNOLOGY

# 9 HVDC TRANSMISSION MARKET, BY PROJECT TYPE

## 9.1 INTRODUCTION

## 9.2 POINT-TO-POINT TRANSMISSION

### 9.2.1 BIPOLAR

### 9.2.2 MONOPOLAR

## 9.3 BACK-TO-BACK STATIONS

## 9.4 MULTI-TERMINAL SYSTEMS

### 9.4.1 SERIES MULTI TERMINAL SYSTEMS

### 9.4.2 PARALLEL MULTI-TERMINAL SYSTEMS

# 10 HVDC TRANSMISSION MARKET, BY APPLICATION

## 10.1 INTRODUCTION

## 10.2 UNDERGROUND POWER TRANSMISSION

### 10.2.1 ISLANDS

### 10.2.2 URBAN AREAS

### 10.2.3 INDUSTRIAL LOCATIONS

## 10.3 ASYNCHRONOUS GRID INTERCONNECTION

## 10.4 OFF-SHORE POWER TRANSMISSION

### 10.4.1 WIND PROJECTS

### 10.4.2 OIL & GAS

# 11 GEOGRAPHIC ANALYSIS

## 11.1 INTRODUCTION

## 11.2 AMERICAS

### 11.2.1 NORTH AMERICA

11.2.1.1 NAFTA has promised the development of a green economy throughout North America

#### 11.2.1.2 U.S.

11.2.1.2.1 HVDC transmission market in the U.S. undergoing changes and developments

#### 11.2.1.3 CANADA

11.2.1.3.1 Potential applications of HVDC in the Canadian National electrical grid

#### 11.2.1.4 MEXICO

11.2.1.4.1 Electricity bond between the U.S. and MEXICO strengthens

### 11.2.2 SOUTH AMERICA

11.2.2.1 Increased growth and adoption of renewable power observed in South America

#### 11.2.2.2 Brazil

11.2.2.2.1 A highly potential country for HVDC deployment

#### 11.2.2.3 Rest of South America

## 11.3 EUROPE

11.3.1 HVDC EXPECTED TO BE THE TRANSMISSION BACKBONE OF EUROPE'S FUTURE POWER SYSTEMS

### 11.3.2 U.K.

11.3.2.1 Increasing integration of offshore wind energy into the U.K.'s electricity transmission networks

### 11.3.3 GERMANY

11.3.3.1 Increasingly adopting HVDC technology

### 11.3.4 RUSSIA

- 11.3.4.1 Potential market for HVDC systems
- 11.3.5 FRANCE
  - 11.3.5.1 Potential for further interconnection to contribute to security of supply
- 11.3.6 REST OF EUROPE
- 11.4 APAC
  - 11.4.1 PRESENTLY FOLLOWING AN EXPONENTIAL GROWTH CURVE
  - 11.4.2 CHINA
    - 11.4.2.1 Leading country in the global HVDC transmission market
  - 11.4.3 JAPAN
    - 11.4.3.1 Significant growth and use of renewable sources of energy
  - 11.4.4 INDIA
    - 11.4.4.1 Government initiatives to enhance the energy security
  - 11.4.5 AUSTRALIA
    - 11.4.5.1 Initiatives being taken up by arena to drive the PV cells market
  - 11.4.6 REST OF APAC
- 11.5 ROW
  - 11.5.1 HUGE POTENTIAL FOR RENEWABLE RESOURCES IN THE MIDDLE EAST AND AFRICA
  - 11.5.2 MIDDLE EAST
  - 11.5.3 AFRICA

## **12 COMPETITIVE LANDSCAPE**

- 12.1 OVERVIEW
- 12.2 MARKET RANKING FOR HVDC TRANSMISSION MARKET
- 12.3 COMPETITIVE SCENARIO
- 12.4 RECENT DEVELOPMENTS
  - 12.4.1 PARTNERSHIPS/JOINT VENTURES/AGREEMENTS
  - 12.4.2 EXPANSIONS
  - 12.4.3 MERGERS & ACQUISITIONS
  - 12.4.4 NEW PRODUCT LAUNCHES

## **13 COMPANY PROFILES**

- 13.1 INTRODUCTION
- 13.2 ABB LTD.
  - 13.2.1 BUSINESS OVERVIEW
  - 13.2.2 PRODUCTS & SOLUTIONS
  - 13.2.3 RECENT DEVELOPMENTS



- 13.2.4 MNM VIEW
  - 13.2.4.1 SWOT analysis
- 13.3 SIEMENS AG
  - 13.3.1 BUSINESS OVERVIEW
  - 13.3.2 PRODUCTS & SOLUTIONS
  - 13.3.3 RECENT DEVELOPMENTS
  - 13.3.4 MNM VIEW
    - 13.3.4.1 SWOT analysis
- 13.4 GENERAL ELECTRIC
  - 13.4.1 BUSINESS OVERVIEW
  - 13.4.2 PRODUCTS & SOLUTIONS
  - 13.4.3 RECENT DEVELOPMENTS
  - 13.4.4 MNM VIEW
    - 13.4.4.1 SWOT ANALYSIS
- 13.5 TOSHIBA CORPORATION
  - 13.5.1 BUSINESS OVERVIEW
  - 13.5.2 PRODUCTS & SOLUTIONS
  - 13.5.3 RECENT DEVELOPMENTS
  - 13.5.4 MNM VIEW
    - 13.5.4.1 SWOT analysis
- 13.6 HITACHI, LTD.
  - 13.6.1 BUSINESS OVERVIEW
  - 13.6.2 PRODUCTS & SOLUTIONS
  - 13.6.3 RECENT DEVELOPMENTS
  - 13.6.4 MNM VIEW
    - 13.6.4.1 SWOT analysis
- 13.7 PRYSMIAN GROUP
  - 13.7.1 BUSINESS OVERVIEW
  - 13.7.2 PRODUCTS OFFERED
  - 13.7.3 RECENT DEVELOPMENTS
- 13.8 NEXANS SA
  - 13.8.1 BUSINESS OVERVIEW
  - 13.8.2 PRODUCTS OFFERED
  - 13.8.3 RECENT DEVELOPMENTS
- 13.9 AMERICAN SUPERCONDUCTOR CORP.
  - 13.9.1 BUSINESS OVERVIEW
  - 13.9.2 PRODUCTS OFFERED
  - 13.9.3 RECENT DEVELOPMENTS
- 13.10 NR ELECTRIC CO., LTD.

- 13.10.1 BUSINESS OVERVIEW
- 13.10.2 PRODUCTS OFFERED
- 13.10.3 RECENT DEVELOPMENTS
- 13.11 TRANSGRID SOLUTIONS, INC.
  - 13.11.1 BUSINESS OVERVIEW
  - 13.11.2 SERVICES OFFERED
  - 13.11.3 RECENT DEVELOPMENTS

## **14 APPENDIX**

- 14.1 INSIGHTS OF INDUSTRY EXPERTS
- 14.2 DISCUSSION GUIDE
- 14.3 KNOWLEDGE STORE: MARKETSANDMARKETS' SUBSCRIPTION PORTAL
- 14.4 INTRODUCING RT: REAL-TIME MARKET INTELLIGENCE
- 14.5 AVAILABLE CUSTOMIZATIONS
- 14.6 RELATED REPORTS

## List Of Tables

### LIST OF TABLES

Table 1 GROWING DEMAND FOR VSC-BASED HVDC TECHNOLOGY EXPECTED TO PROPEL THE GROWTH OF THE HVDC TRANSMISSION MARKET DURING THE FORECAST PERIOD

Table 2 HIGH INSTALLATION COST ACTS AS A RESTRAINT IN THE HVDC TRANSMISSION MARKET

Table 3 INCREASE IN NUMBER OF OFFSHORE WIND TRANSMISSION PROJECTS POSES AS A HUGE OPPORTUNITY FOR THE HVDC TRANSMISSION MARKET

Table 4 FUNCTION AND STAKEHOLDERS IN A HVDC TRANSMISSION VALUE CHAIN

Table 5 PORTER'S FIVE FORCES ANALYSIS: THREAT OF SUBSTITUTES LIKELY TO HAVE MINIMUM IMPACT ON THE OVERALL MARKET DURING THE FORECAST PERIOD

Table 6 HVDC TRANSMISSION MARKET: REGULATORY LANDSCAPE

Table 7 HVDC TRANSMISSION MARKET, IN TERMS OF VALUE AND VOLUME, 2013–2022

Table 8 HVDC TRANSMISSION MARKET, BY COMPONENT, 2013–2022 (USD BILLION)

Table 9 HVDC TRANSMISSION MARKET FOR CONVERTER STATIONS, 2013–2022 (USD BILLION)

Table 10 HVDC TRANSMISSION MARKET FOR VALVES, 2013–2022 (USD BILLION)

Table 11 HVDC TRANSMISSION MARKET, BY TECHNOLOGY, 2013–2022 (USD BILLION)

Table 12 HVDC TRANSMISSION MARKET, BY TECHNOLOGY, 2013–2022 (IN GW)

Table 13 VSC-BASED TECHNOLOGY MARKET, BY PROJECT TYPE, 2013–2022 (USD BILLION)

Table 14 VSC-BASED TECHNOLOGY MARKET, BY POINT-TO-POINT PROJECT TYPE, 2013–2022 (USD BILLION)

Table 15 LCC-BASED TECHNOLOGY MARKET, BY PROJECT TYPE, 2013–2022 (USD BILLION)

Table 16 LCC-BASED TECHNOLOGY MARKET, BY POINT-TO-POINT PROJECT TYPE, 2013–2022 (USD BILLION)

Table 17 DIFFERENCE BETWEEN LCC AND VSC

Table 18 UHVDC MARKET, BY PROJECT TYPE, 2013–2022 (USD BILLION)

Table 19 UHVDC MARKET, BY POINT-TO-POINT PROJECT TYPE, 2013–2022 (USD BILLION)

Table 20 HVDC TRANSMISSION MARKET, BY PROJECT TYPE, 2013–2022 (USD BILLION)

Table 21 HVDC TRANSMISSION MARKET FOR POINT-TO-POINT PROJECT TYPE, BY TECHNOLOGY, 2013–2022 (USD BILLION)

Table 22 HVDC TRANSMISSION MARKET FOR POINT-TO-POINT PROJECT TYPE, BY APPLICATION, 2013–2022 (USD BILLION)

Table 23 HVDC TRANSMISSION MARKET FOR POINT-TO-POINT PROJECT TYPE, BY OFFSHORE POWER TRANSMISSION, 2013–2022 (USD BILLION)

Table 24 HVDC TRANSMISSION MARKET FOR POINT-TO-POINT PROJECT TYPE, BY REGION, 2013–2022 (USD BILLION)

Table 25 HVDC TRANSMISSION MARKET, BY POINT-TO-POINT PROJECT TYPE, 2013–2022 (USD BILLION)

Table 26 HVDC TRANSMISSION MARKET FOR BIPOLAR POINT-TO-POINT PROJECT TYPE, BY TECHNOLOGY, 2013–2022 (USD BILLION)

Table 27 HVDC TRANSMISSION MARKET FOR BIPOLAR POINT-TO-POINT PROJECT TYPE, BY APPLICATION, 2013–2022 (USD BILLION)

Table 28 HVDC TRANSMISSION MARKET FOR BIPOLAR POINT-TO-POINT PROJECT TYPE, BY OFFSHORE POWER TRANSMISSION, 2013–2022 (USD BILLION)

Table 29 HVDC TRANSMISSION MARKET FOR BIPOLAR POINT-TO-POINT PROJECT TYPE, BY REGION, 2013–2022 (USD BILLION)

Table 30 HVDC TRANSMISSION MARKET FOR MONOPOLAR POINT-TO-POINT PROJECT TYPE, BY TECHNOLOGY, 2013–2022 (USD BILLION)

Table 31 HVDC TRANSMISSION MARKET FOR MONOPOLAR POINT-TO-POINT PROJECT TYPE, BY APPLICATION, 2013–2022 (USD BILLION)

Table 32 HVDC TRANSMISSION MARKET FOR MONOPOLAR POINT-TO-POINT PROJECT TYPE, BY OFFSHORE POWER TRANSMISSION, 2013–2022 (USD BILLION)

Table 33 HVDC TRANSMISSION MARKET FOR MONOPOLAR POINT-TO-POINT PROJECT TYPE, BY REGION, 2013–2022 (USD BILLION)

Table 34 HVDC TRANSMISSION MARKET FOR BACK-TO-BACK PROJECT TYPE, BY TECHNOLOGY, 2013–2022 (USD BILLION)

Table 35 HVDC TRANSMISSION MARKET FOR BACK-TO-BACK PROJECT TYPE, BY APPLICATION, 2013–2022 (USD BILLION)

Table 36 HVDC TRANSMISSION MARKET FOR BACK-TO-BACK PROJECT TYPE, BY OFFSHORE POWER TRANSMISSION, 2013–2022 (USD BILLION)

Table 37 HVDC TRANSMISSION MARKET FOR BACK-TO-BACK PROJECT TYPE, BY REGION, 2013–2022 (USD BILLION)

Table 38 HVDC TRANSMISSION MARKET FOR MULTI-TERMINAL PROJECT TYPE,

BY TECHNOLOGY, 2013–2022 (USD BILLION)

Table 39 HVDC TRANSMISSION MARKET FOR MULTI-TERMINAL PROJECT TYPE, BY APPLICATION, 2013–2022 (USD BILLION)

Table 40 HVDC TRANSMISSION MARKET FOR MULTI-TERMINAL PROJECT TYPE, BY OFFSHORE POWER TRANSMISSION, 2013–2022 (USD BILLION)

Table 41 HVDC TRANSMISSION MARKET FOR MULTI-TERMINAL PROJECT TYPE, BY REGION, 2013–2022 (USD BILLION)

Table 42 HVDC TRANSMISSION MARKET, BY APPLICATION, 2013–2022 (USD BILLION)

Table 43 HVDC TRANSMISSION MARKET FOR UNDERGROUND POWER TRANSMISSION, BY PROJECT TYPE, 2013–2022 (USD BILLION)

Table 44 HVDC TRANSMISSION MARKET FOR UNDERGROUND POWER TRANSMISSION, BY POINT-TO-POINT PROJECT TYPE, 2013–2022 (USD BILLION)

Table 45 HVDC TRANSMISSION MARKET FOR ASYNCHRONOUS GRID INTERCONNECTION, BY PROJECT TYPE, 2013–2022 (USD BILLION)

Table 46 HVDC TRANSMISSION MARKET FOR ASYNCHRONOUS GRID INTERCONNECTION, BY POINT-TO-POINT PROJECT TYPE, 2013–2022 (USD BILLION)

Table 47 HVDC TRANSMISSION MARKET FOR OFFSHORE POWER TRANSMISSION, 2013–2022 (USD BILLION)

Table 48 HVDC TRANSMISSION MARKET FOR OFFSHORE POWER TRANSMISSION, BY PROJECT TYPE, 2013–2022 (USD BILLION)

Table 49 HVDC TRANSMISSION MARKET FOR OFFSHORE POWER TRANSMISSION, BY POINT-TO-POINT PROJECT TYPE, 2013–2022 (USD BILLION)

Table 50 HVDC TRANSMISSION MARKET FOR WIND PROJECTS OFFSHORE, BY POINT-TO-POINT PROJECT TYPE, 2013–2022 (USD BILLION)

Table 51 HVDC TRANSMISSION MARKET FOR OIL & GAS OFFSHORE, BY POINT-TO-POINT PROJECT TYPE, 2013–2022 (USD BILLION)

Table 52 HVDC TRANSMISSION MARKET, BY REGION, 2013–2022 (USD BILLION)

Table 53 HVDC TRANSMISSION MARKET, BY REGION, 2013–2022 (IN GW)

Table 54 HVDC TRANSMISSION MARKET IN THE AMERICAS, BY PROJECT TYPE, 2013–2022 (USD BILLION)

Table 55 HVDC TRANSMISSION MARKET IN THE AMERICAS, BY POINT-TO-POINT PROJECT TYPE, 2013–2022 (USD BILLION)

Table 56 HVDC TRANSMISSION MARKET IN THE AMERICAS, BY REGION, 2013–2022 (USD BILLION)

Table 57 HVDC TRANSMISSION MARKET IN NORTH AMERICA, BY COUNTRY, 2013–2022 (USD BILLION)

Table 58 HVDC TRANSMISSION MARKET IN SOUTH AMERICA, BY COUNTRY,

2013–2022 (USD BILLION)

Table 59 HVDC TRANSMISSION MARKET IN EUROPE, BY PROJECT TYPE,  
2013–2022 (USD BILLION)

Table 60 HVDC TRANSMISSION MARKET IN EUROPE, BY POINT-TO-POINT  
PROJECT TYPE, 2013–2022 (USD BILLION)

Table 61 HVDC TRANSMISSION MARKET IN EUROPE, BY COUNTRY, 2013–2022  
(USD BILLION)

Table 62 HVDC TRANSMISSION MARKET IN APAC, BY PROJECT TYPE, 2013–2022  
(USD BILLION)

Table 63 HVDC TRANSMISSION MARKET IN APAC, BY POINT-TO-POINT PROJECT  
TYPE, 2013–2022 (USD BILLION)

Table 64 HVDC TRANSMISSION MARKET IN APAC, BY COUNTRY, 2013–2022 (USD  
BILLION)

Table 65 HVDC TRANSMISSION MARKET IN ROW, BY PROJECT TYPE, 2013–2022  
(USD BILLION)

Table 66 HVDC TRANSMISSION MARKET IN ROW, BY POINT-TO-POINT PROJECT  
TYPE, 2013–2022 (USD BILLION)

Table 67 HVDC TRANSMISSION MARKET IN ROW, BY REGION, 2013–2022 (USD  
BILLION)

Table 68 MARKET RANKING OF THE TOP 5 PLAYERS IN THE HVDC  
TRANSMISSION MARKET, 2015

Table 69 PARTNERSHIPS/JOINT VENTURES/AGREEMENTS, 2013–2015

Table 70 EXPANSIONS, 2014–2015

Table 71 MERGERS & ACQUISITIONS, 2013–2015

Table 72 NEW PRODUCT LAUNCHES, 2013–2015

## List Of Figures

### LIST OF FIGURES

Figure 1 HVDC TRANSMISSION MARKET SEGMENTATION

Figure 2 RESEARCH DESIGN

Figure 3 MARKET SIZE ESTIMATION METHODOLOGY: BOTTOM-UP APPROACH

Figure 4 MARKET SIZE ESTIMATION METHODOLOGY: TOP-DOWN APPROACH

Figure 5 DATA TRIANGULATION

Figure 6 HVDC TRANSMISSION MARKET EXPECTED TO GROW MODERATELY DURING THE FORECAST PERIOD

Figure 7 POINT-TO-POINT PROJECT TYPE EXPECTED TO HOLD THE LARGEST MARKET SIZE DURING THE FORECAST PERIOD

Figure 8 OFFSHORE POWER TRANSMISSION EXPECTED TO GROW AT THE HIGHEST RATE BETWEEN 2016 AND 2022

Figure 9 MULTI-TERMINAL PROJECT TYPE FOR HVDC OFFSHORE POWER TRANSMISSION EXPECTED TO GROW AT THE HIGHEST RATE BETWEEN 2016 AND 2022

Figure 10 VSC-BASED HVDC TECHNOLOGY, IN TERMS OF MARKET CAPACITY (IN GW), EXPECTED TO GROW AT THE HIGHEST RATE DURING THE FORECAST PERIOD

Figure 11 HVDC TRANSMISSION MARKET IN APAC EXPECTED TO GROW AT THE HIGHEST CAGR BETWEEN 2016 AND 2022

Figure 12 ATTRACTIVE MARKET OPPORTUNITIES FOR THE HVDC TRANSMISSION MARKET DURING THE FORECAST PERIOD

Figure 13 MARKET FOR VSC-BASED TECHNOLOGY EXPECTED TO GROW AT THE HIGHEST CAGR DURING THE FORECAST PERIOD

Figure 14 INDIA EXPECTED TO EXHIBIT THE HIGHEST GROWTH RATE DURING THE FORECAST PERIOD

Figure 15 BACK-TO-BACK TRANSMISSION HELD THE LARGEST SHARE OF THE HDVC TRANSMISSION MARKET IN APAC IN 2015

Figure 16 OFFSHORE WIND PROJECTS ESTIMATED TO GROW AT THE HIGHEST CAGR BETWEEN 2016 AND 2022

Figure 17 HVDC TRANSMISSION MARKET IS CURRENTLY AT THE GROWTH STAGE IN APAC

Figure 18 GEOGRAPHICAL SEGMENTATION OF HVDC TRANSMISSION MARKET

Figure 19 INCREASING DEMAND FOR VSC TECHNOLOGY EXPECTED TO SPUR THE GROWTH OF THE HVDC TRANSMISSION MARKET

Figure 20 COST COMPARISON BETWEEN HVDC AND HVAC GRIDS



Figure 21 ABB & SIEMENS' LCC- & VSC-BASED HVDC PROJECTS SINCE 2000

Figure 22 VSC-BASED HVDC TRANSMISSION SOLUTION AT GROWTH PHASE IN 2015

Figure 23 MAJOR VALUE ADDED DURING THE PROJECT INSTALLATION & COMMISSIONING PHASE

Figure 24 IMPACT OF INTENSITY OF COMPETITIVE RIVALRY WAS MODERATE IN THE HVDC TRANSMISSION MARKET IN 2015

Figure 25 HVDC TRANSMISSION MARKET: PORTER'S FIVE FORCES ANALYSIS

Figure 26 INTENSITY OF COMPETITIVE RIVALRY: MODERATE COMPETITION IN THE MARKET OWING TO THE PRESENCE OF LESS NUMBER OF PLAYERS

Figure 27 THREAT OF SUBSTITUTES: IMPACT LIKELY TO BE LOW DURING THE FORECAST PERIOD

Figure 28 BARGAINING POWER OF BUYERS: IMPACT LIKELY TO BE MEDIUM DURING THE FORECAST PERIOD DUE TO THE AVAILABILITY OF HIGH-CUSTOMIZED SOLUTIONS

Figure 29 BARGAINING POWER OF SUPPLIERS: IMPACT LIKELY TO BE HIGH DURING THE FORECAST PERIOD DUE TO HIGH BRAND VALUE OF SUPPLIERS

Figure 30 THREAT OF NEW ENTRANTS: IMPACT LIKELY TO BE MEDIUM DURING THE FORECAST PERIOD DUE TO HIGH CAPITAL REQUIREMENT

Figure 31 HVDC TRANSMISSION MARKET, BY COMPONENT

Figure 32 CONVERTER STATIONS EXPECTED TO GROW AT THE HIGHEST RATE BETWEEN 2016 AND 2022

Figure 33 HVDC – CONVERTER STATIONS

Figure 34 TYPE OF VALVES

Figure 35 TYPES OF HARMONIC FILTERS

Figure 36 HVDC TRANSMISSION MARKET, BY TECHNOLOGY

Figure 37 VSC-BASED TECHNOLOGY EXPECTED TO GROW AT THE HIGHEST RATE BETWEEN 2016 AND 2022

Figure 38 CCC-BASED TECHNOLOGY MARKET, BY PROJECT TYPE, 2013–2022 (USD BILLION)

Figure 39 THE VSC-BASED TECHNOLOGY MARKET, BY BIPOLAR POINT-TO-POINT PROJECT TYPE, EXPECTED TO GROW AT THE HIGHEST RATE BETWEEN 2016 AND 2022

Figure 40 UHVDC MARKET, BY MULTI-TERMINAL PROJECT TYPE, EXPECTED TO GROW AT THE HIGHEST RATE BETWEEN 2016 AND 2022

Figure 41 HVDC TRANSMISSION MARKET, BY PROJECT TYPE

Figure 42 MULTI-TERMINAL SYSTEMS EXPECTED TO GROW AT THE HIGHEST RATE BETWEEN 2016 AND 2022

Figure 43 POINT-TO-POINT TRANSMISSION DOMINATING MARKET AMONG ALL



## HVDC PROJECT TYPES

Figure 44 OFFSHORE POWER TRANSMISSION EXPECTED TO GROW AT THE HIGHEST RATE BETWEEN 2016 AND 2022

Figure 45 OFFSHORE POWER TRANSMISSION EXPECTED TO GROW AT THE HIGHEST RATE BETWEEN 2016 AND 2022

Figure 46 MULTI-TERMINAL SYSTEMS: HIGHEST GROWING MARKET AMONG ALL HVDC PROJECT TYPES

Figure 47 HVDC TRANSMISSION MARKET, BY APPLICATION

Figure 48 OFFSHORE POWER TRANSMISSION EXPECTED TO GROW AT THE HIGHEST RATE BETWEEN 2016 AND 2022

Figure 49 HVDC TRANSMISSION APPLICATION: UNDERGROUND POWER TRANSMISSION

Figure 50 HVDC TRANSMISSION APPLICATION: OFF-SHORE POWER TRANSMISSION

Figure 51 HVDC TRANSMISSION MARKET, BY REGION

Figure 52 APAC EXPECTED TO REGISTER THE HIGHEST GROWTH RATE DURING THE FORECAST PERIOD

Figure 53 HVDC TRANSMISSION MARKET IN INDIA ESTIMATED TO GROW AT THE HIGH RATE BETWEEN 2016 AND 2022

Figure 54 REGIONS COVERED IN THE HVDC TRANSMISSION MARKET IN THE AMERICAS

Figure 55 INCREASING DEMAND FOR RELIABLE AND SECURE POWER SUPPLY EXPECTED TO DRIVE THE HVDC TRANSMISSION MARKET IN THE AMERICAS

Figure 56 BRAZIL TO GROW AT THE HIGHEST RATE IN THE HVDC TRANSMISSION MARKET IN SOUTH AMERICA BETWEEN 2016 AND 2022

Figure 57 REGIONS COVERED IN THE HVDC TRANSMISSION MARKET IN EUROPE

Figure 58 REGIONS COVERED IN THE HVDC TRANSMISSION MARKET IN APAC

Figure 59 DEMAND FOR CONTINUOUS AND UNINTERRUPTED POWER EXPECTED TO DRIVE THE GROWTH OF THE HVDC TRANSMISSION MARKET IN APAC

Figure 60 REGIONS COVERED IN THE HVDC TRANSMISSION MARKET IN ROW

Figure 61 KEY GROWTH STRATEGIES ADOPTED BY THE LEADING PLAYERS IN THE HVDC TRANSMISSION MARKET BETWEEN 2013 AND 2016

Figure 62 GENERAL ELECTRIC GREW RAPIDLY BETWEEN 2013 AND 2015

Figure 63 MARKET EVALUATION FRAMEWORK: PARTNERSHIPS/ AGREEMENTS/JOINT VENTURES FUELLED THE GROWTH AND INNOVATION BETWEEN 2013 AND 2015

Figure 64 BATTLE FOR MARKET SHARE: PARTNERSHIPS/JOINT

VENTURES/AGREEMENTS WERE THE KEY STRATEGIES BETWEEN 2013 AND 2015

Figure 65 GEOGRAPHIC REVENUE MIX OF TOP 5 MARKET PLAYERS

Figure 66 ABB LTD.: COMPANY SNAPSHOT

Figure 67 ABB LTD.: SWOT ANALYSIS

Figure 68 SIEMENS AG: COMPANY SNAPSHOT

Figure 69 SIEMENS AG: SWOT ANALYSIS

Figure 70 GENERAL ELECTRIC: COMPANY SNAPSHOT

Figure 71 GENERAL ELECTRIC: SWOT ANALYSIS

Figure 72 TOSHIBA CORPORATION: COMPANY SNAPSHOT

Figure 73 TOSHIBA CORPORATION: SWOT ANALYSIS

Figure 74 HITACHI, LTD.: COMPANY SNAPSHOT

Figure 75 HITACHI LTD.: SWOT ANALYSIS

Figure 76 PRYSMIAN GROUP: COMPANY SNAPSHOT

Figure 77 NEXANS SA: COMPANY SNAPSHOT

Figure 78 AMERICAN SUPERCONDUCTOR CORP.: COMPANY SNAPSHOT

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