

# **High Voltage Direct Current (HVDC) Power Supply Market Analysis By Voltage (1,000 V, 1,000-4000 V, >4,000 V), By Application (Telecommunication, Medical, Industrial, Oil & Gas) And Segment Forecast To 2022**

<https://marketpublishers.com/r/HB1BCF6D9A1EN.html>

Date: July 2016

Pages: 87

Price: US\$ 4,950.00 (Single User License)

ID: HB1BCF6D9A1EN

## **Abstracts**

The global HVDC power supply market is expected to reach USD 3.56 billion by 2022, according to a new report by Grand View Research, Inc. These devices integrate easily with renewable or alternative energy sources such as photovoltaics, fuel cells, and wind power, and provide considerable avenues for industry growth. The emergence of the hybrid HVDC circuit technology that utilizes Voltage Source Converters (VSC), and is compact in design when compared to traditional design is anticipated to fuel product demand over the next seven years. Further, the HVDC supply industry has also witnessed the development of high power Insulated Gate Bipolar Transistors (IGBT) that has reduced the HVDC system size resulting in substantial economic benefits.

HVDC supply enhance the reliability of an electrical system and is the only possible solution available in the market today; which can be utilized in renewable energy sources. The ability of these products to efficiently transmit bulk power over long distance has significantly contributed to the development of direct-drive wind turbine, which supports the sustainable development of the current energy infrastructure.

Further key findings from the report suggest:

The industrial segment accounted for over 40% of the overall revenue in 2014 and is estimated to grow at a CAGR exceeding 11% over the forecast period. It can be ascribed to rapid industrialization in emerging countries, such as India and China, along with rising demand for efficient power supply.

The telecommunication application segment is anticipated to witness healthy growth and accounted for over 25% of the market in 2014. It can be primarily attributed to the reliable and long-distance transmission with minimal loss offered by these products. The rapid infrastructure development owing to the widespread usage of the internet may also contribute significantly towards the segment growth.

Over 4,000 V voltage segment accounted for more than 45% of the overall revenue in 2014. It may be primarily ascribed to the enhanced features such as low output noise, creation of an automated high voltage test system, and improved sourcing precision and measurement sensitivity provided by these products.

Asia Pacific HVDC power supply market accounted for over 20% of the overall revenue share in 2014, which may increase over the next seven years. Healthy demand across the transmission grids owing to the ability of these products to connect remotely located electricity generation plants is expected to fuel the demand over the next seven years. Europe is also projected to witness a significant growth owing to increasing emphasis on the use of renewable energy resources in the region.

The notable companies in the market include ABB Ltd., Excelitas Technologies, General Electric, Glassman Europe Ltd., Siemens AG, Spellman, General Electric, UltraVolt, Inc., Toshiba Corporation, and Alstom SA. The leading industry participants emphasize on quality control and testing, wherein manufacturing activities are monitored right up to final testing to ensure that the product is manufactured in conformance with specific customer requirements and industry standards.

## Contents

### **CHAPTER 1. METHODOLOGY AND SCOPE**

- 1.1. Research Methodology
- 1.2. Research Scope & Assumptions
- 1.3. List of Data Sources

### **CHAPTER 2. EXECUTIVE SUMMARY**

- 2.1. HVDC power supply - Industry snapshot & key buying criteria, 2012 - 2022

### **CHAPTER 3. HVDC POWER SUPPLY INDUSTRY OUTLOOK**

- 3.1. Market segmentation
- 3.2. Market size and growth prospects
- 3.3. HVDC power supply value chain analysis
- 3.4. HVDC power supply market dynamics
  - 3.4.1. Market driver analysis
    - 3.4.1.1. Increasing demand for high performance efficiency
    - 3.4.1.2. Technological advancements coupled with environmental, economic and social benefits
  - 3.4.2. Market restraint analysis
    - 3.4.2.1. Complexity in designing and operating multi-terminal HVDC system
- 3.5. Key opportunities prioritized
- 3.6. Industry analysis - Porter's
- 3.7. HVDC power supply market PESTEL analysis, 2014
- 3.8. Technology landscape

### **CHAPTER 4. HVDC POWER SUPPLY VOLTAGE OUTLOOK**

- 4.1. 1000V
  - 4.1.1. Market estimates and forecasts by region, 2012 - 2022 (USD Million)
- 4.2. 1000-4000V
  - 4.2.1. Market estimates and forecasts by region, 2012 - 2022 (USD Million)
- 4.3. 4000V
  - 4.3.1. Market estimates and forecasts by region, 2012 - 2022 (USD Million)

### **CHAPTER 5. HVDC POWER SUPPLY APPLICATION OUTLOOK**

## 5.1. Telecommunication

5.1.1. Market estimates and forecasts by region, 2012 - 2022 (USD Million)

## 5.2. Medical

5.2.1. Market estimates and forecasts by region, 2012 - 2022 (USD Million)

## 5.3. Industrial

5.3.1. Market estimates and forecasts by region, 2012 - 2022 (USD Million)

## 5.4. Oil & gas

5.4.1. Market estimates and forecasts by region, 2012 - 2022 (USD Million)

## 5.5. Others

5.5.1. Market estimates and forecasts by region, 2012 - 2022 (USD Million)

# CHAPTER 6. HVDC POWER SUPPLY REGIONAL OUTLOOK

## 6.1. North America

6.1.1. North America market by voltage, 2012 - 2022 (USD Million)

6.1.2. North America market by application, 2012 - 2022 (USD Million)

### 6.1.3. U.S.

6.1.3.1. U.S. market by voltage, 2012 - 2022 (USD Million)

6.1.3.2. U.S. market by application, 2012 - 2022 (USD Million)

### 6.1.4. Canada

6.1.4.1. Canada market by voltage, 2012 - 2022 (USD Million)

6.1.4.2. Canada market by application, 2012 - 2022 (USD Million)

## 6.2. Europe

6.2.1. Europe market by voltage, 2012 - 2022 (USD Million)

6.2.2. Europe market by application, 2012 - 2022 (USD Million)

### 6.2.3. Germany

6.2.3.1. Germany market by voltage, 2012 - 2022 (USD Million)

6.2.3.2. Germany market by application, 2012 - 2022 (USD Million)

### 6.2.4. UK

6.2.4.1. UK market by voltage, 2012 - 2022 (USD Million)

6.2.4.2. UK market by application, 2012 - 2022 (USD Million)

## 6.3. Asia Pacific

6.3.1. Asia Pacific market by voltage, 2012 - 2022 (USD Million)

6.3.2. Asia Pacific market by application, 2012 - 2022 (USD Million)

### 6.3.3. China

6.3.3.1. China market by voltage, 2012 - 2022 (USD Million)

6.3.3.2. China market by application, 2012 - 2022 (USD Million)

### 6.3.4. India

- 6.3.4.1. India market by voltage, 2012 - 2022 (USD Million)
- 6.3.4.2. India market by application, 2012 - 2022 (USD Million)
- 6.3.5. Japan
  - 6.3.5.1. Japan market by voltage, 2012 - 2022 (USD Million)
  - 6.3.5.2. Japan market by application, 2012 - 2022 (USD Million)
- 6.3.6. Korea
  - 6.3.6.1. Korea market by voltage, 2012 - 2022 (USD Million)
  - 6.3.6.2. Korea market by application, 2012 - 2022 (USD Million)
- 6.4. Latin America
  - 6.4.1. Latin America market by voltage, 2012 - 2022 (USD Million)
  - 6.4.2. Latin America market by application, 2012 - 2022 (USD Million)
  - 6.4.3. Brazil
    - 6.4.3.1. Brazil market by voltage, 2012 - 2022 (USD Million)
    - 6.4.3.2. Brazil market by application, 2012 - 2022 (USD Million)
- 6.5. Middle East & Africa
  - 6.5.1. Middle East & Africa market by voltage, 2012 - 2022 (USD Million)
  - 6.5.2. Middle East & Africa market by application, 2012 - 2022 (USD Million)

## **CHAPTER 7. COMPETITIVE LANDSCAPE**

- 7.1. ABB
  - 7.1.1. Revenue Analysis
  - 7.1.2. Product Benchmarking
  - 7.1.3. Strategic Development
- 7.2. AHV
  - 7.2.1. Revenue Analysis
  - 7.2.2. Product Benchmarking
  - 7.2.3. Strategic Development
- 7.3. American Power Design (APD)
  - 7.3.1. Revenue Analysis
  - 7.3.2. Product Benchmarking
  - 7.3.3. Strategic Development
- 7.4. Applied Kilovolts (Exelis)
  - 7.4.1. Revenue Analysis
  - 7.4.2. Product Benchmarking
  - 7.4.3. Strategic Development
- 7.5. Excelitas Technologies Corp.
  - 7.5.1. Revenue Analysis
  - 7.5.2. Product Benchmarking

- 7.5.3. Strategic Development
- 7.6. General Electric
  - 7.6.1. Revenue Analysis
  - 7.6.2. Product Benchmarking
  - 7.6.3. Strategic Development
- 7.7. Glassman Europe Ltd.
  - 7.7.1. Revenue Analysis
  - 7.7.2. Product Benchmarking
  - 7.7.3. Strategic Development
- 7.8. Hamamatsu
  - 7.8.1. Revenue Analysis
  - 7.8.2. Product Benchmarking
  - 7.8.3. Strategic Development
- 7.9. Hi-Tek Power
  - 7.9.1. Revenue Analysis
  - 7.9.2. Product Benchmarking
  - 7.9.3. Strategic Development
- 7.10. HVM Technology, Inc.
  - 7.10.1. Revenue Analysis
  - 7.10.2. Product Benchmarking
  - 7.10.3. Strategic Development
- 7.11. Matsusada Precision, Inc.
  - 7.11.1. Revenue Analysis
  - 7.11.2. Product Benchmarking
  - 7.11.3. Strategic Development
- 7.12. Nippon Telegraph and Telephone Corporation (NTT)
  - 7.12.1. Revenue Analysis
  - 7.12.2. Product Benchmarking
  - 7.12.3. Strategic Development
- 7.13. Pico Electronics
  - 7.13.1. Revenue Analysis
  - 7.13.2. Product Benchmarking
  - 7.13.3. Strategic Development
- 7.14. Siemens AG
  - 7.14.1. Revenue Analysis
  - 7.14.2. Product Benchmarking
  - 7.14.3. Strategic Development
- 7.15. Spellman High Voltage Electronics Corp.
  - 7.15.1. Revenue Analysis

- 7.15.2. Product Benchmarking
- 7.15.3. Strategic Development
- 7.16. Toshiba Corp.
  - 7.16.1. Revenue Analysis
  - 7.16.2. Product Benchmarking
  - 7.16.3. Strategic Development
- 7.17. UltraVolt, Inc.
  - 7.17.1. Revenue Analysis
  - 7.17.2. Product Benchmarking
  - 7.17.3. Strategic Development
- 7.18. XP Power (EMCO high voltage)
  - 7.18.1. Revenue Analysis
  - 7.18.2. Product Benchmarking
  - 7.18.3. Strategic Development

## List Of Tables

### LIST OF TABLES

Table 1 HVDC power supply - Industry snapshot & key buying criteria

Table 2 HVDC power supply market, 2012 - 2022 (USD Million)

Table 3 HVDC power supply market by region, 2012 - 2022 (USD Million)

Table 4 HVDC power supply market by voltage, 2012 - 2022 (USD Million)

Table 5 HVDC power supply market by application, 2012 - 2022 (USD Million)

Table 6 HVDC power supply - Key market driver impact

Table 7 HVDC power supply - Key market restraint impact

Table 8 1000V demand in HVDC power supply market, 2012 - 2022 (USD Million)

Table 9 1000V demand in HVDC power supply market by region, 2012 - 2022 (USD Million)

Table 10 1000-4000V demand in HVDC power supply market, 2012 - 2022 (USD Million)

Table 11 1000-4000V demand in HVDC power supply market by region, 2012 - 2022 (USD Million)

Table 12 4000V demand in HVDC power supply market, 2012 - 2022 (USD Million)

Table 13 4000V demand in HVDC power supply market by region, 2012 - 2022 (USD Million)

Table 14 Telecommunication demand in HVDC power supply market, 2012 - 2022 (USD Million)

Table 15 Telecommunication demand in HVDC power supply market by region, 2012 - 2022 (USD Million)

Table 16 Medical demand in HVDC power supply market, 2012 - 2022 (USD Million)

Table 17 Medical demand in HVDC power supply market by region, 2012 - 2022 (USD Million)

Table 18 Industrial demand in HVDC power supply market, 2012 - 2022 (USD Million)

Table 19 Industrial demand in HVDC power supply market by region, 2012 - 2022 (USD Million)

Table 20 Oil & gas demand in HVDC power supply market, 2012 - 2022 (USD Million)

Table 21 Oil & gas demand in HVDC power supply market by region, 2012 - 2022 (USD Million)

Table 22 Others demand in HVDC power supply market, 2012 - 2022 (USD Million)

Table 23 Others demand in HVDC power supply market by region, 2012 - 2022 (USD Million)

Table 24 North America market by voltage, 2012 - 2022 (USD Million)

Table 25 North America market by application, 2012 - 2022 (USD Million)



- Table 26 U.S. market by voltage, 2012 - 2022 (USD Million)
- Table 27 U.S. market by application, 2012 - 2022 (USD Million)
- Table 28 Canada market by voltage, 2012 - 2022 (USD Million)
- Table 29 Canada market by application, 2012 - 2022 (USD Million)
- Table 30 Europe market by voltage, 2012 - 2022 (USD Million)
- Table 31 Europe market by application, 2012 - 2022 (USD Million)
- Table 32 Germany market by voltage, 2012 - 2022 (USD Million)
- Table 33 Germany market by application, 2012 - 2022 (USD Million)
- Table 34 UK market by voltage, 2012 - 2022 (USD Million)
- Table 35 UK market by application, 2012 - 2022 (USD Million)
- Table 36 Asia Pacific market by voltage, 2012 - 2022 (USD Million)
- Table 37 Asia Pacific market by application, 2012 - 2022 (USD Million)
- Table 38 China market by voltage, 2012 - 2022 (USD Million)
- Table 39 China market by application, 2012 - 2022 (USD Million)
- Table 40 India market by voltage, 2012 - 2022 (USD Million)
- Table 41 India market by application, 2012 - 2022 (USD Million)
- Table 42 Japan market by voltage, 2012 - 2022 (USD Million)
- Table 43 Japan market by application, 2012 - 2022 (USD Million)
- Table 44 Latin America market by voltage, 2012 - 2022 (USD Million)
- Table 45 Latin America market by application, 2012 - 2022 (USD Million)
- Table 46 Brazil market by voltage, 2012 - 2022 (USD Million)
- Table 47 Brazil market by application, 2012 - 2022 (USD Million)
- Table 48 Middle East & Africa market by voltage, 2012 - 2022 (USD Million)
- Table 49 Middle East & Africa market by application, 2012 - 2022 (USD Million)

## I would like to order

Product name: High Voltage Direct Current (HVDC) Power Supply Market Analysis By Voltage (1,000 V, 1,000-4000 V, >4,000 V), By Application (Telecommunication, Medical, Industrial, Oil & Gas) And Segment Forecast To 2022

Product link: <https://marketpublishers.com/r/HB1BCF6D9A1EN.html>

Price: US\$ 4,950.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/HB1BCF6D9A1EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below

and fax the completed form to +44 20 7900 3970