

# Global Very Low Frequency (VLF) Antennas Market Growth 2025-2031

<https://marketpublishers.com/r/G8162973D652EN.html>

Date: September 2025

Pages: 105

Price: US\$ 3,660.00 (Single User License)

ID: G8162973D652EN

## Abstracts

The global Very Low Frequency (VLF) Antennas market size is predicted to grow from US\$ 478 million in 2025 to US\$ 695 million in 2031; it is expected to grow at a CAGR of 6.4% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

Very low frequency or VLF is the ITU designation for radio frequencies (RF) in the range of 3-30 kHz, corresponding to wavelengths from 100-10 km, respectively. The band is also known as the myriameter band or myriameter wave as the wavelengths range from one to ten myriameters (an obsolete metric unit equal to 10 kilometers).

High power transmitting antennas for VLF frequencies are very large wire antennas, up to a mile across. They consist of a series of steel radio masts, linked at the top with a network of cables, often shaped like an umbrella or clotheslines.

VLF signals are very special in that they use the ionosphere D layer of the atmosphere at an altitude of 60 km and the conductive earth as a horizontal “duct” waveguide, which confines the waves so that they do not escape into space, allowing them to propagate to very large distances around the earth. This makes VLF a very convenient tool for sensing activities in the D region of the atmosphere where it can be used by scientists to detect phenomena like lightning, solar activity and cosmic gamma rays, but propagating VLF signals in this complex media is the most difficult feat to achieve in the field of electromagnetism. VLF is also used for geophysical surveys, which use electromagnetic waves to detect what is under the ground as well as the ground's

composition.

LP Information, Inc. (LPI) ' newest research report, the “Very Low Frequency (VLF) Antennas Industry Forecast” looks at past sales and reviews total world Very Low Frequency (VLF) Antennas sales in 2024, providing a comprehensive analysis by region and market sector of projected Very Low Frequency (VLF) Antennas sales for 2025 through 2031. With Very Low Frequency (VLF) Antennas sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Very Low Frequency (VLF) Antennas industry.

This Insight Report provides a comprehensive analysis of the global Very Low Frequency (VLF) Antennas landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Very Low Frequency (VLF) Antennas portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Very Low Frequency (VLF) Antennas market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Very Low Frequency (VLF) Antennas and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Very Low Frequency (VLF) Antennas.

This report presents a comprehensive overview, market shares, and growth opportunities of Very Low Frequency (VLF) Antennas market by product type, application, key manufacturers and key regions and countries.

### **Segmentation by Type:**

Receiving Antennas

Transmitting Antennas

### **Segmentation by Application:**

Commercial

Government

Military

Others

**This report also splits the market by region:**

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Denki Kogyo

LF Engineering Company

DARPA

Continental Electronics Corporation

Hagenuk Marinekommunikation GmbH

Ericsson

Millitech

TE Connectivity

Sinclair Technologies

### **Key Questions Addressed in this Report**

What is the 10-year outlook for the global Very Low Frequency (VLF) Antennas market?

What factors are driving Very Low Frequency (VLF) Antennas market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Very Low Frequency (VLF) Antennas market opportunities vary by end market size?

How does Very Low Frequency (VLF) Antennas break out by Type, by Application?

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