Disc Insulator Market was valued at US$11.375 billion in 2021 and is estimated to grow at a CAGR of 6.04%

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NOIDA, UTTAR PARDESH, INDIA, November 20, 2023 /EINPresswire.com/ -- According to a new report published by Knowledge Sourcing Intelligence, forecasted between 2021 and 2028, the disc insulator market was valued at US$11.375 billion in 2021 and is anticipated to grow at a CAGR of 6.04%.

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> *Knowledge Sourcing Intelligence*

The increasing need for electricity due to increased energy demand from the world's growing population is expected to drive the disc insulator market, as they are critical components in electricity generation and supply. Furthermore, rising consumer electronics sales, increased usage of renewable energy resources, and technological improvements are likely to be significant drivers driving disc insulator demand throughout the projection period.

A disc insulator is a type of electrical insulator that is used to support and isolate electrical wires in high-voltage operations. It is often composed of porcelain or glass and is disc-shaped, with grooves or fins on the surface to improve creepage length and electrical efficiency. A disc insulator's primary duty is to prevent electrical leakage and to provide dependable insulation in power transmission and distribution systems. Increased demand for energy, driven by rising populations and urbanization, is pushing the need for efficient power transmission and distribution infrastructure across the world. As disc insulators are critical components in these systems, this increases demand for them. Furthermore, the growing usage of renewable energy sources such as wind and solar power is fueling market expansion. To integrate renewable energy into the power grid, current transmission and distribution networks must be expanded and upgraded, creating a demand for disc insulators.

The market is witnessing multiple collaborations and technological advancements, for instance, GIG-IRM, an Indian company, released "Toughened Glass Disc Insulators" in May 2020, setting a new standard for longevity and dependability in transmission lines. GIG-IRM aspires to improve India's power sector by teaming with globally famous businesses known for their superior quality. The use of these high-quality glass insulators promises to increase transmission line durability and resilience, maintaining uninterrupted power supply and lowering maintenance costs. With this tremendous advancement, GIG-IRM is leading a revolutionary movement in India toward a more resilient and stable electrical infrastructure.

Access sample report or view details: https://www.knowledge-sourcing.com/report/disc-insulator-market

Based on type the global disc insulator market is divided into suspension disc insulator and strain disc Insulator. The suspension disc insulator led the market share. Suspension disc insulators are extensively used in high-voltage transmission lines to support and suspend wires while providing good insulation and retaining mechanical strength. These insulators are adaptable and may be used in a variety of applications, including overhead transmission lines and substations. Suspension disc insulators are designed to be flexible and adaptable to varying voltage levels and climatic conditions. Their extensive usage is due to their proven dependability, cost-effectiveness, and efficiency in preserving electrical insulation and structural integrity, making them a favored choice for many power distribution networks across the world.

Based on material the global disc insulator market is divided into glass, ceramic, porcelain, and others. Among these, the porcelain captured the major market share and is expected to expand significantly over the forecast period. Porcelain insulators are selected because of their superior electrical and mechanical qualities, which make them appropriate for a wide range of applications in the electrical power sector. Porcelain insulators provide strong electrical stress resistance, temperature stability, and mechanical strength. They can tolerate tough environmental conditions including pollution and excessive temperatures. Furthermore, porcelain insulators have a long service life, ensuring consistent performance over time. These characteristics make porcelain the material of choice for many electrical insulator applications, leading to its global market dominance.

Based on application the global disc insulator market is divided into transmission and distribution lines, and utility poles. Among these, the transmission and distribution lines category held the major market share and is poised to expand significantly over the forecast period. This is largely owing to the vital function that these insulators play in guaranteeing the safe and efficient transmission of electrical power across long distances. Transmission lines, in particular, transport high-voltage electricity over long distances, and disc insulators play an important role in preserving the electrical network's integrity by providing insulation and avoiding electrical loss.

Based on Geography the Asia-Pacific region is predicted to hold a considerable proportion of the

disc insulators market due to rising power generation and a significant move toward renewable energy sources in the area's key economies, including China, India, Japan, and South Korea. Disc insulators are also less expensive to transport, install, and maintain. Their modest weight decreases shipping costs, while faster handling and installation operations save time and labour costs. Furthermore, increased government and other investor involvement in the energy-generating industry is likely to favour disc insulators' market potential in the next years.

As a part of the report, the major players operating in the global disc insulator market, that have been covered are Global Insulator Group LLC, Aditya Birla Insulators (Grasim Industries Ltd.), Bharat Heavy Electrical Limited, NGK Insulators Ltd., Compaq International, Iran Insulator Co., NS Transmission PVT. Ltd.

The market analytics report segments the global disc insulator market using the following criteria:

- BY TYPE

o Suspension Disc Insulator
o Strain Disc Insulator

- BY MATERIAL

o Glass
o Ceramic
o Porcelain
o Others

- BY APPLICATION

o Transmission and Distribution Lines
o Utility Poles

- BY GEOGRAPHY

o North America

- United States
- Canada
- Mexico

o South America

- Brazil

- Argentina
- Others

o Europe

- Germany
- France
- United Kingdom
- Spain
- Others

o Middle East and Africa

- Saudi Arabia
- UAE
- Others

o Asia Pacific

- China
- Japan
- South Korea
- India
- Australia
- Others

Companies Profiled:

- Global Insulator Group LLC
- Aditya Birla Insulators (Grasim Industries Ltd.)
- Bharat Heavy Electrical Limited
- NGK Insulators Ltd.
- Compaq International
- Iran Insulator Co.
- NS Transmission PVT. Ltd.

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