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UK, Ireland, and Southeast Asia Spark Detection System Market Size and Forecast (2021 - 2031), Regional Share, Trend, and Growth Opportunity Analysis Report Coverage: By Type [Infrared Spark Detection Systems and Ultraviolet (UV) Spark Detection Systems], Application (Wood-Based Panel Industry, Textile Industry, Pulp and Paper Industry, Bioenergy, Food Industry, and Others), and Country

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Abstracts

The UK, Ireland, and Southeast Asia spark detection system market size was valued at 34.14 million in 2023 and is anticipated to reach US$ 58.01 million by 2031. The UK, Ireland, and Southeast Asia spark detection system market is estimated to record a CAGR of 6.9% from 2023 to 2031.

The wood and furniture business in the region includes a broad group of small, medium, and large businesses. Southeast Asia's prominence as a production location is increasing as a result of global changes, notably those in China. Many enterprises are currently transitioning from artisanal to industrial manufacturing. Furthermore, companies in Southeast Asia are very open and receptive to change and future development, and they are quick to adapt and integrate new technologies and working ways, which is a significant factor driving the region's spark detection system market.

As various industries, including woodwork, food, textile, and paper, face fire or dust explosions, the Governments of various Southeast Asian countries have implemented various rules and regulations. For instance, in May 2024, the Government of Vietnam promulgated Decree No. 50/2024/ND-CP Partially Amending Decree No. 136/2020/ND-

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CP on Detailed Guidance on the Law on Fire Prevention and Fighting and Decree No. 83/2017/ND-CP on Regulations on Rescue Operations. This new Decree regulates fire prevention and fighting and rescue operations in manufacturing and trading facilities. Such strict regulations by governments in the region to prevent fire incidents are expected to fuel the spark detection system market growth in the coming years.

According to FAS Post Bangkok, Thailand's food processing industry is one of Southeast Asia's most developed. Many medium-to-large food processors create high-value products for both domestic and foreign markets. Also, Thailand aspires to be one of the world's top ten processed food exporters by 2027, as well as a major player in the "Future Food" industry. Thailand's food exports were valued at nearly US$ 39 billion in 2022. Rice, canned tuna, sugar, meat, cassava products, and canned pineapple are among the most significant food exports. Similarly, the wood industry is also experiencing significant growth in the country. Thailand's wood exports increased significantly in the first four months of 2023, reaching US$ 1.08 billion (36.4 billion Thai baht), up 5.31% over the same time the previous year. Wood product exports are divided into five categories: processed wood, fiberboard, plywood, furniture, and other wood goods. Processed wood, fiberboard, and plywood accounted for 73% of total exports, with furniture and other wood products accounting for the other 27%. The growth in the food and wood industries is expected to drive the spark detection system market in Thailand.

According to the Observatory of Economic Complexity (OEC), Ireland exported US$ 748 million in textiles in 2022, ranking as the world's 66th largest textile exporter. In the same year, textiles were Ireland's 13th most exported product. Such growth in the textile industry is driving the spark detection system market in Ireland. In addition, as fire poses a significant risk at the workplace, the Health & Safety Authority of Ireland monitors employers' management of fire risk. Per the Safety, Health and Welfare at Work Act 2005 (the 2005 Act), employers must ensure the safety, health, and welfare of their employees at work to the extent it is reasonably practicable. The person in control to any extent of the workplace should ensure a safe workplace, safe access, safe egress, and safe articles or substances. Also, under section 19 of the 2005 Act, employers are required to carry out risk assessments and to record these in the Safety Statement. A fire safety risk assessment should be conducted and should include fire prevention, fire detection and warning, and emergency escape and firefighting. Such strict rules by the government of Ireland are expected to fuel the UK, Ireland, and Southeast Asia spark detection system market growth.

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Based on application, the spark detection systems market is segmented into wood-based panel industry, pulp & paper industry, bioenergy, food industry, textile industry, and others.

The wood-based panel industry segment held the largest UK, Ireland, and Southeast Asia spark detection system market share in 2023. In the wood-based panel industry, fire safety systems are essential for detecting any fire hazard during wood processing operations. This aspect is crucial for fire protection in locations where MDF, OSB, Particleboard, and plywood are in use. The systems help control the hazards posed by combustible dust and consequently promote safe working practices in the flooring, furniture, and sawmill industries. Also, new technologies for spark detection have made a significant difference. For instance, Minimax GmbH offers the UniVario YMX5000 series for the wood processing industry. This spark detection system operates in extreme temperature ranges, from -40°C to 105°C. The current systems are more sensitive and have a quicker response time, making it possible to locate the spark before it has a chance to ignite any combustible materials. As a result, the wood-based panel industry is witnessing a higher adoption of spark detection systems in recent years.

Fagus-GreCon Greten GmbH & Co. KG; Fire Shield Systems Ltd; Minimax GmbH; IEP Technologies, LLC; Firefly AB; Fike Corporation; ELECTRONIC WOOD SYSTEMS GMBH; Raille Limited; Blazequel; and BS&B Safety Systems, LLC are among the prominent players profiled in the UK, Ireland, and Southeast Asia spark detection system market report. Several other major players were also studied and analyzed in the UK, Ireland, and Southeast Asia spark detection system market report to get a holistic view of the market and its ecosystem.

The overall UK, Ireland, and Southeast Asia spark detection system market share has been derived using both primary and secondary sources. Exhaustive secondary research has been conducted using internal and external sources to obtain qualitative and quantitative information related to the UK, Ireland, and Southeast Asia spark detection system market. The process also helps obtain an overview and forecast of the market with respect to all the market segments. Also, multiple primary interviews have been conducted with industry participants to validate the data and gain analytical insights. This process includes industry experts such as VPs, business development managers, market intelligence managers, and national sales managers, along with external consultants such as valuation experts, research analysts, and key opinion leaders, specializing in the UK, Ireland, and Southeast Asia spark detection system market.

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