

Asia-Pacific Smart Glass & Smart Window Market (2016 - 2022)

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Abstracts

Smart glass and smart window or switchable glass and switchable window are a technology with light transmission properties, which get modified when voltage, light or heat is applied. Generally, the glass changes from a translucent glass to a transparent glass. The smart glass technology when installed in the envelope of buildings has the potential to create climate adaptive building shells, saving heating cost, air-conditioning and lighting. It also saves the cost of installing and maintaining motorized light screens or blinds or curtains. Blackout smart glass has the potential to block about 99.4% of ultraviolet light, and as a result reduces fabric fading.

Demand for the use of smart glasses & windows are rapidly increasing in construction sector. Either it's commercial or residential building; benefits such as security, safety, and environmental protection are some of the reasons raising the demand for smart glasses. Replacement of new and stylish bricks and new exterior glasses with old one is one of the biggest trends in construction industry. Technology is also playing major role in the expansion of modern architecture. New high performance glass technologies have increased the refurbishment of buildings. In addition to this, switchable glass is also becoming one of the trends, as its boost insulating properties, sound transmission and UV light.

Based on the Technology, the Smart Glass & Smart Window market is segmented into Active Glasses and Passive Glasses. Active glasses are further divided into Polymer Dispersed Liquid Crystals, Suspense Particle Device, Electrochromic, and Others (Micro-blinds and Nanocrystals). Passive Glasses is divided into Passive Thermochromic and Passive Photochromic. Based on Application, the market is segmented into Automotive, Construction, Marine, and Aviation.

Based on country, Smart Glass & Smart Window market is segmented into China, Japan, India, South Korea, Singapore, Malaysia and Rest of Asia-Pacific. China remained the dominant country in the Asia-Pacific Smart Glass & Smart Window market in 2015. Japan and India would witness promising CAGR during the forecast period (2016-2022).

The report covers the analysis of key stake holders of the Smart Glass & Smart Window market. Key companies profiled in the report include Saint Gobain S.A, Smart Glass International, View, Inc., Research Frontiers Incorporated, Gentex Corporation, Asahi Glass Co., Pleotint, and Hitachi Ltd.

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