

NEW YORK, Sept. 26, 2013 /PRNewswire/ -- Reportlinker.com announces that a new market research report is available in its catalogue:

[Asia-Pacific Buildings Sector: Macro to Micro Implications of Mega Trends to 2025](http://www.reportlinker.com/p01628611/Asia-Pacific-Buildings-Sector-Macro-to-Micro-Implications-of-Mega-Trends-to-2025.html#utm_source=prnewswire&utm_medium=pr&utm_campaign=Clean_Vehicle) http://www.reportlinker.com/p01628611/Asia-Pacific-Buildings-Sector-Macro-to-Micro-Implications-of-Mega-Trends-to-2025.html#utm_source=prnewswire&utm_medium=pr&utm_campaign=Clean_Vehicle

Building Reformation is a New Form of Economic and Green Growth in Asia-Pacific

This study provides insights into key mega trends for the buildings sector in Asia-Pacific. Global mega trends such as urbanization and economic and technological development are changing the demographics and financial outlook in Asia-Pacific

, and will shape the region's buildings sector. The trends examined are, broadly, building construction, and energy crisis and carbon emission. In the long term, these will create opportunities such as buildings sector development and green buildings, eco cities, eco resorts, prefabrication/modularization, LED, building management and services.

Summary of Top Mega Trends

Urbanization: The City as a Customer The increasing pace of urbanization will lead to the integration of the core city center with suburbs and daughter cities, resulting in expanding city

limits. This will have a massive impact on the future of mobility, work life, and societies. By 2025, X billion people are expected to be living in urban areas in the Asia-Pacific region. This number accounts for approximately X percent of the projected total population in 2025 and is the result of the development of network cities and mega cities.

Beyond BRICS: The Next Game Changers Almost all countries in Asia-Pacific will witness larger GDP composition in industrial activities in 2025. Half of China's GDP will come from industrial activities, while Malaysia, Thailand, and Vietnam will register close to X percent in industrial GDP composition. Five countries in Asia-Pacific are included in the world's top countries with the highest share of industry sector, as a result of the rapid industrialization in the region. They are Indonesia, China, Thailand, Malaysia, and South Korea.

Connectivity and Convergence In line with population growth, the increase in size of the middle-income group and economic growth, as well as technology innovation in goods and services will be the impetus for connectivity and convergence. Wearable computing, 3D HDTV, video-calling, e-paper, mind-control video gaming, and many other future technologies will hit the mainstream market by 2020. These technologies will change the way people think, interact, and work, resulting in greener, smarter, and technology-savvy lives.

Summary of Mega Trends Macro Implications for the Buildings Sector

Energy Crisis and Carbon Emission By 2030, energy demand will reach X MTOE in Asia-Pacific, with an annual increase of X percent from 2015. Coal and oil will remain the two main energy sources, but the largest growth is expected from alternative energy sources such as nuclear, hydro, and emerging renewable energy sources (such as solar, wind, and geothermal). Buildings are the largest consumer of energy and second-largest carbon emitter in Asia-Pacific. By 2025, half of Asia's leading cities would have achieved satisfactory and average status in land use efficiency, energy consumption, and carbon emission.

Building Construction With the growing population and urbanization rate, and coupled with increasing economic activities, the demand for residential and non-residential building spaces is inevitable. In 2011, the Asia-Pacific market for building construction was valued at \$X billion. The figure is expected to reach \$X billion by 2025, growing at an AAGR of almost X percent. The construction of residential buildings will be the main contributor in the market, while the non-residential segment will be active with refurbishment activities and new constructions.

Summary of Mega Trends Micro Implications for the Buildings Sector

Buildings Sector Development and Green Buildings The buildings sector is identified as one of the highest consumers of energy and emitters of carbon dioxide. Asia-Pacific cities have the highest number of tall buildings in the world; this is expected to remain the case through 2025. This is reflected by the robust growth of the building construction market, which is expected to grow at an AAGR of X percent to reach \$X billion in 2025. With increasing awareness of green growth and sustainability, the development of green buildings holds great opportunities in this region. With the expected annual growth of nearly X percent, the size of the green buildings market is likely to reach \$X billion. Additionally, an integrated design approach will be relevant in green buildings, and there will be greater adoption of green standards in prefabrication or modularization of buildings, and the development of eco cities and eco resorts.

Eco Cities The development of eco cities is already taking place in Asia-Pacific, with the revolution of several eco-city models such as renewable-energy cities, carbon-neutral cities, garden cities, resource-efficient cities, self-sufficient cities, and smart cities. The future of such development will continue to focus on three core themes, which are lifecycle sustainability,

environmental sustainability, and performance sustainability. This opens doors to opportunities for the building technologies market, whereby the technologies and services will focus on the deployment of information technology, renewable energy, green materials, and energy efficiency.

Eco Resorts Asia will remain the second-largest destination for tourists in 2025. Nonetheless, this region will register the highest growth in international tourist arrivals, sparking the boom of the tourism industry. With the unprecedented progress in green technologies in buildings, owners in the tourism industry are becoming environment friendly. Green building applications, energy efficiency, and environmental sustainability are fast becoming themes fused into the business plans of hotels and resorts. There are a significant number of eco resorts in Asia-Pacific, especially Australia, and scattered locations across the region.

Prefabrication/Modularization The concept of prefabricated buildings or modular buildings is not new in Asia-Pacific. Nonetheless, the adoption of prefabricated buildings is set to increase, as reflected in the high trade value of prefabricated buildings in Asia-Pacific. The use of prefabricated buildings in building construction will be connected with lean construction ideas, building information modeling, and selection of green materials. Prefabrication provides one of the best potentials for green building certification, as prefabrication is able to minimize waste production in building construction, and operates with minimum energy requirement if designed optimally. In addition, the relevance of and need for prefabricated buildings will be amplified with occurrences of disasters and emergencies.

Light Emitting Diode (LED) In the lighting industry, Asia-Pacific will remain the leading manufacturing hub for lighting products in 2025. As such, LED innovation and production is expected to rise in this region, with China, Japan, South Korea, and Malaysia taking the lead. Apart from LED applications in the general appliance and automotive markets, the use of LED in building lighting is only logical in tandem with the development of green buildings and energy efficiency targets. Moving forward, LED market participants are expected

to experience backward and forward integration in the value chain, and the rise of the organic light emitting diode (OLED).

Building Management and Services As buildings grow increasingly technologically advanced, the complicated operations and maintenance of such buildings compel the need for integrated facilities management (IFM) and building management systems (BMS). In

Asia-Pacific

, facilities management (FM) is evolving into IFM and the disposition of green integrated will be inevitable as the number of green buildings increases. On the other hand, modern and future buildings will be enhanced with integrated building management systems (IBMS). The applications of both IFM and IBMS in the same building are expected to result in advanced integrated building management and services (AIBMS), whereby the boundaries of IFM and IBMS will be blurred and the service propositions of IFM and IBMS become converged.

Policy Reforms Policy reforms are inevitable as Asia-Pacific seeks organized urban planning and design, which entails development concepts of compact cities, cellular development, slum upgrades, and land-use integration. Investors in green technologies can expect to gain business opportunities, as most Asia-Pacific countries have already rolled out enablers that promote the use of renewable energy in line with their respective targets.

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