

# Smart Poles Market Poised for 17.9% CAGR Growth, Surpassing \$35.9 Billion by 2031

The market research is offered along with information related to key drivers, restraints, and opportunities.

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The growing demand for high-speed Internet connectivity and the emergence of the Internet of Things (IoT), the smart poles market is expected to witness substantial growth in the upcoming years”

*Allied Market Research*

Market Research published an exclusive report, titled, "Smart Poles Market by Type of Hardware (Lighting Lamp, Pole Bracket and Pole Body, Communication Device, Controller, Others), by Products (Hardware, Software, Services), by Installation (New Installation, Retrofit), by Application (Highways and Roadways, Public Places, Railways and Harbors): Global Opportunity Analysis and Industry Forecast, 2021-2031".

The Global [Smart Poles Market](#) was valued at \$7.1 billion in 2021, and is projected to reach \$35.9 billion by 2031, growing at a CAGR of 17.9% from 2022 to 2031

Smart poles are innovative and technologically advanced street light poles equipped with various sensors, cameras, and communication devices. These poles have the ability to collect, analyze and transmit data to a central management system to provide real-time information about traffic, weather, air quality, and other city-related information.

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The global [smart poles industry](#) is witnessing considerable growth due to the increasing demand for smart city solutions. These poles help local governments manage energy consumption more effectively and provide real-time data on air quality, traffic trends, and public safety. By combining design with functionality, smart poles improve the quality of life for residents and promote the sustainability of urban areas. With technological progress, smart poles have the potential to further transform urban environments, reinforcing their role as a vital component of future cities.

The rapid growth of urban areas and the need for powerful infrastructure management are driving global investments in smart city initiatives. Governments are using smart pole solutions to support these efforts. For example, in July 2021, Chennai City police announced plans to improve traffic management by installing smart poles connected to a central command center. The initiative is part of Greater Chennai Corporation's mega smart city project, which has a budget of INR 900 crores. On the other hand, the New Delhi Municipal Corporation mounted 55 power-saving smart poles in Connaught Place. These poles are enhanced with air sensors, LED lights, and Wi-Fi. The lights are also designed to dim during low-traffic periods to save energy.

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In April 2022, the European Commission selected 100 cities in Europe as part of its mission to achieve climate-neutral and smart cities by 2030. The longer lifespan of LED bulbs, which can last four to forty times longer than traditional bulbs, results in lower maintenance needs and costs, encouraging further adoption. Although LED penetration across the globe is still under 15%, cities such as New York and Milan have reached 100% adoption. In India, Energy Efficiency Services Limited plans to install 1.6 crores of smart LED streetlights by 2024, contributing remarkably to energy savings and carbon reduction, thereby boosting market demand for smart poles.

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In March 2024, Virgin Media O2 successfully completed a trial of a new method for further improvement of mobile services by combining its existing fixed network infrastructure with newly deployed smart poles. These poles, placed along the operator's national fiber network cabinets, encompass small-cell technologies to support mobile coverage in dense urban environments. Unlike traditional masts, these poles do not need planning permission and can be finished in a day.

The smart poles, a first in the UK, use Virgin Media's fiber network to transmit electricity using [digital electricity technology](#). This approach removes the need for a traditional power supply. Also, this network facilitates data transmission to and from mobile cells. By integrating its mobile and fixed networks, Virgin Media O2 minimizes costs by avoiding separate backhaul connections or power supplies.

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With around 25,000 street cabinets located throughout the UK, Virgin Media O2 is positioned to amplify mobile services efficiently. This enables the company to accelerate customer-focused rollouts and promote environmentally friendly solutions. Besides, these smart poles can host smart city infrastructure such as electric vehicle chargers, which create new opportunities in the

future. According to CTO Jeanie York, this trial represents a major advancement in improving coverage, reducing costs, and making the most of the company's converged network.

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Smart poles are high-tech streetlights that improve urban living by providing illumination along with Wi-Fi, sensors, and surveillance. They help cities manage resources, improve safety, and promote sustainability. With continuous investments in cutting-edge technology, smart poles became necessary components of an urban area's future development and improved the quality of the life of residents.

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