# Infrastructure

## Table of Contents

- Global Housing Outlook By Housing Type, Region and Country, 7th Edition
- Transportation Services Global Industry Almanac 2017
- Digital Substation Market by Module (Hardware, Fiber Optic Communication Network, and SCADA), Type (Transmission and Distribution Substation), Voltage (Up to 220 kV, 220-550 kV, and above 550 kV), Industry, and Region - Global Forecast to 2023
- Global Airport Notification Systems Market 2017-2021
- Digital Substation Market by Module (Hardware, Fiber Optic Communication Network, and SCADA), Type (Transmission and Distribution Substation), Voltage (Up to 220 kV, 220-550 kV, and above 550 kV), Industry, and Region - Global Forecast to 2023
- Variable Frequency Drives: U.S. Municipal Industry Trends & Market Forecast
- Global Regulations Package: Water Quality, Environmental Protection & Reuse
- Geotextile Market by Material Type (Synthetic, Natural), Product Type (Nonwoven, Woven, Knitted), Application (Road Construction and Pavement Repair, Erosion, Drainage, Railway Work, Agriculture), and Region - Global Forecast to 2022
- U.S. Municipal Water & Wastewater: Defining the Addressable Market for Private Investment
- Global Submarine Power Cable Market 2017-2021
- Water Solutions for Commercial Building Infrastructure: Market Dynamics and Competitive Landscape (France, Germany, UK)
- Substation Monitoring System Market by Component (Hardware & Software), Communication Technology (Wired & Wireless), Sector (Transmission & Distribution), Industry and Geography - Global Forecast to 2023
- GLOBAL SMART TRANSPORTATION MARKET FORECAST 2017-2025
- U.S. Investor-Owned Water Utilities: M&A Deals and Trends, Q4 2017
- Global Smart Water Network Market 2017-2021
- U.S. Wholesale DER Aggregation: Q3 2017
- Global Shipping Container Liners Market 2017-2021
- Global Filters Market for Wastewater Treatment Industry
- Global Transmission Towers Market 2017-2021
- Global Advanced Airport Technologies Market
- Water Desalination Pumps Market in EMEA 2017-2021
- TOC Analyzer Market by offering (Hardware, Software, and Services), Type (Online and Portable), Technology, Application (High-Purity Water, Wastewater treatment, Surface Water), Industry, and Geography - Global Forecast to 2023
- Industrial Reuse: Municipal Partnerships & U.S. Trends
High Voltage Cables & Accessories Market by Installation (Overhead, Underground, Submarine), Products (MI, XLPE Cables, Terminations, Joints, Conductors, Fittings & Fixtures), Voltage (72.5, 123, 145, 170, 245, 400 kV & Above), Region - Forecast to 2022.......................................................... 25
Global Urban Rail Transit Market 2017-2021.............................................................................................................. 26
Global Wastewater Treatment to Energy (WWTtE) Market Report 2017-2027: Forecasts for CAPEX, OPEX, and by End Use, by Region, plus Number of Installations by Leading Country, plus Analysis of Leading Companies Developing Technologies .................................................................................................................. 26
Global Pumps Market in Water and Wastewater Treatment Sector 2017-2021........................................................................ 27
Water Treatment Chemicals Market by Type (Coagulants & Flocculants, Corrosion Inhibitors, Scale Inhibitors, and Biocides & Disinfectants), End User (Municipal, Power, Oil & Gas, and Mining), Region - Global Forecast to 2022.................................................................................................................. 28
Connected (Smart) Street Lights Market (Connectivity - Wired (Power Line Communication) and Wireless; Component - Hardware, Software, and Services) - Global Industry Analysis, Size, Share, Growth, Trends and Forecast 2017 - 2025 .................................................................................................................. 29
IoT Infrastructure Market Size By Platform, By Technology, By Component, By Service, By Application, Industry Analysis Report, Regional Outlook, Application Potential, Price Trends, Competitive Market Share & Forecast, 2017 - 2024 .................................................................................................................. 29
Global Passenger Ticket Vending Machine (TVM) Market 2017-2021................................................................................ 29
TCMS Market by Train Control Solution (PTC, CBTC, Integrated Train Control), Component (Vehicle Control Unit, Mobile Communication Gateway, HMI), Connectivity (GSM-R, Wi-Fi, TETRA), Train Type (EMU, DMU, Metro & High Speed) & Region - Forecast to 2022 .................................................................................................................. 30
Water Treatment Technology Market (By Pumping System: Pumps, Valves & Controls, Automation Systems; By Chemicals; By Membrane Systems; By Geography) Global Scenario, Market Size, Outlook, Trend and Forecast, 2015-2024 .................................................................................................................. 31
Global Water M&A: Transactions and Trends in Technology, Equipment, & Services, Q3 2017............................................. 32
Global Market Study on Water and Wastewater Pipes: Plastic Material Type Segment Projected to be a High Volume High Value Segment During 2017 - 2025.................................................................................................................. 32
Global Container Leasing Market 2017-2021 .................................................................................................................. 33
U.S. Municipal Water Reuse: Opportunities, Outlook, & Competitive Landscape 2017-2027................................................. 33
Power Transmission Towers, Update 2017 - Global Market Size, Competitive Landscape, Key Country Analysis and Forecast to 2021.................................................................................................................. 34
Global Railway Maintenance Machinery Market 2017-2021 ............................................................................................ 34
GCC Atmospheric Water Generators Market By Type (Cooling Condensation Vs. Wet Desiccation), By Application (Industrial, Commercial, and Residential), By Country, Competition Forecast & Opportunities, 2012 - 2026 .......... 35
Wireless EV Charging Market by Application, Component, Market (Aftermarket/Retrofit and OE Market), Power Supply Range (3-<11 kW, 11-50 kW, and > 50 kW), Charging Type (Stationary and Dynamic), Vehicle Type, and Region - Global Forecast to 2025 .................................................................................................................................................. 36
Utility Asset Management Market by Application (Transformer, Sub-Station, Transmission & Distribution Lines), Component (Hardware, Software), Utility Type (Public Utility, Private Utility), and Region - Global Forecast to 2022 ........................................................................................................................................ 37
Global Railcar Leasing Market 2017-2021 ....................................................................................................................................... 37
Airport Security Market Report 2017-2027: Forecasts By Key Submarkets with Key Regions Forecast............... 38
ARC Fault Circuit Interrupter (AFCI) Market (Type - Branch/Feeder, Outlet, Combination; Application - Residential, Commercial/Industrial) - Global Industry Analysis, Size, Share, Growth, Trends and Forecast 2017 - 2025 .......... 38
Switchgear - Global Market Outlook (2017-2023) ........................................................................................................... 39
Solar Traffic Products - Global Market Outlook (2017-2023) ............................................................................................ 39
Pipes and Pipe/Hose Fittings ........................................................................................................................................ 40
Automatic Number Plate Recognition Systems ............................................................................................................ 40
In 2016, the global housing market was dominated by China and India as they continued to urbanize and post solid gains in new household formation. These countries and many others across the globe are now experiencing a shift toward higher demand for multifamily housing due to home prices outpacing wage growth as well as the widespread availability of subsidized multifamily dwellings in urban areas.

‘Global Housing Outlook’ addresses the following topics and more:

- How will the rapid urbanization in China, India, and other developing countries in Asia and Africa affect homeownership and demand for multifamily housing?
- Will the strong post-recession housing market growth in the US continue through 2021?
- How will demographic shifts such as smaller household sizes and declining instances of multigenerational households affect the global housing market?

Global Transportation Services industry profile provides top-line qualitative and quantitative summary information including: market size (value 2012-16, and forecast to 2021). The profile also contains descriptions of the leading players including key financial metrics and analysis of competitive pressures within the market.

Key Questions Answered

- What was the size of the global transportation services market by value in 2016?
- What will be the size of the global transportation services market in 2021?
- What factors are affecting the strength of competition in the global transportation services market?
- How has the market performed over the last five years?
- What are the main segments that make up the global transportation services market?
**Digital Substation Market by Module (Hardware, Fiber Optic Communication Network, and SCADA), Type (Transmission and Distribution Substation), Voltage (Up to 220 kV, 220-550 kV, and above 550 kV), Industry, and Region - Global Forecast to 2023**

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The digital substation market is expected to grow from USD 6.32 billion in 2017 and is expected to reach USD 9.96 billion by 2023, at a CAGR of 7.87% between 2017 and 2023. A digital substation enables an electric utility to monitor and control the transmission and distribution of components installed in the substation remotely. These substations use modernized technologies such as dedicated software, and efficient two-way communication to control power system devices. The major restraining factor for the digital substation market is the high initial investment for setting up the digital substation.

"The digital substation market for 220 kV to 550 kV is expected to hold the largest share during the forecast period"

The voltage segment in the 220-550 kV range is estimated to hold the largest share, growing at the highest CAGR between 2017 and 2023. The digital substation market for 220-550 kV is expected to grow at the highest CAGR due to its increasing demand from the power utility sector as well as large industrial customers. Several companies such as Larsen & Toubro (India) are awarded a power and distribution contract to build a 220 kV substation in the Middle East for the utility application.

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**Global Airport Notification Systems Market 2017-2021**

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Airports constantly seek innovative methods to improve air travel experience and improve their operational efficiencies. Airport notification systems support such business goals by enabling cost-effective, efficient, and passenger-friendly airport operations. They also interface and integrate electronic information within the airport, thus enabling and ensuring a smooth flow of information for proper airport operations, security, and management. These systems pave the way for smart airports by combining advanced technology with modern infrastructure.

Technavio’s analysts forecast the global airport notification systems market to grow at a CAGR of 6.54% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global airport notification systems market for 2017-2021. The report presents a detailed picture of the market by way of study, synthesis, and summation of data from multiple sources.
Airways and seaways are some of the growing modes of transport. The major purpose of sea transport is the shipment of goods and services, along with passenger travel. Shipping plays a crucial role in the trade of various products for export as well as import as in various nations, more than 75% of the trade is carried out through seaways. Air transport plays a vital role in the transport of passengers and goods. The growing traffic congestions in roads have resulted in people switching to other modes of transport such as the seaways and airways.

Ports and airports are vulnerable to terrorist attacks and criminal activities. The susceptibility of airports and seaports to terrorist activities has been on the rise. The growth in passenger footfalls and goods shipment has led to airports and seaports being major targets for attacks. The rising concerns in terms of security and safety have boosted the need for implementation of better security systems in airports and seaports that are major points of contact for airplanes and ships.

Technavio’s analysts forecast the global seaport and airport security systems market to grow at a CAGR of 8.46% during the period 2017-2021.
**Variable Frequency Drives: U.S. Municipal Industry Trends & Market Forecast**

Published by Bluefield Research
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Pub. Date 2017/10/27
www.giiresearch.com/ce/573931

U.S. water & wastewater utilities are increasingly seeking alternatives to become more energy-efficient, drive down operating costs, address resiliency and upgrade deteriorating infrastructure. As such, electric drives for motors and pumps are taking on a critical role in achieving these goals.

Variable frequency drives, which regulate the speed and rotational force, or torque output, of an electric motor, provide the potential to reduce energy consumption up to 30%.

Catalyzed by increasing pressure on utilities to address energy and water efficiency, growing urban populations, and tightening environmental regulation, annual investment in drives is expected to more than double from US$279 million in 2017 to US$607 million by 2026.

In this Market Insight, Bluefield water experts analyze:

- The Municipal Water Landscape for Drives Technology
- Drives Technology Competitive Landscape
- Municipal Utility Drives Infrastructure CAPEX Forecast
- Drives Manufacturer Profiles

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**Global Regulations Package: Water Quality, Environmental Protection & Reuse**

Published by Global Water Intelligence
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Regulations and water quality standards define the market for water technology. However, these definitions are shifting in markets across the globe. Advances in monitoring technologies and digital communication have raised the visibility of contaminants in both the environment and the public conscience, putting greater focus on safeguarding public and environmental health through strict compliance with regulation. In many countries, this is resulting not only in more stringent water and wastewater quality standards for utilities, but also in the development of regulatory regimes covering entire water bodies, as a means of tackling non-point source pollution such as stormwater and agricultural run-off. These regulatory developments are bringing new opportunities and legal requirements for water sector stakeholders, and will shape the specific technology needs of different water markets in the years to come.
Geotextile Market by Material Type (Synthetic, Natural), Product Type (Nonwoven, Woven, Knitted), Application (Road Construction and Pavement Repair, Erosion, Drainage, Railway Work, Agriculture), and Region - Global Forecast to 2022

Published by MarketsandMarkets Pub. Date 2017/10/20
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USD 10000 PDF by E-mail (Global License)

The geotextile market is expected to be valued at USD 5.76 billion in 2017 and is likely to reach USD 9.35 billion by 2022, at a CAGR of 10.2% from 2017 to 2022. Rising demand for geotextiles due to superior properties and cost savings, high demand in road construction, and growing infrastructure activities in the emerging economies are the key factors driving the growth of this market. Volatile raw material prices affecting the demand for synthetic geotextile acts as the key restraint to the growth of the geotextile market.

"Nonwoven geotextile is the largest segment of the geotextile market, by product type."

The nonwoven geotextile segment accounted for the largest share of the geotextile market in 2016. This large share is mainly attributed to the material being cost-effective and the key functional properties which make it a preferred material especially for the construction industry.

"Synthetic geotextile is the largest material type segment of the geotextile market."

Synthetic geotextile is the largest material type segment of the geotextile market. Within the synthetic geotextile segment, polypropylene is a preferred material especially for the applications in the construction industry since it is cheaper in comparison to other raw materials.

U.S. Municipal Water & Wastewater: Defining the Addressable Market for Private Investment

Published by Bluefield Research Pub. Date 2017/10/20
Price
USD 3500 PDF by E-mail (Enterprise License)

Much needed investment in utility infrastructure is driving investment in the U.S. water & wastewater sectors. Established investor-owned utility companies - and a host of potential outside financial investors- are refining their strategies to expand or develop their positions in U.S water utility asset ownership and operations.

This new report is essential for companies looking to evaluate opportunities and strategies to invest in the U.S. municipal water & wastewater utilities sectors.

Scaling regulatory and financial stresses are overwhelming municipal and private owners. Bluefield’s team has analyzed more than 78,000 community systems to zero-in on potentially at-risk utilities. Our in-depth review of EPA violations, state revolving fund requests, requests for loan forgiveness and state policies, coupled with M&A data, highlights the addressable market of stressed water systems.
Global Submarine Power Cable Market 2017-2021

A power cable is an insulated strand of wires used to transmit electricity at variable voltage levels. Power cables are mainly used in submarine, overhead line, building, and underground wiring applications to carry electricity. They can be classified into four broad categories depending on their operating voltage applications - low voltage, medium voltage, high voltage, and extra high voltage.

The submarine power cable is a transmission cable that transports electricity below the ocean bed or the surface of fresh water sources such as rivers and lakes. Offshore wind energy farms are the major end-users of submarine power cables. These cables are used to transport electricity generated from windmills located offshore to onshore. Submarine power cables are also useful for inter-country and island connectivity.

Technavio’s analysts forecast the global submarine power cable market to grow at a CAGR of 5.89% during the period 2016-2020.

Water Solutions for Commercial Building Infrastructure: Market Dynamics and Competitive Landscape (France, Germany, UK)

As European governments strive toward energy-efficiency goals of 2030 and the broader goal to establish a decarbonized building stock by 2050, water management within buildings has emerged as a key area of focus. France, Germany and the UK contain over 49% of the 6.9 billion m² of non-residential building stock in Europe.

With an estimated annual value of US$857 million, the market for water management equipment and services is growing between 1% to 3% per year. As players compete on price, product breadth, and efficiency, a growing trend toward connectivity in building design, construction, and management is influencing a shift towards digitally connected water management equipment.

Bluefield water experts have just released a new 40-slide Market Brief designed for companies assessing opportunities for water management in the commercial building sector. Topics covered include:

- Market Overview of Commercial Building Stock in Europe
- Policy and Market Environment for Water Management Solutions
- Competitive Landscape and profiles of key companies active in the four markets
**Substation Monitoring System Market by Component (Hardware & Software), Communication Technology (Wired & Wireless), Sector (Transmission & Distribution), Industry and Geography - Global Forecast to 2023**

Published by MarketsandMarkets

Price
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USD 10000 PDF by E-mail (Global License)

www.giiresearch.com/ce/569188

The substation monitoring system market is expected to grow at a CAGR of 7.8% between 2017 and 2023 and would be worth USD 3.32 billion by 2023. The key factors driving the growth of the substation monitoring system market are the development strategies implemented by the players operating in the substation monitoring system, such as contracts and agreements, product launches and developments, partnerships, and expansions, as well as the growing demand for reduction in transmission and distribution losses, aging infrastructure, need for increasing the government support, development in the IEC 61850 standard to enable interoperability betweenIEDs, and improving IoT-based communication network. However, the major restraining factors for the growth of this market are high capital expenditure for installations of wireless sensor networks and increasing cost of installations of IEDs in substation.

**GLOBAL SMART TRANSPORTATION MARKET FORECAST 2017-2025**

Published by Inkwood Research

Price
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USD 4500 PDF (Enterprisewide License)

www.giiresearch.com/ce/565804

The global smart transportation market was valued at $70.00 billion in 2016 and is expected to reach $523.60 billion by 2025 growing at a CAGR of 25.33%. This prosperous growth in the market can be attributed to the global rise in the number of vehicles, a need for road safety and traffic management, and the emerging smart city projects in the developing nations.

MARKET INSIGHTS:

The market segmentation for global smart transportation market is done on the basis of smart transportation services and smart transportation solutions. The smart transportation services can be further divided into cloud services, business analytics services, and support & maintenance services. The market by smart solutions is further divided into integrated supervision systems, traffic management systems, passenger information systems, parking management systems, and ticketing systems.

REGIONAL INSIGHTS:

The global smart transportation market is regionally segmented into Asia-Pacific, Europe, North America and the rest of the world. The European market accounted for the highest market share in 2016. A key driver for this region is the presence of several smart transportation automotive and technology companies in the region.
U.S. Investor-Owned Water Utilities: M&A Deals and Trends, Q4 2017

Bluefield's Quarterly Update of U.S. Investor-Owned Utility Deals (includes analysis and separate data file with 160+ completed and pending deals).

Water & wastewater utilities continuing to scale their positions through mergers & acquisitions (M&A). More than US$187 million of acquisitions for 28 deals were completed in the second quarter of this year.

While industry leaders American Water and Aqua America further built out their footprint, Eversource Energy, New England’s largest electricity and gas provider, announced the acquisition of Aquarion Water.

This update is available through our U.S. & Canada Municipal Water Insight Service. Executives rely on this service to identify the key states, systems, and opportunities that stand out in an already crowded field with increasing competition.

Global Smart Water Network Market 2017-2021

Smart water network is an integration of hardware and software solutions that enable water utilities to monitor, diagnose, and optimize the water network remotely. Control devices, sensors, and data management systems provide real-time data, through which the productivity, efficiency, and customer satisfaction can be enhanced.

Technavio’s analysts forecast the global smart water network market to grow at a CAGR of 14.66% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global smart water network market for 2017-2021. To calculate the market size, the report presents a detailed picture of the market by way of study, synthesis, and summation of data from multiple sources.

The market is divided into the following segments based on geography:

- Americas
- APAC
- EMEA
U.S. Wholesale DER Aggregation: Q3 2017

This quarterly series provides data and analysis for the ISO/RTO markets where distributed energy resources are making headway. Each report assesses key developments and opportunities in each territory, and provides forward-looking insights on market size and potential for demand-side flexibility through demand response (DR) programs.

Key insights from this report include:

- Total demand response across RTO/ISO territories did not materially change in Q3 2017; however, there have been significant shifts in available capacity largely due to the start of new delivery years in MISO and PJM.
- CAISO is in the process of resettling 2016 demand response due to suboptimal performance from its legacy demand response system; the ISO expects to finalize resettlements by the end of October 2017.
- MISO entered delivery year 2017/2018 on June 1, 2017 with an increase in available demand response capacity of more than 440 MW. The increase in available capacity came from behind-the-meter-generation re-entering the market. Nearly 0.5 GW of emergency gensets exited the market in May 2016 when new Environmental Protection Agency regulations went into effect.

Global Shipping Container Liners Market 2017-2021

Container liners are used as a protective covering. These liners protect goods or materials stored inside the container from moisture and contamination, and ensure safe and hygienic transportation. Container liners are installed inside the container, creating an inner wall, after which goods or materials are stored in it. The global shipping container liners market has been segmented based on the end-users and geography.

Technavio's analysts forecast the global shipping container liners market to grow at a CAGR of 3.42% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global shipping container liners market for 2017-2021. To calculate the market size, the report presents a detailed picture of the market by way of study, synthesis, and summation of data from multiple sources.
Global Filters Market for Wastewater Treatment Industry

Wastewater treatment is the process of converting wastewater into its usable form, where either it can be returned to the water cycle or can be re-used in various other sectors. The global filters market for the water treatment industry is broadly categorized into agricultural, industrial, and municipal segments.

Technavio's analysts forecast the global filters market for wastewater treatment industry to grow at a CAGR of 6.15% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global filters market for wastewater treatment industry for 2017-2021. To calculate the market size, the report considers the aftermarket.

Global Transmission Towers Market 2017-2021

A transmission tower is the main supporting structure of overhead transmission lines. It is known by diverse names across the world. In Europe, transmission towers are better known as electricity pylon, while they are called hydro towers in Canada. Three disciplines of engineering are majorly involved in the design of a transmission tower, namely: Civil, Electrical, and Mechanical. It supports electrical wires that are heavy and are needed to be connected at a certain height above the ground. It is necessary that these towers are able to withstand natural calamities, such as storms.

Technavio’s analysts forecast the global transmission towers market to grow at a CAGR of 7.99% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global transmission towers market for 2017-2021. The report presents a detailed picture of the market by way of study, synthesis, and summation of data from multiple sources.
Global Advanced Airport Technologies Market

The Global Advanced Airport Technologies Market, valued USD 10.29 billion in 2016, is expected to reach USD 13.71 billion by 2022, registering a CAGR of 4.82%. The airport security has been a major concern, since decades, owing to the vulnerability of commercial aircraft to hijacking. Although hijackings have been reported since the 1930s, the emphasis on safety has increased drastically since 2001, which has jolted the world into imposing stricter regulations.

Types of Advanced Airport Technologies:

- Air/ground traffic management and control systems
- Airport communications
- Digital information display solutions
- Airport management software
- Security, fire protection, and emergency services
- Passenger baggage handling and control
- Parking systems

Water Desalination Pumps Market in EMEA 2017-2021

A pump is a mechanical device that is used to raise or move fluids from one point to another. The water desalination pumps market in EMEA encompasses pumps that are used in desalination plants and convert salty seawater into fresh water. Pumps in desalination plants are used for water intake from the sea, feeders, slurry transfer, brine transfer, and supplying water into a different process.

Technavio’s analysts forecast the water desalination pumps market in EMEA to grow at a CAGR of 7.05% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the water desalination pumps market in EMEA for 2017-2021. The report presents a detailed picture of the market by way of study, synthesis, and summation of data from multiple sources.
The Total Organic Carbon (TOC) analyzer market is expected to grow at a CAGR of 6.3% between 2017 and 2023 to reach USD 1,286.4 million by 2023, from USD 828.1 million in 2016. The rising water and wastewater treatment practice across the globe to protect the environment and industrial processes has increased the demand for TOC analyzer solutions. However, the high cost of ownership limits the growth of the TOC analyzer market.

"The growth of TOC analyzer market expected to be fueled by the pharmaceuticals industry during the forecast period"

The pharmaceuticals industry is expected to hold a significant share of the TOC analyzer market during the forecast period. TOC measurement is critical to the pharmaceuticals industry because various regulatory bodies have established limits for TOC in high-purity water, water for injection (WFI), and other uses of water in the pharmaceuticals industry. Also, to verify that the equipment is free from the previous drug batch, the TOC parameter is used for the evaluation of the cleaning process. Besides pharmaceuticals, other industries that hold a major share in the TOC analyzer market are environmental, oil and gas, chemicals, energy and power, semiconductor, and food and beverages, among many others.
Industrial Reuse: Municipal Partnerships & U.S. Trends

Industrial facilities are some of the highest volume of water users representing approximately 87% of the U.S. freshwater withdrawals. This demand, put in context with drought and operational risks, is moving companies to seek out alternative water supplies and efficiencies, including municipal wastewater sources.

In this Data Insight, Bluefield water experts analyze:

- Industrial Applications for Reclaimed Water
- How Industry is working with Municipalities to Secure Reclaimed Water Supplies
- Impact on Power Sector, Refineries, Fracking Firms
- Data Centers and Craft Breweries Tapping Reclaimed Water
- Planned Reuse for Industrial Off-takers

COMPANIES MENTIONED:

- Alpha Reclalm Technology
- Apache Corporation
- Apple
- Devon Energy
- Google
- Jones Energy
- Microsoft
- Pioneer Resources
PVDF Membrane Market by Type (Hydrophobic, Hydrophilic), Application (General Filtration (Aqueous & Organic), Sample Preparation, Bead-based Assays), End-use Industry (Biopharmaceutical, Food & Beverage, Industrial), and Region - Global Forecast to 2022

The market size of PVDF Membrane is expected to reach USD 798.4 million by 2022, at a CAGR of 7.5% between 2017 and 2022. PVDF membranes have strength, flexibility, and chemical compatibility and are therefore suitable for use in chemical filtration applications. However, the high cost of production may restrain the growth of the PVDF membrane, especially in emerging economies.

"Biopharmaceutical is the largest and fastest-growing end-use industry for PVDF membranes"

PVDF membrane is one of the most widely adopted separation techniques in the biopharmaceutical industry. PVDF membrane is used in applications such as sample preparation and dialysis. There is a high demand for PVDF membrane for the manufacturing of syringes and other medical devices. Microfiltration membranes are widely used in the production of injectable drug solutions. Increasing investments in R&D in the biotechnology and medical industries are expected to propel the growth of PVDF membrane market in the near future.

Global Mooring Systems Market 2017-2021

Mooring systems consist of connectors, risers, synthetic ropes, buoys, shackles, and anchors. These devices help in the anchorage of ships, platforms, and floating vessels across all water depths. A mooring anchor or line attaches the ship or vessel to the sea floor and is important for sub-sea oil and gas production facilities. Various synthetic fiber wires, ropes, and chains together are used for manufacturing mooring lines. Chains are mainly used for permanent moorings in shallow water up to 100 m, whereas steel wire ropes are used for water depths of more than 300 m. However, synthetic fiber ropes are lightest among all mooring system ropes.

Technavio’s analysts forecast the global mooring systems market to grow at a CAGR of 3.64% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global mooring systems market for 2017-2021. To calculate the market size, the report considers the revenue generated by different mooring systems vendors through the sales of mooring systems devices to various applications which are FPSO, TLP, SPAR, and others. The others consist of FLNG and semi-submersible.
Low Voltage Motor Control Centers Market by Type (Intelligent and Conventional), End-User (Industrial and Commercial), Component (Busbars, Circuit Breakers and Fuses, Overload Relays, VSDS, and Soft Starters), and Region - Global Forecast to 2022

The low voltage motor control centers market is projected to reach USD 4.03 billion by 2022, at a CAGR of 5.62% from 2017 to 2022. The increasing industrial automation, increased use of low voltage electric motors in key industries, and increased industrial plant uptime have boosted the demand for low voltage motor control centers. In addition, the booming power sector and increasing electricity demand globally would further aid the growth of this market. The stagnancy in the oil & gas industry and the decrease in mining activities in Asia-Pacific, Latin America, and Africa would act as a restraint for the low voltage motor control centers market.

"The intelligent motor control centers segment is expected to grow at the highest CAGR from 2017 to 2022"

The intelligent motor control centers segment is estimated to be the fastest growing low voltage motor control centers market, by type, from 2017 to 2022. The growth of this segment can be attributed to the increasing levels of industrial automation in Asia-Pacific and the Middle East & Africa regions.

Global Concrete and Road Construction Equipment Market 2017-2021

Concrete and road equipment are construction devices that are used to mix various ingredients to manufacture and transport concrete and are used for road construction activities. Since the early 2000s, concrete has become one of the widely used artificial stones as a road building material because of the following reasons: High compressive strength, High durability, and Resistance to extreme weather conditions.

Technavio’s analysts forecast the global concrete and road construction equipment market to grow at a CAGR of 3.69% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global concrete and road construction equipment market for 2017-2021. The report presents a detailed picture of the market by way of study, synthesis, and summation of data from multiple sources.
Automatic Number Plate Recognition (ANPR) System - Global Market Outlook (2017-2023)

According to Stratistics MRC, the Global Automatic Number Plate Recognition (ANPR) System market is expected to grow from $1.97 billion in 2016 to reach $4.25 billion by 2023 with a CAGR of 11.5%. Developments in infrastructure across globally, huge funds allocation by various governments and increasing usage of video analytics technology are some of the factors supporting the market growth. On the contrary, variation in number plate designs is a major factor limiting the market growth.

By application type, traffic management segment is leading the market with a largest market share during the forecast period. Rising ANPR systems demand globally in urban areas due to high traffic congestion is a key factor for the market growth. Electronic toll collection application is estimated to grow at a highest rate due to the strict government regulations.

Europe region is predicted to grow at a highest CAGR during the forecast period. On the other hand, Asia Pacific region is expected to grow at a fastest rate due to increasing highways and public infrastructures.

Automated Border Control - Global Market Outlook (2017-2023)

According to Stratistics MRC, the Global Automated Border Control Market accounted for $547.46 million in 2016 and is expected to reach $1,568.74 million by 2023 growing at a CAGR of 16.2% during the forecast period. The major drivers for the growth of the ABC market are increasing security concerns, improved traveller convenience in the border crossing process, and growing need for automation across all port amenities. Factors such as the dearth of standardization and huge capital requirement for infrastructure projects are hampering the market. The threat of identity theft acts as a major challenge for the automated border control market.

Border management is an area of focus, with increase in demand for automated border control gates and kiosks creating a major market for change. Among the most recent trends is the increasing usage of kiosks at the border, a move which is proving itself in the sector through smoother and sooner passenger flow, lesser frustrations and more efficiency. At present, thousands of kiosks provide services in airports across the globe and airports persist to invest in them.
**Medium Voltage Switchgear - Global Market Outlook (2017-2023)**

According to Stratistics MRC, the Global Medium Voltage Switchgear Market accounted for $20.69 billion in 2016 and is expected to reach $38.92 billion by 2023 growing at a CAGR of 9.4% during the forecast period. One of the major factors expected to fuel the demand for medium voltage switchgear market is growing demand for electrification coupled with implementation of smart grid technology in developing countries in the near-term years. However, absence of appropriate electrification in industries has been hampering the use of switchgears and other advanced equipment, which need electricity.

Medium voltage switchgear requires advanced and efficient current transmission and distribution networks for superior performance. It ranges from 3kV to 40Kv. By region, Asia Pacific commanded the global medium voltage switchgear market in 2016 in terms of both revenue and volume, and is expected to sustain its dominance in the future too. Launch of smart grid initiatives by various governments in this region, together with the massive investment for enhancing power transmission and distribution systems, is the principal factor behind this region's supremacy in the global medium voltage switchgear market. Moreover, emerging nations such as China, India, Indonesia, Malaysia, Taiwan, Japan, and South Korea are expected to have increased demand for Medium Voltage Switchgear.

**Project Insight - Global Railway Construction Projects**

The report provides detailed market analysis, information and insights based on 1726 CIC projects in the Global market. The report provides detailed metrics on global and the region’s railway construction projects (as tracked by CIC) split by country, type and value. Detailed metrics are also provided for the top 10 countries.

Summary:

Timetric’s Construction Intelligence Center (CIC) is currently tracking railway construction projects globally with a total value of US$5.15 trillion. Of this US$3.10 trillion is in pre-execution stages.

Asia-Pacific accounts for the highest share with US$2.68 trillion. Europe is in second place, with projects with a value of US$1.13 trillion, ahead of the Americas in third with projects valued at US$800.9 billion.

Overall this pipeline of projects, based on projects with railway length data, equates to 281,137km of railways being added, including 131,050km in Asia-Pacific alone. The highest value of projects tracked are high speed railways with a value of US$1.80 trillion followed by mass rail transit/ metros with a value of US$1.43 trillion.
China Water Treatments 2017

This report provides an in-depth analysis of the Chinese water treatment market. Key data points include the evolution of historical and future trends as well as an examination of technical segmentations, structure of supply and routes to market.

Market Developments:

BRG divides the water treatment market into products installed in the heating circuit for water softening and demineralisation based on ion exchange and for the separation of sediments and air. The 2016 market developed positively with the US being the largest market in volume sold of the 20 countries researched. The highest growth rates of this relatively new market can be observed in China, Czech Republic, Norway and Slovakia.

Technical segmentations such as nominal diameter are relatively standardised across countries given legislative requirements for pipe sizes, although segmentations such as type of mechanism vary significantly from country to country.

The competitive landscape for water treatment products is relatively fragmented, owing to the market still being relatively young compared to other heating components, and therefore not yet experiencing a significant amount of acquisitions or mergers.

The World Market for High Voltage Insulators & Bushings 2017-2027

Report covers High Voltage Insulators split into the following types:

- Glass Insulators
- Ceramic Insulators
- Composite Insulators
- Bushings

Report includes:

- Detailed data on over 150 national markets for HV Insulators and Bushings
- Market sizes (values) and growth rates for all countries, from 2010 to 2015, with forecasts for the period 2015 to 2025
- Market Size by end-use for all countries by following categories:
- Import and export values for the world's major importing and exporting countries, with % shares
- Estimates of sales of the world's leading manufacturers of insulators sales per region
- Production data (by value) for major manufacturing organisations
- Market share data for major manufacturing organisations
- Manufacturers profiles
- Country infrastructure data
Global Commercial Airport Lighting Market 2017-2021

Published by TechNavio (Infiniti Research Ltd.)

Price
USD 3500 PDF by E-mail (Single User License) ~
USD 6000 PDF by E-mail (Global License)

Commercial airport lighting involves the installation of lighting fixtures in airports to facilitate the flying of airlines at night and in low-light conditions as well as to enhance the aesthetics of the airport. Commercial airport lighting is extremely important for the operation of airlines at night for functions such as the demarcation of the runway and for the indication of turns and the taxiway. Airports use several types of lighting systems to support commercial aircraft operations.

Technavio's analysts forecast the global commercial airport lighting market to grow at a CAGR of 7.27% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global commercial airport lighting market for 2017-2021. To calculate the market size, the report considers the sales of traditional lighting and LED lighting to airport construction contractors. It also considers the revenue generated through the sales of lighting solutions in the replacement market.

Drones and Robotics for Transmission and Distribution Operations - Ground-Based, Line-Suspended, and Aerial Robotics and Applications: Global Market Analysis and Forecasts

Published by Navigant Research

Price
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USD 5700 PDF & Excel by E-mail (Enterprise License)

A pivotal transition in the utility landscape is rapidly approaching. The electric grid will no longer simply be a system of power lines and structures. Rather, it will be a data-rich network equipped with autonomous sensors, connected asset management platforms, and a constant flow of critical infrastructure information. Drones and robotics technologies have the potential to revolutionize the way utilities interact with their transmission and distribution (T&D) assets and collect critical data.

Navigant Research has identified three core drivers for change in utility operations: speed, savings, and safety. Robotics technology has the potential to deliver significant gains in all three of these areas, primarily via three classes: ground-based, line-suspended, and aerial (drones and unmanned aerial vehicles, or UAVs). Despite the potential benefits, however, current regulatory and technological barriers have suppressed market penetration for robotics in utility operations. As pilot programs continue to drive regulatory change and emerging technologies advance, Navigant Research forecasts exponential growth in the hardware, software, and services segments of the drones and robotics for transmission and distribution (DRTD) market. According to Navigant Research, the total market for all DRTD segments is expected to reach $13.2 billion by 2026.
**Smart Glass Market by Technology (Suspended Particle Display, Electrochromic, Liquid Crystal, Photochromic, Thermochromic), Application (Architecture, Transportation, Consumer Electronics), and Geography - Global Forecast to 2023**

Published by MarketsandMarkets

Price

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The smart glass market is expected to reach USD 8.35 billion by 2023 from USD 3.32 billion by 2017, at a CAGR of 16.61% between 2017 and 2023. The growth of this market is mainly driven by factors such as growing demand for smart glass in automobile applications, strong government support through mandates and legislations for energy-efficient construction, and optimal energy saving through smart glass applications. Smart glass is ideal for automobile, aviation, and other transportation applications requiring heat and glare control. In the automotive sector, smart glass is used in applications such as rearview mirrors, windows, sunroofs, and windshields. Smart glass provides protection from harmful ultraviolet (UV) rays, reduces glare, helps control heat inside the vehicle, and minimizes the energy consumed over temperature maintenance.

**Global High Voltage Direct Current (HVDC) Transmission Systems Market 2017-2021**

Published by TechNavio (Infiniti Research Ltd.)

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Power is mainly generated, distributed, and consumed as AC. However, in power generation techniques, such as offshore wind farms and hydroelectricity, using AC system and lines for transmission of power over long distances of more than 600 km becomes uneconomical. This is due to the high-power losses and increasing costs of overhead lines. The increasing demand for power for commercial and residential use and the need to address the problem regarding power shortage have resulted in the supply of high voltage current from power generating sources to the destination. Thus, HVDC systems are being adopted, as these are economical owing to reduced power loss and overall cost for large distance transmission compared with AC lines. The high voltage transmission of electricity in the form of DC over a long distance by means of underground cables, overhead transmission line or grid interconnection is the HVDC transmission system.
Global Vacuum Contactors Market 2017-2021

A vacuum contactor is an electrical device that is used for load breaking through the help of a controlled switch. The switch can make or break an electrical circuit with the help of vacuum interrupter contacts. Vacuum interrupting contacts are encapsulated inside a vacuum bottle, which suppresses the arc when there is a voltage surge or spike. Significant applications of vacuum contactors are in (3-phase or 4-phase AC) motors, transformers, and capacitors usually for surge protection and short-circuit prevention.

Technavio’s analysts forecast the global vacuum contactors market to grow at a CAGR of 7.03% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global vacuum contactors market for 2017-2021. The report presents a detailed picture of the market by way of study, synthesis, and summation of data from multiple sources.

Global Genset Market for Water and Wastewater Treatment Plants, Forecast to 2021

The rapid increase in water-based infrastructure investments is expected to have a significant role in the diesel and gas genset market in water and wastewater treatment plants (WWTP). This market is expected to witness steady growth in revenue until 2021. The global water and wastewater genset market is mainly driven by growth in standby applications for water and wastewater treatment facilities used by municipalities and industries. Infrastructure investment in Asia, mainly China, India, Middle East, and Southeast Asia is expected to aid in the development of the market for diesel and gas gensets.

Medium power gensets in the range of 300 KW to 500 KW are expected to increase, as companies and municipalities are establishing multiple gensets with cumulative power in a higher range, thus avoiding having a single generator in a high-power range. Also, large investments in industry and water resources in developing nations are driving the need for reliable power, as access to the power supply grid is limited. Regulatory requirements also make the need for such power generation facilities mandatory to prevent the shutdown of critical infrastructure. The water and wastewater genset market is expected to face headwinds in the form of competition from other sources of power-mainly hybrid power generation. Furthermore, the perception of diesel as a polluting source of power generation is expected to be a challenge for the market in the future. The market is expected to reach revenue of $877 billion by 2021.
The demand for sustainable solutions in the municipal segment is driven by huge investments made to build resilient cities across the world. A continual push for circular economy has led to innovation in making the water infrastructure sustainable. Decentralized treatment systems are gaining attention due to their efficiency, cost effectiveness and better reuse capabilities. Water stress, coupled with rapid industrialization, has pushed rapidly growing economies such as India and China to adopt stringent regulations and enforce sustainable technologies to manage water pollution and stress. Implementation of the Internet of Things (IOT) in water and waste water infrastructure has helped in ensuring optimization and efficiency. This has further pushed the demand for smart and sustainable solutions.

Key predictions for the municipal water and wastewater segment include sustainability, customer engagement, smart water management, etc., while the growing demand for sustainable solutions, water reuse and zero liquid discharge (ZLD) will drive the water and wastewater market in the industrial segment. The global water market for the year 2017 is estimated to have a revenue of $652.38 billion, with advanced membrane technologies and disinfection techniques getting due attention in the municipal segment. While the municipal segment has exhibited a growth of 3.8% from 2016, the industrial segment has exhibited a growth of 5.7%.

Advancements in wastewater nutrient recovery processes that enable better sludge reclamation and offer sustainable applications to the nutrient recovered

Industrial and Municipal wastewater should be considered as an important source for the recovery of crucial nutrients like nitrogen, phosphorous and also other micro nutrients like potassium. The recovery of nutrients from wastewater will replace the anthropogenic fertilizers used in agriculture which can reduce the soil fertility and can also have serious implications on human health and environment. Recovery of nutrients will eliminate the possibility of eutrophication in water bodies due to the excess discharge of nutrients. Recovery of nutrients will also reduce the operational and maintenance costs as nutrient recovery involves sludge reclamation which will otherwise result in scaling of equipment. The federal regulations of all countries should also consider stringent effluent discharge permissible limits for total phosphorous and total nitrogen in order to reduce the total maximum daily nutrient load in the effluent streams.
Many island and isolated markets continue to burn oil products for power generation, which historically has been the only option available to markets lacking indigenous fossil fuel resources of their own, but is also an expensive and carbon-intensive means of producing electricity. As a result, end-user electricity prices in island nations are among the highest in the world. However, alternative power supply options for island markets are becoming increasingly viable, both as a means to displace oil and to meet growing demand for electricity.

The medium voltage cables and accessories market is expected to reach USD 56.18 billion by 2022, from an estimated USD 41.45 billion in 2017, at a CAGR of 6.27%, from 2017 to 2022. Increase in renewable energy generation and rapid industrialization and urbanization is expected to drive the medium voltage cables and accessories market.

"The underground segment of the installment market is expected to grow at the highest CAGR, from 2017 to 2022."

On the basis of installation, the medium voltage cables and accessories market has been segmented into underground, overhead, and renewables. The underground cables segment is expected to hold the largest market share of the medium voltage cables and accessories market during the forecast period. Underground cables are mainly used to transmit power to populated areas. Low transmission losses, absorption of emergency power loads, low maintenance costs, and less susceptibility to weather are some of the benefits of using underground cables.
Deferring upgrades to transmission and distribution (T&D) infrastructure has emerged as one of the principal benefits of stationary energy storage technology. This trend is evidenced by the growing number of new projects being developed around the world. Energy storage for T&D upgrade deferral, also known as T&D asset optimization, deals with ensuring that electricity transmission lines, substations, and other equipment have enough bandwidth to handle peak demand and maximize reliability. Energy storage systems (ESSs) deployed to serve this application are often installed as an alternative to investing in new infrastructure such as feeder lines and substations.

Building new T&D infrastructure has been the default solution to many issues facing the electricity grid for decades. These upgrades are needed to address load growth and rising peak demand, congestion on the network, and reliability issues. However, there are many challenges to upgrading grid infrastructure, particularly large-scale transmission projects.

The smart pole market is expected to be valued at USD 16.65 billion by 2023, growing at a CAGR of 19.99% between 2017 and 2023. The growth of this market is mainly driven by factors such as the need for energy-efficient pole lighting systems, increasing government initiatives for smart cities, and advantage in preventing traffic jams and accidents. The smart pole system has various advantages over conventional street lights such as reduced maintenance costs, real-time reports and controllability, less environmental impact, and expendable infrastructure and scalability. The smart pole could be seen as a revolution in the street pole industry and would create ample opportunities for the players operating in the field of smart devices, street light systems, internet connectivity, and communication devices in the coming years. However, the higher upfront cost of smart poles compared to traditional poles is a restraint for the smart pole market.
The power infrastructure is divided into isolated subsystems to facilitate reliable power supply to auxiliaries, consumers and isolated power systems. The complication and unpredictability of operating conditions in the electrical networks are influenced by renewable energy sources and market factors which drives the importance for the enlargement and sophistication of the existing power infrastructure. The lookout for decrease in the probability of severe blackouts which are characterized by cascade development of emergency processes further embrace the requirement of an efficient power infrastructure. This research service briefs on the present and upcoming developments in the power infrastructure especially on the transmission and distribution network.

The XLPE segment is expected to dominate the underground high voltage cables and accessories market from 2017 to 2022

The XLPE cable was the largest segment in the underground cable systems market in 2016. XLPE cables are most commonly used in underground systems. The cable technology gained a significant advancement and, thus, are preferred over the fluid filled cable technology. Increase in power generation and the growth in the transmission sector account for the high market share of the XLPE cables segment in the underground high voltage cables and accessories market.
Global Urban Rail Transit Market 2017-2021

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The growing urbanization in the cities and suburban areas has spurred the demand for more public transportation modes. The advances of the public transport systems aid in the overall economic development of the country and help in increased mobility through connected networks. The acceptance of the urban rail transit market has been increasing over the years. The main reason for the growth of the market is the growing congestion in the urban and suburban areas. To overcome the rising concern of traffic and congestion, urban rail transit systems have been adopted globally. This is growing faster in the developing countries, especially in APAC, due to the increasing urbanization.

Technavio’s analysts forecast the global urban rail transit market to grow at a CAGR of 5.25% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global urban rail transit market for 2017-2021. The report presents a detailed picture of the market by way of study, synthesis, and summation of data from multiple sources.

Global Wastewater Treatment to Energy (WWTtE) Market Report 2017-2027: Forecasts for CAPEX, OPEX, and by End Use, by Region, plus Number of Installations by Leading Country, plus Analysis of Leading Companies Developing Technologies

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Visiongain has calculated that the global WWTtE market will see a total expenditure of $531m in 2017, including both capital and operational expenditures. Read on to discover the potential business opportunities available.

Wastewater treatment to energy (WWTtE) facilities will continue to receive high levels of investment and increasing operational costs over the next ten years. This is reflective of the untapped energy resource found in wastewater and the cost-effective way to run a wastewater treatment plant (WWTP).

Anaerobic digestion (AD) is a proven technology for the treatment of sewage sludge and produces a biogas which is considered a renewable energy. Biogas is primarily made up of methane and carbon dioxide and trace amounts of nitrogen and ammonia. Biogas from wastewater treatment is considered as a carbon-neutral fuel source. There is global pressure on governments to take action on climate change is a key driver of renewable energy policies. If fossil fuels are displaced using biogas, then there is a net reduction in carbon emissions.

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Airport Security Market accounted for a revenue of over USD 16 billion over the forecast timespan. Continuous evolution of criminal activities, such as data thefts, cyber-attacks, and hijackings, in terms of technological complexity and method of execution is a major factor driving the airport security market. Rise in terroristic and smuggling attacks has led to governments of various economies to undertake stringent safety measures and protocols for the safeguarding of human life and protection of financial data and consumer trust.

Furthermore, occurrence of these activities can disrupt business for elongated periods of time, making the airport unusable. For instance, in June 2016, mass shooting and bombing attacks at Ataturk Airport in Instanbul was responsible for more than 230 casualties. Rapid industrialisation and globalization has propelled the global passenger traffic. Governments across various regions, primarily in the South-East region, are undertaking large scale construction activities for the development of new and modification of existing airport infrastructure, contributing to the growth of the airport security market.

Global Pumps Market in Water and Wastewater Treatment Sector 2017-2021

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Pumps are important components used in all industries. They are used for moving or raising fluid from one point to another within the plant or from one plant to another. Pumps are generally classified into centrifugal and positive displacement pumps. Centrifugal pumps are widely used in industries owing to their simple design, low cost, and ease of operation. Positive displacement pumps are used in areas where fluid flow is constant or fluid viscosity is high. The chemical, food and beverage, mining, oil and gas, and water and wastewater treatment industries are major consumers of pumps. Pumps are one of the key components of the water and wastewater treatment sector and a major consumer of electricity. They are used in nearly every area in the wastewater treatment value chain.

Technavio’s analysts forecast the global pumps market in water and wastewater treatment sector to grow at a CAGR of 6.16% during the period 2017-2021.
The water treatment chemicals market is projected to grow from USD 42.23 billion in 2017 to USD 56.57 billion by 2022, at a CAGR of 6.0% from 2017 to 2022. The increasing demand for chemically treated water from various end users is expected to drive the growth of the water treatment chemicals market across the globe during the forecast period. In addition, stringent implementation of various regulatory and sustainable mandates concerning environment is also expected to boost the demand for water treatment chemicals across the globe between 2017 and 2022. Use of alternate water technologies for water treatment by various end users is a major restraint for the growth of the water treatment chemicals market.

"Based on type, the biocides & disinfectants segment of the water treatment chemicals market is projected to grow at the highest CAGR during the forecast period, in terms of value."

Based on type, the biocides & disinfectants segment of the water treatment chemicals market is projected to grow at the highest CAGR during the forecast period in terms of value. Biocides & disinfectants are used in cooling water systems such as cooling towers, condensers, and compressor systems as these systems usually provide optimum conditions for microbial growth due to wide temperature and pH ranges, continuous aeration, and presence of various organic and inorganic nutrients and sunlight.
**Connected (Smart) Street Lights Market (Connectivity - Wired (Power Line Communication) and Wireless; Component - Hardware, Software, and Services) - Global Industry Analysis, Size, Share, Growth, Trends and Forecast 2017 - 2025**

Published by Transparency Market Research

Price
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This report on the global connected (smart) street lights market provides analysis for the period 2015-2025, wherein 2016 is the base year and the period from 2017 to 2025 is the forecast period. Data for 2015 has been included to provide historical information. The report covers market dynamics including drivers, restraints, opportunities, and trends expected to influence the global connected (smart) street lights market growth during the said period. Technologies that are playing a major role in the driving the global connected (smart) street lights market have also been considered in the study. The study provides a comprehensive analysis of the market growth throughout the above forecast period in terms of revenue estimates (in US$ Mn), across different geographies.

The report also includes key industrial developments in connected (smart) street lights market. Porter Five Force analysis which identifies bargaining power of supplier, bargaining power of buyer, threat from new entrant, threat from substitute and threat from competition in connected (smart) street lights market is also included in the report. Ecosystem analysis which identifies key stakeholders in the connected (smart) street lights market is also covered in the report.

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**IoT Infrastructure Market Size By Platform, By Technology, By Component, By Service, By Application, Industry Analysis Report, Regional Outlook, Application Potential, Price Trends, Competitive Market Share & Forecast, 2017 - 2024**

Published by Global Market Insights Inc.

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IoT Infrastructure Market is expected to grow at over 25% CAGR to reach over USD 130 billion by 2024. Increasing investments in smart cities across the U.S., China, India, Singapore and UK will drive the IoT infrastructure market growth over the forecast timeline. For instance, the Government of India plans to develop nearly 100 smart cities requiring an investment of over USD 150 billion provides impetus to the industry demand. Rising demand for effective & efficient utilization of resources and meet challenges within city infrastructure, transportation and energy management is expected to fuel the demand.

The deployment of IoT based solutions in cities allows them to wisely use data in order to upgrade the city infrastructure as well as services. Growing demand for water & waste management across the urban areas is expected to drive the IoT infrastructure market growth. Real time sensing of water & drainage operations in a city can be obtained through monitoring equipment such as meters, pressure gauges and wireless networks in a IoT network. Relevant management departments can make use of the data obtained for analysis and making supporting suggestions.
Global Passenger Ticket Vending Machine (TVM) Market 2017-2021

A ticket machine, also known as a Ticket Vending Machine (TVM), is a vending machine, which produces tickets. Passenger ticket machines dispense tickets at railway stations, subway stations, bus stations, and airports. A typical transaction in TVMs consists of a passenger user using the display interface to select the quantity and type of tickets. Following this, the passenger selects a payment method, which can be either cash, smartcard or credit/debit card. The tickets are printed and dispensed to the passenger user.

Technavio’s analysts forecast the global passenger ticket vending machine (TVM) market to grow at a CAGR of 4.06% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global passenger ticket vending machine (TVM) market for 2017-2021. The report presents a detailed picture of the market by way of study, synthesis, and summation of data from multiple sources.

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TCMS Market by Train Control Solution (PTC, CBTC, Integrated Train Control), Component (Vehicle Control Unit, Mobile Communication Gateway, HMI), Connectivity (GSM-R, Wi-Fi, TETRA), Train Type (EMU, DMU, Metro & High Speed) & Region - Forecast to 2022

The Train Control and Management System (TCMS) market is projected to grow at a CAGR of 8.02% from 2017 to 2022, to reach USD 3.58 billion by 2022. The key factors driving the market growth include rapidly growing population and urbanization in the Asia Oceania region, increasing government mandates in developed regions such as North America and Europe, and availability of high-speed communication systems. The increasing rail transit network such as light rail transit, metros, and high-speed rails is also expected to boost the demand for TCMS as it is a standard system for rail safety and management. On the other hand, the major factors hindering the TCMS market growth are high infrastructural and maintenance costs and lack of interoperability.

"Metros & high-speed trains to witness the fastest growth during the forecast period"

The market for metros & high-speed trains is projected to grow at the highest CAGR, in terms of value, during the forecast period. The increasing government initiatives to enhance high-speed rail network and fulfill the transportation gap in countries such as the UK, France, India, China, and South Korea are expected to drive the metros & high-speed trains segment in the TCMS market.
**Water Treatment Technology Market (By Pumping System: Pumps, Valves & Controls, Automation Systems; By Chemicals; By Membrane Systems; By Geography) Global Scenario, Market Size, Outlook, Trend and Forecast, 2015-2024**

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Global Water Treatment Technology Market is estimated to reach $216.9 Billion by 2024; growing at a CAGR of 4.7% from 2016 to 2024. Water treatment is a process of making water portable enough for human consumption or for industrial use. It removes chemical compounds, biological contaminants, and organic and inorganic compounds from water. A basic water treatment involves chemical, physical and biological processes to remove the contaminants. The required treatment may depend on the application. Moreover, the treatment also depends on the size and severity of contamination and must ensure compliance with national or international regulations. Additionally, technological innovations have led to the development of modern devices and techniques that can be used for determining the presence and level of harmful chemicals and microorganisms in water.


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Global Transformer Market is set to surpass USD 70 billion by 2024. Global inclination towards conservation of energy coupled with rising energy security concerns will drive the transformer market share. Rapid urbanization along with increasing expenditure across the infrastructure sector will further foster the product demand. In 2017, Italy, Sweden, UK, France, and Germany entered into a smart grid agreement. The concord lays investment targets of USD 133.7 billion to support the expansion of smart grid networks across Europe.

Increasing infrastructural expenditure owing to extensive commercial and residential establishments across developing countries will foster the transformer market growth. Growing demand for the refurbishment of existing grid infrastructure along with expeditious adoption of smart T&D equipment will further stimulate the business growth. In 2017, Eastspring Investments signed an agreement to invest USD 500 million for the structuring of infrastructure debt in the developing nations.
Global Water M&A: Transactions and Trends in Technology, Equipment, & Services, Q3 2017

Bluefield Research tracks M&A transactions and their impacts on competitive landscape. This Data Insight is focused on technology, equipment & services deals.

From Q1 2014 into Q3 2017, Bluefield has tracked 245 water M&A deals - with a total transaction value of US$81 billion. A few, large acquisitions include Suez's takeover of GE Water, Jacobs Engineering's acquisition of CH2M, and SNC-Lavalin's purchase of WS Atkins.

Forecasted demand for infrastructure rehabilitation projects, and demand for water and wastewater services are driving deals across the industry value chain. Key segments of high activity include, engineering & construction, smart water, or digital technology applications, and pipe equipment.

Global Market Study on Water and Wastewater Pipes: Plastic Material Type Segment Projected to be a High Volume High Value Segment During 2017 - 2025

The global water and wastewater pipes market presents several lucrative opportunities to both seasoned players as well as new market entrants. To provide highlights on these opportunities as well as to study the various facets of this market, Persistence Market Research recently undertook an extensive study of the global water and wastewater pipes market and presented the findings in a new report titled "Water and Wastewater Pipes Market: Global Industry Analysis (2012 - 2016) and Forecast (2017 - 2025)." In this report, we have focused on the detailed market segmentation and historical as well as current and projected market forecast of the global water and wastewater pipes market, to present our readers with in-depth market information and useful insights.

A detailed segmentation of the market for comprehensive market analysis
Global Container Leasing Market 2017-2021

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Container lessors purchase containers at competitive prices from container manufacturers and lease it to container fleet management companies, cargo players or shippers, individual goods manufacturers, and other service sector players at a lease rate for a specific lease period or lease term. Most of the lessors in the global container leasing market are involved in both new container leasing and used container leasing.

Technavio’s analysts forecast the global container leasing market to grow at a CAGR of 16.12% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global container leasing market for 2017-2021. The report presents a detailed picture of the market by way of study, synthesis, and summation of data from multiple sources.

U.S. Municipal Water Reuse: Opportunities, Outlook, & Competitive Landscape 2017-2027

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The need to secure future water supplies, in the face of increasing demand and uncertain water availability, is driving adoption of water reuse. Bluefield forecasts municipal water reuse systems will reach over US$21.5 billion between 2017 and 2027, including more than 775 projects in the development pipeline across 19 states. At the epicenter are three states - California, Texas and Florida - which represent 80 percent of planned capacity additions.

This new report offers in-depth analysis of the rapidly changing U.S. municipal water reuse landscape, examining regulatory changes, technology trends, and company strategies influencing the deployment of water reuse as a water resource management strategy.

The complete report is now available for purchase and immediate download. Report coverage includes:

- Reuse Market Drivers and Inhibitors
- Technology, Cost and Regulatory Trend Analysis
- US Municipal Reuse Market Forecasts to 2027
- Competitive Landscape for Reuse
- Dedicated Sections on California, Texas and Florida Reuse Markets
- State Reuse Profiles and Market Attractiveness Rankings
**Power Transmission Towers, Update 2017 - Global Market Size, Competitive Landscape, Key Country Analysis and Forecast to 2021**

Global transmission tower market was valued at US$13.05 Billion in 2016 and is estimated register a compound annual growth rate (CAGR) of 0.62% between 2016 and 2021. In growing economies such as those of Asia-Pacific and the Middle East, new capacity addition in the generation and transmission sector to meet the rise in electricity demand is driving the market for transmission towers. In the Americas and Europe, replacement of aging grid infrastructure and large-scale integration of renewable are driving the new transmissions projects which is increasing the demand for transmission towers.

During the year 2016, the Asia-Pacific region led the market in terms of market value witnessing US$7.50 Billion and is estimated to reach US$7.93 Billion in 2021. The transmission tower market in the region is mainly driven by new investments to develop a new age grid. The EMEA (Europe, Middle East, and Africa) and the Americas registered a market value of US$3.45 Billion and US$2.10 Billion, respectively, in 2016.

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**Global Railway Maintenance Machinery Market 2017-2021**

Railway maintenance machinery consists of small equipment and work vehicles that are used for the maintenance of tracks. Efficient transportation systems play a pivotal role in determining the economic development of a nation. The railway is an important mode of land transportation for people and goods. The key advantage that railway transport offers over road transport is the ability of trains to carry a large number of passengers and heavy loads across long distances.

Technavio's analysts forecast the global railway maintenance machinery market to grow at a CAGR of 9.30% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global railway maintenance machinery market for 2017-2021. The report presents a detailed picture of the market by way of study, synthesis, and summation of data from multiple sources.
GCC atmospheric water generators market is projected to reach USD19.3 million by 2022. Growth in the market is anticipated on account of increasing population, depleting fresh water levels and increasing water consumption by industries such as agriculture, tourism, construction, etc., in GCC member countries. Moreover, high cost involved in setting up a desalination plant and adoption of GCC Unified Water Strategy and Implementation Plan 2016-2035 are expected to boost the demand for atmospheric water generators in the GCC region over the coming years.

Wireless EV Charging Market by Application, Component, Market (Aftermarket/Retrofit and OE Market), Power Supply Range (3-<11 kW, 11-50 kW, and > 50 kW), Charging Type (Stationary and Dynamic), Vehicle Type, and Region - Global Forecast to 2025

The global wireless EV charging market is projected to reach a market size of USD 7,094.8 million by 2025 from an estimated USD 953.9 million in 2020, growing at a CAGR of 49.38% from 2020 to 2025. The market growth is primarily driven by factors such as an increase in demand for electric vehicles due to government policies and subsidies favoring electric vehicle charging stations (EVCS) and technological advancements. The growing infrastructure of fast chargers for electric vehicles is another key driver for the wireless EV charging market.

"The >50 kW segment is estimated to be the fastest growing segment of the wireless EV charging market, in terms of value"

The >50 kW power supply range is estimated to be the fastest growing segment of the wireless EV charging market during the forecast period. The growth of this segment is driven by the huge incentives from the government for the installation of fast chargers and subsidies for the public charging infrastructure. The increasing demand for commercial electric vehicles is also contributing to the growth of the high power supply range. Electric buses and electric trucks require a heavy power supply of more than 50 kW to charge their high capacity batteries.

"The Battery Electric Vehicle"
Utility Asset Management Market by Application (Transformer, Sub-Station, Transmission & Distribution Lines), Component (Hardware, Software), Utility Type (Public Utility, Private Utility), and Region - Global Forecast to 2022

Published by MarketsandMarkets
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USD 10000 PDF by E-mail (Global License)

The utility asset management market is projected to reach USD 4.09 billion by 2022, at a CAGR of 8.25%, from 2017 to 2022. Increasing investments in grid modernization, requirement for energy efficiency, reliable power, increasing grid complexity, and aging infrastructure are the major drivers of the utility asset management market.

The intensive capital requirement for the sensor technology could be the major restrain for the utility asset management market. Advanced communication network in the grid is still not prevalent in many utilities. Hence, utilities are reluctant to invest on additional infrastructure for asset monitoring and overhaul activities.

"The transformer sub-segment, within the application segment, is expected to grow at the highest CAGR, from 2017 to 2022"

The transformer sub-segment, is estimated to be the largest market in the application segment during the forecast period.

Global Railcar Leasing Market 2017-2021

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Railcar lessors purchase railcars or rolling stock at a competitive price from the rolling stock manufacturers and lease them to public and private railroad players and shippers in various industries, such as chemical and plastics, petroleum refineries, and food and agricultural. This is done at a lease rate for a lease period, which varies from 2-5 years or even 20 years, depending on the types of lease. At the end of the lease, the railcar lessors will maximize the value of the railcar by selling or scrapping at a suitable time.

Technavio's analysts forecast the global railcar leasing market to grow at a CAGR of 6.99% during the period 2017-2021.

Covered in this report

The report covers the present scenario and the growth prospects of the global railcar leasing market for 2017-2021. The report presents a detailed picture of the market by way of study, synthesis, and summation of data from multiple sources.
Airport Security Market Report 2017-2027: Forecasts By Key Submarkets with Key Regions Forecast
Published by Visiongain Ltd Pub. Date 2017/09/04
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GBP 6999 PDF (Global Site License - Includes Free Datasets)
www.giiresearch.com/ce/210197

Developments in Airport Security have had a significant impact on the aviation sector. Visiongain’s report on this sector gives a detailed overview of the market, creating an accurate picture that will offer clarity to anyone involved in the aviation sector. Importantly, the report also delivers a forecast of the market, giving you an insight into the future opportunities that exist in the Airport Security market. Visiongain understands this market will be worth $9.8bn in 2017 alone.

This report offers a global forecast, which is then broken down by the following Regional markets:

• Asia Pacific
• Europe
• North America
• Rest of the World

ARC Fault Circuit Interrupter (AFCI) Market (Type - Branch/Feeder, Outlet, Combination; Application - Residential, Commercial/Industrial) - Global Industry Analysis, Size, Share, Growth, Trends and Forecast 2017 - 2025
Published by Transparency Market Research Pub. Date 2017/09/04
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USD 11795 PDF by E-mail (Corporate License)
www.giiresearch.com/ce/562206

ARC Fault Circuit Interrupter (AFCI) Market report provides analysis for the period 2015 - 2025, wherein the period from 2017 to 2025 is the forecast and 2016 is the base year. The report covers all the major trends and technologies playing influential role in the ARC Fault Circuit Interrupter (AFCI) market’s growth over the forecast period. It also highlights the drivers, restraints, and opportunities expected to impact market’s growth during the said period. The study provides a complete perspective on global ARC Fault Circuit Interrupter market’s evolution throughout the above mentioned forecast period in terms of revenue (in US$ Mn).

The market overview section of the report demonstrates the market dynamics such as the drivers, restraints, and opportunities that influence the current nature and future status of this market, key indicators and trends. Key market indicators included in the report provide significance of the factors which are capable of changing the market scenario.
Switchgear - Global Market Outlook (2017-2023)

According to Stratistics MRC, the Global Switchgear Market is accounted for $82.98 billion in 2016 and expected to grow at a CAGR of 7.2% to reach $134.99 billion by 2023. The market is driven by continued growth of construction & developmental activities, increasing access to electricity in developing countries, and growth in renewable power generation. On the other hand, stringent environmental & safety regulations for SF6 switchgears and increasing competition from the unorganized sector of the switchgear market are inhibiting the market growth. Few trends that market is witnessing are upcoming smart cities, aging power infrastructure and HVDC transmission.

The gas insulated switchgear segment led the market and is anticipated to dominate the market during the forecast period due to rising energy demand and extension/replacement of old switchgear at substations.


According to Stratistics MRC, the Global Solar Traffic Products Market is expected to grow at a CAGR of 20.5% during the forecast period 2016 to 2023. The market is driven by increase in government support, introduction of energy-efficient lighting technologies, emergence of smart cities, decreasing price of lighting units and evolving technologies for PV panels. On the other hand, high capital cost of installation is inhibiting the market growth. Further, absence of global LED standardization and competition from counterfeit products pose challenge to the market.

Solar Traffic Lights will grow significantly as such these are increasingly integrated with LED lamps owing to their properties and superiority over incandescent lamps. Solar Street Lights are anticipated to grow remarkably as Government initiatives on energy conservation and resource management have increased the adoption of LEDs over traditional luminaries.
Pipes and Pipe/Hose Fittings

This report analyzes the worldwide markets for Pipes and Pipe/Hose Fittings in US$ Million by the following Product Segments: Pipes (Concrete, Polyethylene, PVC, Steel, & Other Pipes), and Pipe & Hose Fittings (Metal Flanges & Unions, Hydraulic Couplings, & Other Fittings). The report provides separate comprehensive analytics for the US, Canada, Japan, Europe, Asia-Pacific, Middle East & Africa, and Latin America. Annual estimates and forecasts are provided for the period 2016 through 2024. Also, a five-year historic analysis is provided for these markets. Market data and analytics are derived from primary and secondary research. Company profiles are primarily based on public domain information including company URLs. The report profiles 467 companies including many key and niche players such as -

- Advanced Drainage Systems, Inc.
- Aliaxis SA
- AMERICAN Cast Iron Pipe Company
- Arcelor Mittal
- Chevron Phillips Chemical Company LLC
- China Lesso Group Holdings Ltd.

Automatic Number Plate Recognition Systems

This report analyzes the worldwide markets for Automatic Number Plate Recognition Systems in US$ Thousand. The Global market is analyzed by the following Applications: Toll & Parking, Law Enforcement, and Journey Time. The report provides separate comprehensive analytics for the US, Canada, Japan, Europe, China, South Korea and Rest of World. Annual estimates and forecasts are provided for the period 2016 through 2024. Also, a five-year historic analysis is provided for these markets. Market data and analytics are derived from primary and secondary research. Company profiles are primarily based on public domain information including company URLs. The report profiles 66 companies including many key and niche players such as -

- ACCEO Gtechna
- ANPRSolutions.com
- ARH, Inc.
- Bosch Security Systems
- CAME Parkare
- Captec Ltd.