

# Advanced Materials and Technologies for Public Works Infrastructure Projects

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## Abstracts

### REPORT SCOPE:

The scope of this report includes all types of advanced materials and other technologies used in public works infrastructure products, such as:

Advanced materials.

Metals and alloys.

Superior-performing asphalt pavements.

High-performance concrete.

Fiber-reinforced polymer composites.

Geopolymers.

Geosynthetics.

Smart materials (i.e., materials that respond dynamically to external stimuli like heat, humidity, ultraviolet light or pressure).

Advanced structural subassemblies (e.g., prefabricated bridge elements and systems, seismic isolation bearings).

**REPORT INCLUDES:**

67 tables

An overview of the U.S. market for advanced materials and technologies for public works infrastructure projects within the industry

Analyses of the U.S. market trends, with data from 2016 and 2017, and projections of compound annual growth rates (CAGRs) through 2022

Discussion of advanced materials and technologies used in various types of public works infrastructure

A look into new materials and technologies that are likely to be introduced during the forecast period, along with their expected impacts on the market

Analyses of the key patents issued for advanced infrastructure materials

Company profiles of major market players in the market, including ArcelorMittal Steel USA Inc., Lafarge North America Inc., Infrastructure Composites International, Kansas Structural Composites, Inc., and Bridge Solutions, Inc.

## Contents

### **CHAPTER 1 INTRODUCTION**

Study Goals and Objectives  
Reasons for Doing This Study  
Scope of Report  
Information Sources  
Methodology  
Geographic Breakdown  
Analyst's Credentials  
Related BCC Research Reports

### **CHAPTER 2 SUMMARY AND HIGHLIGHTS**

### **CHAPTER 3 MARKET AND TECHNOLOGY BACKGROUND**

Definitions  
Public Works Infrastructure  
Advanced Materials and Technologies  
U.S. Public Works Infrastructure Conditions and Trends  
Roads and Highways  
Railway and Commuter Rail Lines  
Bridges and Tunnels  
Airports  
Dams  
Inland Waterways  
Levees and Floodwalls  
Ports  
U.S. Public Infrastructure Investments

### **CHAPTER 4 MARKET FOR ADVANCED INFRASTRUCTURE MATERIALS AND SUBASSEMBLIES**

Materials  
Metals and Alloys  
Asphalt  
Concrete  
Geopolymers

Fiber-Reinforced Polymer Composites  
Geosynthetics  
Smart Materials  
Subassemblies  
Prefabricated Bridge Elements and Structures  
Seismic Isolation Bearings

## **CHAPTER 5 PATENT REVIEW**

## **CHAPTER 6 ANALYSIS OF MARKET OPPORTUNITIES**

Fastest-Growing Products  
Largest End-user Markets  
Trump Administration's Infrastructure Plan

## **CHAPTER 7 COMPANY PROFILES**

Metals and Alloys  
ALUMABRIDGE LLC  
ARCELORMITTAL STEEL USA INC.  
EVRAZ OREGON STEEL MILLS, INC.  
MMFX STEEL CORP. OF AMERICA  
SAPA AS  
Asphalts  
AKZO NOBEL, INC.  
ASTEC, INC.  
HUBBARD GROUP, INC.  
INGEVITY CORP.  
MCCONNAUGHAY TECHNOLOGIES  
PQ CORP.  
High-Performance Cements  
LAFARGE NORTH AMERICA  
Fiber-Reinforced Polymer Composites  
BEDFORD REINFORCED PLASTICS, INC.  
COMPOSITE REBAR TECHNOLOGIES  
CONSERV EPOXY LLC  
CREATIVE PULTRUSIONS, INC.  
FIBRWRAP CONSTRUCTION, INC.  
FYFE CO. LLC

HARDCORE COMPOSITES LLC  
HEXCEL CORP.  
HUGHES BROTHERS, INC.  
INFRASTRUCTURE COMPOSITES INTERNATIONAL  
JEROL INDUSTRI AB  
KANSAS STRUCTURAL COMPOSITES, INC.  
LANCASTER COMPOSITE, INC.  
LEE COMPOSITES, INC.  
MARTIN MARIETTA COMPOSITES  
POLYWOOD, INC.  
PULTRALL, INC.  
QUAKEWRAP, INC.  
SIKA CORP.  
STRONGWELL CORP.  
SUDAGLASS FIBER TECHNOLOGY, INC.  
TIE TEK LLC  
TILCO COMPANY  
Prefabricated Bridge Elements and Systems  
ACROW CORP.  
BRIDGE SOLUTIONS, INC.  
U.S. BRIDGE  
Seismic Isolation Bearings  
DYNAMIC ISOLATION SYSTEMS, INC.  
EARTHQUAKE PROTECTION SYSTEMS, INC.  
R.J. WATSON, INC.  
SEISMIC ENERGY PRODUCTS, LP  
Geosynthetics  
AGRU AMERICA, INC.  
GUNDLESILT ENVIRONMENTAL, INC.  
PROPEX, INC.  
STRATA SYSTEMS, INC.  
TENCATE GEOSYNTHETICS NORTH AMERICA  
US FABRICS, INC.

## List Of Tables

### LIST OF TABLES

Summary Table: U.S. Public Works Infrastructure Market for Advanced Materials and Subassemblies, by Major End-user Segment, Through 2022

Table 1: U.S. Highway Mileage by Ownership, Through 2015

Table 2: FHWA Pavement Surface Quality Criteria

Table 3: Condition of U.S. Roads and Highways, 2015

Table 4: U.S. Highway Construction and Maintenance Expenditures, Through 2015

Table 5: U.S. Highway Construction and Maintenance Expenditures, Through 2022

Table 6: U.S. State and Local Market Share for Highways, by Source Type, 2015

Table 7: Ownership of U.S. Railway Tracks, by Type of Owner, 2017

Table 8: Trends in Track-related Railroad Incidents/Accidents, 2006-2016

Table 9: Projected Total Expenditures on U.S. Railway Track New Construction and Rehabilitation, Through 2022

Table 10: Projected Amtrak Expenditures on U.S. Track Construction and Rehabilitation, Through 2022

Table 11: U.S. Commuter, Heavy and Light Rail Capital Expenditures, 2009-2013

Table 12: Projected Expenditures on New U.S. Public Transit Rail Tracks, Through 2022

Table 13: Projected Expenditures on New U.S. Private Railway Tracks, Through 2022

Table 14: Condition of U.S. Highway Bridges, by Type, 2016

Table 15: Expenditures on U.S. Highway Bridge Replacement and Rehabilitation, Through 2022

Table 16: U.S. Railway Bridges, by Type of Owner, 2016

Table 17: Projected Total Expenditures on U.S. Railway Bridge Construction, Replacement and Repair, Through 2022

Table 18: Major Bridge Projects Planned by Amtrak, 2016-2022

Table 19: Projected Amtrak Spending on Bridge Replacement, Through 2022

Table 20: Projected U.S. State and Local Transit Bridge Expenditures, Through 2012

Table 21: Projected U.S. Expenditures on Bridge Replacement and Repair by Private Railroads, Through 2022

Table 22: U.S. Railway Tunnels, by Type of Owner, 2016

Table 23: Typical U.S. Tunnel Project Costs

Table 24: U.S. Rail Tunnel Construction, Improvement and Rehabilitation Costs, Through 2022

Table 25: U.S. Rail Tunnel Construction, Improvement and Rehabilitation Costs, Through 2022

Table 26: Condition Share of Runways at U.S. Commercial Service Airports, by Type, 2000-2016

Table 27: Projected Number of Domestic U.S. Passenger Enplanements, Through 2022

Table 28: Estimated U.S. Airport Terminal and Runway Construction and Rehabilitation Expenditures, Through 2022

Table 29: Total Federal U.S. Public Spending on Dam Safety, Rehabilitation and Construction, Through 2022

Table 30: Total U.S. Public Spending on Inland Waterway Rehabilitation and Construction, Through 2022

Table 31: U.S. Public Spending on Levee Rehabilitation and Construction, Through 2022

Table 32: Annual Capital Costs of U.S. Public Works Infrastructure, by Major End-use Segment, Through 2022

Table 33: Annual Capital Costs Share of U.S. Public Works Infrastructure, by Major End-use Segment, 2016-2022

Table 34: U.S. Market for Advanced Infrastructure Materials and Subassemblies, by Type, Through 2022

Table 35: U.S. Market Shares for Advanced Infrastructure Materials and Subassemblies, by Type, 2016-2022

Table 36: U.S. Market for Advanced Metals and Alloys in Civil Infrastructure Projects, Through 2022

Table 37: Annual Sales of U.S. High-Performance Steel for Bridge Applications, Through 2022

Table 38: U.S. Annual Sales of MMFX Rebar for Infrastructure Applications, Through 2022

Table 39: U.S. Annual Sales of Aluminum Highway Bridge Decking, Through 2022

Table 40: U.S. Market for Advanced Asphalts in Civil Infrastructure Projects, Through 2022

Table 41: U.S. Annual Consumption of SUPERPAVE Hot Asphalt Mix, Through 2022

Table 42: U.S. Annual Consumption of Warm-Mix Asphalt, Through 2022

Table 43: HPC Benefits versus Conventional Concrete

Table 44: Types of HPC Developed under FHWA Strategic Highway Research Program

Table 45: Total U.S. Cement Consumption in Bridge Construction and Rehabilitation, Through 2022

Table 46: Total U.S. HPC Consumption in Bridge Construction and Rehabilitation, Through 2022

Table 47: Total U.S. Geopolymer Consumption in Concrete Infrastructure Protective Coatings, Through 2022

Table 48: U.S. Share of Railway Tie Consumption, by Type of Material, 2016

Table 49: U.S. Infrastructure Markets for Fiber-reinforced Polymer, Through 2022

Table 50: U.S. Market Share for Fiber-reinforced Polymer Infrastructure, by Segments, 2016-2022

Table 51: Commercial Producers of FRP Reinforcing Bar

Table 52: U.S. Infrastructure Market for FRP Rebar, Through 2022

Table 53: Projected U.S. Market for FRP Bridge Decks, Through 2022

Table 54: Projected U.S. Market for FRP Marine Pilings, Through 2022

Table 55: Projected U.S. Market for FRP Railroad Ties, Through 2022

Table 56: Projected U.S. Market for FRP Seismic Reinforcement Materials, Through 2022

Table 57: Projected U.S. Market for FRP Roadside Structures, Through 2022

Table 58: Projected U.S. Market for FRP Materials in Other Infrastructure Strengthening and Repair Applications, Through 2022

Table 59: Infrastructure-related U.S. Market for Geotextiles and Other Geosynthetic Materials, Through 2022

Table 60: Projected U.S. Infrastructure Market for Smart Materials, Through 2022

Table 61: Projected U.S. Market for Prefabricated Bridge Elements and Structures, Through 2022

Table 62: Suppliers of Seismic Isolation Bearings to the U.S. Market

Table 63: Projected U.S. Market for Seismic Isolation Bearings, Through 2022

Table 64: Patents, by Type of Material, Issued Through June 15, 2017

Table 65: Fastest-Growing Advanced Infrastructure Materials, by Product Segment, Through 2022

Table 66: U.S. Market for Advanced Infrastructure Materials, by Major End-user Segment, Through 2022



## List Of Figures

### LIST OF FIGURES

Summary Figure: U.S. Public Works Infrastructure Market for Advanced Building Materials and Subassemblies, by Major End-user Segment, 2016-2022

Figure 1: U.S. Highway Ownership Shares, 2011 versus 2015

Figure 2: Condition of U.S. Roads and Highways, 2015

Figure 3: U.S. Highway Construction and Maintenance Expenditures, 2016–2022

Figure 4: U.S. State and Local Market Share for Highways, by Source Type, 2015

Figure 5: Ownership Share of U.S. Railway Tracks, by Type of Owner, 2017

Figure 6: Trends in U.S. Track-related Railroad Incidents/Accidents, 2006-2016

Figure 7: U.S. Commuter, Heavy and Light Rail Capital Expenditures, 2009-2013

Figure 8: Condition Share of U.S. Highway Bridges, by Type, 2016

Figure 9: Share of U.S. Railway Bridges, by Type of Owner, 2016

Figure 10: Share of U.S. Railway Tunnels, by Type of Owner, 2016

Figure 11: Condition of Runways at U.S. Commercial Service Airports, by Type, 2000-2016

Figure 12: Projected Number of Domestic U.S. Passenger Enplanements, 2016-2022

Figure 13: Estimated U.S. Airport Terminal and Runway Construction and Rehabilitation Expenditures, 2016-2022

Figure 14: Annual Capital Costs Share of U.S. Public Works Infrastructure, by Major End-use Segment, 2016-2022

Figure 15: U.S. Market Share for Advanced Infrastructure Materials and Subassemblies, by Type, 2016-2022

Figure 16: U.S. Market for Advanced Metals and Alloys in Civil Infrastructure Projects, 2016-2022

Figure 17: U.S. Market for Advanced Asphalts in Civil Infrastructure Projects, 2016-2022

Figure 18: Total U.S. HPC Consumption in Bridge Construction and Rehabilitation, 2016-2022

Figure 19: Total U.S. Geopolymer Consumption in Concrete Infrastructure Protective Coatings, 2016-2022

Figure 20: U.S. Share of Railway Tie Consumption, by Type of Material, 2016

Figure 21: U.S. Infrastructure Markets for Fiber-reinforced Polymer, 2016-2022

Figure 22: U.S. Market Share for Fiber-reinforced Polymer Infrastructure Market Segments, 2016-2022

Figure 23: Infrastructure-related U.S. Market for Geotextiles and Other Geosynthetic Materials, 2016–2022

Figure 24: Projected U.S. Market for Prefabricated Bridge Elements and Structures,

2016-2022

Figure 25: Projected U.S. Market for Seismic Isolation Bearings, 2016-2022

Figure 26: Patent Shares, by Type of Material, Issued, Through June 15, 2017

Figure 27: Market Share for Advanced Infrastructure Materials, by Major End-user Segment, 2016-2022

## **COMPANIES MENTIONED**

ACROW CORP.

AGRU AMERICA, INC.

AKZO NOBEL, INC.

ALUMABRIDGE LLC

ARCELORMITTAL STEEL USA INC.

ASTEC, INC.

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PULTRALL, INC.  
QUAKEWRAP, INC.  
R.J. WATSON, INC.  
SAPA AS  
SEISMIC ENERGY PRODUCTS, LP  
SIKA CORP.  
STRATA SYSTEMS, INC.  
STRONGWELL CORP.  
SUDAGLASS FIBER TECHNOLOGY, INC.  
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