



Maryland Green Registry MEMBER

The Maryland Green Registry promotes and recognizes sustainable practices at organizations of all types and sizes. Members agree to share at least five environmental practices and one measurable result while striving to continually improve their environmental performance.

SmartSite, LLC

41F Industrial Park Drive

St. Charles, Maryland 20602

443-871-5018

www.smartsitematerials.com

Green building research and technology

Member since October 2009

Management and Leadership

Environmental Policy Statement

"Our mission is to create green materials, engineering, and business solutions that strengthen our client's ability to navigate 21st Century sustainability obstacles. We shall balance outputs with the fundamental principles of the Triple Bottom Line (3P) TBL Concept; People, Planet, and Profit. These outputs shall be our fundamental valuation system both internally and externally in all matters."

Environmentally Preferable Products and Services

SmartSite is in the business of providing sustainable pavement materials, fill materials, core materials, and green construction management associates. As stated in our contracts, "...The intent of these documents is to ensure that the contractors work transparently and enthusiastically together with the owner to further the goals of a green, safe, and profitable project. It is further understood that this project may be registered with the National Association of Homebuilder's Green Building program and/or The United States Green Building Council (LEED) program for certification. Contractors agree to participate in the certification process as it relates to estimates, submittals, substitutions, and value engineering."

SmartSite offers environmentally preferable building products including SmartBase, which is particularly appropriate for construction sites in areas such as Southern Prince George's County, Washington DC, and Southern Maryland, which have no crushed stone and must import it from thirty to fifty miles away.

SmartBase serves as an alternative sub-base material for these regions. It's comprised of stabilized recycled post-industrial materials such as remediated soils, glass, concrete, asphalt, and mixed rubble. According to statistics generated from the Pavement Life-cycle Assessment Tool for Environmental and Economic Effects; Consortium on Green Design and Manufacturing University of California, Berkley, when you compare SmartBase to Sand and Gravel, it offers a 76.62% reduction in CO₂ and a 35.44 % reduction in costs.

*Another product SmartSite offers is SD-Glass (SmartDrain). It is recycled glass product used as both a storm water management aggregate backfill material and a highly permeable recycled aggregate sub-base used for permeable pavements. The use of these materials increases quantity and quality of storm water runoff. Typical virgin open graded aggregates contain 30% - 40% air voids. Recycled glass contains 48% air voids which allows our client's to **store and infiltrate 20% more water.***

Constructing with SmartDrain compared to virgin materials also has significant environmental benefits. Compared to the extraction of stone aggregates, the use of SD-Glass reduces energy consumption by 69.75%, water consumption by 95.29%, carbon dioxide emissions by 40.60 % and RCRA Hazardous Materials by 98.54%

Environmental Restoration or Community Environmental Projects

We designed and implemented a Sustainable Forestry Initiative (SFI) for a 4,000 acre forest management project in St. Charles, Maryland. This project provides long-term stewardship guidelines on the conservation, preservation, and protection of the forest's bio-diversity and wetlands as well as responsible and sustainable logging practices that establish chain of custody rules and conduct.

Waste

Recycling

Our office also recycles all paper, plastic, and metals. Additionally, contract language requires jobsite recycling and participation, however there are no statistics available yet.

From 2008-2009, SmartSite, LLC's materials diverted over 17,850 tons of post-industrial waste material from landfills. This same material replaced the natural resource extraction from mining by the same amount, 17,850 tons. This resulted in the following environmental reductions: 725,400 kWh, 389 kg of water, 181 Mg of carbon dioxide, 84 kg nitrogen oxides, 2.8 kilograms PM10

(particulates), 173 kg sulfur dioxides, 191 kg carbon monoxide, 50 grams lead, 1,700 kg hazardous materials.

Transportation

Employee Commute

*We provide telecommuting office space for our contract administrator who lives in Mt. Airy, Maryland. This is an 86.7 mile one way trip (which equates to a reduction of 44,217 miles travelled or **2,210 gallons** of gasoline per year).*

Efficient Business Travel

*We have leased office space within our client's development. This reduces transportation costs and fuel for our entire supply chain and downstream efforts saving 30,000 road miles traveled (**1,500 gallons fuel**).*

*We also utilize teleconferencing, Webex and Acrobat Meeting monthly with our Philadelphia affiliates (164.84 miles one way). This equates to 3,956 road miles traveled (**-197.8 gallons fuel**) reduced.*

*Total fuel reduction in employee telecommute and business telecommute: **3,907 gallons.***

Fleet Vehicles

We're currently assessing one fleet vehicle to use Natural Gas/ Gas hybrid while in the process of converting an ATV Topography vehicle to 100% Natural Gas.

Green Building

LEED Silver

We are currently registering space at 41F Industrial Park Drive in St. Charles, Maryland and have negotiated help from Property Owner to meet Indoor Environmental Quality Pre-requisites and credits. We are registering to meet the Silver Accreditation standard under LEED for Existing Buildings; Operations and Maintenance.

Other



Member of St. Charles Green Initiative Committee. SmartSite's role is to develop and implement the green construction methods and technologies.

Member of National Capital BIA Green Building Committee which meets monthly to evaluate green building specifications and to comment on their use.

Member of the United States Green Building Council (LEED) as well as member of the National Capital Region Chapter Association of the United States Green Building Council. We help establish local specifications for developers to fulfill LEED v3 ND and NAHB ICC 700-2008 ICC 700-2008 National Green Building Standard and are currently registered to attend the LEED Neighborhood Development Training Certification Program at this Years Greenbuild. LEED ND will not be applicable until 2010.



Help build a greener, more sustainable Maryland through voluntary practices that reduce environmental impacts and save money.

Learn more at www.green.maryland.gov/registry

