

LOWER CARBON EMISSIONS WITH ULTRABASESYSTEMS®

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As global population and affluence increase, so does the use of materials. The increasing production, transportation and eventual disposal of these materials consume resources and tax the environment, compromising our future. More than ever before architects, engineers and construction professionals are carefully considering how to meet the needs of the present without sacrificing the ability of future generations to meet their own needs. Fortunately there are ever increasing options for addressing sustainability, thereby decreasing our dependence on oil, eliminating waste and reducing environmental emissions.

UltraBaseSystems offers unique sustainability benefits. As one example, the use of UltraBaseSystems (UBS) panels can dramatically reduce the transportation required to a job site to just 2-3 trucks as compared with the transportation required to remove 6 inches of earth from the new field site and replace with 6 inches of drainage stone.

An estimated 337 trips are required to remove existing earth and replace with stone fill. Selecting a location in New Jersey we can assume that the landfill and quarry are 25 miles from the job site requiring 8,425 miles of travel by transport trucks. This equates to approximately 1052 gallons of diesel fuel consumed that produce an estimated 23,000 pounds of CO₂ -- over 11 tons of greenhouse gas emissions.

For the same field location three truckloads of UBS panels are delivered from a manufacturing plant in Ohio to the job site. A total of 1,716 miles is traveled requiring 210 gallons of fuel. This equates to an estimated 4,700 pounds of CO₂, almost 5 times less than for conventional construction.

It is possible that that a top layer of organics may need to be removed and hauled away for the UBS construction. This will require additional fuel. But even with the potential additional transportation, it is simple to see a compelling reduction in environmental emissions when constructing a field with UltraBaseSystems panels.

At Innovative Base Technologies, we manufacture UltraBaseSystems panels from 100% recycled materials. Furthermore our panels are 100% recyclable. This keeps millions of pounds of material a year out of the landfill. From manufacturing to transportation to installation to reclamation, UBS offers proven environmental sustainability for synthetic turf field construction.

