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## Gillette Stadium

### Case Study 22

#### Aspects of Sustainability

This project highlights the following:

##### Social Aspects

Human Resources  
Corporate Community Involvement  
Business Ethics  
Health and Safety

##### Environmental Aspects

Energy and Climate  
Materials  
Ecosystems  
Local Impacts

##### Economic Aspects

Project Selection  
Supply Chain  
Value Added

Skanska provided high quality environmental construction services for the new Gillette Stadium in Foxboro, New England's premier open-air entertainment venue and home of the New England Patriots. The project is a model for multi-stakeholder involvement.



### Project Introduction

The construction project for this 68,000 seat stadium was won by Skanska USA Building Inc. One of the primary objectives of the project was to create a sustainable and environmentally friendly construction that would give the owner, regulatory agencies, and the Design/Build team the opportunity to rectify previous acts that were less than sustainable. The project employed partnerships with multi-stakeholder involvement to achieve a sustainable building, both in its construction and operation.

### Sustainable by Design

Skanska USA Building Inc is the only company within the construction sector that is certified to ISO14001; it was the use of an environmental management system approach to the project that led the company to a number of successes in this

area. The project's extensive resource management programme and multi-stakeholder involvement won it Skanska's Environmental Prize for outstanding environmental contribution 2002 in the category for construction projects.

### Minimizing Energy Use

Timing devices were installed on the electrical distribution system that enabled all non-essential lighting after hours to be automatically shutdown. This attention to energy use at the design stage reduces its consumption and the associated financial costs, plus the related carbon emissions.

### River and Ecosystem Restored

A diverted river was restored to a free-flowing natural river bed by a solution proposed by the design team. The river bed was subsequently 'seeded' with appropriate flora to create a new



ecosystem that attracted wildlife. Sustainable design solutions were therefore responsible for transforming the asphalt paving area of the previously culverted river bed into a green sustainable urban drainage system with a rich ecosystem and wildlife.

## Sustainable Use of Water

The Gillette Stadium wastewater system has also been designed to high sustainability standards; the system includes an on-site wastewater treatment facility which enables the re-use of sanitary drainage ('grey' water) for the thousands of water closets in the new building.



## Re-use of Residual 'Waste' Product

During the construction of the Stadium over 130,000 cubic yards of blasted open rock was processed through on-site crushers and re-used on site. This vital process resulted in over 90% of the residual product being re-used as opposed to being sent to the region's diminishing landfill capacity.