



*Peter Island Resort British Virgin Islands, Caribbean*



# *Sustainable Architecture*

## **A Resort Case Study**

Peter Island Resort recently commissioned URS to perform a sustainability study of its facilities and operations in the British Virgin Islands. A multi-disciplined team led by a URS Sustainability Consultant from URS' London office completed a systematic evaluation and analysis of the buildings, grounds, procedures, and processes of the resort.

The URS strategy focused upon recommendations to enable the resort to move toward a long term goal of "Triple Zero --- zero carbon, zero water, and zero waste." Technologically relevant, alternative energy solutions included wind turbines and photovoltaic systems, which are currently being effectively used in Europe. Water capture and re-use systems were investigated and purposed. Creative ideas for recycling were developed that clearly related "island-specific" needs and opportunities.



***Pioneering commitment to the environment through designing responsible, productive, and healthy facilities.***

**FIRST LEED® Silver-Certified Manufacturing Facility**  
**Steelcase Inc. Wood Plant**  
 Caledonia, Michigan



**FIRST LEED® Certified GSA Courthouse**  
**United States Federal Courthouse**  
 Youngstown, Ohio



**FIRST LEED® Certified Michigan Middle/High School**  
**Forest Hills Eastern Middle/High School**  
 Ada, Michigan



**FIRST LEED® Certified Building in Florida**  
**University of Florida**  
 Orthopaedic Surgery and Sports Medicine Institute  
 Gainesville, Florida



**FIRST Building for Spectrum Health to be registered for LEED® Certification**  
**Lemmen-Holton Cancer Pavilion**  
 Grand Rapids, Michigan





The URS recommendations focused on principles of new development, upgrades to existing facilities, and operational changes. The recommendations related to site and buildings issues were consistent with LEED® (US) and BREEAM (International) standards. URS is now developing a facility master plan that will implement many of these recommendations.

**The benefits to Peter Island Resort include:**

- Operational efficiencies
- Energy cost savings
- Improved equipment life cycles
- Environmentally sensitive guest amenities
- Creative, sustainable facilities, finishes, and furnishings

As Peter Island has shared its “green” aspirations with prospective guests, the universal response has been enthusiastically supportive. The expectation is that soon the eco-results will be enjoyed by all, not just those who are environmentally concerned.

**Experience Matters**

Sustainability experience as a matter of example — URS Corporation is a leading provider of advice on sustainable and low energy design. A multi-national multi-disciplinary company with enormous resources, we provide a wide range of engineering and environmental services. The **Sustainability Building Team** brings these disciplines together and provides support to design teams and contractors on sustainable design and construction, providing a technical and scientific basis for sustainability, using computer simulation and modeling to produce effective and economic solutions.

As the **Sustainability Consultant**, URS is providing sustainability and energy advice on some of the most exciting projects in the world – working in partnership with firms such as *Renzo Piano; Foster & Partners; Richard Rogers; Will Alsop; Terry Farrell; Nicholas Grimshaw; CZWG; Herzog de Meuron; Skidmore Owings Merrill; Kohn Pederson Fox*; and many other top UK and international firms; and leading developers including *Stanhope; Multiplex; Ballymore; Candy & Candy; Key London Alliance; Hammersons; and British Land*.





**Forest Hills Public Schools  
Eastern High / Middle School  
Ada, Michigan**



**University of Florida  
Orthopaedic Surgery and  
Sports Medicine Institute  
Gainesville, Florida**

The following is a select list of our U.S. Green Building Council LEED® Certified, LEED® registered, and projects designed to LEED® standards as well as BREEAM (Building Research Establishment Environmental Assessment Method) International Awards and Sustainable recognized projects in Europe.

**LEED® Certified Projects**

- Forest Hills Public Schools Eastern High School / Middle School – Certified
- Steelcase Inc. Wood Furniture Manufacturing Facility – Silver
- Seattle Terminal Radar Approach Control (TRACON) Facility - Gold
- University of Florida Orthopaedic Surgery and Sports Medicine Institute – Certified
- Nathaniel R. Jones Federal Building & U.S. Courthouse – Certified

**Registered for LEED® Certification**

- Spectrum Health Lemmen–Holton Cancer Pavilion - Silver
- Spectrum Health Helen DeVos Children’s Hospital – Certification
- Michigan State University Secchia Center, College of Human Medicine - Certification

- Michigan Street Development Medical Office and Research Complex - Certification
- Grand Rapids Public Schools Gerald R. Ford Middle School - Certification
- White Mountain Administrative Complex – Silver
- United States Army Engineering & Support Center – Fort Bragg Satellite Pharmacy – Silver
- General Services Administration Herbert Hoover Building Renovation – Silver
- General Services Administration Moorhead Federal Building Modernization – Certification, EB

**Designed to LEED® Standards**

- Zeeland Community Hospital, New Replacement Campus
- General Services Administration, Great Lakes Region – John W. Bricker Federal Building
- Air Force Space Command, Center for Environmental Protection, Logistics Operations Resource Center
- Marine Corps Air Station (MCAS), Range Operations Center / Tactical Air Command Center

**BREEAM & Internationally Recognized Sustainable Projects**

- Scottish Natural Heritage Corporate Offices, Inverness - BRE Award for highest BREEAM for Offices score ever and Building Magazine Large Sustainable Building of 2006
- St. Asaph OptIC Centre, North Wales – Building Magazine Sustainable Building of the Year 2005
- Walbrook Square – City of London, Architect – Sir Norman Foster
- Tate Modern 2 – Sustainable Museum Design
- Castle House, London – Building integrated wind turbines
- East India Dock Road, London – Aquifer Thermal Energy Storage
- Featured as one of the few consultants in Property Week’s top 20 Green Heroes (October 2006)
- Listed in the Who’s Who in Urban Regeneration (2006)
- Members of the London Development Agency Sustainable Development Panel