

## RESOURCE CONSERVATION THROUGH INTEGRATED GREEN DEVELOPMENT: LOW-IMPACT DEVELOPMENT AND ENERGY SOLUTIONS

Weston Solutions, Inc. (WESTON®) provides innovative green development solutions that conserve energy, water, and other resources, meet security needs, and address regulatory and economical drivers.

Shown below are projects that represent some of the integrated, sustainable solutions we have provided to our Department of Defense (DOD), state and municipal, and industrial clients around the world, emphasizing green buildings, clean energy, and Low-Impact Development (LID).

### Energy Solutions

#### *Integrating Energy and Water Conservation with Alternative Energy*

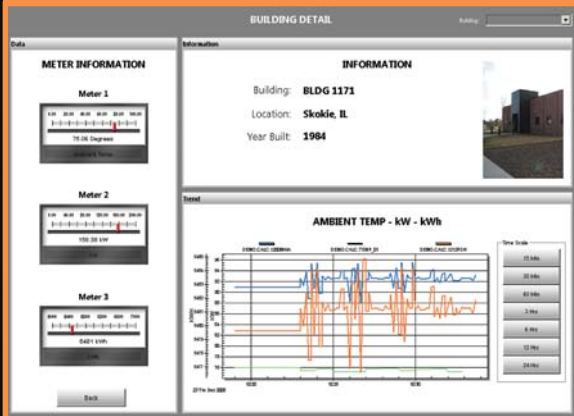
#### A Combined GreenGrid® Modular Green Roof and a Rooftop PV System

WESTON has designed and installed our GreenGrid® green roof system in combination with photovoltaic (PV) systems for a two-pronged approach to energy solutions: reduced energy consumption through the cooling effect of the green roof and a local supply of alternative energy. The temperature-moderating effects of the GreenGrid® roof also increase the efficiency of the PV panels.



**Rooftop of the LEED® Platinum Windrush School, Oakland, CA**

#### Energy Management System at Peterson AFB, Colorado Springs, CO



Executive Order 13514 and DOD initiatives require greater energy and water security. WESTON's integrated approach to energy management identifies energy (as well as water) conservation measures through audits and also assesses the feasibility of various alternative energy sources. We use a technology-neutral approach for the best-fit solution, which may include solar, wind, biomass, landfill gas, or geothermal.

WESTON provides automated audit systems, which assess the success of conservation and efficiency measures. These systems help determine whether cost reduction and energy and water security goals are being met and can identify opportunities for improved resource efficiency.

WESTON has also supported Energy Conservation Projects through the development of design-build cost estimates and supporting savings-to-investment ratio documents for military hospitals and dental clinics at Patrick AFB, FL; Tyndall AFB, FL; Randolph AFB, TX; and Nellis AFB, NV.

## Low-Impact Development (LID) Solutions Integrating Energy, Water, and Natural Resource Efficiencies

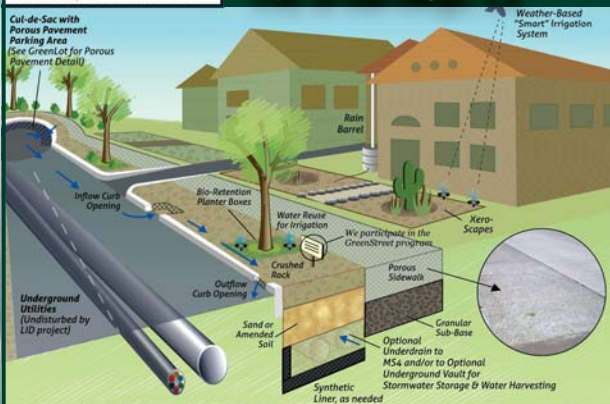
*WESTON provides innovative LID solutions for existing and new development that incorporate water conservation and stormwater reuse.*



**Rain barrel collection system  
at a branch of the San Diego Public Library**

**GreenStreet**  
Green Low Impact Residential Street

**Green Street,  
City of San Diego, CA**



WESTON offers integration of LID approaches with alternative energy and water conservation.

Examples of WESTON projects that integrate LID with conservation include:

- The sustainable design of a 128-acre LEED® Platinum Ecosystem Park in Hyderabad, India
- Numerous LID retrofit projects for the City of San Diego, including large underground infiltration vaults at dual-use park sites, green roofs, residential “Green Street” retrofits, bioretention cells, rain barrels, and planter filtration systems
- Green roof and stormwater storage and reuse expertise for the Los Angeles Community College District
- Integrating water reuse and energy saving into the design of LEED-certifiable buildings, as well as providing LID design and construction management services at DOD facilities
- Multiple LID projects at Fort Stewart that address DOD LID initiatives and current guidelines for new development, plus rain gardens, rain harvesting, and porous-pavement approaches



**Fort Stewart LID Porous Pavement Project**

**For More Information, Contact:**

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