The Sun-Root™ System

Introducing the Latest Achievement in Sustainable Technology
BENEFITS OF THE SUN-ROOT™ SYSTEM

- The vegetation significantly reduces rooftop temperature increasing PV efficiency.
- Does not penetrate roof membrane.
- Each Sun-Root™ measures 32ft² and a minimum of 250 watts per Sun-Root.
- First Green Roof system engineered specifically to support with solar energy.
- 30° attachment angle for maximum power yield.
- Compatible with industry leading photovoltaic panels.
- Considerably decrease your buildings environmental footprint.
- Rigid ‘root’ design for maximum strength and uplift resistance.
- Light-weight and easy to install.
THE SUN-ROOT SYSTEM INVESTMENT OPPORTUNITY

For every $1 invested in this combined technology, you expect to earn a full payback in approximately 4 years. The entire system carries a warranty of 25 years and during that lifetime you can expect to earn 3 times the amount of your initial investment.

- Project meets guidelines for a 30% Federal Investment Tax Credit.
- Eligible to receive property tax exemption by combining Solar & LEED Gold.
- Reduce or eliminate your energy bill.
- Entire project is exempt from state sales tax.
- Incentives from local Utility companies.
- Accelerated Depreciation allows you to write off the depreciation in your first 5 years.
- Reduce stormwater fees.
- Dramatically increase your market presence.

Sun-Root system installed atop the green roof research facility at the New York City Parks Department’s Five Borough Administrative Building at Randall’s Island.
THE SUN-ROOT™ MODULE

SIDE PROFILE

BIRD’S EYE VIEW
Green Roof Technology
Sun-Root™ System

FRONT VIEW

BACK VIEW
POSSIBLE SOLAR INCENTIVES:

FEDERAL:

- **30% Business Energy Investment Tax Credit** – Ability to write off 30% of the entire project costs associated to the installation.

STATE / DISTRICT:

- Clean Energy Production Tax Credit - Incentive of $0.0085/kWh. 1kW ≈ 1,200kWh
- Clean Energy Grant Program – Maximum incentive of $6,000
- High Performance Building Incentive – By adding PV to a LEED rated building you are eligible for a reduction of property taxes.
- Green Building Incentive – Solar Permitting and Fee reduction
- D.C. Rebate Program – Maximum incentive of **$16,500** per site per year.
- State Sale Tax Exemption - **100%** of project costs will be sales tax exempt.
- Green Roof Rebate Program – Offers **$5/ft²** to offset the green roof costs
- Various Utility Companies allow for feed-in tariffs and grid offset rebates.
FEATURED PROJECTS

Lancaster Green Infrastructure Plan:

The City of Lancaster, through their bidding process, chose GRT to answer the question; can the Green Infrastructure Plan provide more benefits per dollar than traditional gray infrastructure alternatives? Of course the answer is yes but we set out to show just how important green infrastructure is to reducing stormwater management needs and the critical role it plays in sustainable development.

The designs included 15 ground-level stormwater best management practices and approx. 10 green roofs covering over 100,000 ft², all aimed at catching the stormwater at its source. The projects will commence Fall of 2012 until the estimated completion date of Fall 2014.

Celebrity Cruise Lines:

Green Roof Service was selected by Celebrity Cruise Lines in 2008 to tackle the need for green spaces for the guests aboard their fleet of luxury cruise ships. The first cruise ship to go green was the Solstice in 2008 which added a turf lawn covering over 22,000ft². With this new green space Celebrity Cruise Lines introduced the Celebrity Cruise Lawn Club encouraging guests to enjoy bocce, croquet, a picnic or a round of golf – all while cruising on the ocean.

At the encouragement of their guests, Celebrity followed up the Solstice green roof by adding green spaces to four more of their cruise ships; Equinox, Eclipse, Silhouette, and the Reflection, which was completed in 2012.

In total Green Roof Service designed and implemented close to 100,000ft² of green spaces for Celebrity Cruise Lines and their guests.

Bronx, NYC Courthouse:

The Bronx County Courthouse opened its environmentally friendly green roof in mid-September, 2006. The first of its kind in the Bronx, it is one of 14 green roofs funded through the Bronx Initiative for Energy and the Environment of BOEDC, and the Borough President, Aldolfo Carrión Jr. This is also the first green roof on a building managed by the New York City Department of Citywide Administrative Services (DCAS), which manages 53 public buildings in the City.

Green Roof Service was chosen as the green roof designers and consultants as well as conducted a two-year scientific monitoring of the roof to measure stormwater retention and temperature.
THE SUN-ROOT™ SYSTEM INSTALLATION STEPS