

# GREEN ROOF

**Green roof installation could save you up to 20 percent of water and energy costs annually and earn you an incentive of 25 cents per square foot.**

**A green roof looks great, is a reliable heat buffer, lengthens roof life and decreases storm water runoff while increasing your property value.**

Businesses around the world are using plants more often as a roof. A green roof can exist purely for the energy savings as a “passive” roof planted with up to 6 inches of small grasses. Or, your green roof can serve as a rooftop garden, complete with trees and seating or walkways. The plants act as a sponge, to reduce the amount of water and pollutants that run off your roof. At a minimum, a green roof requires a waterproof membrane, drainage system, and 6 inches of growth media and plants.

A green roof can save money in several ways. And environmentally conscious business owners enjoy their contribution to clean air and the addition of plants to otherwise unused space. But there is a long list of other benefits associated with this growing energy-saving feature.

#### Benefits of a green roof:

- Extends roof life by two to three times
- Reduces potable water connection fee by around \$1,500
- Reduces roof temperature by 55–65 degrees, using less energy for cooling your building
- Reduce storm water runoff volume and/or land used for ponds
- Rebates available from Progress Energy.

A 10,000 SF facility could save \$870 in energy and around \$600 in water annually and earn an incentive of \$2,500. HVAC is SEER 9, 76° F summer, 70° F winter and energy at 10 cents p/kWh.



## Incentive requirements:

1. Call Progress Energy for a free Business Energy Check for your existing facility or arrange a free consultation for your new construction project.
2. Must be installed according to designer's recommendations and specifications.
3. Requires a minimum of 6 inches of growth media for a passive design and more than 6 inches for an active design.
4. Roof insulation and waterproofing must meet code requirements for industry standards.
5. For more information on green roof technology, visit [greenroofs.org](http://greenroofs.org).

Other requirements do apply. Available to all Florida nonresidential Progress Energy customers. Visit [savethewatts.com](http://savethewatts.com) for more details.

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 **Progress Energy**

The benefits of a green roof are many, and the technology appeals to different business owners for different reasons. Whether your main goal is to reduce energy use and costs, or if it's to improve your building's profile and environmental impact, a green roof solves many problems in a low-profile, low-impact way. Some rebates may not exceed 50 percent of total project cost.

### Progress Energy energy-efficiency programs

Progress Energy has a dedicated team of energy-efficiency advisors ready to help businesses integrate energy-saving upgrades into their existing or new construction projects. A comprehensive list of our energy-saving programs is below. Please contact your Energy Advisor at Progress Energy to see if you qualify for these money- and energy-saving programs.

#### Building envelope improvements

- Cool roof
- Ceiling insulation upgrade
- Green roof
- Roof insulation upgrade
- Window film or screen

#### HVAC equipment improvement

- Air-cooled and water-cooled electric chillers
- Heat pumps
- Packaged terminal heat pumps
- Unitary AC and heat pumps
- Thermal energy storage

#### HVAC-system-related improvements

- Demand control ventilation (DCV)
- Duct test
- Duct repair
- Energy recovery ventilation (ERV)
- PTAC steam cleaning
- Rooftop unit recommissioning

#### Indoor lighting improvements

- Efficient indoor lighting
- Occupancy sensors

#### Industrial energy improvements

- Efficient compressed air system
- Efficient motors

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